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THE POULTRY KEEPER

A JOURNAL FOR EVERY ONE INTERESTED
IN MAKING POULTRY PAY · DEVOTED PARTIC-
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Vol. XX.

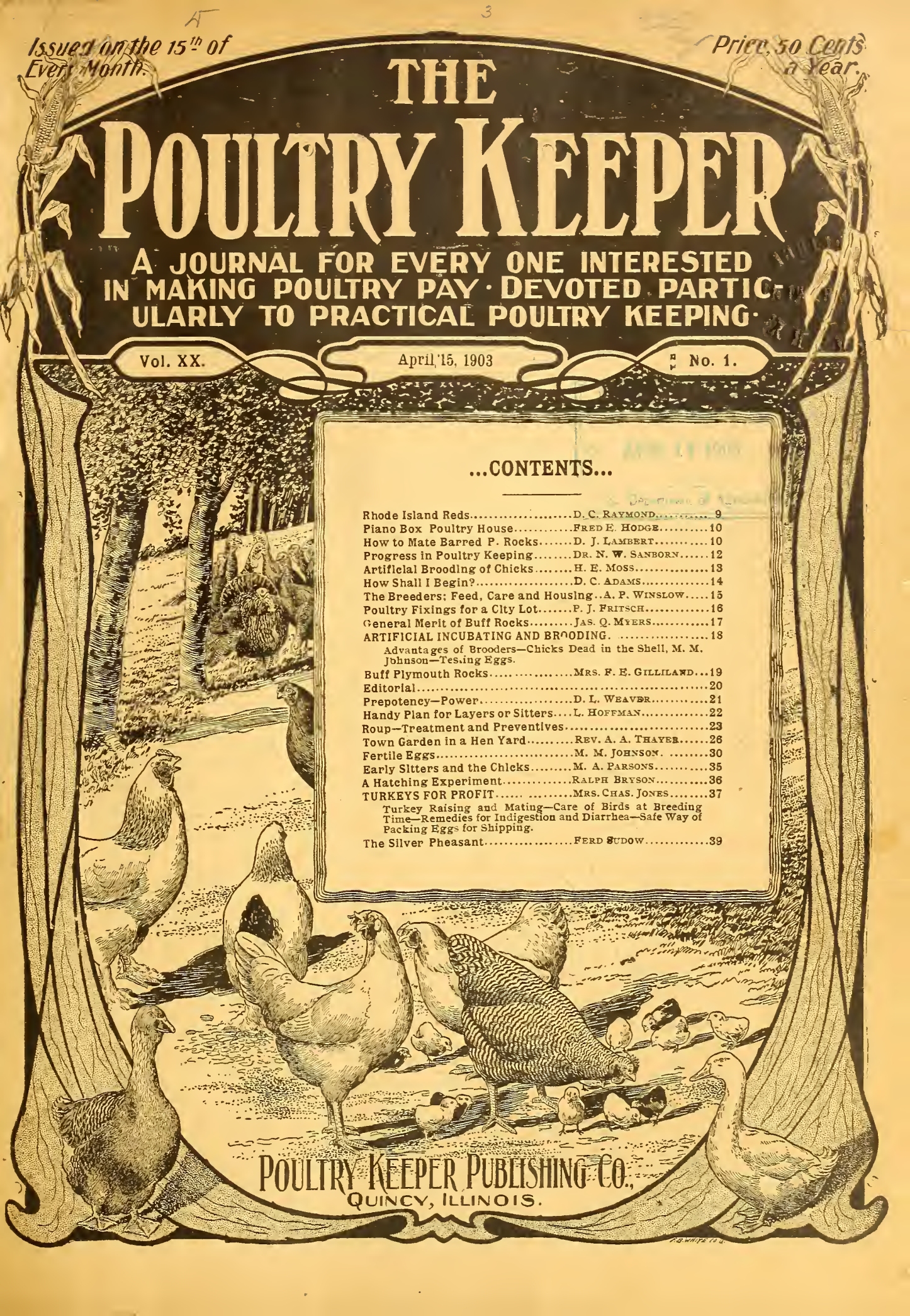
April 15, 1903

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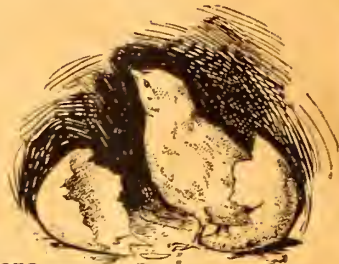
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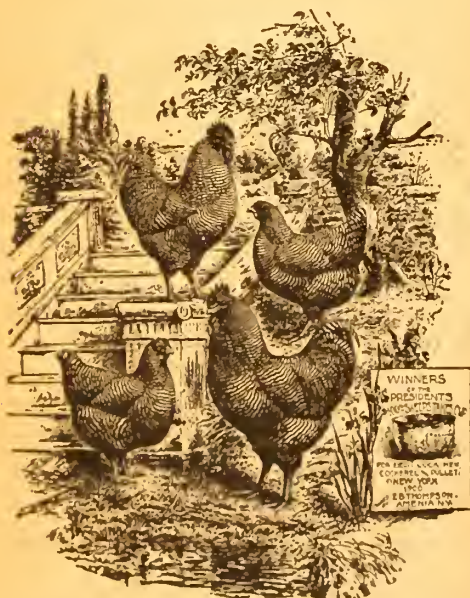
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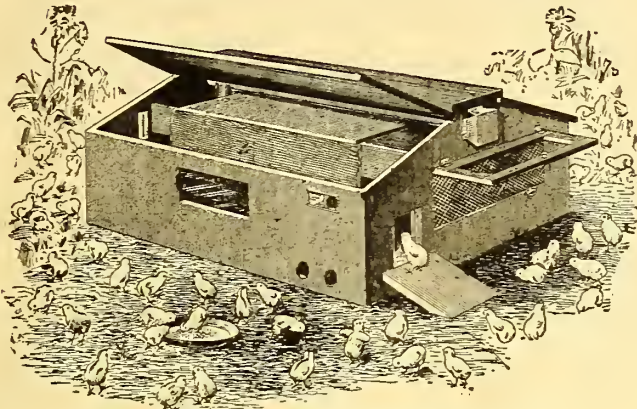
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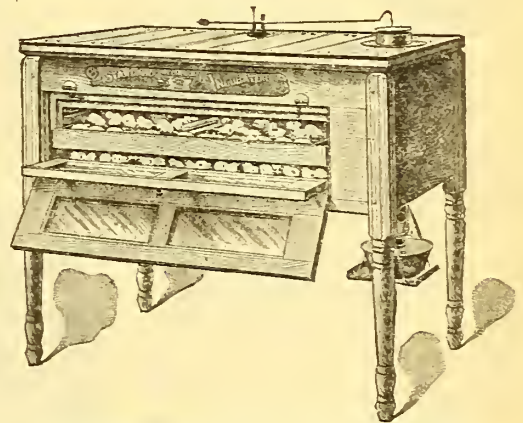
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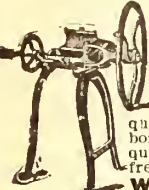
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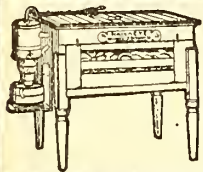
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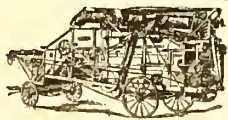
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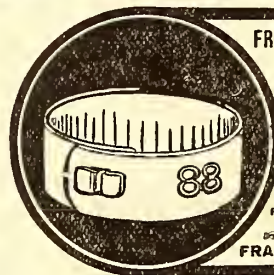
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Don't pay retail price for carriages or harness. Write for our catalogue and learn about our system of selling direct from factory to customer. Two profits are saved to you. Satisfaction is guaranteed, or you can return the purchase and we will pay freight charges both ways. We have the largest assortment of buggies, surreys, phaetons, carriages, and other high grade vehicles, as well as harness, horse rugs and other horse accessories, in America. Write for the catalogue to-day.

THE COLUMBUS CARRIAGE & HARNESS COMPANY,
Factory and General Office, COLUMBUS, O. Write to
Western Office and Distributing House, ST. LOUIS, MO. } nearest office.



FRANK MYERS, the B. P. Rock Specialist.

HIS ROCKS were bred in line for 12 YEARS, and we are selling eggs that produce the **WINNERS.**

15 for \$2; 30 for \$3.50; 50 for \$5; 100 for \$9.

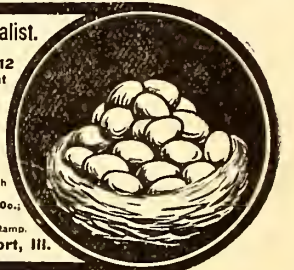
Replace all eggs that are broken, guarantee 7 chicks of each setting to hatch, or duplicate the order at half price.

Write your order state where you saw this ad.

Will give 25 IDEAL ALUMINUM LEG BANDS with each setting of 15 eggs.

Prices of Bands, post paid, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c.

Samples of bands and price list mailed for 2 cent stamp.
FRANK MYERS, - Freeport, Ill.



The IDEAL THE IDEAL Trap Nest

Shows the Hen that Laid the Egg.

Keep a record of your hens with the only trap-nest system that is practical in operation and cost.

The Trap Nest Text Book.

tells a new story of the hen and her product. 128 pages. Price 75 cents. Free to new purchasers of plans. Circulars describe my specialties. Write for them. Please mention Poultry Keeper.

F. O. WELLCOME, Box C, Yarmouth, Maine.



My new illustrated half-tone catalogue will prove to you that my

White Wyandottes

are of large sizes, males weighing up to 11 pounds; typical Wyandotte shape; chalk white and winners wherever shown. Send for it. The first winter at Cleveland and Chicago, the **BATTLE GROUNDS OF THE GIANTS**, I won 1st hen; 2d pullet; 3d ck; 1; 4th cock; 5th pullet; 3 specials. Have mated only 6 pens. My motto is

Quality Not Quantity.

Males score 95 to 95 1/4; females 94 to 96. Remember, females in my hand have scored to 96 3/4 and males in my customer's hands to 96 1/4 in the show room. Do you want some of same kind? Eggs \$3 per 15; \$5 per 30. Poor hatches duplicated at half price.

CHAS. V. KEELER, Box 4981, Winamac, Ind.

Partridge Wyandotte Eggs \$2 Per Sitting. From fine stock. 15 eggs to sitting. Satisfaction. Can please you. 1-12 H. N. GURLEY, Milan, Mo. White Fly. Rock Eggs \$1.50 Per Sitting.

25 PAT. APPLIED FOR

The Improved Champion Leg Band. Aluminum or copper, adjustable to fit any fowl. Postpaid, 12, 15c; 25, 30c; 50, 50c; 100, 80c; initials extra, 10c per 100. The superior is securely locked, impossible to lose off, six sizes. Postpaid 12, 25c; 25, 40c, 50, 75c; 100, \$1.25. Also pigeon bands. Circular free. Stamp for sample. T. Cadwallader, Box 604, Salem, O.

A POULTRY COURSE FOR 50c.

135 } These figures represent results obtained by a man in Maine, who followed out the suggestions in my book, "200 Eggs a Year Per Hen—How to Get Them," given in the chapter, "The Law of Sex." 135 chicks were hatched—of these 28 were males and 107 females. The chapter on "The Law of Sex" is only one out of many in this remarkable little book. A chapter of timely interest just now is the one called "Fertile Eggs and How to Get Them." The book tells how to make one of the best trap nests ever invented; how to rear chicks; how to feed for 200 eggs a year; how to lay down eggs in the spring so that they will be perfectly fresh at Thanksgiving; and many other useful and interesting things. The book is made up of nuggets of wisdom dug out of the best rock of experience. One enthusiastic lady in Maine writes: "I place your book next to the Bible." Says Dr. Wm. R. Fisher of Swiftwater, Pa.: "Nothing that I have read approaches your book in clearness of expression and fullness of detail. It has given me more information about practical points than all the rest put together." Mr. Chas. H. Dunning of Auburn, New York writes: "I follow your method of feeding and get splendid results." Price of single book, 50c; three for \$1. Liberal terms to agents. Please mention Poultry Keeper.

EDGAR WARREN, Hampton, N. H.

The Belgian Hare Guide

This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Orating and Shipping, Caponizing, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.

PRICE, 25 CENTS.

A year's subscription to Poultry Keeper (50c) and a copy of the Belgian Hare Guide (25c) for 65c. Address Poultry Keeper Publishing Company, Quincy, Illinois.

EGGS! EGGS

From \$25.00 trio and one year breeding of Buff P. Rocks, F. C. Shepherd strain direct. Breeders go to 91 points. Stamp for reply. Eggs \$3. 3-12

THOS. MUNRO, 1106 St. John St., TOLEDO, OHIO

GOING FAST. WHAT IS? TARBOX'S WYANDOTTES.

Silvers all gone, except a pen of last season's breeders, cock and 6 hens, price \$12.50. 5 Buff cockerels \$4 to \$8; 25 Buff pullets and hens at \$1.50 to \$2.50. Pen of Buff breeders of last season's, cock and 6 hens, \$15; 10 White cockerels \$2 to \$5; 10 White pullets \$3 to \$5; 3 trios of Buff Leghorns at \$5 a trio. Spratt's Patent Poultry Food and Meat. NO EGGS. Send for circular. 12-12

A. & E. TARBOX, Box 2, Yorkville, Illinois,

Bargains in Buff Wyandottes.

100 hens and pullets for sale. Show birds at \$2 each. Extra fine breeders at \$1.50 each. Will close out my entire stock. All bred from my winter laying strain.

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CLIME'S STRAIN OF WHITE LANGSHANS & BUFF LEGHORNS

lead all. My Buff Leghorns won at New York 1903, in the largest classes of this variety ever shown in America. 1st cock; 1st and 2d cockerels; best shaped male; best colored male and best head. At Boston, Mass., 1903, I won 1, 2 cock; 2 hen; 1, 2, 3 ckl's; 2 pullet; best shaped male and best colored male. My White Langshans won during the last 2 years more 1st and 2d prizes at the large shows than all other breeders of this variety combined. Stock and eggs for sale. Buff Leghorn eggs per sitting \$5; White Langshan eggs per sitting \$3. 3-12

CHARLES M. CLIME, Terre Hill, Pa.

A GREAT INVENTION.

Pittman's Model Poultry Apparatus is the most perfect apparatus ever used in a poultry house; up-to-date furniture complete; combines every desirable feature; no other fixtures needed; no poultry raiser can afford to be without it; profits more than double; cholera and other diseases prevented; no more mites; impossible to spoil or waste food; not a foot of floor space taken; great saving in room; absolute cleanliness maintained; comparatively cheap; lasts a lifetime; Agents wanted in every locality; most liberal terms; special inducements next 30 days. Send for circular and please be sure to mention Poultry Keeper. 3-12

C. PITTMAN, Santee, Nebraska.

THOMAS C. ALLEN

J. D. NEVIUS

Lynnhurst Poultry Yards,

BEVERLY AND GLASSBORO, N. J.

—OUR—

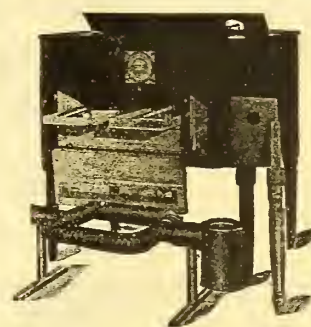
Light Brahmas, Buff, Partridge, White and Black Cochins

Have proven their superiority by winning since August last in the best shows in the country. Exhibition pens, 25 1sts, 4 2ds. Single birds, 132 1sts, 101 2ds, 13 3ds, 41 specials. Very choice young birds for sale at bargains. Eggs \$3 per sitting. Address 12-x

J. D. NEVIUS,

Beverly, N. J.

Brooder Hatched 44 Chicks From 50 Eggs NATURE'S LAWS, SECRETS DISCOVERED.



"Our Book Nature and its Laws, means success to you." 16 years experimenting on Incubators, Brooders and Diseases. 3 customers report 100 per cent raised in one town this winter. This is only a drop in the sea to what our brooders have done for the past 5 years. Every chick raised that hatched in a cold brooder house and sheds, 8 to 16 degrees below zero this winter. Dozens have visited this town to see for themselves and found it just as represented. Dr. H. E. Keller, Decatur, Ind., raised all the chicks in two trials in a cold brooder house; also he hatched 44 chicks from 50 store eggs put in our brooder. Hundreds know of this fact. Also the Doctor put our incubator out on the back porch, 16 degrees below zero, and heat kept up to 103 all night in machine. No change in weather can effect our incubator. Mr. John Lose raised all the chicks, where 22 brooders of other makes had been a complete failure. Mr. Lose says he never saw chicks grow so in 8 weeks, 2 pounds. Mr. Frank Krick also raised all the chicks. We have hundreds of customers who raise all the chicks with our brooders. If you have a brooder that is a dead trap, buy our Brooder Fixtures, can be put in any brooder made. Price \$8.


Send for book "Nature's Laws," 10c. R. I. Red eggs and China Black Langshan eggs \$10 per 100. They are the only fowls that lay without forcing for eggs in coldest weather. A laying strain, 223 to 239 eggs per year. Please mention Poultry Keeper. 2-4

PERPETUAL HEN COMPANY, Drawer 682, St. Charles, Ill.

ROSE COMB BROWN LEGHORNS.

a specialty also S. C. Blacks. Eggs from winners scoring 90 to 96½. \$1.50 per 15; \$2.50 per 30. From free range flocks of Rose Combs, \$4.50 per 100. Circular free. 5-12

J. L. RANDOLPH, Box A, Cutler, Ohio.



THE GEM INCUBATORS
are fitted with wonderfully sensitive and efficient regulators. Removable chick tray and nursery, besides many other exclusive improvements. They hatch every good egg or your money back. One-half the price of other makes. \$6.00 and up. Brooders \$4.00 and up. Write for catalogue. It is free.
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NATURAL HEN Incubators

get right down into the way that Nature taught. Beats artificial incubators and the old way of setting hens. Indispensable to anyone who keeps a hen. Over 125,000 now in use. 200 egg size costs only \$3.00. Other sizes equally as low. Agents wanted. Catalog and 25c Lico Formula FREE, if you write to-day.

Natural Hen Incubator Co.

B 1, Columbus, Neb.

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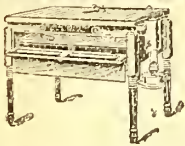
**WORLD'S POULTRY BOOK IN GREATEST COLORS**

SEND 10 CENTS—worth \$100 to any poultry raiser. Treats on diseases, cures, scientific feeding, rearing chickens, ducks, geese and turkeys, from practical experience. It beautifully illustrates land and water fowls. Gives our formulas of how to feed to make hens lay 200 eggs a year. Prices quoted on thoroughbred poultry and eggs.

BE WISE AND BUY OF THE IOWA POULTRY CO., Dept. 708, Des Moines, Iowa.

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Made by the man who knows. Sold on 30 Days Trial. Absolutely SELF-REGULATING. The hatcher built on common sense, practical ideas.

**FREE TRIAL.**

We'll send you an Ideal on 30 days free trial. Keep it if you like it. Big poultry and poultry supply book free.

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HARDING'S Baby Chick Food

is the best balanced ration for little chicks on the market. Always ready to feed.

IT IS A LIFE SAVER.

Fed dry to chicks from one day to 6 weeks old, no loss of life. Thousands of flattering testimonials.



5 lb. carton - - - 30c
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50 lb. bag - - - \$1.50
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The following Uncle Sam Poultry Remedies are guaranteed to effect a cure or money promptly refunded.

Harding's Roup Cure
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Harding's Egg Producer.

Send for free Catalogue to

GEO. L. HARDING, Manufacturer,
Box 111, Binghamton, N. Y., U. S. A.

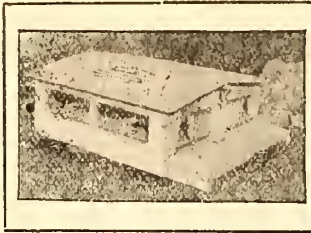
General Distributors:—Excelsior Wire & Poultry Supply Co., New York; Joseph Breck & Sons, Boston, Mass.; Vaughan's Seed Store, Chicago, Ill.; J. Wilder & Co., Cincinnati, O.; Fanciers Supply Co., Richmond, Va.; A. W. Deans & Co., Norfolk, Va.

The Poultry Keeper**Champion Golden and White Wyandottes.**

1000 HEAD FOR SALE Of the finest show and breeding birds, in both old and young, at from \$2 each and up.

Our birds have won nearly 300 premiums at New York since 1890, and they have won at all the leading shows of the country during the past twenty years. We can supply you with anything in our line that you may need. Fine color and lacing. Bred for utility as well as for the highest type of fancy points. Great layers. The Keller strain is known the world over. Also GOLDEN and SILVER SEBRIGHTS and BELGIAN HARES, best in the land. Our large circular shows 40 of our winners; sent for stamp if you mention Poultry Keeper.

IRA C. KELLER, Box 10, Prospect, Ohio.

**The Branhholm Brooder..**

Excels all others, is the nearest to nature.

Absolutely safe, most simple, durable, economical and the only combination brooder manufactured.

For prices and particulars address,

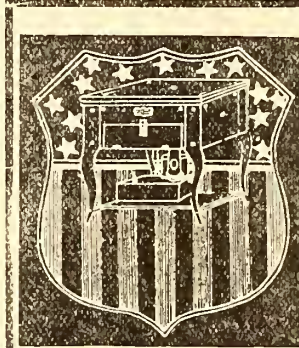
Hermann Thiemann, Manchester, Mass.

and be sure to mention Poultry Keeper. 12-6

CHALLENGE STRAIN OF LIGHT BRAHMAS

Noted for great laying as well as prize winning. 1902 at Boston, my birds won more first prizes than any other strain and the two first prizes most sought for, first cockerel and first prize breeding yard. Hundreds to select from. Extra fine breeders in old and young stock at your own price. Write stating just what you want. All stock guaranteed as represented or money back. Please mention Poultry Keeper. 11-x

J. P. KEATING, - Westboro, Massachusetts.

**Built Right Side Up.**

That is why the U. S. Standard Incubator is the Standard of Success.

The only Base Heater incubator. Uses five times less oil than any other. Lamp filled but once during a hatch. Has Patented Tank heated by Hot Air, Steam and Hot Water, combined. A veritable hen's nest surrounded by heat. Absolute even temperature. Eggs are hovered with soft fabric during incubation—one of the secrets of its success. Less time and labor required to operate. Most accurate automatic regulator; automatic wick trimmer. Most natural system of ventilation and moisture. Aluminized tank. Free catalogue (if you mention Poultry Keeper) explains fully. Don't buy 'till you see catalogue.

THE STANDARD INCUBATOR CO.,
PONCA, NEB.

EGGS NOW READY FOR SHIPMENT

From Standard Bred Stock:

Guaranteed true to name and first-class stock. Have hundreds of breeding birds, all varieties. We have all varieties of

Plymouth Rocks, Wyandottes, Leghorns, Minorcas,

Cochins, Langshans, Brahmans, Indian Game,

Andalusians, Bantams, Black Spanish, Etc.



Red Caps and White Crested B. Polish.

Your can't buy guaranteed standard bred eggs anywhere else as cheap as we sell them. Order direct from this ad. or send for my big 32-page illustrated catalogue, free. Mention Poultry Keeper.

Northwestern Poultry and Fruit Farm,

WALTER SEIDEL, Prop.,

BOX K, ELEROY, ILL.

	<p>JUDGE EMBRY SCORES OVER ...1100 THOROUGHBREDS... AT RELIABLE POULTRY FARM, QUINCY, ILLINOIS.</p>	
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RELIABLE STRAINS.

If you are engaging in the poultry business it is worth something to you to know where you can go to secure your stock and feel assured of getting something bred to give you the high scoring birds. The breeds and the breeding

ARE SPECIALTIES AT THE

Reliable Poultry Farm.

Ours is not a come and go farm. We have made our birds. We know them for generations back. We know where all the fine stock of the country is, and when new blood is brought in it comes from the finest strains in existence. We are prepared to breed, and our men know how, and make it their one business to develop the highest qualities. You may expect to find here every strain worth having—always the purest.

Our Annual Poultry Book and Catalogue Combined will be sent you for the postage, 10 cents. It is the poultry man's compass; points the sure way to success, and describes the magnificent stock in our many breeding pens. Send for it to-day. Circulars free. Address,

Reliable Incubator & Br'd'r Co.,
Box A-15, Quincy, Ill.



Barred, White and Buff Rocks, Silver Laced and White Wyandottes, White and Brown Rose and Single Comb Leghorns, Light Brahmas, Buff Cochins, Black Minorcas, White Crested Black Polish, Black Langshans. All in our own yards and score from **89 to 96 Points.**

PRICES VERY LOW CONSIDERING QUALITY.

Eggs from pens, any variety, specially mated for reproduction by Judge Emry at \$2 to \$2.50 per sitting. Also a few sittings of Pekin Duck eggs at \$2 per sitting. Toulouse Geese and Bronze Turkey eggs at low prices. Special prices on eggs in 100 lots for incubators. Those that know say biggest thoroughbred poultry farm in the world. Always address,

Reliable Incubator and Brooder Co., BOX A-15,
QUINCY, ILL., U. S. A.

"The way to make your Poultry pay"

Take a Correspondence Course with

The Columbia School of Poultry Culture.

This splendidly equipped school is successfully teaching students in every walk of life the art of profitable poultry raising. At its head is Dr. A. A. Brigham, who is acknowledged one of to-day's foremost men in the poultry field, both as a practical poultryman and successful and inspiring teacher. Its faculty is composed of men of highest rank among poultry authorities and most successful breeders in the country.

The secret of their successes and all their valuable experience is yours at a very small fee. The course will pay for itself in practical suggestions the very first month. It is practical, individual and personal—being specially adapted to the needs and conditions of each individual student.

Write for handsome illustrated booklet on profitable poultry and a full synopsis of the course. **IT'S FREE.**

THE COLUMBIA SCHOOL OF POULTRY CULTURE,

Box 102,

WATERVILLE, N. Y.

SPECIAL NOTE.—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.

Everyone interested in poultry cannot fail to profit largely by taking it.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers and others who love poultry for their own sake, apart from financial considerations, can learn how to keep their pets in the best possible way and obtain the very best results from a fancier's standpoint.

Students are assisted to lucrative positions as managers of poultry plants and the demand for men far exceeds the supply.

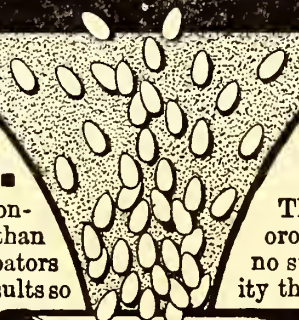
A course will fit you to fill a good position at a handsome salary.

To catch the spirit of Nature's ways is the all important thing in **INCUBATORS.**

Poultry raisers have no other concern about makes of machines than to get results. Of all the Incubators there is not one which produces results so satisfactory and so sure, under all conditions in all kinds of climate, as

THE PETALUMA

Hatches of a hundred per cent are frequent. No other machine so uniform or so high in average. Its superior materials of California redwood and copper make its services permanent. Its devices, the most modern, exact and sensitive, for heating, regulating, ventilating and moistening, all contribute to produce the one great Petaluma feature, **"The Hatching Instinct."**



The best mothers to motherless chicks are Petaluma **BROODERS.**

The chicks come strong and vigorous from our incubators. There's no surer way to bring them to maturity than in our famous brooders. Petaluma Incubators and Brooders are the poultryman's trusted handmaids, insuring his greatest success.

FREE to Everybody.

Our Latest Catalogue.

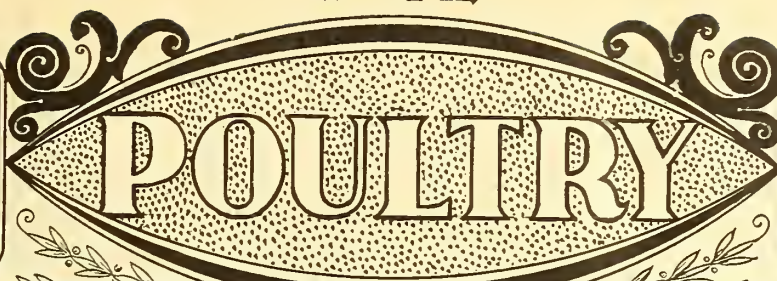
We do not sell you the catalogue. It is free, and complete as to every hatching and brooding detail. Send for it. Petaluma Incubators and Brooders are the oldest and most reliable machines on the market to-day. Freight paid all over the United States.

To Your Interest and Profit.

"Send for the story of Solomon Drew, Who had a row with an old hen or two."

Petaluma Incubator Co.,
Box 147, Petaluma, Cal. or
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THE



A JOURNAL FOR
EVERYONE
INTERESTED

KEEPER

IN MAKING
POULTRY
PAY

Vol. XX.

QUINCY, ILLINOIS, APRIL 15, 1903.

No. 1.

RHODE ISLAND REDS AS I HAVE FOUND THEM.

**Rare Combination of Sterling Qualities—Hardiness of the Game—
Size of the Plymouth Rock—Heavy Laying Qualities of the
Leghorn, Without Their Nervousness, and a Beauty
That Ought to Satisfy Any Customer.**

By D. C. Raymond, So. Framingham, Mass.

ABOUT five years ago my attention was called to the Rhode Island Reds by one of the largest broiler raisers in this section. When he first made the statement to me that they were the ideal fowl for his business I was loath to believe him, but his arguments were so strong and well put that I decided to try a few and find out for myself. Now I never raised broilers to any extent, just a few each season for the experience more than anything else, but from the very first experiment with the Reds as broilers and roasters they impressed me greatly in their very rapid growth. One very important factor is their hardiness. I have often noticed that compared with other breeds on the same range they would stand greater hardships and come to the hatchet in perfect order with ordinary feeding, while other breeds the same age and on the same feed looked to me like skeletons in comparison.

The Reds have no homely age and from hatch to hatchet outclass all rivals. The color of plumage plays no small part in this respect. You don't find any black pin feathers (that is in the improved type) to mar their beauty when dressed for market, and their rich butter colored flesh is very attractive to the buyer; in fact, buyers pay me from one and a half to three cents per pound more for them than I can get for other specimens. In weight they are very deceiving to those who are not familiar with their make-up, having the shape similar to that of the Plymouth Rock, only much longer in keel; that is, when the Reds get their extra weight, and of course that is the proper place for it.

They will mature earlier and begin laying before other breeds think of such a

thing. Cold weather doesn't stop them. I have quite often seen Reds housed in quarters that if they had not been natural egg machines they would never have paid their keeping, but instead their owners smiled and looked happy and when asked if the hens were laying would say: "Certainly, my Reds have

laid all winter long. Never saw anything like them."

I have a pen of Reds in mind that were hatched in June, 1902. The pullets commenced to lay the first of December, not one alone, but the entire lot laying before the end of December. Now these birds were not forced, simply fed as one would feed breeders. I never have forced any of my birds to lay, but have no doubt if this were done I could make a gain of four or five weeks in their first laying. I have noticed for the past three years that as a flock the Reds would lay from four to six weeks earlier than other breeds, and at a time when eggs were bringing top prices.

The Rhode Island Reds have been the object of abuse by a few of our so-called "expert poultrymen" (?) when in reali-



A Prize Winning Pen of White Wyandottes comprising part of the stock of Edwin H. Smith, Duluth, Minn. Mr. Smith makes a specialty of this popular variety and has birds as strong in beauty and utility as any to be found. The Smith White Wyandottes are hardy, snow white, good size, heavy layers and "they are winners."

ty the assailants have never seen the true type such as are being bred by eastern breeders to-day. The members of the American Rhode Island Red Club are about as enthusiasts a lot of poultrymen as one wishes to meet, and everything is being done to put this noble breed before the public as a breed that is different. A few fake breeders have advertised Reds and sold their customers a cull Buff Plymouth Rock or a cull Buff Wyandotte, but their stay in line is short. The Rhode Island Reds as shown at Boston this year were a credit to any breeder, and I can plainly see that we have a breed that is decidedly different, their color being red, not a faded out buff or a chocolate colored bird. The American Rhode Island Red Club recognizes only the Rose and Single Comb varieties.

enough, which disposes of fully half of them. When they are three months old I put in two roosts, 2x3 flat side up, 12 inches from the floor, and let those go to roost that will. Next fall I shall put these roosts higher, put under a board for the droppings and try them for small breeding pens. If they are a success, I shall increase the number. I now have three, with a main house 11 by 50 ft. I build or finish these coops at an expense of about \$6 each by doing the work myself and covering them with red roofing paper, under which I use a good quality of newspapers.

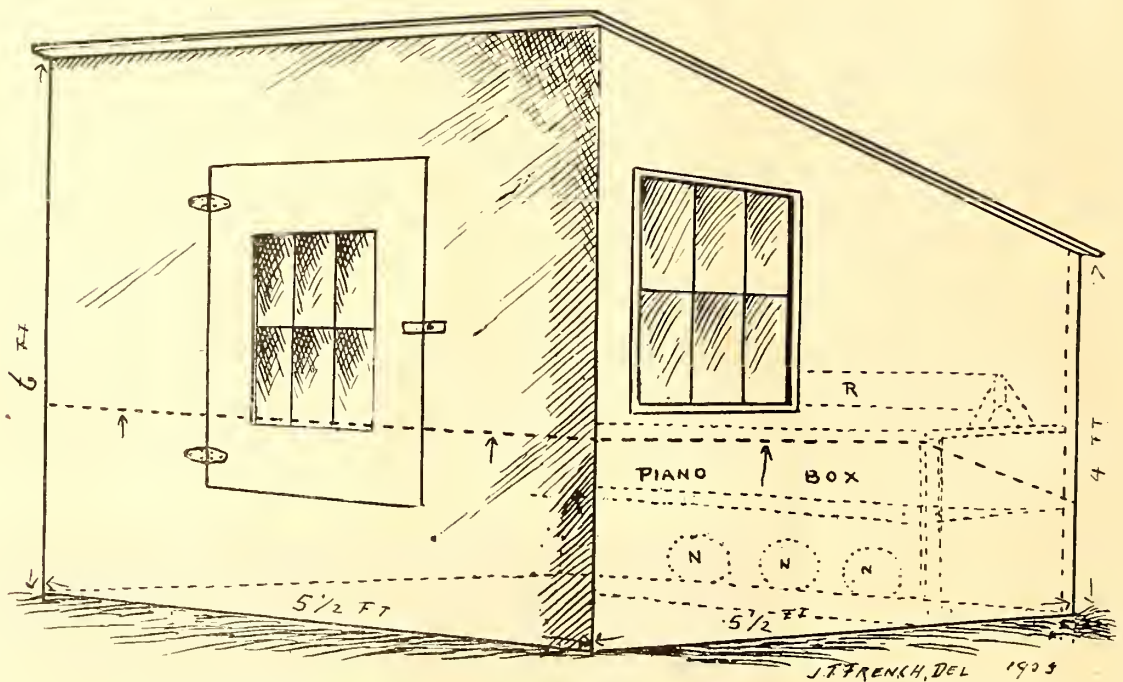
The windows are the same size (my sketch is a little off) and as the coop faces south will admit sun all day in winter. The line drawn across the end shows the original box, and how it is placed. The door buttons, because it is less trouble

a mating of any other variety will usually produce better birds of one sex than of the other.

The present edition of the standard demands closer barring than formerly. This makes the two matings nearer alike and we do not see so many extremely light colored males or very dark females. It requires a well barred male for pullet breeding and sharply barred females for cockerel breeding.

Shape is the most important requisite, especially in males; wide blocky bodies, full breasts, low set tails, shanks straight and set well apart, good combs and concave back should be looked for as well as color. We should, when possible, carefully look into the ancestry of our breeders and discard all that trace to haphazard breeding.

A line bred cockerel breeding male



Mr. Hodge's plan for making houses with piano boxes. See description in accompanying letter.

PIANO BOX POULTRY HOUSE.

Cumberland Mills, Me.

Editor Poultry Keeper.

I will respond to your invitation to send a sketch of my favorite coop. It is the first sketch drawing I ever made, but you may be able to understand it. They are made of piano boxes and suit me. The original box costs me \$2 each delivered at my home. First I nail on the bottom as shown in the cut two sills to strengthen the floor that are 2x3 inches. Then with a nail puller draw the nails from the top and take it off. In the back corners I set 4 ft. studs 2x3 for corner posts, and in the front corners I make them 6 ft. and put on a shed roof with an over hang all round of about 6 or 8 inches. As I am short (5 feet 4½ inches) this gives me a coop I can stand up in (the front at least) and clean with some degree of comfort.

These will accommodate nicely fifty chicks until maturity, in this way, by killing off the cockerels as they get large

than to put on a latch. I take seven poultry journals, all good ones, and I have never seen any account of piano boxes being used like mine, so I thought my arrangement might be acceptable to some novice like myself.

Fred E. Hodge.

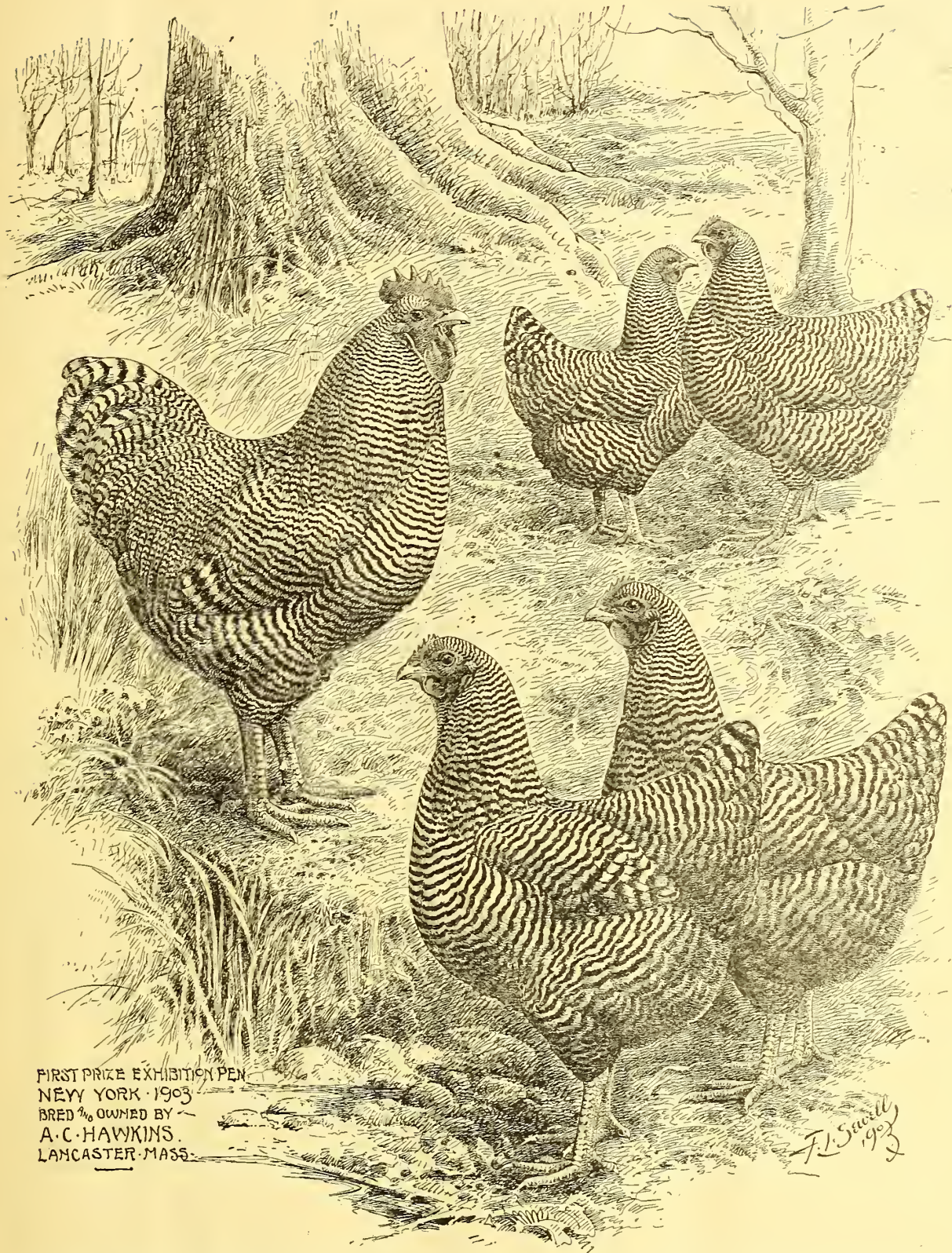
HOW TO MATE BARRED PLYMOUTH ROCKS.

The tendency of this breed has always been to produce from the same mating males of lighter colored plumage than females. Nevertheless the standard demands the same color for both sexes. For this reason breeders have been obliged to make two separate matings, one dark enough to produce well barred males and another light enough to get nicely barred females of standard color. To retain these color-producing qualities, it has become a necessity to breed these two lines apart continually. Some condemn this so-called double mating practice, although

should be strongly barred all over, excepting the flight feathers, which are more often marbled, the dark bars and bluish gray ones as near the same width as possible. Mate him to females with narrow black barring, free from brown or any muddy tinge.

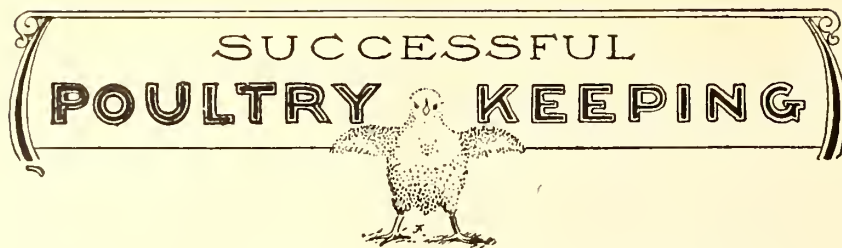
For pullet breeding, the male should have narrow distinct barring, usually not over half of the width of the gray. The females mated to him should be as near the standard color as possible, the light and dark about equal, each feather ending with a dark bar or tip, wide enough to give the bird the zebra-like striping so much desired.

Bay eyes and bright yellow shanks should be possessed at least by one side of every mating, and when we buy breeding stock we should put most money in the male, as he is one-half of the pen, either as a stock getter or as the head of the exhibition yard.—D. J. Lambert, in his 1903 edition on Pocket Book Pointers.



FIRST PRIZE EXHIBITION PEN
NEW YORK 1903
BRED & OWNED BY
A. C. HAWKINS.
LANCASTER, MASS.

FIRST PRIZE BREEDING PEN OF BARRED PLYMOUTH ROCKS AT MADISON SQUARE GARDEN, NEW YORK CITY, JAN. 1903.
Bred and owned by Mr. A. C. Hawkins, Lancaster, Mass., who for many years has been one of the foremost poultrymen of the country. Wherever Barred Rocks are bred, the "Hawkins' Royal Blue" have proved their excellence, not in the United States alone, but in Canada, Germany and other foreign countries. The first week in April, among Mr. Hawkins' other shipments were 14 Barred Rocks sent to India; and a pen of White Rocks sent to Brazil. A study of the birds reproduced herewith will help to show why "Hawkins'" stock is so popular in the big shows and among buyers who are after the best.



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

PROGRESS IN POULTRY KEEPING.

By Dr. N. W. Sanborn.

IS THERE danger that we shall stand still—making no forward movement—in the care of our poultry? Did we so profit from the successes and failures of 1901 as to do more profitable work in 1902? Did the lesson that the crowding of birds was sometimes followed by roup—such was the result in the experience of several of our subscribers in the winter of 1901-2—keep us from doing the same the past winter? We ought to do better work, year by year, as we see the results of our efforts along poultry lines.

Let us do certain things and leave undone many others!

Work for the Hatching Season.

We are now in the press of the hatching season. We will not pamper our breeders with hot mashers, nor neglect to give cool water several times a day. We will fill the feed hoppers with grit, oyster shells, bran and meat-scrap, letting the birds balance up their ration. Wheat, barley and corn we will give in moderate quantity twice a day, knowing well that the birds will get food enough so long as the hoppers do not run dry. If we have mangels the birds shall have them every morning; if all exhausted, then their place shall be supplied by cut clover. Better leave out the oyster shells than not furnish vegetables or clover. I have been surprised to see how much cut clover and mangels my birds will eat, and I am pleased to note the lower cost of their food ration.

The breeding birds should have an outside yard. An open-front scratching shed is all right, but it does not take the place of "yard room." In this yard feed all the whole grain, in pleasant days at least. The birds do better now in the open air and should be encouraged to stay there. This calls for the removal of all scratching material from the houses. Do not throw this into the yards, but remove it to the garden and plow it under. It will improve both house and garden. Follow this cleaning by putting in new nest boxes with fresh hay. Kerosene the roosts. Red mites multiply so rapidly in the warm spring days that an early attention to cleaning is good practice.

Lice on Hens Mean Dead Chicks.

The sitting hens can be expected to do good work only when not annoyed with

lice. If red mites are present do not be surprised to see the hen roosting on the edge of the box, if free, or standing up in the nest, if confined. Liquid lice-killer will get rid of the mites, and a good dusting powder kill the lice. However, start every bird free from lice by a thorough dusting, repeating this work every week, not forgetting to use plenty of the powder on nest and bird two days before date of hatching.

Never use the nest the second time until fresh material is put in. Lice kill more chicks than all other causes, and your experience in past years should teach you to avoid lice rather than destroy them when on the chicks. Where lice have had a few days' chance to work on young chicks the birds never have the vigor of those that have started into life right. The successful man never forgets the lice factor in his poultry work. It is always cropping up, always to be promptly met, always to be watched for. Do not think that the absence of lice and red mites through March and April insures you for the months that follow. If lice are not present, and shade is supplied, June and July chicks do nearly as well as May hatched chicks.

Planning for Green Food.

The yarded birds and running chicks will need a large supply of green food through the summer. Spring is the time to plan for this part of the bird's ration. Orchard range for the chicks, and large grass runs for yearlings, simplify our plans. Few of us are so situated as to furnish these good things. So we must plan our garden with the hen and chick in mind. Early beets and cabbage are as easily raised as anything. Lettuce can be tried, also rape. If the garden soil is rich, as good poultry droppings will make it, weeds will flourish and will give many a basketful of green food to the birds. It is early in the summer that we need plant for green food.

The late summer months will find plenty of "green things growing," running rampant through the cornfield. A rather heavy planting of sweet corn will give many extra stalks to be pulled and fed while tender. If the quantity of sweet corn ears is too large for the house use, the early fall cockerels will enjoy and fatten on any surplus from the gar-

den. If by the middle of June you can spare for a month some of the hen yards, dig the soil well and plant to sweet corn of a late variety. When this is a foot high a hen and brood of chicks can be given the run of the yard for the rest of the season. They will enjoy the yard, keeping down the weeds and stirring the soil, while the corn makes rapid growth. When the corn begins to form, unless so high as to be out of reach, the birds will have to be removed or they will harvest the crop.

Clean and Airy Quarters for Growing Birds.

With warm nights comes the need of more air in the poultry buildings. From the little box containing a hen and small brood of chicks to the large house with its hundreds of birds, no exception can be made. All the air possible without drafts! Remove windows, covering with wire netting if needed to keep out prowlers. Constant change of air and a clean house help along a good egg yield. The growing chick does its best when not stifled through the muggy May night, to say nothing of the so-called "dog-days."

House and Yard Cleaning Time.

Spring is also the time to clean up; Barrels of hen droppings, perhaps a pile or two of the same, are in sight. Get it all out onto the garden or spread on the grass land. Broken boxes and boards are here and there. If they have passed the day of their usefulness break them up and feed them to the kitchen fire. Have a general cleaning up of the whole plant. House, yards and the surroundings will look better for some overhauling. Set broken glass, replace the lost hinges, supply the missing button on the yard gate.

If the incubator has been cooled for the season, clean it and leave it sweet for next year's work. As the brooders become empty remove them to the store-room, not forgetting to leave them as clean looking as when you took them from the freight station.

Growing Chicks Must Have Room.

Do not crowd the growing chicks! It is surprising to see the growth of a brood of chicks. They soon double in size and need more than twice the space. If you crowd them, nature will reduce the number for you, leaving a smaller number to grow up, and even those will be less sturdy than the normal chick. Fifty chicks to a brooder flock and twenty to an average hen should be the limit to the number put together.

Dry Feed for Youngsters.

If you have never tried the dry food method of chick feeding put it into practice this spring. For five weeks after the chicks are out of the shell feed one of the commercial "chick feeds" that our advertisers put out. As soon as the chicks can have a grass run—along the seventh week—give them a hopper containing bins of bran, cracked corn, meat-scrap and chicken grit. Let them have free access at all times to this food, giving them at night a full feed of wheat or barley. You will be surprised to see how contented the chicks will become. They will not run to meet you at every visit, as they are getting food when they

(Continued on page 34.)

ARTIFICIAL BROODING OF CHICKS.

An Even Heat and Its Effect—The Two Systems of Brooding— Cheap Brooders are Death Traps—Preliminary Work and Some Extra Precautions.

By H. E. Moss.

[NOTE.—The article given herewith completes the series on "Operating the Incubator" which was begun in the February number. Mr. Moss has made the way so plain that we feel confident those of our readers who hatch by artificial means have been greatly helped in their work.—EDITOR.]

AFTER having given the incubator three weeks of care and watchfulness and brought off a good hatch there are many who feel that they can now relax. They seem to feel that the critical period has passed and that the chicks being on their feet need less attention and care than were given them during the embryonic stage. This is a grave error, for there is the same demand for accurate temperature in the brooder as in the incubator, with only a trifle more latitude.

Uniformity of Heat.

In addition the feed question now becomes important, but if there is one condition more essential than another it is uniform heat in the brooder, and this means not over three degrees variation up or down from the mark. There is a reason for this and perhaps by giving it, the reader will understand more fully the importance of observing this rule. The nourishment and growth of the chick are dependent on absorption of nutrition. The nutritive material is first digested and then assimilated or absorbed. These are vital processes, and all vital processes can only proceed at a fixed temperature called the vital temperature. If it falls below this these processes are either checked or cease entirely and instead of physiological ease we have disease.

These processes once checked usually cause death; while it may not follow immediately and the stunted body may linger a long time, complete recovery is impossible, and it never makes a profitable bird for any purpose. This uniformity of temperature is the first necessity and must be maintained regardless of cost.

The first question to ask yourself is, Do I wish these chicks to live and grow or struggle and die? If the former, you must provide the best appliances obtainable and use every means known to render them effective. There are

Two Systems of Brooding

that are in use and effective: The brooder house and pipe system with hot water circulation and the individual indoor or outdoor brooder with hot air or pipe radiators. If you intend hatching enough to justify the outlay, the brooder house is without question the plan to adopt, and built as it should be will cost about \$2 per running foot for sixty or more feet.

There is a common belief among novices that if the heat under the hover can be maintained nothing further is necessary. Whereas runs should never fall more than fifteen degrees below the hover, and this does not mean with the thermometer on a level with the eyes, but down where the chicks run; otherwise it might be 90 under the roof and 40 on the ground where the chick lives.

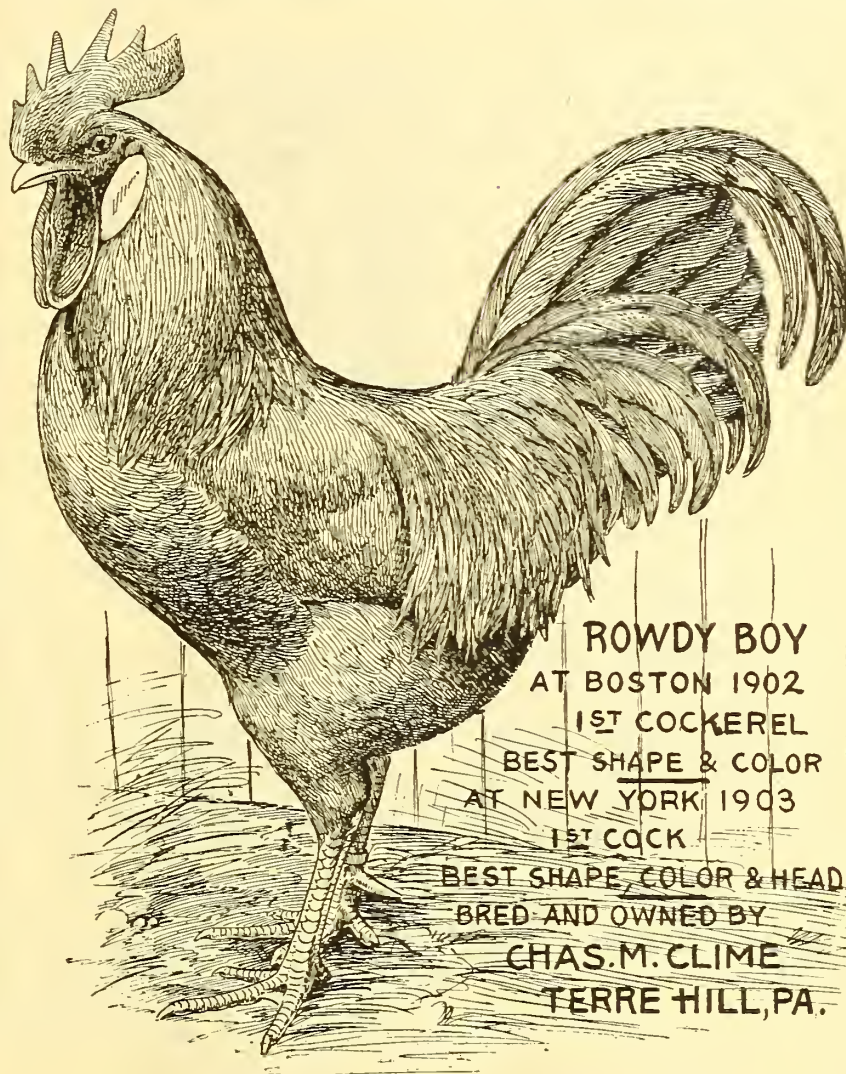
In a brooder house of this kind with the hot water heater we should use a thermostat with a double electric contact connected with an automatic draft regulator. We would place this under one of

the scale visible in passing. Keep the pipes at least eight inches above the chicks. In a building of this kind there will be but little occasion to drop the curtains, and the chicks will always have an abundance of fresh air and no draft over them.

The Individual Brooder.

The individual brooder is often used in brooder houses of this construction, which provides for a lamp for each pen and either hot air or pipe radiators. These will answer in southern latitudes if there is some provision made to heat the building, as the lamps can do no more than heat the hover, especially if unusual weather should make extra demand for heat.

Some advocate them on the score of



ROWDY BOY
AT BOSTON 1902
1ST COCKEREL
BEST SHAPE & COLOR
AT NEW YORK 1903
1ST COCK
BEST SHAPE, COLOR & HEAD
BRED AND OWNED BY
CHAS. M. CLIME
TERRE HILL, PA.

A famous Buff Leghorn Cockerel that "swept the deck" at both New York and Chicago, in the largest and strongest classes of Buff Leghorns ever shown in America. This bird was bred, owned and exhibited by Chas. M. Clime, Terre Hill, Pa. Mr. Clime also breeds White Langshans and has won on them during the last two years more first and 2d prizes at the large shows than all other breeders of the variety combined. The Clime's strain of White Langshans and Buff Leghorns are second to none.

the center hovers, also a maximum and minimum thermometer, to show the variations and keep tab on the night watchman. We would also stand a tall thermometer aside of it with the bulb surrounded by a wire guard down on a level with the chickens under the hover and

economy, arguing that it makes it unnecessary to heat the entire building in the beginning of the season when there are but one or two broods occupying it.

Cheap Brooders Are Chick Killers.

The economy theory will not hold, be-

cause the pens must be heated in some way and the only way to do it is to heat the entire house instead of a few hovers. Outdoor brooders are largely used in some sections and in southern climate will answer every demand, but as soon as we get north where the winters are cold we run great risks even with the best of them. The unfortunate part of it all is that the great American public wants something for nothing. We meet members of this public every day.

They want the prize winners at the show, and offer us two dollars apiece for them; they want the best incubator made and they really do want it, and wind up by buying one of the automatic, high-gear, ball-bearing, cushion-tire, freight-prepaid-to-your-station, and that will hold a case of eggs, all for twelve dollars! The next thing they must have is a brooder. They know as a rule what is really necessary in this, but the array of catalogues before them confuses them, and as they have already invested so much money and no returns in yet, so it has to be a cheap one, and for a few dollars they buy one of those handsome purple and gold painted ones with a self-winding attachment, 200 chick capacity. We know the rest.

I asked one of the makers of these cheap chick killers a short time ago why he consented to turn out such trash. His reply was one you have all heard before: "The American people want to be humbugged and if I don't help do it some one else will. So I may as well have my share of the plunder."

Would any sane man take even the best incubator made and try to operate outdoors in the same location that he expects a five dollar brooder to work to perfection? We think not, and yet this same brooder is depended on to hold a uniform temperature, and as it must run within two degrees as accurate as the incubator to save the chicks, how can it be possible? Don't blame the brooder or the man who sold it. If you buy a seven dollar suit of clothes and it rips up the back the first time you wear it, you must blame yourself, not the merchant who sold it.

In buying any of these poultry appliances you can set it down as an absolute fact that the thing is worth no more than you are paying for it, and good goods are not found on bargain counters. Buy the best if you expect to raise chicks, regardless of the price. If it is more than you can pay, don't buy any until you are able to buy one that will be of some service to you, and when you do, put just half as many chickens in it as the maker rates it and you stand some chance of raising them.

The First Week in the Brooder.

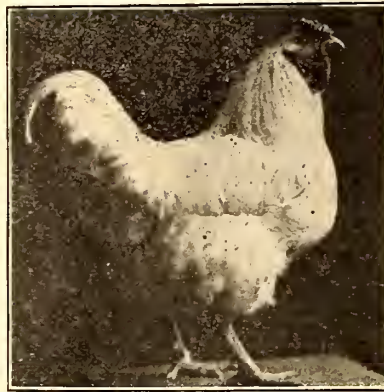
Before placing the chicks in the brooder have it thoroughly warmed and dry. You will have more or less trouble with dampness the first season in a house, as the soil is still moist and it takes a year to dry it thoroughly. The hover should be heated at 95 degrees in the warmest part for the first week, and then runs 75 to 80 degrees. Now bring in the chicks. If in a house, set up boards a foot from the hover so they cannot stray far from it for two or three days. When they have learned where to find the heat they can be given the full run.

Bed the floor with chaff an inch or more deep, give them a vessel of coarse sand and fine charcoal the first thing, and plenty of clean water with the chill taken off.

If lamp brooders are used be sure no fumes from the lamp enter the hover for the chicks to breathe, and look carefully to the ventilation. Fresh, pure, warm air in abundance is of course necessary. When chicks are at ease and comfortable you will find them at night spread out all over the bottom of the hover, a few perhaps with their heads sticking out from under the curtains. When they either huddle up in bunches to keep warm or pant from excessive heat they are not comfortable and there is trouble close at hand.

Certainty of a Good Brooder.

A good brooder properly managed will raise a larger percentage of chicks than



White Wyandotte Cockerel heading one of the breeding pens of G. Sherwin Haxton, Oakfield, N. Y. This bird won first at the Schenectady show and third at the Rochester show this year in strong competition. He is a pure, stay-white bird and is mated with females that will produce excellent offspring. Mr. Haxton is a White Wyandotte specialist.

the average hen. Chicks know when they are cold and will seek warmth at once in the brooder and they can always find it. The old hen often keeps going while the chicks are begging her to stop and hover them. Then again if a sudden shower comes up the chicks run to shelter and are safe, but if out with the hen there is no certainty what is going to be the result. She is just as likely as not to sit down under the eaves somewhere and let the chicks drown under her.

After the first week the temperature of the hover should run at 90 degrees until they are four weeks old; then at 85 until eight weeks old; then 75 to 80 until twelve weeks old. It will ordinarily be possible to dispense with heat during the latter period if the season is well advanced.

Extra Precaution.

Always take into consideration the fact that in individual brooders with curtains, when the heat registers 90 degrees with the chicks out, and you have one hundred chicks in a brooder that should not hold more than fifty, when they are all under the hover the temperature will rise far above this from the heat they generate. You will need to watch this closely!

Use every precaution to prevent rats, cats, skunks and other animals from having access to the brooder. If you are

bothered with skunks the easiest way to kill them is to take a little lard and poison it with strychnine or arsenic. Put it in a pan and set it on the roof of the hen house or any place safe from the fowls and domestic animals. Skunks will travel a long distance after lard and you will find one or more dead aside the pan in the morning.

Don't trust the cats at any time; chicks and birds are their natural food and they will eat them when hungry if any are at hand.

"HOW SHALL I BEGIN?"

D. C. Adams, No. Haven, Conn.

This is a question often asked by those intending entering the poultry business, and it is a very important question, for a great deal depends on how we begin. If we begin right we have a fighting chance to win. Some never step out of the street where beginners live. They take one step out on the plank of poultrydom and just then a little chick dies. So they test the plank and decide it is not very safe after all.

I say this because so many ask me how to begin after fooling with poultry for years. What is wanted is courage that laughs at losses, even though the incubator lamp was neglected and cooked two hundred eggs one night. It might have been worse. Take courage and brace up. We must begin with good stock. Buy from a man who loves beauty and utility, from a man who breeds his birds for heavy egg production. Then with good care and management success is in sight. All the care and feed you can give your flock will not make them heavy producers unless they have been carefully bred.

Be thorough in all you do—in cleaning, in watering, in feeding, in fighting lice. We must above all be honest in what we say, in what we do, in what we give. This is the foundation of every business and it's the rock on which we must build our poultry business if we would win. Be patient. If you have not that virtue, cultivate it. If we get impatient we get discouraged and lose. So keep sweet and win. Be in earnest about your work. John Wesley's advice to his pupils ("Keep at it") is a good motto for you and me. Some men in playing base ball break an arm or a leg in earnestness to win, but alas for the poultry breeder, any old thing will do, and yet they expect to succeed.

What we need is, first, backbone to go ahead; second, patience to wait; third, earnestness to overcome; fourth, courage to win. If we have these four essentials and good stock we can win if others have.

Old John Graham says:

"Say less than the other fellow and listen more than you talk, for when a man's listening he isn't telling on himself and he's flattering the fellow who is."

"Give most men a good listener and most women enough note paper and they'll tell all they know."

From "Letters From a Self-Made Merchant to His Son," now in its fortieth thousand. Price \$1.50. Small, Maynard & Co., Publishers, Boston, Mass.

THE BREEDERS; FEED, CARE AND HOUSING.

By A. P. Winslow, Freeport, Maine.

THE fertility of the egg and the strength of the germ all depend on the feeding, care, and housing of the breeding stock.

Many rules have been given for feeding, but they are valuable only as they fit parallel cases. There is no golden rule for feeding. The conditions are different, so must necessitate different methods. While this is true, we like to know how other breeders feed, and this is right, as it gives us a chance to see that all poultry keepers use the same grains, but use them in such a way as best fit their individual case. In giving my method of feeding I make no claim of superiority, only that it has given me good results.

I feed a mash in morning of one part ground oats, one part ground corn, one-half part each of bran and middlings, and one part of cut clover or clover meal. To this I add one-eighth of the whole of beef scraps. I scald this with boiling water and let it set over night, so that in the morning it is partly cooked and slightly warm. I feed what they will clean up in fifteen minutes. I then go around and water up with warm water and hang up all feed troughs.

The noon feed (which is the last feed for the day) is oats or wheat scattered in the litter, except in very cold weather cracked corn is used, but I use oats freely in the breeding season. When feeding up at noon I hang up a cabbage or beet in each pen so they can pick at it at will.

Housing.

Some build their poultry houses and then think about how they should have built them. Others think first, but the breeder who thinks he has a perfect house is scarce. I have thirty acres upon which a hen has never been raised as far as I can ascertain, and I am going to develop this into a poultry plant. I have seen many houses; houses for one pen, long houses, scratching shed houses and closed houses. I shall build long houses without scratching shed and with solid board partition between each pen.

Small houses are good in their place, but with a large number of pens one has only to think a moment to see that each pen has a door and every time that door is opened in stormy weather a great deal of rain or snow is blown in, beside what is carried in upon the feet of the attendant. But that is as nothing compared with the extra time it takes to care for birds as they should be cared for to get good results. I should not build a scratching shed house, because I think the extra cost is not made up by the benefits to be derived.

By extra cost I mean this: I think more birds can be kept in a closed house than in a scratching shed, foot for foot. I should not have a walk because of the room which it wastes and for the reason that a walk at the back of the house must be continuous and is a disease breeding place from the fact that pure air and sunshine cannot get in. I shall have a window in each pen large enough to give sunshine enough for the pen and so as to

be opened on all pleasant days to ventilate the pen.

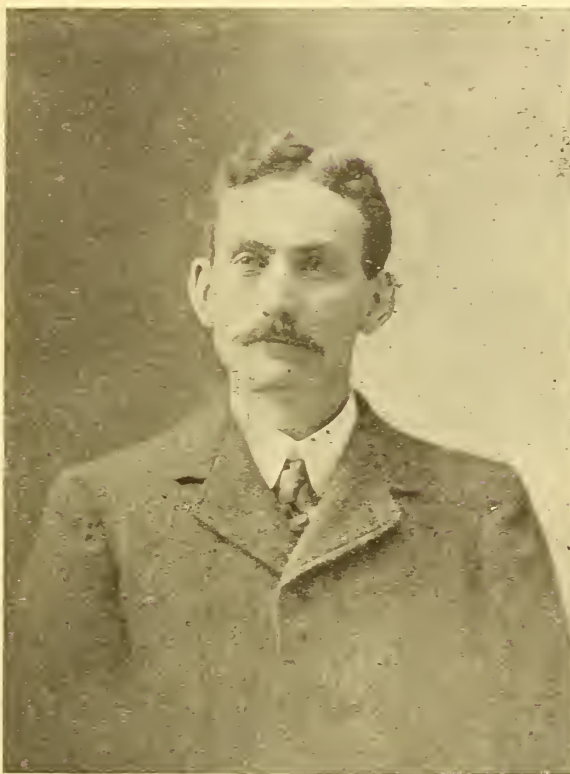
I should not build a house over twelve feet wide for the reason that a wider house is more apt to be damp, for the sun cannot reach back, and without sunshine and pure air the house is not a desirable place for the birds. By having solid partitions between each pen, drafts are avoided and the house gives one the advantages, in a measure, of the small house without the undesirable features.

Pens should not be more than twelve feet square and everything should be

is not taken into consideration is that while the sun rises in the east and sets in the west, it does not rise very early here in Maine in the winter and does set early, so that houses which have the front to the south will have the sun longer than if they face the east. We also get the most of our heavy rains from the east and by having them face the south, only the end is exposed to the storm, while if they are built to face the east the whole front is exposed. A little thinking before building may save many steps and much annoyance.

Care.

The hen is always ready to do her share (if she is bred to have a share), and while she will many times try to do it under adverse conditions, we should assist her by so caring for her as to make



Mr. A. P. Winslow, Freeport, Maine, Barred Plymouth Rock Specialist and President of the Freeport Poultry Association.

movable, so as to be easily cleaned. Ventilators are of no use as I can see, only to invite colds and troubles which follow them. We do not have ventilators in our dwelling houses, but we use the doors and windows, and that is what they are for. I have had experience with small houses, and while they are nice pleasant weather houses, they are worthless in stormy weather. By having dropping boards all of the floor space can be used for scratching.

A house should be dry, light and well ventilated. I think a house should be built high enough so the attendant could care for the birds without stooping and with the knowledge that his head is not going to come in contact with the roof. Hens like sun and this should be considered when building. One thing which

the work easier for her. I clean the dropping boards at least once a week in winter and every day in summer if possible. After cleaning the boards I sprinkle land plaster over them, which serves a two-fold purpose. It takes up the odors and makes the droppings more valuable as a fertilizer. I keep plenty of nest material in the nests and clean as often as necessary. The floor is well littered and when I say well littered I mean all that the word implies. Litter is changed as often as it becomes soiled, which is necessary if the flock is to be cared for in the best possible manner. The snow in front of all pens is cleared away so that the birds have a chance to exercise in the open air on all pleasant days. More or less litter will find its way to the front of the house so that in

dry weather grain may be scattered in this, which encourages exercise.

We hear great claims made for the free range bird, but if these birds are placed in closed houses with poor ventilation and do not have a chance to get out of doors every pleasant day, I would not look for high fertility in the eggs or strength of germs. I should prefer to have things equalized by a little less range in summer and a little more liberty in winter. In closing I will say I make no claims for my way of handling breeders, but I get high fertility and the chicks come out strong and vigorous. To sum it all up, breeders want good, sound, clean grain, green food, clean water, fresh air in abundance, and this also means sun, housed in warm, well ventilated houses. Grit and oyster shell should not have to be mentioned, but many overlook these. No fuss, no frills, but sensible, intelligent care.

tion door. As you see in the picture there is one door closed, one is open, and the other two you will notice are closed by a kind of a screen door, which I can take out when I like to. By putting this screen door in one way it will keep the hen with her brood in. By taking the same door and putting it in upside down, the little chicks can go out at pleasure, but still the hen has to stay in. After I take the hens away and the chicks are big enough to roost, I take out the partitions and put 2x4 perches in (lengthways) and make a weaning coop out of it, thus giving the chicks plenty of fresh air in the hot summer night.

Above each door you will notice an opening, protected by a board swinging on two hinges, so that I can close this at will on cool nights. These openings at the top are covered with one-inch mesh wire from the inside, so that no rat or mink can get at the chicks when they

expressage, carefully setting them and giving the very best of care and attention for three weeks, I have had poor, indeed horrid hatches. Upon examination the unhatched eggs were not fertile. Close confinement was the explanation. Alongside of these would be nest after nest of my own free farmed range eggs and seldom an egg not hatched.

Experience is said by all to be the best teacher and it has been mine. As a burn child dreads the fire, so I do eggs from pens kept in crowded space. It would be better for poultry raisers to follow nature as closely as possible and give poultry plenty of room and ground. If cramped for room have but one variety. I had two varieties, but even on our four hundred acre farm I found it more satisfactory to keep but one kind. I have now but one variety and all spare time taken up in attending them. Give free range and there will be less complaint of poor hatches.

For example, of mornings when hen house doors are opened, out they come, their fresh red combs and brilliant plumage showing perfect health, singing as they scatter in all directions, first stopping to pick up a bit of gravel, then a few weed seed, then a bug and so on. All day long they forage, getting the variety of food impossible for man to copy, not speaking of the healthful exercise and pure air that are as valuable to the fowl as to man. So at all times during the day the hens are coming and going—egg machines—converting the waste into dollars. As evening comes and they all have again gathered home, the evening feed is greatly enjoyed. Those healthy parent fowls are in every way prepared to lay fertile eggs that will bring forth lively, healthy chicks.

Barred Plymouth Rocks are the healthiest and quickest growing chickens existing. Whether judged from a commercial or market standpoint, they are the most profitable bird to raise. They are spoken of as the "farmer's friend," but are a friend to all who raise them. In disposition they are gentle, easily adapting themselves to circumstances and thriving under trying circumstances. They are bred to lay, have fine shaped yellow bodies for market, and there is no breed that has ever won the admiration of the fancier, farmer and market as they have. In no way will a bit of money give greater or quicker returns than invested in some pure bred eggs.

The fancier must ship his best shaped and freshest eggs, and pack securely, putting in a few extra ones for luck. Study the customer's interest and you will keep his trade year after year.

The strongest team of practical poultry papers is Farm Poultry, the great semi-monthly of the east, price \$1, and the Poultry Keeper, price 50 cents. Both papers may be had in a club for \$1. Address orders to Poultry Keeper Pub. Co., Quincy, Ill. Offer good on renewals as well as new subscriptions.

Will you please tell your friends who are interested in poultry about Poultry Keeper, or better still, send us their names and addresses and let us send sample copies. Poultry Keeper claims to be the most practical and helpful paper published for those who are interested in making poultry pay.



Mr. Fritsch's Combination Poultry Coop.

POULTRY FIXINGS FOR A CITY LOT.

Editor Poultry Keeper.

As a reader of your valuable poultry paper I note your request in a recent issue asking for suggestions and plans. I will tell of my poultry work, but first I will introduce myself. My name appears below. I am a tool maker by trade and have been in this country only eight years. I am a breeder of White Wyandottes on a city lot. I do not breed for profit, but for pleasure, but still I want to make as good a showing as possible.

Now to my work: My idea is to describe a small coop which I would call a combination coop. I send herewith a photograph of this coop, which I hope will help you to understand me. This coop I build so to be taken apart in five minutes' time and it can be stored away if not in use. The size is twelve feet long, four feet deep, three feet high in front, and two feet three inches in rear. It can be partitioned into four apartments, or used as one.

After I built this coop I used it first for ten sitting hens by putting ten soap boxes in one row, leaving plenty of room for dust boxes, grit and water. By setting all the hens one day, I could, after hatching, give the young chicks to four hens (dividing the coop in four apartments), giving each hen as many as twenty chicks.

Now I will tell you about my combina-

are at rest. I had very good luck with my chicks in this coop last season and can recommend it to your readers.

The man in the photograph is myself and at my side you will notice my St. Bernard (Juno), second prize winner at Madison Square Garden, New York. She protects my chickens when I am away from home. This is the first time I have written for publication and if it is acceptable I will tell you about my own trap nest and other fixtures I have made. Poultry Keeper has helped me much. Yours for good White Wyandottes,

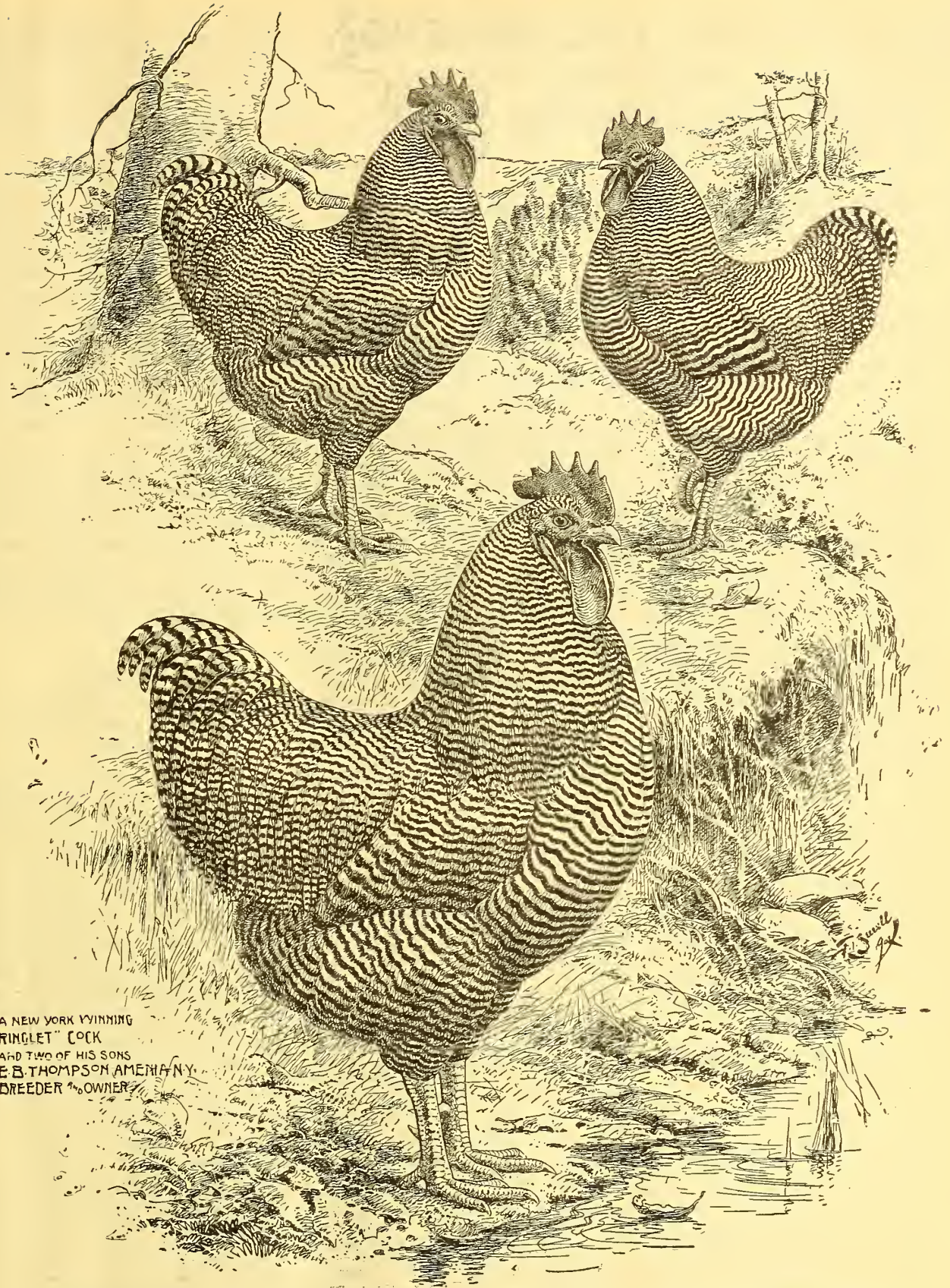
P. J. Fritsch.

Newark, N. J.

FREE RANGE AND FERTILE EGGS.

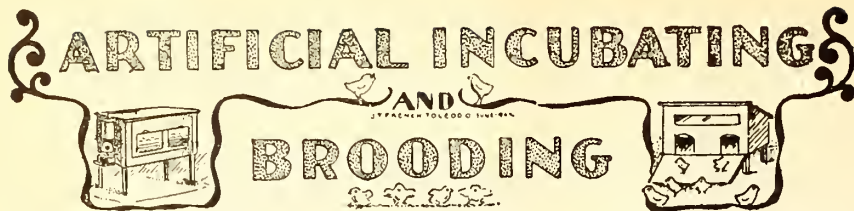
Mrs. Jesse McMahan, Blackwater, Mo.

In these wide awake, progressive times we must read, study and improve. A subject that is of special interest to poultry breeders at this season is the getting of fertile eggs for hatching. It is almost impossible to obtain fertile eggs from closely confined poultry, no matter what egg composition is fed or what variety of food is given. Eggs for eating or cooking purposes may be obtained, but poor hatches will invariably follow eggs set from closely yarded poultry. I have paid big prices for eggs where fowls were given every care and attention money could provide, and after paying



A NEW YORK WINNING
"RINGLET" COCK
AND TWO OF HIS SONS
E. B. THOMPSON AMENIA, N. Y.
BREEDER & OWNER

A Ringlet first prize Barred Plymouth Rock Cock at New York and two of his sons, bred and owned by E. B. Thompson, Amenia, N. Y. This cut shows how the "Ringlets" reproduce the superior qualities of the family. In all that constitutes good Barred Plymouth Rocks the "Ringlet" strain is not found wanting. It would require a page to enumerate Mr. Thompson's winnings at the New York shows. This year his birds again won (the fourth time in succession) the \$100 Sweepstakes Cup for best cock, cockerel, hen and pullet. For three years in succession they won first on exhibition pen. These birds have the distinct, narrow, parallel barring, with the ind-scribable blue tinge that makes the perfect Barred Plymouth Rock plumage.



[In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another.—Editor.]

Advantages of Brooders.

Some of the advantages of brooders over hens may be mentioned as follows: Snug and secure quarters are ever ready for the young chicks when taken from the incubator.

Two hundred chicks can be handled and cared for in one-tenth the time were they with hens.

The chicks can feed more regularly and much more evenly, and are less liable to disease and accident, and raids from vermin and reptiles are impossible.

The chicks can be kept dry and comfortable at all times, and this too, with one-fourth the attention necessary were they running with hens.

It is almost impossible for lice and mites to attack the chicks, for there is no cause for parasites of this nature to get a start.

Chicks reared in this way become very docile, and are consequently much easier handled when they mature.

The reason eggs do not hatch out on the twenty-first day is due to several causes. Fresh eggs hatch better than stale eggs. When the heat has not been kept up the time will be extended. If kept a little too high the chicks die in the shell. If kept very low they die in the shell. Eggs will not start at less than 102 degrees, but the heat may vary afterwards. To keep them above 101 and not over 104 is the safest, but as near 103 as possible, except when hatching, when it should be not lower than 102 on the fertile eggs. The modern improved incubator, kept at 103 on the average, the eggs properly turned, and if laid by strong, vigorous parent stock, will hatch and cannot fail. If failure occurs you may depend upon it the fault is due to one of these causes.

CHICKS DEAD IN THE SHELL AND BOWEL TROUBLE.

By M. M. Johnson, Clay Center, Neb.

Chicks dying is the only thing that prevents 100 per cent hatches. I can remember back to forty years ago when hens made about the same average as they do now. I can remember a certain gate post that I had for a mark when disposing of the eggs that the hens failed to hatch. Breaking the eggs to see what was in them was never thought of then or it is not yet, but when it comes to running incubators it is a different thing. I have seen people hatch 80 and 90 per cent of the fertile eggs and worry over 10 or 20 per cent dying in the shell, yet the same people would perhaps innocently admit that the incubator did better

average work on all the eggs than the hens had.

There is just this about it, when 80 per cent of the fertile eggs hatch and 20 per cent do not hatch, it is evidence in itself that something is wrong with the 20 per cent or they would have hatched also. Why not mix in a little cool reasoning in comparing incubators with hens and do away with the unjust prejudices? Good incubators equal good hens, but neither can hatch unhatchable eggs. If all fertile eggs were hatchable, then we would simply waste time in selecting strong, vigorous cockerels and hens. There would be no use nor sense in selecting fresh eggs, neither would freezing or overheating them before they were put in the machine effect them.

These are stubborn and serious facts and not a reader of Poultry Keeper will dispute them, yet many will continue to throw eggs that the hens can't hatch at the gate post and make a post mortem examination of the eggs that are left in the incubator, and, still more, they may unconsciously select eggs for the hens, and fill the incubator with most any kind to make up the number.

Bowel Trouble in Chicks.

Bowel trouble with little chicks means most anything. There are perhaps a dozen causes and as many preventives, while the real cures are very scarce things. Bowel trouble goes with nearly every little chick ailment, in fact, it is about all the indication that we have of a sick chick. There are other indications with it, such as pegging around "as if on stilts," and drooping wings, and persistent sleeping, but it is very seldom that chicks ail without bowel trouble; in fact, there is not much to a bran new chick except the digestive organs.

The cause for bowel trouble in some instances traces back to the weak condition of the flock that laid the eggs, or the care of the eggs before they started to incubate, or the lack of ventilation, or the hen sitting too closely, or not close enough. It might be traced back to the most common cause for bowel trouble—over-heating, or over-chilling; either cause is followed by fevers, and chills and bowel trouble. I am convinced that over-heating brings it on more often than any other cause. When a chick is over-heated and goes through a sweating process it gets sick, has chills, and wants to be mothered just like any other sick baby, and nine times out of ten we apply more heat, or in other words, we apply more poison.

I want to say that little chicks have sleepy nerves on their backs and that if they can get their backs against something and if the heat generated by their bodies is largely confined to their bodies,

they will grow fat in weather that is quite cool without much additional applied heat. The plan of applying heat enough to make the chicks contented without a hover is contrary to the natural make-up of the little chicks. Those who read this article will make no mistake in thinking these things over.

Sunshine a Good Medicine.

Then I want to speak of sunshine, "the medicine for all life whether animal or vegetable." I have seen small chicks, and so have you if you are an observing poultry raiser, leave the hen or brooder and bask in the sunshine even when it is quite cool. Sunshine in the chick business is like sunshine in the farming business. Poultry raisers can't make the sunshine, but they can have the coops so arranged that the sunshine does them good. A great many recognize the good in sunshine and apply the principle to the brooders. This is a bad plan; the glass that would allow the sunshine to enter would admit the cold when the sun was not shining.

Now about feed. It is not in line with nature to feed a great deal of soft wet food. Too much of it would effect the digestive organs. The crow is a grinding mill, and the natural foods are small seeds, cut grains, a little grit, and a touch of something that would be a substitute for bugs and worms. Bowel trouble (as stated) is nearly the whole thing, and 99 per cent of it is due to other things than the food.

TESTING EGGS.

How to Determine the Growth of the Germ During Incubation—The "Bad" Eggs.

Place the egg, large end up, close to the oval-shaped opening of the egg tester and endeavor to look through the egg at the flame. Be careful that no light comes around the egg, but only through it.

When testing eggs it should be remembered that a barren egg when viewed under a light of sufficient strength has a pretty uniform color throughout with the exception of a slight darkening where the yellow is situated. The air bulb, which is found at the butt of the egg (normally), will—should it prove infertile—be found to have enlarged considerably after having remained in the incubator for two or three days. Should it be kept in the machine beyond the fourth day, the yolk will begin to lose its consistency, and after the seventh day the white becomes decidedly watery. Removing this egg and placing one that is fertile in the tester, we are—provided it has been exposed to the heat of the incubator three or four days—enabled to judge accurately as to its fertility. A fertile egg, if kept at the proper degree of heat (about 103 degrees) for this length of time, will show unmistakable signs of embryonic development. The germ, which could not be seen previously, now shows itself in a small dark spot, the edges of which gradually merge into the surrounding color; the blood vessels, as the germ increases in size, can soon be seen passing out in every direction; if the egg be a white one, the color of the blood may also be detected.

On the tenth day, if this egg again be put in the tester, the embryo can be seen

to move; not suddenly, but with a waving, pulsating movement.

Examining the egg on the fifteenth day, the chick will be seen to fill the entire shell, except a small space at the apex and the air cell at the opposite end. By holding the egg very steady and watching the light spaces at each end, the movement of the young fowl can be discerned with very little difficulty.

On the eighteenth day the egg will be found opaque throughout, harring the egg cell at the base. After this time no further change can be observed without breaking the shell until the birth of the fowl. These changes, then, should be looked for on the third, tenth, fifteenth and eighteenth days. There are others occurring during the embryonic period, but as they are of no practical importance to the breeder we shall not describe them.

In some instances, from overheat or other causes, especially in the machines without regulators, the germ in healthy eggs will die about the fifth day. Should this occur they may be distinguished by a slight darkening of the shell, but more particularly by the indistinct appearance of the blood vessels; they can usually be seen to be more or less broken also. In many cases by turning the egg the dead germ may be noticed adhering to the shell.

Should the embryo die a few days later, and the egg be tested on the tenth day, it will appear a little more opaque than the others and no movement will be detected.

If on the eighteenth day the air cell be found on the side instead of at the large end of the egg, the chicks may very safely be pronounced dead. Or if the air cell is so enlarged as to fill nearly one-third of the shell, the chick is either dead or dwarfed.

Rotten eggs can be generally distinguished without the aid of an egg tester, but if so inspected will present a mottled, cloudy, opaque appearance that is never seen in an egg that is fresh.

To become accurate in egg testing—as in anything else—requires practice and care and also a good egg tester.

The variations in appearance as described can scarcely be seen as early as the periods mentioned here with any egg tester, except those using the electric light or the hull's eye lantern.

There are exceptions to these rules, but they are rare, usually occurring in pullet eggs, double yellowed eggs, eggs with very thick or with white speckled shells, etc.

More or less trouble will be experienced in testing guinea eggs, owing to thickness and darkness of shell. Turkey eggs are also more difficult to test satisfactorily than those of the chicken.

The following test will almost always enable the poulterer during the last stages to pick out those eggs in which the chicken is dead. Drop the eggs in lukewarm water for a few seconds; those which sink are dead; those which float on the side are rotten and those containing live fowls will show unmistakable signs of life by their movement.

Another very reliable test is to lay the eggs on a piece of glass; the live ones will usually show a trembling, vibrating motion or perhaps roll along the glass. If doubt be felt as to any eggs which do

not move on the glass, drop a few drops of cold water on the shell, and if the inmate be alive it will certainly move. Rotten eggs, when in the incubator until the latter part of the hatching period are commonly noticed to have small drops of yellowish fluid exuding from the shell. They should be handled with extreme care, or unpleasant results may follow.

BUFF PLYMOUTH ROCKS.

A Popular Name and a Fine Bird— Splendid Egg Producers.

By Mrs. F. E. Gilliland, of Golden Nugget Poultry Farm, Hope, Ind.

That this variety was fortunate in securing a popular name is evident to all. The word Plymouth Rock is magical in itself, but when prefixed by the word huff it is all the more so, for it brings to our minds a fowl with all the good quali-



A breeding pen of Buff Plymouth Rocks, owned by Mrs. F. E. Gilliland, Hope, Ind., a Buff Rock specialist.

ties of the Plymouth Rock variety with the beautiful huff color. It really makes no difference whether Plymouth Rock blood was used in their makeup or not, so long as they have the general characteristics of that variety they are certainly entitled to the name.

That they have all the good qualities of any or all of the Plymouth Rock family is evident to those who are familiar with them. In fact, in many ways I consider them superior and in no way are they inferior. The huff color has always been and always will be one of the most popular in the show room on account of its brilliancy and beauty. One can easily see why in the Buff Rock we have so popular a variety. If any other reason were needed we could state that they are distinctly an American production.

As a general purpose fowl none can excel the Buff Rocks. They possess all the requirements of a good market fowl, having clean yellow legs and skin, a plump carcass, with no ill-looking black pin-feathers, and their meat is rich, tender and juicy. From the egg to the adult fowl they are healthy, vigorous and always ready for market; whether as broilers, spring fries, or roasters. They are extremely hardy, good foragers, and in size are as large, if not larger, than any other general purpose breed.

They possess a gentle disposition, and enjoy being petted and handled. They make good mothers and are always contented, whether roaming the fields or in confinement. They have proved themselves to be good layers, and many trials have been made where the Buff variety has given the Leghorn a close race for the most eggs in a year. I have raised Barred Rocks, but the Buff Rocks far excel them for eggs. They are good winter layers and their eggs being large, smooth and brown, find ready sales at top prices. I have been breeding Buff Rocks for eight years, and I think they are the farmer's friend.

DO YOU NEED STATIONERY?

Good stationery and circulars with cuts showing variety of fowls bred are needed by every poultryman. The buyer does not get a good impression of a letter from a breeder who uses "any old kind of paper" in his business correspondence.

Good printing is one of the secrets of success in the business. We have a large and complete line of Sewell cuts made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, without extra charge. We guarantee good work and prepay express charges. For price list see page 3.

We can make half-tones from photographs for special illustrating. Samples of work sent on application so you may get an idea of what you want. Address Poultry Keeper Pub. Co., Quincy, Ill.

A 200-EGG FLOCK.

A California lawyer, whose name is not given, reports in a contemporary that he has found the production of eggs for market so profitable that he has given up the practice of law in order to give his whole attention to his hens. He has bred a flock of 200-egg hens by adopting the trap-nest system of one of our advertisers and produces eggs at a cost of less than six cents per dozen. This winter he has obtained as high as 65 cents per dozen for his eggs. This we gather from his report. Such results as this are exceptional of course, but they emphatically show what can be done when business men apply business methods to the production of market eggs.

POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,
(INCORPORATED.)

QUINCY, ILLINOIS.

SUBSCRIPTION PRICE,
Fifty cents a year; Single Copies 5c.

FOREIGN POSTAGE,
Thirty-six cent a year additional.

Entered at the Quincy, Ill., Post Office as Second Class Matter.

Remittances should be made by Draft, Money Order, Express Order or Registered Letter. Small sums will be accepted in United States one or two cent postage stamps.

Change of address—When this is desired, be sure to give old and new post office addresses.

All subscriptions invariably discontinued at expiration. Subscribers will confer a favor by reporting to us any irregularities in receiving the Poultry Keeper.

Advertising Rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, EDITOR. { Associate Editor, { DR. N. W. SANBORN.

X When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR
AND VOLUME.

APRIL 15, 1903.

NUMBER 1.

THE NEW POULTRY KEEPING.

It is wonderful, the place poultry keeping is making for itself in the business world. We are no longer surprised when we hear that some one has put a thousand dollars, or ten thousand dollars, into a start in a hen farm. New York and the New England states have had for years just such plants, but it is not rare now to hear of such places in the middle and western states.

It is getting to be more than a "fad" for a wealthy man or woman to enter into poultry keeping. To some of them it may be a means of health getting, but to more it is a money making affair from the start. The professional man is taking up the keeping of a hundred or more hens for a relaxation from the cares of his daily work. He also expects to see a profitable return in cash from the efforts of a year's outgo in keeping hens.

This branching out of wealthy and professional men into the poultry world calls for men who can take the practical care of these new plants. These men have been hard to find. It takes more than a knowledge of what to feed, and how to set a hen, to handle such a plant for good results. The winter courses in poultry culture at some of our state colleges have fitted some to take up this new line of work. The mail courses in poultry are starting others in the way of reaching up to a greater knowledge of successful poultry keeping.

The poultry papers are giving better and more reliable information in practical lines than they did a few years ago. The Poultry Keeper has in mind these advances in the needs of the live henman of 1903 and is planning to supplement his efforts in more ways than one. That we have given a broad outlook in poultry matters is not to be doubted when we look over a file of our numbers of the past fifteen months. We have more good things in store for our subscribers, and should be glad to have

their friends gain knowledge by being brought into our circle of readers.

N. W. S.

Owing to a mistake in Poultry Keeper office the excellent article which appeared in our March 15 issue entitled "The Honest Tricks of Market Poultry Trade" was credited to J. C. Clipp. This article was written by Mr. J. D. Tribbey, of Brookfield, Ohio, and the illustrations which accompanied the "story" show views of Mr. Tribbey's fifty-five acre plant. This was one of the best and most helpful articles that we have ever printed, and those who did not take time to read it have missed something. Mr. Tribbey tells how to market one's flock in the most profitable way. The poultry breeder should dispose of his products after he gets them in such a way as to be of advantage to himself, and this part is more difficult for many than is the producing of the products. This is the advice Mr. Tribbey gives. Hunt up your March number if you missed the article and read it now.

PLAGIARY.

According to all moral and business ethics the rights of authors, editors, contributors and publishers of uncopyrighted matter should be respected to the extent that when such matter is reprinted credit should be given to the source from which it was taken.

We do not doubt that there are many cases where articles are appropriated without credit because the journal committing the offense does not like to mention the name of another journal in connection with matter which it regards as being valuable enough to reprint for the benefit of its own readers.

It is a disgrace to our poultry journalism that such narrow and childish views regarding competition should obtain. A journal which has merit enough to justify its existence need have no fear that subscribers will be lost if they learn that

other journals sometimes publish matter worth reading.

When a publisher or a writer deliberately reproduces an article taken from another publication and passes it off as his own property he is trying to obtain prestige under false pretences. When this is done knowingly it constitutes plagiarism and is an insult to the author of the appropriated matter, as it often causes the real author to appear as the offender; it not always being clear to every reader of both original and copy just which one was written first.

In the October issue of Poultry Keeper appeared an article on Individual Merit written especially for us by Mr. A. P. Winslow.

This article was reproduced, with a few clumsy changes, in the first number of a new journal called the Western Poultry World. The article was signed L. M. Atkinson, Denver, Colo. Our esteemed contemporary, The Eastern Poultryman, noticed this case and commented thereon in a recent issue as follows:

"The Western Poultry World is the title of a new venture in poultry journalism, hailing from Denver, Colo. Eastern Poultryman welcomes all the new journals and wishes them success. The World has our best wishes, but we hope that the article on 'Individual Merit,' on page 3 of their Dec. 15 issue, is not a sample of what they purpose to serve up to us the coming year. That article appears to be a very clumsy steal from a very good article lately contributed by our friend A. P. Winslow to one of the leading poultry magazines. The bombastic wind-up where the writer, one Atkinson, assures us that individual merit 'is the golden cup that will open the door to the field of success' is one of the few statements in the article that friend Winslow cannot claim. The article reminds us of the work of a school boy who has been so in the habit of copying his school compositions from the encyclopedia that he knows of no other mode of composition. We never suspected before that the fields of Colorado had doors or that they used cups for keys."

We hope that the readers of the Poultry Herald, a journal that is old enough to know a good thing when it sees it, will profit by the good advice regarding "Lice on Sitting Hens" which they give in their March issue. We note that the greater part of this article is taken verbatim from our editorial columns in February issue of P. K. We also note that our valuable contemporary added enough to it to show that their failure to give us credit was not due to an oversight.

In our February (1902) issue there appeared the plan and a description of poultry house built on the continuous plan, with scratching sheds between the houses. In a recent issue of the Poultry Farmer an exact reproduction of this house was made, but for some unaccountable reason the editor of Poultry Farmer forgot to tell his readers where he found the plans.

P. K. desires to be useful and we certainly appreciate the compliment when editors who are in search of good material for their readers look to our columns, where they are sure to find it, but we must insist that we be given proper credit; otherwise we shall certainly kick.

A JOB FOR MIND READERS.

"Advertising," a journal which gives inside information to advertisers and prospective advertisers gives some very interesting information in its February number. It says that 87,000 pieces of undirected and misdirected mail have been turned into the department at Washington in a single year, and that 15,000 persons were so thoughtless as to enclose in their envelope sums from a dime to several bills of the \$20 denomination, and then forget to address the envelope.

To the above P. K. can add that advertisers very often receive inquiries and sometimes orders from people who forget to sign their names or give their addresses. Not a week passes that we do not receive a subscription or an order for books from some one who forgets to sign his or her name. We have a collection of these orders that are pigeon-holed because we are not mind readers, while the senders no doubt are telling their friends that we are not reliable. Please sign your name and full postoffice address.

PREPOTENCY—POWER.

Fremont, Mich.

Editor Poultry Keeper,

May I encroach upon your valuable space for a short article on general topics and more especially upon "prepotency." I read an article in a poultry paper recently that brought my mind onto some thoughts as to the sex of the offspring from certain matings either in fowl, animal or human. Where there have been written volumes upon this subject, yet volumes more could be written of facts instead of gush and guesswork. If we take our natural reasoning faculties and put them to some use in breeding we may gain knowledge instead of adopting methods as contrary to nature as they are ruinous to our stock.

I believe that the average mortal will

agree with me that a poor weak animal or fowl cannot bring forth good, strong, vigorous stock. Where the constitution has been weakened from lack of feed, abuse, exposure, heredity or other causes, the offspring in ninety-nine cases out of one hundred will show the effect which follows cause as surely as night follows day.

If you do not have fertile eggs and you hatch cripples and weaklings its only the natural effect of unnatural causes. Overfed, underfed, improper diet, filth, neglect or one of a hundred unnatural conditions that you have adopted (or neglected) in your methods may be traced as the cause. If a large variety of feed is placed before your fowls they will select what is for their best good, but if you neglect to use your brains, then what? Simply suffering and a weakened constitution must follow.

Now if we practice good judgment in placing good foods, water, grit, charcoal, etc., with good sanitary conditions with our fowls, what would we expect? Certainly good, strong, vigorous stock. And may I just say right here that the sex of the embryo is determined by the vigor and constitution of the parent. God's laws are immutable, and nothing is done in a haphazard way. Organic laws are the same everywhere, and vigor predominating in male or female produces its results most certainly.

D. L. Weaver.

A chick should receive no food for thirty-six hours after it comes from the shell. As it has recently absorbed the yolk, it needs rest and is unprepared to digest food. This is very important. Coming, as they do, from a temperature of 103 degrees, they cannot endure the sudden exposure of a lower temperature which feeding would involve. Rest and warmth are what the new chick requires, not food.

WINSLOW'S Barred Rocks

A son of Vulcan, 1st cock at Boston, 1902, heads one of my pens.

I will replace free all infertile eggs if returned. Every bird in my yards selected with great care for size, shape, vigor and color.

EGGS

from these birds \$2 per sitting and they will produce Winners and Layers.

A. P. WINSLOW, Box 1334, Freeport, Me.

WRIGHT'S WHITE WYANDOTTES

Are the Stay White kind and have Yellow Legs. EGGS from the best matings I ever owned, \$3 per 15; \$5 per 30; \$15 per 100. Send for circular giving list of winnings. 11-12

A. E. WRIGHT, Box P, Saxonville, Massachusetts.



Harvey's Poultry Supplies.

The line includes Bone Cutters, Clover Cutters, Incubators, Crushed Oyster Shells, Ground Meat Meal, Beef Scraps, Drinking Fountains, Feeding Pans, Poultry Netting, Condition Powders, and many other useful things. We make a specialty of high class goods at low prices. Our

CUT CLOVER HAY

made from air dried, second growth clover, and prepared by our own special process is a great egg producer. Write and let us quote you on some of the special good things. The book you know is free. Write for it. HARVEY SEED CO., 20 Ellicott St., Buffalo, N. Y.



Trade Mark Registered July 17, 1893

Lambert's Death To Lice Powder

is one of the very few things that will kill lice and not injure the hen, eggs or little chickens. It has been on the market for twenty years and has steadily grown in favor and popularity. It must do good work or poultry keepers would not buy it year after year. It is also invaluable for lice on Horses, Cattle, Sheep, Hogs or Plants of all kinds. We have hundreds of testimonials as to its efficacy.

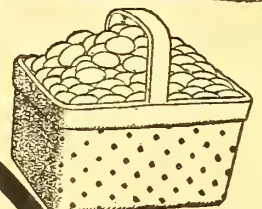
Prices, 10c and 40c
By Mail Postpaid.

Larger sizes 50c and \$1.00 by express from here or nearest agency. For head lice on chickens and scaly shanks on fowls, use Death to Lice Ointment, 10c and 25c per box by mail. A 64 page book, "How Best to Do Things," free.

D. J. LAMBERT,
Box P, Apponaug, R. I.



It Makes Hens Sit Better



Its Use Causes Breeders to Produce Fertile Eggs



It Never Injures Little Chicks

ROUP—TREATMENT AND PREVENTIVES.

[From Report of Ontario Agricultural College—Continued from February.]

Roup may be cured by remedies, if the treatment is careful and judicious. Obstinately re-appearing false membranes can be successfully treated by burning the diseased tissue with a strong acid (hydrochloric acid 50 per cent to 75 per cent), or other caustics, such as silver nitrate. If the eyes and nose are attacked, they have to be carefully washed, at least twice a day, with an antiseptic solution, such as two per cent boracic acid in a decoction of chamomile flowers, or one-half per cent solution of corrosive sublimate. Thus the micro-organisms are killed, or at least, the diseased products which are discharged are removed and the irritation caused by them, also the transformation into large cheesy masses is prevented.

We had chickens badly affected with roup of the eyes, which were cured with boracic acid and chamomile. On account of the smallness of the nostrils and nasal canals it is very difficult to get the antiseptic solutions into the nose and nasal cavities, but it can be done with a small syringe. If this treatment is too troublesome, then the nostrils at least, should be washed and opened several times a day, to allow the secretions to pass away. We have treated chickens for fourteen days by daily washing with a two and a half per cent solution of creolin and glycerine. After the washings, small plugs of cotton or wool, filled with the mixture, were placed in the nostrils and lachrymal ducts.

Another method of treatment which gives excellent results, especially in the earlier stages of roup, is the use of a one to two per cent of permanganate of potash. Fowls are treated in the following manner: The nostrils are pressed together between the thumb and forefinger in the direction of the beak two or three times. Pressure should also be applied between nostrils and eyes in an upward direction. This massage helps to loosen the discharge in the nostrils and eyes. The bird's head is then plunged into the solution of permanganate of potash for twenty or thirty seconds, in fact the head may be kept under the solution as long as the bird can tolerate it. The solution is thus distributed through the nostrils and other canals and has an astringent and slight disinfecting action. This treatment should be given twice a day and continued until all symptoms have disappeared.

If there are solid tumors in the eye-lids, they should be opened so that the skin may bleed freely. The cheesy matter

should be removed, and the surrounding membrane touched with a five per cent carbolic acid or silver nitrate solution, and then a cotton plug filled with some antiseptic solution, put into the cavity. The cavity has to be washed out daily with an antiseptic mixture, and a fresh cotton plug put in again to prevent the cavity from healing too quickly. We have cured chickens in this way in about a fortnight.

All these methods of treatment demand a great deal of time and care, they cannot well be used for whole flocks, but the more valuable fowls may be treated in this manner. Farmers and poultrymen should first try the permanganate of potash method of treatment as it is the easiest to employ.

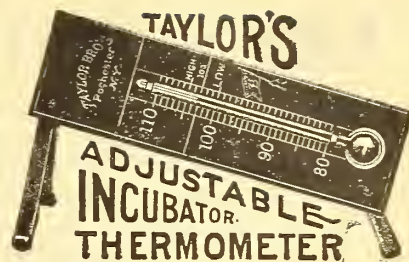
Food remedies influence roup only by strengthening the fowls and assisting nature to throw off or conquer the disease.

As in other infectious diseases, the most important thing is to prevent an outbreak, or to suppress it as soon as possible. All diseased fowls should be separated from the healthy ones; and the healthy ones should be examined daily, with a view to isolate newly affected birds. After isolation of the diseased birds, the poultry yard should be disinfected thoroughly with a five per cent solution of carbolic acid, followed by a careful white-washing of the walls, etc. Slightly diseased fowls, or any of special value can be cured, if much care be taken. Less valuable birds, which it will not pay to treat should be killed as soon as manifest symptoms of the disease appear, especially when the face becomes swollen. These fowls, unless the best care is taken, will remain diseased for months, or perhaps years, and give rise to fresh outbreaks whenever an unfavorable season (with much wet, cold weather) occurs.

The most effective preventive for roup is to keep fowls in good sanitary conditions—in dry, roomy yards and dry, clean, airy houses which are free from draughts and can easily be cleaned and disinfected.

In setting the hen this spring give her a roomy box. Do not crowd her so she cannot move when she desires. Have the contents of the box free from lice when prepared, and dust well with some good insect powder. Do this once a week during incubation and be sure the lice are all gone before the chicks appear. Lice kill more little chicks than all the other dangers of chickenhood.

Keep your poultry houses well white-washed, inside especially. In cleaning the houses and yards do not forget the nest boxes, as they probably harbor more lice than any other part of the plant.



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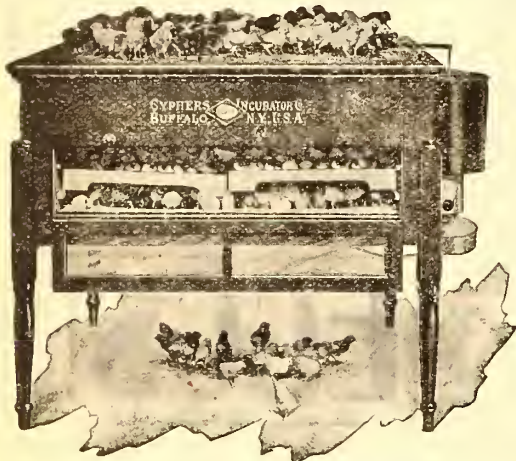
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"ONE AMONG A THOUSAND"

Is a familiar expression and no doubt has fitted the case in many instances, but "IT DOES NOT DO JUSTICE TO THE SUBJECT" when it comes to printing in these columns merely one of the *several thousand splendid testimonials* received by us during the past twelvemonth, *reporting the uniformly good work* being done by the Patent-diaphragm, Non-moisture, Self-ventilating and Self-regulating

CYPHERS INCUBATORS

in the hands of our valued customers. Still, we present this month *just one sample report* from the many hundreds we have received, because it goes *straight to the point*, and is, in some respects, a little out of the ordinary. In reading it, bear in mind that *what one man does with ease OTHERS CAN DO*; also that each and *every incubator we place on sale* is built by the same skilled and experienced workmen, after the same patterns, out of the same quality of material and embodies the same principles—*newly discovered principles*, covered by patent and *found exclusively in the Cyphers machines*. **IN OTHER WORDS, ALL CYPHERS INCUBATORS ARE EXACT DUPLICATES**, except as to size, and each is constructed under the personal supervision of Mr. Chas. A. Cyphers, the inventor.



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Having no shed to store the brooder in, it has stood out in the weather ever since I bought it. This winter I have given it the most severe test I ever heard of. I took off a hatch of sixty-five chicks February 4th and placed them in the brooder. February 14th it began snowing at night and in the morning the brooder was covered with three inches of snow. During the 15th and 16th a blizzard raged and the temperature dropped ten degrees below zero, and we easily kept a temperature of ninety degrees under the hover. We have only lost two of the chicks, and the other sixty-three are as hearty and thrifty a lot of chicks as I ever saw. We have not, as yet, let them out of the brooder.

W. G. DAVIS,

Breeder of White Plymouth Rocks and Silver Laced Wyandottes.

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REVERE, MASS., Feb. 23, 1903.

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I thought you would feel pleased to hear from a stranger to you, and one who has for the first time been running one of your incubators. A friend of mine purchased one of your 300-egg machines in Boston, and, on account of a death in the family sold it to me for \$25.00. On the 30th day of January I filled it with 300 W. P. Kock eggs, and on the 20th of February I took out of the machine 290 well hatched chickens. After my first test on the 14th day, I had left in the machine 200 eggs, and, as I said, I now have 200 of the strongest chickens I have ever hatched. Have been in the business for the past twenty years, using five hot water machines of different makes, and I never got, at the best, over fifty per cent. from any one of them, and what I did hatch were not as well hatched as the ones that came from the Cyphers.

For the first two weeks, if it had not been for turning the eggs and care of lamp, I could have locked the door and gone away on a vacation and found everything all right when I returned. When I think of the trouble and worry I have had with the other makes and the little work I have had with the Cyphers, it is a pleasure for me to write you this letter and say to you, your machine is what you say of it, and you cannot say too much.

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And last, but not least, no dead chicks in the shell.

I wish everyone who is in the business, and all who think of starting, could have had the care of my machine on my first hatch and looked into it for the last thirty-six hours of incubation—it would have been better than reading all the testimonials ever published. I shall put in one or two more Cyphers Incubators in March.

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Breeder of Light Brahams for twenty years.



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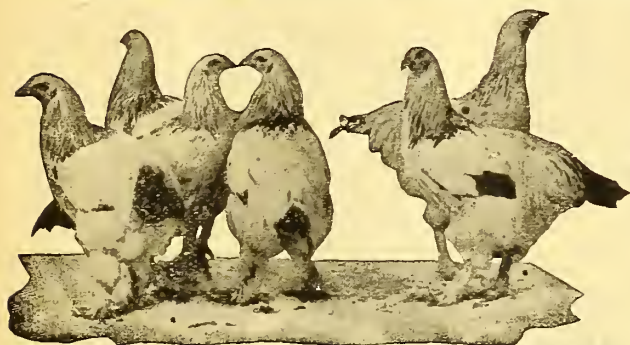
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GROUP OF CAPONS

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PROOF OF THE PUDDING.

JORDAN POULTRY PLANT, H. G. Jordan, Proprietor.

HINGHAM CENTER, MASS., Feb. 3, 1903.

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Yours truly,

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I believe your Chick Food is the cheapest food we ever fed—cheapest because there is no bowel trouble, no leg weakness or dumpy chicks when fed according to directions.

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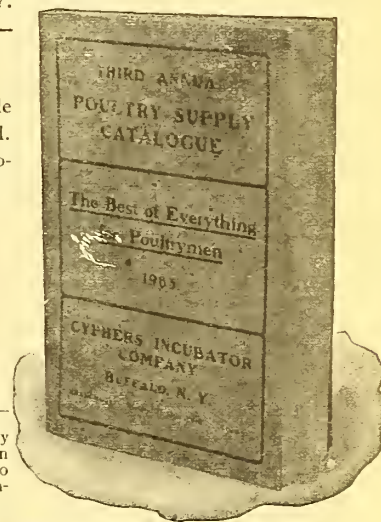
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Rev. Aaron A. Thayer, D. D.,
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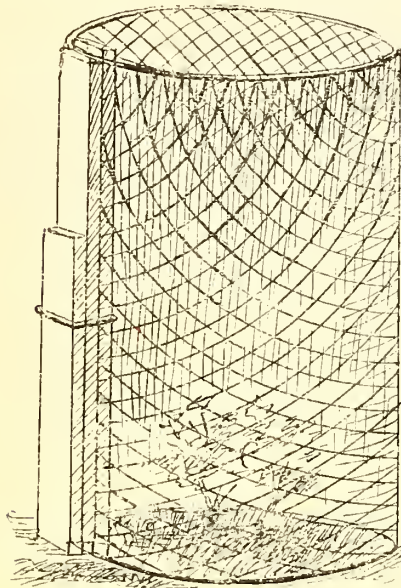
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Do You Like Poultry?

Why not read the best illustrated Journal of them all? If you are interested in fancy poultry then the articles on scoring in the Inland Poultry Journal will interest and educate you. There is no rehash, no warmed-over, nor borrowed articles. Every one is new, bright and original, and can be found in no other paper.

In the April number Mr. Theo. Hewes, the well-known writer and judge, will begin a series of illustrated articles, commencing with the Partridge Wyandottes, showing perfect and defective sections, together with a plain and correct description of how they should be, and how to mate to produce them. In this work Mr. I. W. Burgis, the Inland's special artist, will furnish the drawings. All future numbers of the Inland will contain articles of this kind, making of it an illustrated standard. You cannot afford to be without it and the subscription price is only 25c per year. Sample copies free. Address, Inland Poultry Journal, Indianapolis, Ind.

The Correct Hatcher Co., Leesville, O., have issued for the season a new catalogue that they are anxious to place in the hands of every reader of P. K. who wants to succeed with artificial hatching. Send your name and address on a postal, name P. K. and book will follow.

Out of 31 entries at the Wichita, Kan., poultry show the Omega Poultry Yards won 26 first premiums as follows: Bearded Golden, Silver and Buff-Laced Polish, Pekin and Indian Runner Duck, and the following Bantams; Black Breasted Red, Brown Red, Red Pyle, Golden and Silver Duckwing, Silver Sebright, Silkies, White Cochin, Rose Comb White. See ad on page 23.

There isn't anybody connected with the poultry industry who is more widely and more favorably known than D. J. Lambert, of Apponaug, R. I.,—"Death to Lice Lambert," they call him. Mr. Lambert besides filling orders by the thousand for his "Death to Lice," breeds Barred Plymouth Rocks and Buff and White Wyandottes, and judges at poultry shows during the winter. Another part of Mr. Lambert's work is publishing his book, "Pocket Book Pointers." The edition for 1903 consists of 64 pages and cover and is the eleventh year of publication. The book is for free distribution and every reader of Poultry Keeper is requested to send for a copy. Address, D. J. Lambert, Box P., Apponaug, R. I. Name P. K. when writing.

"Our stock is all first class and we guarantee every egg shipped to be true to name and from standard-bred fowls." This is the guarantee made by Walter Seidel, Eleroy, Ill., proprietor of the Northwestern Poultry and Fruit Farm. Mr. Seidel has breeding pens of almost 40 different varieties—practically all kinds of domestic poultry, ranging from the smallest Bantam to big Bronze Turkeys. This plant consists of 33 acres of land, de-

voted entirely to fine poultry and fruits. On account of the vast number of birds raised and the big business he does, Mr. Seidel can afford to sell eggs, he claims, "cheaper than you can buy anywhere else." He has a large 32-page illustrated catalogue, which he will send free to those who mention P. K. See ad on page 6.

Those who are interested in Black Minorcas are requested to sent to Geo. H. Northup, Raceville, N. Y., (the noted Black Minorca specialist) for a copy of his new catalogue. This is a book of 26 pages and colored cover (same size as Poultry Keeper) and is handsomely illustrated with half-tones and new electros of Mr. Northup's winners. Mention P. K. when writing and book will be sent free.

We Make Honest Fence

AT A REASONABLE PRICE.

That is what every farmer is seeking. When you buy



ADVANCE FENCE

you get a good fence at the price of a poor one. The hand fence machine can't compete in price and quality.

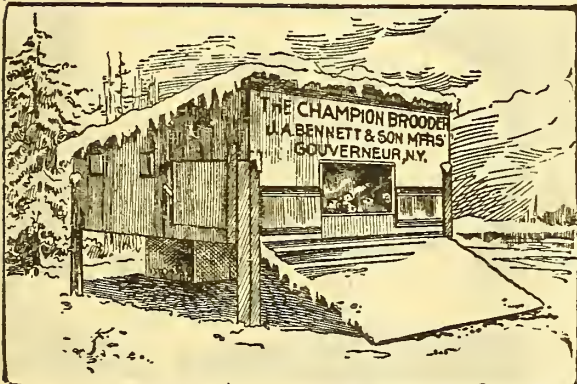
WE SELL DIRECT TO THE FARMER AT WHOLESALE.

That saves you the dealer's profit. It's all interwoven, no loose ends to unravel, ruining fence. Cross wires can't slip. Our prices are as low as can be made for a good fence. Your name and address on a postal card will bring circulars and special prices. Write at once.

ADVANCE FENCE CO., 140 R ST., PEORIA, ILL.

THE \$5 CHAMPION BROODER

"IT IS KNOWN BY ITS WORKS."



The Champion Still at the Front.

WE are the largest exclusive manufacturers of Brooders in the world. There are more of our brooders sold each season than those of any other five manufacturers. This immense sale must mean something. It means that We Make the Best Brooder in the World To-Day, irrespective of price. We have manufactured brooders exclusively for the past twelve years, and when you buy a "Champion Brooder" you get one in which the experience and study of twelve years is crystallized, thus making the Champion the embodiment of perfection. It was a leader twelve years ago. It is to-day. We make a brooder which is "Champion" in every sense of the word. Its work proves its title. It raises more and better chicks than any other. It raises them indoors or outdoors in the severest winter weather. It never fails to raise its flock without leg weakness, drooping wings, bowel disease or any of the other numerous ailments incident to chickenhood.

It is the only brooder on earth with a **Safety Compartment**, our "Safety Valve." Impossible to overheat the chicks. It is the only portable brooder that has passed successfully through the greatest blizzards of modern times without losing a chick, working outdoors at the time. It is the only brooder on earth with an **EASY CHICKEN FEEDER**, which automatically teaches the chicks to eat and drink. We can enumerate hundreds of other reasons why it is the "World's Greatest," but instead give a few of the many thousand testimonials we have on file.

Every Purchaser a Pleased Customer.

J. A. BENNETT & SON, Gouverneur, N. Y.:

Gentlemen—Enclosed please find check for three brooders, which please ship at once. Your brooders worked all right for me last season. I put 155 chicks in two of them and raised 153 to maturity. They beat the old hen all right. I shall want five later on. G. E. COMPTON.

REDDEN, Del., March 21, '03.

MR. J. A. BENNETT & SON:

Dear Sirs—Enclosed find Money Order for \$20 for four brooders. I want the No 1 top and bottom heat as that is the kind I have and they are good enough for me. I have also another make, one brooder only, that I got about the same time that I got my other Champions, which

LINEBORO, Md., Jan. 19, 1903.

We Admit Doing the Largest Business in our Line of Any Firm in the Country.

\$12. A complete brooding establishment.

J. A. BENNETT & SON, Gouverneur, N. Y., U. S. A.

I paid \$16 for and killed enough chicks in it to buy a few Champions. Hereafter I will not experiment with brooders. I will use only the Champion—which gives me satisfaction. Yours,

WM. H. ROHRBAUGH.

PINE PLAINS, N. Y., Feb. 6, 1903.

J. A. BENNETT & SON, Gouverneur, N. Y.:

Gentlemen—Please send me your 50-page catalogue as I think of sending for another Champion Brooder. My sister had a P—O'D—Brooder last year and most of the chickens died, so I got her to get a Champion Brooder. She hatched 135 chicks and raised 133 in the brooder. She wouldn't have lost those only they were weaklings. Very sincerely yours, JOHN H. MYERS.

If you are interested kindly write for our (free to all who mention Poultry Keeper) catalogue containing over a hundred and fifty half tone cuts. The finest ever issued by a brooder firm. Price, Champion Brooder complete and ready to run, \$5. Weight 100 lbs, Combination Brooder and Brooder House,

A Few Flattering Endorsements.

It is always a pleasure for us to hear a good word spoken for the goods of our advertisers. The Champion Brooder by "Its works" has fixed itself permanently in the minds of a large majority of the poultry raisers in the country. Messrs. Bennett & Son, of Gouverneur, N. Y., the manufacturers, in a letter to us write that the sales of the Champion will nearly double over the sales of last season. They are running their large factory to its fullest extent and are turning out over an average of 600 complete brooders each week. They mailed us the following testimonials which they just received:

Ansonia, Ct., March 26, 1903.

J. A. Bennett & Son.

Please send two Champion Brooders as soon as you can. Enclosed money order for same. I have been using the and think it is a good brooder to raise cats in, but not chickens. I lost over 500 chicks in this brooder in two years. I borrowed a Champion Brooder from a neighbor of mine and brought some of my chicks back to life. G. L. Booth.

Chatham, Ill., March 21, 1903.

J. A. Bennett & Son.

I purchased a Champion Brooder of you four years ago and have seldom lost a chick. The brooder that raises every chick is good enough for me. Enclosed find money order for \$10 for two more, ship at once. T. F. Hartman.

Nevada, Ohio, March 26, 1903.

J. A. Bennett & Son.

Your brooder is the best on the market and I have used nearly all of them. It is all right in every respect and it does not take all day to get it heated up, as it only takes about half an hour. "It is an old chicken raiser." Ray Trish.

Minneapolis, Minn., Feb. 27, 1903.

J. A. Bennett & Son.

At the suggestion of Prof. Drew, of the Minnesota State School of Agriculture, I am writing for one of your catalogues of brooders. He thinks your make is O. K., and as poultry is his department, he ought to know. Jas. A. Gould.

See big ad on page 27.

STEEL CUT OATMEAL AND PIN-HEAD OATMEAL.

Where and How to Get It.

It is a well known fact that Steel Cut Oatmeal and Pin-head Oatmeal are two of the very best feeds for poultry. One trouble, however, is that it seldom can be had in any of the small towns, and even in the larger cities it cannot always be found. Steinmesch & Co., the well-known manufacturers of the Extra Quality Quick Meal Chick Feed by a process of their own, and with the latest improved machinery hull the oats, retaining only the meat, then cut up the kernel to chick feed size, and use it as one part of the ingredients of their celebrated feed. This, with a number of small seeds and other cracked grains, as also beef, bone and grit, all properly proportioned, is what makes up the Steinmesch Extra Quality Chick Feed. It is fed dry, a little at a time. It is economical because there is absolutely no waste to it. The chicks will eat every bit and thrive on it like a green bay tree. It prevents bowel troubles, indigestion, etc. It produces health, vigor and quick growth; 100 pounds will feed 40 chicks ten weeks, and the price is \$2.50 per 100 pounds. Ask for Steinmesch's Extra Quality Chick Feed, and if there is no agent in your city, send direct to Steinmesch & Co., St. Louis, and they will ship promptly and prepay the freight to any point in the United States east of the Rocky Mountains. Circular free. See advertisement on page 29.

The New Feather.

Beginning with the April, 1903, issue, The Feather, published at Washington, D. C., will be enlarged from 9x12 inches to twice this size, and with 24 pages will be equal to 48 pages of the former size. It will be greatly improved in every way. The Feather is the exponent of practical, scientific and advanced poultry raising. Its policy is to give in its pages nothing but the best. The subscription price will be the same as heretofore, 50c per year; sample copy free. Four beautiful double color plates will be given to subscribers dur-

ing the year, the first one with the April issue.

Poultry Keeping and fruit growing are so intimately connected that no one engaged in one business should neglect to keep posted in regard to the other. We suggest, therefore, that our readers send for sample copy of the Western Fruit-Grower, published at St. Joseph, Mo. This is the best fruit paper published; it is a monthly illustrated magazine, 16 to 48 pages every month, fully illustrated and full of live horticultural information. The publishers are so confident that those who see the paper will be pleased with it, that they will send free samples to those who ask, and will guarantee that any person who reads the paper will receive information worth a year's subscription. Sample copy free if you name P. K.

The Uhl Brooder Will raise every chick as fine as silk. We have the most practical, handiest and convenient brooder made. Also S. C. B, Leghorns as fine as the finest. Eggs



for sale. Prices reasonable. Catalogue free if you mention P. K. M. UHL, L. Box 51, New Washington, Ohio.

1 Egg \$1
15 for \$5

The Stay White Kind.

FISHEL'S WHITE WYANDOTTES

We have some of the grandest matings of this variety that can be found in the U. S.; White Birds that will stay white, and True Wyandottes. Will sell a limited number of eggs from this mating at \$5 per sitting of 15. Send for mating circular.

J. C. FISHEL & SON,

Box K. HOPE, IND.

WERUM'S

DISINFECTING NEST EGG,

THE BEST AND MOST CONVENIENT

LICE AND VERMIN

EXTERMINATOR.

INDORSED BY POULTRYMEN AND DEALERS
SOLD ON GUARANTEE

PRICE PER 1/2 DOZ. BY MAIL (PREPAID) .60 CENTS.

MANUFACTURED BY

WERUM DISINFECTING CO. STRYKER, OHIO.

"Fine Feathers Make Fine Birds."

Our poultry bit prevents birds from plucking out their feathers. Easily attached, cheap, does the work. In no way interferes with feeding. Write for particulars.

Lice on Poultry

cannot be avoided but can be cured. This cut represents Schild's Lightning Lice Killing Machine. Fowls and powder inserted in machine. Give the crank a few revolutions and the work is done—thoroughly done. The powder is thoroughly sifted into and through all the feathers clear down to the skin, and the birds are not injured in the least. Capacity 100 fowls or 300 chicks, per hour. We make the machine. We make the powder. Look to us for results. Write for free catalogue.

Charles Schild, Ionia, Mich.

Standard of Perfection Free.

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. THIS OFFER IS GIVING \$3 OF VALUE FOR \$2. A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

Poultry Keeper Publishing Co., Quincy, Ill.

Sunflower Seed.

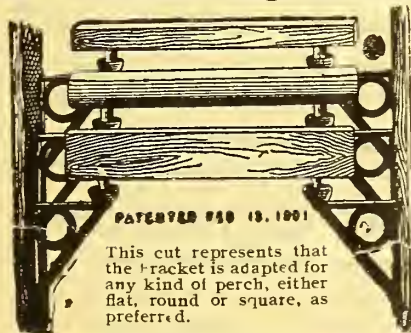
Mammoth white variety, yield very prolific and running from 50 to 75 bushels to the acre. Requires only three pounds to seed an acre. Make a cheap and valuable poultry food and is for egg producing. Growing sunflower plants provide ideal shade for birds during hot summer days. 25c per pound, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Millions of little chicks are breaking their shells at this season, millions of them would have been more profitable to the owners had the eggs been used as eggs instead of hatched into chicks because after all the trouble and experience of incubation fifty per cent of the young chicks have been allowed to die. Several years ago, profiting by experience and experiments, the Star Incubator Company, having solved the question of artificial incubation, took up the study of the care and feeding of the chick after the incubator had done its work. It took but a short time to learn that poor food, more than poor care, caused the large death roll among young chicks. How to keep them alive, to make them grow strong and fast, and keep them healthy was the problem. Years of study and the solution was "Star Chick Food." Its friends made customers, and these brought others, till the cry for more could no longer be satisfied. The Star Incubator and Brooder Co., Bound Brook, N. J., has been obliged to enlarge its feed building one-third and to install two more mills to meet the demand for its Chick Food.

D. C. Raymond, South Framingham, Mass., specialist of Barred Rocks and Rhode Island Reds, has a handsome new catalogue, with embossed colored cover, that he will send free to P. K. readers. It is a good book about some good birds.

The Eastern Poultryman, Freeport, Me., announces that it has purchased Blett's Poultry Pointers, Fenwick, Mich., and that its subscription list is to be added to that of Eastern Poultryman. Our readers can have a sample copy of Eastern Poultryman by addressing as above, and they will find the paper to be full of practical poultry information.

Catches Them Coming and Going



This cut represents that the bracket is adapted for any kind of perch, either flat, round or square, as preferred.

Eureka Oil Cup, Bracket and Perch Supporter.

The Greatest Boon to Poultrymen, Practical Durable, Cheap, Convenient.

A permanent fixture for all times. The spider or ridge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.

Wm. M. Shrader, Box 94, Bucyrus, O.

HANDSOME WATCH

FREE Watches or 50 other premiums given away for selling 20 packages of bluing at 10c each. Send your address and get bluing and premium list postpaid. When bluing is sold send the money and select your premium. Address: Excelsior Bluing Co., Dept. 199, Chicago.



HANDSOME WATCH FREE

We give a guaranteed stem wind, stem set watch, also chain and charm. Watch warranted to keep good time. **FREE** for selling 20 useful articles at 10 cents each. Handsome jewelry and home supplies. Agents often sell all in one home. Send your address and we will send goods and large premium list postpaid. When sold send the \$1.00 and we will send watch, also chain and charm.

Royal Supply Co., Dept. 3, Chicago.

A SILVER DIME

NOT much, but enough to pay for 12 months' subscription to **WESTERN POULTRY JOURNAL**, Iowa's leading poultry publication. Now in its fourteenth volume and larger and better than ever. Every one that raises chickens, either few or many, will appreciate it for its true worth and correct advice. **Send your dime to-day.** Western Poultry Journal, Cedar Rapids, Ia.

WILBER'S S. C. WHITE LEGHORNS

Are unexcelled as **layers** and **winners** in the Largest Southern Shows. Atlanta, Ga., Oct. 1902, three entered, won 1st, 3d pullets; 2d cockerel, score 94, 93½, 93. Charlotte, N. C., Jan. 1903, nine entries, won 1st, 2d, 4th pullets; 1st hen; 3d cockerel; 2d pen, scoring 95, 94, 93½, 93, 92½, 92½, 92½ and pen 186½, also 5 specials, value \$10. Yards now mated that will produce for you, show winners in any company. Write at once for circular describing matings and low prices for eggs to hatch. Satisfaction our motto.

WILBER BROS., Box E, Petros, Tennessee.

Hatch More and ... Healthier Chicks

The Neversink Incubator

hatches a larger percentage of healthy chicks because of the pure air admitted into the egg chamber. The thermostat controls the ventilator and removes the foul air from the egg chamber, instead of simply regulating the lamp. You should investigate this. Lewis Bros., Reading, Pa., say: "The chicks from your machines come out much stronger and healthier. Your ventilated egg chamber shows what causes the great loss of good eggs in other incubators."

Our Neversink Hot Water Brooder has the entrance on a level with the floor. No incline to confuse and worry young chicks. You'll appreciate this. You have seen chicks that would freeze before they would walk up the incline of an ordinary brooder. Write for illustrated catalogue of incubators, brooders and brooding systems, free if you mention Poultry Keeper.

Neversink Incubator and Brooder Co., Box 127. 11-12 Manhelm, Pa.



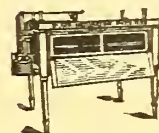
MANUFACTURED BY

Watertown Thermometer Co.

NO. 64 NEWELL ST., WATERTOWN, N. Y.

SINGLY, 75 CTS. 3 FOR \$1.50.

BURR'S PROMISE.



We promise you the best in a cubator on earth. \$6.50 up; all the latest improvements, no night watching, because we use our Five-Inch Double Water Regular, 30 days' trial. Send it back if you want to. Catalogue free. We pay freight.

Burr Incubator, Co., Box "K," Omaha, Neb

NOTICE!

Special Offer! All Periodicals and Magazines at very reduced prices. Subscription can begin at any time. If you are already a subscriber to any Magazine, your subscription can begin when present subscription expires. Here are a few samples:

Poultry Keeper	50c	} All For
American Poultry Adv.	50c	
Commercial Poultry (S-M)	50c	} \$1.25
Poultry Success	50c	
Poultry Keeper	50c	} Both 65c
Vick's Magazine	50c	

Vick's is \$1.00 after May 15th.

Cosmopolitan - \$1.00 } My Price
Woman's Home Companion 1.00 } \$1.25
For any of the latest \$1.50 books add only \$1.15 to any club.

Until May 30th I will give any reader of Poultry Keeper a yearly subscription to the Rocky Mountain Magazine for only 10 cents, and send my complete catalogue of books and club offers free. The Rocky Mountain Magazine is a typical magazine of the west. Describes the mountains, gives true descriptions of mines, and tells about California, etc. Say saw ad in Poultry Keeper. Send all orders to

C. J. HOUSER, Subscription Agent,
228 Oak St., 3-12 California, Mo.

"QUICK MEAL"
INCUBATORS AND BROODERS
Will Hatch and Brood Your Chicks, BUT
STEINMESCH
EXTRA QUALITY "QUICK MEAL"
CHICK FEED

Is needed to raise them all—make 'em grow and thrive like a Green Bay Tree. **STEINMESCH** chick feed is a mixture of cracked grains, small seeds—Beef Bone and Grit. Twenty different kinds, especially prepared for the rearing of chicks, from the time they are hatched until ten weeks old. Feed dry, always handy and ready for use. No waste, always the same. **The Best**, and no higher in price than other feeds.

Price, 100-lb. Sack, \$2.50
Will feed 40 chicks 10 weeks.
SEND ORDERS TO
STEINMESCH & CO.
ST. LOUIS, MO.
Agents for Cyphers Incubators and Brooders and all kinds of Poultry Supplies.
Free Circular for the asking.

GET A DANDY

"More Money From Your Hens"
is the title of a handsome book telling about greater profits by aid of the **DANDY Green Bone Cutter**. Sold on 15 DAYS' FREE TRIAL. Automatic Feed, special knives, largest bone-box, greatest capacity. Try it before you pay for it.
STRATTON MFG. CO., Box 43, Erie, Pa.

FERTILE EGGS.

It is conceded by all experienced poultry raisers that there must be a sufficient number of cockerels and that the cockerels need to be strong and vigorous, also that the hens should be matured fowls; still more,—that range or exercise tends toward strong, vigorous fowls, and strong, vigorous, hatchable eggs. This kind of logic has come to stay and the longer it stays the truer it gets.

There are so many practical writers that speak of these things so often that I will choose (in this instance) to take up something new. I only wish that I could write better, for if I could make myself thoroughly understood, I feel certain that I could do some good, but let us try anyhow.

The yolk of an egg forms first and it stays yolk until just before the chick pips the shell, or at the end of the incubation. To cut this explanation short, will say, that the yolk has but little to do with fertility; its main purpose seems to be a foundation or nucleus for the construction. Eggs complete their formation in a very short time. In some instances they seem to be fertilized and formed in an almost incredible short time. Some experiments I have worked out satisfactorily to myself, and one is that the whites of eggs have more to do with the hatching than the food, or, in other words, the kind of feed governs the make up of the whites. For instance, an abundance of onions will flavor the eggs; to feed too much meat has its effect; an overdose of some particular kind of food has its effect. Recently an engineer who commenced to use tar soap for taking the black off, informed me that his hens drank the water running away from the sink and the eggs smelled of soap and they would not hatch.

Fowls with roup or bad colds may lay fertile eggs, yet they may not be hatchable. It goes without saying that what is sealed up in the egg must be food for the growth of the embryo. If the food is healthy, the growth is good,—if the food is unhealthy or lacks certain essential parts then the embryo suffers.

High per cent hatching dates back to various conditions and even to the grandparents of the breeding stock. Hereditary influences come in, and in fact we can hardly realize the effects of influences of this and that, yet it all has a bearing. The process question of incubation is not up in this little write up, yet I could mention that it needs to copy successful natural methods.

M. M. Johnson.

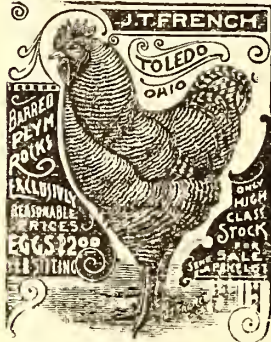
Clay Center, Neb.

Bred to Lay
White Wyandottes.

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper. 11-12
C. BRICAULT, Andover, Mass.

WHAT YOU DON'T KNOW about chicks would fill a great big book. Send 50 cents for our new book, entitled **"LITTLE CHICKS"** and then you will know something. Circular free. 3-x
Excelsior Wire and Poultry Supply Co., Dep't. K. W. V. Russ, Prop., 26-28 Vesey St., N. Y., City.

EGGS!



\$2 Per
Sitting,
From
Prize
Winning
Stock.

J. T. FRENCH,
838 West Grove Place, Toledo, Ohio.

Barred, Buff, White Prize winners from best strains. Eggs per 15, Buff, \$2; Barred and White, \$1.50.
Plymouth Rocks. Catalogue free. Brookside Poultry Farm, C. H. BARNES, Prop., Kalamazoo, Mich. Mention P. K. 3-12

BLACK LANGSHANS

A few fine cockerels at \$5 each. Brood brothers to my Bostou winners.

HENRY L. ALLEN, - Alden, New York.

INCUBATOR

Plan, simplest and best hatcher in the world, any size, make it some rainy day—perfect plan \$1.00. Brooder plan, 20c; Chick Food recipe, 20c; Egg Maker recipe, 20c; Lice Killer recipe, 20c; Beginner's Directions for Brooder Chicks, 20c. All of above in one order for \$1.00.

QUAKER SUPPLY COMPANY, Box K, Omaha, Nebraska.

SMITH'S
Rhode Island Reds.

Have won over 200 prizes the past two seasons. Eggs from Attleboro yards Rose, Single and Pea Combs, \$2 per sitting; 3 sittings \$5; \$10 per hundred. Eggs from Wrentham Yards \$1 per sitting; \$5 per 100; 300 eggs or more at one time, \$4 per 100. Can furnish 2000 eggs per week from farm range stock averageing strong fertility. Rhode Island Red book gives origin, proper matings. R. I. Red Standard free on application if you mention Poultry Keeper. 1-6

T. N. SMITH, ATTLEBORO, MASS.

A 200-EGG INCUBATOR \$8

Sounds like a fairy tale, but it's a fact. Under our NEW Plan, this first-class **Up-to-date NEW IDEA INCUBATOR**

can be secured at a merely nominal cost. As a hatcher it has no superior. Is built with Double Walls, Removable Egg Trays, Chick Nursery, Copper Heater, Improved Tanks, Safety Lamp, Thermostat, Double Wafer Regulator. Is Self Regulating and Self Ventilating.

You Save More than Half by dealing with us. **Write to-day** for FREE illustrated circular; tells the whole story. We are the only concern in the country working on this plan. You will wonder as we did that no one ever thought of it before.

NEW IDEA INCUBATOR (Channon, Snow & Co. Manufacturers.) **Box 102 Quincy, Ill.**
We handle a full line of Poultry Supplies, all at Cut Prices.

LITTLE CHICKS

Is the title of a new book edited by M. K. BOYER, editor of Farm, Garden and Poultry. It contains special articles on Feed and Care, Raising Chicks in Brooders, Raising Chicks with Brooders and Hens, General Management, Natural and Artificial Methods, Colors of Young Chicks, Time to Hatch, Diseases, Houdan Chicks, Lice, etc.

Thirty-four Different Methods of Feeding Chicks.

The contributors of this book are M. K. Boyer, A. F. Cooper, W. W. Kulp, G. W. Nones, A. G. Duston, P. H. Jacobs, M. V. Norys, and other prominent writers. Everybody should have a copy of this book for reference, as it is the only one published in the interest of little chicks. Over 150 pages. Price 50c. postpaid.

POULTRY KEEPER PUBLISHING CO.,
QUINCY, ILLINOIS.

BUCKEYE INCUBATOR CO.
SPRINGFIELD OHIO

50 EGG SIZE \$5.00
100 EGG SIZE \$9.50
200 EGG SIZE \$15.00
OVER 40,000 IN USE

30 DAYS TRIAL

100 CHICKS FROM 100 EGGS WITH 2 BANTAMS

\$4.500.00 Catalog **2 cts.**

Perfect Chick Feed.

A letter from the May R. Poultry Plant, breeders of White Plymouth Rocks, Connersville, Ind., to the manufacturers of the Perfect Chick Feed:

Mr. W. F. Chamberlain, Kirkwood, Mo. I send you by same mail a copy of my latest catalogue. Kindly look over article entitled "From Shell to Show Room." You will see what I say about your "Perfect Chick Feed." I was very glad to give you this free advertisement, because the results I have had in raising my young stock since using same have been so good that I felt a pleasure in recommending it.

Nowadays when I get a chick in the brooder he belongs to me, and barring accident, I expect to raise it. Bowel trouble is a thing of the past.

D. T. Roots. (Note.—See ad on outside back cover of book.)

DON'T SET HENS the same old way while a 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue telling all about and 50c New Formula FREE if you write today. NATURAL HEN INCUBATOR CO., Bt., Columbus, Nebraska.

PECK'S EGG FOOD
FEED FOR 50 HENS FOR 60 DAYS \$1 PREPAID
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HERE TAKE IT IT'S FREE
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EGGS, \$1 PER 15.
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At this season the Harding Baby Chick Food is essentially important and poultry raisers will look to their own profits by giving this food a trial (see special half price offer in ad on page 39, Mr. Harding has a handsome new catalogue (No. 4) which is for free distribution to P. K. readers and he will be glad to have every one of them send for a copy. Under date of April 6, he writes that the demand for Harding's Baby Chick Food and the Poultry Remedies is so great that it keeps him busy filling orders. "To-day," he states, "I sent goods to Port Natal, So. Africa; Florida, Canada, New Zealand, and nearly every state east of the Mississippi.

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S. C. Brown and White Leghorns,
S. B. Minorcas and B. Javas.
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We will be glad of the chance to tell you all about our birds in a letter. We'll prove what we say too. **Plishel White Rocks, six yards, Eggs 15 for \$1.50.** Write wants and ask for Novel Egg Folder, free.

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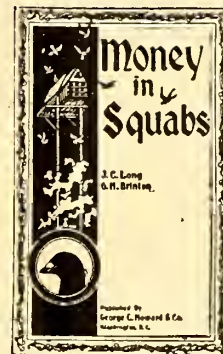
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SANBORN ON POULTRY KEEPING.

(Continued from Page 12.)

need it. These chicks get no setback in growth and mature early.

As the Birds Mature.

Do not let the cockerels and pullets run together too long. The early chicks mature before the summer is hardly over and before you realize it the cockerels are an annoyance to the flock. Better yard the cockerels and give the pullets free range.

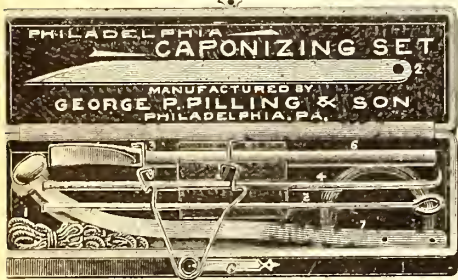
As you cease setting and selling eggs for hatching, remove the male birds to a yard by themselves. Let them fight it out—the best will win, and peace will reign for the rest of the year. The eggs from the unmated hens will keep better than those that are fertile, and the hens will do fully as good laying.

If you have been doing all these things that I have suggested, well and good. If not, try them for 1903 and report results in the late fall months. The Poultry Keeper wants just such trial statements, and the subscriber who gives faithful endeavor to improvement in poultry matters will be well repaid for time and money expended.

Nathan W. Sanborn, M. D.

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The Poultry Keeper

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require warmth and comfort before they will produce butter and eggs. You can beat the rain, snow, and cold winds by using

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Red Rope Roofing. It is the best low cost roofing and siding on earth. Stock barns, dairy barns, poultry houses, pig sties can all be made snug and comfortable by its use. NO TAR. Rolls contain 100, 250 and 500 sq. ft. Tin caps and nails with each roll. Ask your dealer for "Neponset". Write us for booklet and samples.

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Write to-day for fine free catalogue.

Good hatches of chicks that will make profitable stock can only be had when the breeding birds are in fine condition for their work. Sturdy stock will help solve the problem of successful incubation and brooding. Even the "old hen" cannot make a strong chick from a weak germ egg. Birds must be fully matured and not exhausted from too heavy laying to lay eggs that are first class for hatching.

In planning your pens for this spring's breeding look closely to the shape of your birds. Do not divide your birds into two classes, one rose and the other single comb, and say the first are Wyandottes and the second Plymouth Rocks. Shape of body makes the breed! If you are breeding Wyandottes let the length of the back be "short." If Plymouth Rocks let the back be "medium." Have the shape such that the comb need not be looked at to decide the matter. Men are looking for birds with correct shape. One of the prominent breeders in New England in ordering hens this month insisted that the birds should "have size and shape first, with color next." This is business when so leading a man requires shape before color, especially when he is a Buff Wyandotte man. There is no variety where the breeders have gone so wild over color, and paid so little attention to shape, as the Buff Wyandotte.

EARLY SITTERS AND THE CHICKS.

Wichita, Kan.

Editor Poultry Keeper.

I notice that a correspondent in Poultry Keeper says if a hen becomes broody in February or one of the early months he gives her eggs and takes the chances on raising some early chickens. I used to do that way myself. Now I do differently. If my hens do not want to sit, I buy some sitting hens. When the chickens hatch I leave them in the nest as long as possible, where it is warm and comfortable.

I had a brooder built, five feet square, on the south side of my hen house, three feet high at the hen house, sloping to the south. It has two frames of window sash on top (glass in them, of course). This brooder is covered with tarred paper, with a little door on the side. I place my chicks with their mother in this brooder and raise every one of them.

For feed I boil an egg in the morning, chop fine, add a little oatmeal or rolled oats and give the chicks. In an hour or so give them a mash made with corn meal and a little bran, pour a little hot water on the meal, mix rather dry.

All the cracked grains are good. Stale bread laid in sour milk or buttermilk is very nice for young chicks, and the best food in the world for young turkeys.

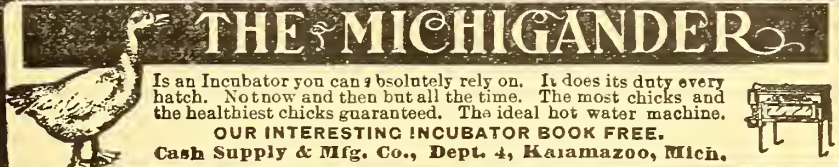
M. A. Parsons.

RAPE It pays to sow Dwarf Essex Rape which has proved to be the most valuable forage plant in existence for Sheep, Hogs or Cattle. Costs only about 35 cents per acre for seed; yields 20 tons per acre. Our seed was grown in Essex, England, and is extra choice. Descriptive circular and sample free if you mention this paper. Ask for copy of our large illustrated catalog of Garden and Farm Seeds. Free for the asking. IOWA SEED COMPANY, DES MOINES, IOWA.

White Wyandottes THAT DID DO CAN WILL Win

CIRCULAR FREE. E. H. SMITH, BOARD OF TRADE, DULUTH, MINN.

THE MICHIGANDER



Is an Incubator you can absolutely rely on. It does its duty every hatch. No trow and then but all the time. The most chicks and the healthiest chicks guaranteed. The ideal hot water machine.

OUR INTERESTING INCUBATOR BOOK FREE.

Cash Supply & Mfg. Co., Dept. 4, Kalamazoo, Mich.

30 YEARS SELLING DIRECT

We are the largest manufacturers of Vehicles and Harness in the world selling to consumers exclusively.

WE HAVE NO AGENTS but ship anywhere for examination, guaranteeing safe delivery. You are out nothing if not satisfied. We make 195 styles of vehicles and 65 styles of harness.

Visitors are always welcome at our factory.



No. 719—Driving Wagon 1/2 in Kelly Rubber Tires. Price \$35.50. As good as sells for \$40 more.

Large Catalogue FREE. Send for it.

No. 349—Canopy Top Trap. Price \$93. As good as sells for \$50 more.

ELKHART CARRIAGE & HARNESS MFG. CO., Elkhart, Ind.

ANTHRACITE STRAIN OF WHITE AND BARRED PLYMOUTH ROCKS AND BLACK MINORCAS. . .



They have taken first prize everywhere shown, scoring from ninety four to ninety six and a half points.

STOCK AND EGGS FOR SALE.

Write us your wants and we are sure we can please you. Please be sure to mention Poultry Keeper. 3-12

Anthracite Poultry Yards, - Stockton, Pa.

GET DOWN TO THE MEANING

of winter success with poultry. You must do things. Hens don't give you something for nothing. You want eggs to sell when they are high. Hens can't get hold of the egg making materials. You must supply them.

DARLING'S CLOVER MEAL

is the great egg making food. Its analysis shows all the needed ingredients. Summer conditions in winter. The eggs can't help but come. Price \$2.00 per 100 lb. bag, f. o. b. Chicago, cash with order. Darling's Poultry Line includes Mica Crystal Grit, 65c per 100 lb. bag. Crushed Oyster Shells, 50c per 100 lb. bag. Granulated Bone, \$1.80 per 100 lb. bag, each cash with order, f. o. b. Chicago. Beef Scraps, Beef Meal, etc. Also a full line of poultry foods. Write for free copy of latest edition of booklet, "Fill the Egg Basket."

DARLING & COMPANY, Department 20, Union Stock Yards, CHICAGO, ILL.

INCUBATORS

From \$2 up

BROODERS

From \$4 up



Self Regulators, Self Ventilators, No Supplied Moisture. Made of best California Redwood. Easy to operate. Fully guaranteed. Automatic Brass Regulator Automatic Ventilation. Send for Free Catalog.

L. A. BANTA, Ligonier, Ind.

A HATCHING EXPERIMENT.

Ralph Bryson, Iowa Falls, Iowa.

By nature I am a lover of experiments. Especially so when these experiments are with poultry. Having read a great deal about the fertilization of eggs and the time it takes, also about pullets' first eggs not being hatchable, I tried an experiment. My desire was to learn more of the conditions necessary to the production of fertile eggs; also to prove, by test, the correctness of my theory, that under proper conditions fertile eggs may be had at any time. I decided to give the matter a thorough test, which I did.

The test was made with two pens of Barred Plymouth Rocks. The birds were confined in a warm, well lighted house, and had plenty of litter in which to scratch. Both hens and pullets were fed with a view to egg production and vigorous general health. A part of the test was made with April hatched pullets mated to a March hatched cockerel. The cockerel was a large, vigorous bird which had been carefully developed for a breeder. These pullets were not laying at the time the mating was made, November 1, nor did they lay until some time afterward. These pullets were not good layers and at the close of the experiment they went to the butcher at eight and a half cents a pound. I have no use for a hen that doesn't "shell out."

The other pen used was made up of

two-year-old hens, vigorous birds of the egg laying type. Mated to them was a seven-months-old cockerel, a splendid young fellow of the early maturing type. On November 28th a hen became broody. The pullets had begun to lay, so I set the hen. I saved and set eggs from the pullets as follows: Pullet No. 1, her first egg; pullet No. 3, her third and fourth eggs; pullet No. 6, her second and third eggs; pullet No. 8, her second egg; (pullets' first eggs, you see). November 29 I placed the cockerel with the hens and commenced to save eggs the next day.

From the hens I saved eggs as follows: One egg the first day, one egg the third day, two eggs the fourth day, two eggs the sixth day. The room where the hen sat was so cold that her drinking water froze at night. The outside temperature went to 18 degrees below zero one night, and was 8 degrees below the day the hatch came off.

From the pullets' eggs I got one chick from pullet No. 1's first egg. Pullet No. 3's eggs were infertile. The other eggs contained full grown chicks—dead, killed by chilling, I think.

From the hens' eggs came two chicks—one from the egg laid the third day and one from an egg laid the fourth day. Egg No. 1 was infertile and the other eggs were the same as those from pullets 6 and 8. I am convinced that under favorable conditions pullets' eggs will hatch. I also think it is necessary to have the mating made but a short

time in order to have fertile eggs from hens, provided the hens are laying at the time the mating is made. Some may not agree with me in this, but my experience points in this direction. I believe that "proper handling" is more than half the battle. If time and space are available, I will tell later on how and what I feed to secure fertile eggs.

The Ideal Brooder Co., Glencarlyn, Va., have a new attractive pamphlet telling the good qualities of the Ideal Brooder. Send for copy, free to P. K. readers.



Nothing on Earth will do it like Sheridan's Powder.

Thousands of successful Poultry-Keepers all over the country owe no small portion of their success to the practice of mixing with the mash food given to their poultry every day, a small quantity of SHERIDAN'S CONDITION POWDER. It has been used and indorsed by Poultry-Raisers over thirty years, and for all kinds of poultry.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$5. Sample copy best Poultry paper free. I. S. JOHNSON & CO., Boston, Mass.

BLANCHARD'S WHITE LEGHORNS

Are no experiment, but have been carefully selected and bred for over 20 years with results that fully entitle the claim that they are the GREATEST EGG LAYING STRAIN of S. C. WHITE LEGHORNS IN EXISTENCE. No expense or labor has been spared to build up and perfect this strain and while the production of LARGE, PURE WHITE, FANCY MARKET EGGS has been the main object, STANDARD QUALITIES HAVE NOT BEEN NEGLECTED. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME. Unexcelled for INTRODUCING BLOOD or as FOUNDATION STOCK. No better anywhere at any price. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. EGGS FOR HATCHING A SPECIALTY. \$2 per 15, \$3.75 per 30, \$5 per 45, \$10 per 100. Illustrated circular free if you mention Poultry Keeper.

H. J. BLANCHARD, Groton, New York.

EGGS FOR HATCHING

Last season I thought the breeding yards I had mated up contained just about as good a lot of select, high-scoring birds as I could ever hope to mate, but, I must say the 20 Breeding Yards I have mated this season are far superior to those last season.

FISHEL'S

Poultry Farm is said to have furnished the eggs that hatched the majority of the Winners at the leading shows the world over in the : : : : :

WHITE :: ROCKS

class. Now, Dear Reader, why place that egg order elsewhere when you know you can get The Results from eggs from my yards. My 36-page Catalogue is mailed you for a 2-cent stamp to pay postage. It gives half-tones of the most noted White Plymouth Rocks ever bred, gives list of winnings, describes how to feed, etc. If interested in Poultry, especially White Plymouth Rocks, you cannot well afford to be without a copy. I have something like

1000 Selected Breeders Yet For Sale

Cockerels fit to head any yard and birds that will stamp their winning qualities on their progeny. Fishel's White Plymouth Rocks are conceded by everyone to be

The Best In The World

~~~~~EGGS, \$5 per 15; \$15 per 50; \$25 per 100.~~~~~

BRONZE TURKEYS.

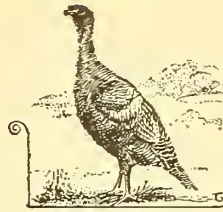
U. R. FISHEL, Box K, Hope, Ind.







# TURKEYS FOR PROFIT.



[Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones, of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.]

## TURKEY RAISING AND MATING.

Care of Birds at Breeding Time—Remedies for Indigestion and Diarrhea—Safe Way of Packing Eggs for Shipping.

It is time that our plans were perfected for raising the crop of turkeys for 1903. The first point is strong, vigorous stock and in perfect health. Although the past winter has been changeable, with a great deal of unpleasant weather, which has caused a great deal of sickness in the human family, I never had my turkeys go through a winter in such perfect health. I have had a few cases of indigestion and lost two or three, but it was because I could not take proper care of them.

### Remedy for Indigestion.

When it came to an attack of indigestion on a young tom that had cost me \$12 I took the time to doctor him up, which proved a very easy thing, although his was the worst case. I gave a calomel pill (one-tenth grain) for three nights, and then gave quinine twice a day. As he had a very bad diarrhea, with green and yellow discharges, and this trouble did not yield to the calomel and quinine, I got the essence of Jamaica ginger and gave him about one-half teaspoonful at a dose, when I gave the quinine, and he was soon as well as ever.

I noticed one hen very droopy. I caught her and gave two calomel pills, one each night, and let her run. After that I could not tell which one it was, and as my number of hens is all right, I know she got well.

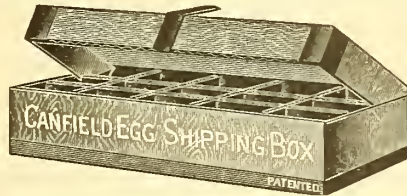
### The Breeding Flock.

My turkeys have had only dry grain all winter and they are in the most vigorous health and ready to do their share of raising a big crop of turkeys. After years of turkey raising I have come to the conclusion that a turkey knows more than I do about raising her poults. We can keep them under control and prevent their taking their young flock out in the dew too early in the morning. I have found the best way is to yard turkeys in from one to three acre lots with a good sod. An orchard with a hedge around is an ideal home for turkeys, as they do so like to scratch in dry leaves and make their nests. They usually cover their eggs so deep the crows have hard work to find them.

### Care of Eggs for Hatching.

I always take the eggs out every day and place them in a room that is carpeted, turning them every day or every other day. As I breed from several yards, I write the name of the yard or

## Frost Proof



The best on the market All supply dealers handle them. Don't accept a substitute.

|                                          | per doz. |
|------------------------------------------|----------|
| No. B1, 15 egg size, weight, 9 oz. each, | \$1.25   |
| " B2, 30 " " " 1 lb. "                   | 1.90     |
| " B3, 50 " " " 1 1/2 lbs. "              | 2.75     |
| " B4, 108 " " " 2 lbs. "                 | 3.75     |

Sample No. B1, postpaid 20 cents. Circular free. CANFIELD COOP CO., 31 Main St., Bath, N. Y.

## EGGS FROM MY BARRED ROCK PEN, Scoring 92 1/4 to 93 1/4. From my WHITE ROCK PEN,

Scoring 92 to 95 1/4, \$3 per 15. White Rock cock, erels scoring 92 to 94 1/4, \$1 to \$3 each. Satisfaction guaranteed. Ozark Poultry Yards, St. James, Mo., Geo. W. Davis, Prop. 4-3

## PRUSSIAN LICE POWDER



This is just about the time when chicken lice and mites are most active and annoying. If allowed to go without attention they will do in a few warm days more damage than you can repair in a whole season. A few applications of

### PRUSSIAN LICE POWDER

will effectually rid your flock of these troublesome pests much to the comfort of the fowls and your profit. Put up in cans with perforated top all ready for dusting on. Equally effective for lice, fleas, ticks, etc., on other animals.

Price 25 and 50c. By mail 40 and 75.

### PRUSSIAN LICE KILLER

is a liquid preparation of great power and efficiency. Kills by fumigation while the fowls sleep. Easily applied—just paint it on perches, dropping boards, nest boxes, etc. Price 50c and \$1.00.

Remember that we are also the sole manufacturers of the famous Prussian Poultry Food which is unequalled in every particular. If there is no agent in your town for these goods, write us direct for liberal terms, etc.

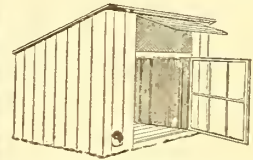
68 Page Book Mailed Free.

PRUSSIAN REMEDY CO., ST. PAUL, MINN.

Portland Seed Co., Portland, Oregon, Coast Agents, "Vaughn Seed Co., Agents, Chicago."

WANTED—About 50 each White Wyandottes, White Leghorns, and White Plymouth Rocks. Address L. W. L., care Fayerweather & Ladew, No. 91 Liberty St., New York City.

## PEEP-O'-DAY COOPS



AND  
COLONY  
HOUSES

Recommended by the largest and most successful poultrymen. We manufacture them in three styles and sizes, at the CORNELL works, in the CORNELL way, and by the CORNELL crew.

Illustration shows portable coop No. 2, size 4 ft. long by 3 ft. high by 3 ft. wide. Made of one-inch white pine, and neatly painted.

### A Good Winter House.

Dear Sirs:—The No. 2 House I bought of you over a year ago is satisfactory in every way. Situated as it is on the slope of a hill, exposed to the north winds, I wintered my fowls, and they were happy and contented, and did well. By opening the glass door on pleasant days, I had a perfect scratching shed, while with the door closed it was snug and warm.

Yours truly, WM. CARR.  
Price with floor as illustrated, \$6.00.  
The Cornell catalog was printed for interested poultry people, and is mailed free for the asking. Write us to-day.

CORNELL INCUBATOR MFG. CO.

Box 14, Ithaca, N. Y.



## EGGS CHEAP

### Lee's Egg Maker

produces eggs more cheaply than anything that can be fed to fowls. It is Lee's best condition powder combined, half and half, with Granulated Blood the most condensed of all meat food. We call it Egg Maker because when fed to hens they lay more eggs. It puts them in condition for laying and supplies meat food. It cleans away the fat that binds up the egg producing organs. It turns food to eggs instead of fat. The hens will lay better and do better. Their eggs will hatch better and grow stronger and more vigorous chicks. It does this at a cost of only one cent a day for each 25 hens. Try a 2 1/2 pound package only 25 cents, or a 25 pound pail at \$2. T. E. Thorsen, Alida, Minn. says "My hens laid many eggs after I got it. I did not get a single egg before I got Egg Maker. I have 140 hens and get 100 to 125 eggs a day now." Send for free Poultry Calendar and Egg Record.

GEO. H. LEE CO., OMAHA, NEB.





strain on a slip of paper, and when I have orders for a particular yard I know just which to select. Later in the season I put the eggs in the cellar on a cement shelf, which keeps them cool, and by turning often they will keep until you can find something to set them under.

#### Hen and Her Poults.

Large roomy coops should be provided for the young poults. They can be used year after year by painting with carbolineum avenarius, as this effectually kills all lice and mites. [This paint will be found advertised on page 33.—Editor.] This should be done a week before wanting the coop, as it is a very powerful lice killer and effects their eyes. I prefer to put clean straw in coops, instead of a board floor, as I can take out the straw every day and put in clean in its place. A turkey is a filthy bird, but can not survive its own filth. They must be kept clean. I like a wire screen tacked on the coop so they can have fresh air all the time.

I never coop the hen over three hours through the day unless we are having a constant downpour, as my turkeys for the last two or three years have had paralysis of one side and can not stand on their feet if cooped longer than that. I have had that trouble before, but that is the cause. As soon as they are turned out they never show any symptoms of it. Those that are not too far gone get well, but if they are that way for three or four days they invariably die.

#### Shipping Eggs for Hatching.

As shipping time for eggs is now at hand, I would like to say something that I learned years ago. We shipped a barrel of canned fruit to Kansas. Nearly all the cans were broken when packed in sawdust. In the cans that escaped the general smash-up the fruit was so shaken up, no amount of cooking would keep it. This gave me an idea that eggs not packed in springy material would never hatch. Later we wound cans in large ropes of prairie hay, bound on with binding twine, and there never was a can so much as cracked, and the fruit kept as well as in our own cellar. We packed in cups of jelly and nothing was broken.

I thought that eggs not properly packed to overcome the jar would be shaken like the canned fruit packed in sawdust. I went to work to see what I could do. I got cotton batting like we put in comforters. I tear off enough to cover the eggs, then wrap newspaper around, then wrap excelsior all around that, and if they are going a long distance I take wrapping twine and tie on. You could almost play ball with the eggs and not break them. I have had eggs hatch better away from home than at home, as I send strictly fresh eggs. This way of packing overcomes the jar of the train. I would never think of leaving out the cotton batting, as that is so soft and pliable that it overcomes all the jar. Some may think it too expensive, but it takes only a very little, as you do not need to wrap them very thick, and your customers have a right to expect you will do your best for their interest. I have received eggs packed in so many different ways, but still adhere to my original way. The only objection is that it takes time, and that is a serious objection, but I want to get eggs that hatch, and want those that I send out to do the same.

## Incubator Eggs Our "Drive"

Guaranteed fertile. From 30 varieties of thoroughbred fowls. Each kept on a SEPARATE FARM. Catalogue in colors FREE, if you mention Poultry Keeper.

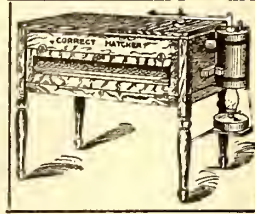
HARRIS-PATRICK POULTRY CO., Clay Center, Neb.

...FREE...

### CATALOGUE.

A complete book on the subject. It tells all about the "CORRECT HATCHER" and gives you a correct idea on the incubator question.

The CORRECT Brooder hovers. The only correct way. Send for catalogue.



### WE PAY THE FREIGHT

The new automatic machine. Everyone can operate it: Results guaranteed. The most improved machine. Don't buy until you have seen the "CORRECT." Send for catalogue. It is free if you mention P. K.

CORRECT HATCHER CO.,  
BOX A, LEESVILLE, OHIO.

# Simply Unapproached

## THE NEW YORK SHOW RECORD FOR

## LAST FOURTEEN YEARS

### OF BRADLEY BROS.' BARRED ROCKS.

For 14 Years Barred Plymouth Rocks We Bred and Raised Have Won at New York Shows as Follows—

- (1) **MORE FIRST PRIZES** than any other exhibitor has won on any stock;
- (2) **More FIRST Prizes on EXHIBITION PENS** than any other Exhibitor has won;
- (3) **Nearly DOUBLE** the number of **FIRST PRIZES on COCKS and COCKERELS** of any other exhibitor;
- (4) **And THREE TIMES** the number of **FIRST PRIZES on MALES** than any other exhibitor has won on stock not our breeding.

**ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS.**

No LESS THAN THIRTY-FOUR Winning Males at New York Shows, either Singly or at Head of Pen, have been bred by us from the "Grandson's Brother" line, and its near relatives.

At Nearly Every Large Show last season a "Grandson's Brother" Bred Male won First Prize Singly, or Headed First Prize Pen, and our "Lee Belle" pullet lines MADE A LIKE PHENOMENAL SHOWING.

### OUR NEW YORK SHOW HONORS 1902,

Our last exhibit—in a class of 223 of the Best America could furnish, We Won Three Fifths of all the Regular Prizes and all the Special Prizes except one, including All Silver Cups, Gold Special and Silver Medal.

**THREE of the FOUR HIGHEST PRIZES on COCKS and COCKERELS** were won by birds from our "Grandson's Brother" lines, and our 1st and 2d prize pullets, Judge Scudder, who has placed the awards on Rocks at nearly every New York Show for fourteen years, stated they were the Highest Scoring of any he ever judged in the Garden.

We won Four of the Five prizes on Cockerels, Four of the Five prizes on Pullets—all except fifth, Four Prizes on Fowls, and First, Second and Fourth on Exhibition Pens.

**ALL OUR WINNERS** Were From Our Own Yards, except two—one of these was hatched from our eggs direct—the other, a fourth place bird, was from our stock.

**CHOICE EXHIBITION AND BREEDING STOCK** For Sale. Carefully Mated Breeding Yards of Five Birds, mated for either Light, Medium, or Dark Progeny as desired \$15 and up. Special Prices on Poultry in Large Numbers. Large Circular and Price list of "America's Best—Illustrated," sent free. Eggs from Best Pens Only, \$5 per 15; \$10 per 26; \$14 per 39.



A "GRANDSON'S BROTHER" MALE,

and the sire of more First National Winners than any other male living. For his sire (a son of "Grandson's Brother 5th") \$100 was refused as a cock.

# BRADLEY BROS.,

BOX 825, LEE, MASS.



**"LITTLE CHICKS."**

There is but one safe and sure way to raise good, strong, vigorous stock and that is by breeding from good stock and feeding and caring for young. The great mortality in chicks is a source of more loss than any other cause, and the successful poultry raiser cannot expect to raise strong, sturdy chicks unless he knows how to feed and care for the young.

At this season of the year about nine out of ten letters of inquiry sent us, ask for help and advice on this subject. For this reason we call special attention to the book, "Little Chicks," compiled by M. K. Boyer, the well-known poultry writer. This book covers the subject thoroughly and a copy should be in the hands of every care taker of little chicks. It contains 168 pages and cover (6x9 inches in size), and price is 50c postpaid. If taken with a subscription to Poultry Keeper, we make a special offer of 80c for the two. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**THE SILVER PHEASANT.**

Ferd Sudow, Amityville, N. Y.

The Silver Pheasant is certainly a handsome bird, as hardy as geese, a good free breeder and exceedingly intelligent. It has absolutely no wild nature about it. They are perfectly tame and can be brought up with other domestic fowls. Silver Pheasants are without a doubt one of the greatest attractions for a lawn. The adult male has a black crest, the face being covered with brilliant red wattles, the throat and under part of the body are steel black, upper portion of body white, delicately marked with black lines. The tail feathers are white, silver shaded and the legs are red. The hen is not so large as the cock and is of dull brown with tracings of black plumage.

This is a very long lived bird and makes a fine piece of roast. Silvers generally mate in pairs. Their young are very hardy and can be reared without much difficulty in any climate. They stand confinement well. I anticipate lots of eggs for hatching this coming season. I raised eighty per cent last season. Most breeders say they lay not over thirty eggs in season, but my hens averaged fifty-three eggs last year. The laying season is April to July. Their eggs hatch within twenty-four to twenty-six days.

**SPECIAL 30 DAY OFFER**

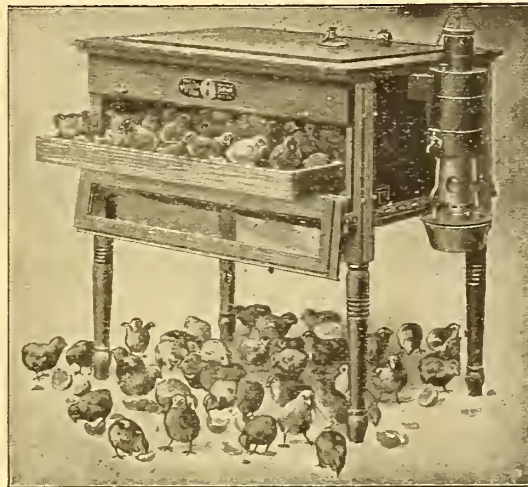


Mail \$1.00 today and I will send you (express paid to any point east of the Mississippi river) one 50c. box Harding's Roup Cure, one 25c. box Harding's Cholera Cure, one 25c. box of Harding's Lice Killer, one 10c. box Head Lice Ointment

As this ad. will not appear again goods must be ordered within 30 days of date of this publication. Send your \$1.00 today to

**Geo. L. Harding, Mfg.**  
Poultry Foods and Remedies.  
Box 16, Binghamton, N. Y.

**Hatch Chickens by Steam**



With the simple, perfect, self-regulating

**WOODEN HEN**

**LOWEST PRICED FIRST-CLASS HATCHER MADE.**

|                  |         |
|------------------|---------|
| 50 Egg size only | \$ 6.80 |
| 100 " " "        | 10.00   |
| 200 " " "        | 12.80   |

Send for the free illustrated catalogue with 14 colored views, and be sure to mention Poultry Keeper.

**GEORGE H. STAHL, Quincy, Ill.**

**AT BOSTON 1903**

Our birds won 26 premiums with 25 entries. Our Buff Rocks making the best record ever made at this great Show, and clearly placing us at the top with this variety. 1st, 2 and 3d cock; 1st, 3d, 4th and 5th hen; 1st and 4th cockerel; 2d and 3d pullet, and every special offered make a record of which we are proud. Our Buff Wyandottes and Barred Rocks were also among the winners. **WE SOLD OUR 1st BUFF ROCK COCKEREL FOR \$300 AND FOUR HENS FOR \$200.** These are the **RECORD PRICES FOR THIS COUNTRY AND EMPHASIZE THE QUALITY** of our birds. Our free catalogue and mating list gives description of matings and guarantee, and price on eggs, from our winners. You will hatch winners from our eggs, and stand the same chance that we do to produce the Champion of 1904. 2-12

MILLVILLE POULTRY FARM, Box 1. M. F. Delano, President, Millville, New Jersey.



**CORNELL INCUBATOR ADVANCEMENT**

The CORNELL patented system of temperature regulation, and perfected system of ventilation. The Cornell ventilates in Nature's way. Gets the proper moisture lines at the right time—in any locality—under all conditions—and at any season of the year. **RESULT:** Healthiest and most vigorous chicks ever obtained by artificial incubation.

CORNELL cabinet construction—CORNELL compound door—CORNELL table-top. Gold Medal. Highest Award at Buffalo Pan-American Exposition.

**PEEP O'DAY BROODERS** are the brooders that are used exclusively by the largest and most successful poultrymen. On the market ten years. Thousands of testimonials.

Our large, finely illustrated catalogue tells all, and contains valuable poultry information. It was printed for interested poultry people. Copy mailed free. Write to-day.

**CORNELL INCUBATOR MFG. CO.,**  
Box 14. ITHACA, N. Y.

College Hill, O., July 2, 1902.  
Cornell Incubator Mfg. Co., Ithaca, N. Y.  
Dear Sirs—Hatch just over, Started 108 eggs; tested out 14, leaving 94 good. Hatched 84. All strong; no weak or cripples. No moisture used.  
Yours very truly,  
LEN LANIUS.



**SUCCESS WITH POULTRY.**

The best hook on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry Will help you.

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

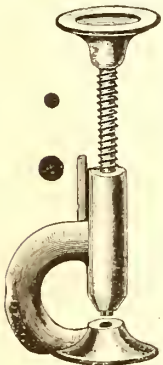
Do you want to get plans for building practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of hook alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Offer is good for new subs or renewals. Address Poultry Keeper Pub. Co., Quincy, Ill.

**MARK YOUR CHICKS.**

The chicken marker or punch shown affords a convenient and permanent means of marking the chicks by punching a hole between the toes. There are many different ways in which these punches may be made, so that it is possible to keep track of the chicks from different hatches. Price of marker postpaid is 25 cents; or for 65 cents we will send marker and furnish full year's subscription to Poultry Keeper. Address, Poultry Keeper Pub. Co., Quincy, Ill.





**BIG RETURNS IN EGGS.** Even if it does cost you a little money, you are not squandering it, but making a wise investment. Use the Prussian Lice Powder to keep the fowls free from vermin, and feed

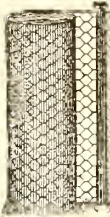
**PRUSSIAN POULTRY FOOD**

and you will be surprised at the great return you will receive in the form of eggs, or whatever else you are raising poultry for; and the cost is very little per hen after all—not a tithe of the returns you get. It is meat and medicine to your fowls. Price, 25c and 50c. Get it from your dealer, or write to us. Book on poultry and stock feeding free.

**PRUSSIAN REMEDY CO., ST. PAUL, MINN.**

Portland Seed Co., Portland, Ore., Coast Agts.; Vaughn Seed Co., Agts., Chicago.

**WIRE NETTING BARGAINS**



We have recently bought a round lot from one of the largest factories in the U. S. and name prices below the market in order to close out quickly. This is steel wire netting, Galvanized, new and saleable goods, but not perfectly bright and clean, having been in warehouses sometime. Offered subject to stock on hand when order is received. Can ship promptly. Put up in rolls of 150 ft. We do not sell less than full rolls.

| WIDTH   | MESH   | WIRE        | PER ROLL | WIDTH                          | MESH   | WIRE        | PER ROLL |
|---------|--------|-------------|----------|--------------------------------|--------|-------------|----------|
| 36 inch | 2 inch | No. 20..... | \$1.37   | 54 inch                        | 2 inch | No. 19..... | \$2.28   |
| 42 "    | 2 "    | " 20.....   | 1.60     | 60 "                           | 2 "    | " 19.....   | 2.53     |
| 48 "    | 2 "    | " 20.....   | 1.82     | 24 "                           | 2 "    | " 18.....   | 1.32     |
| 30 "    | 2 "    | " 19.....   | 1.27     | 30 "                           | 2 "    | " 18.....   | 1.65     |
| 42 "    | 2 "    | " 19.....   | 1.78     | We have many other sizes also. |        |             |          |

Wholesale Supply House Est, 1874. A. J. Child & Son, 209-211 Market St., St. Louis, Mo. Please Mention Poultry Keeper.

**OUR BEST CLUBBING OFFER.**

**FARM POULTRY, \$1.00 BOTH \$1 POULTRY KEEPER, 50c.**

Farm Poultry is the great semi-monthly poultry paper of the east, and taken in connection with Poultry Keeper makes the strongest combination to be had for the money. Offer is good for renewals as well as new subscribers. Order at once. Offer is temporary. Address,

**POULTRY KEEPER PUBLISHING CO., Quincy, Ill.**

**WOODCREST FARM,**

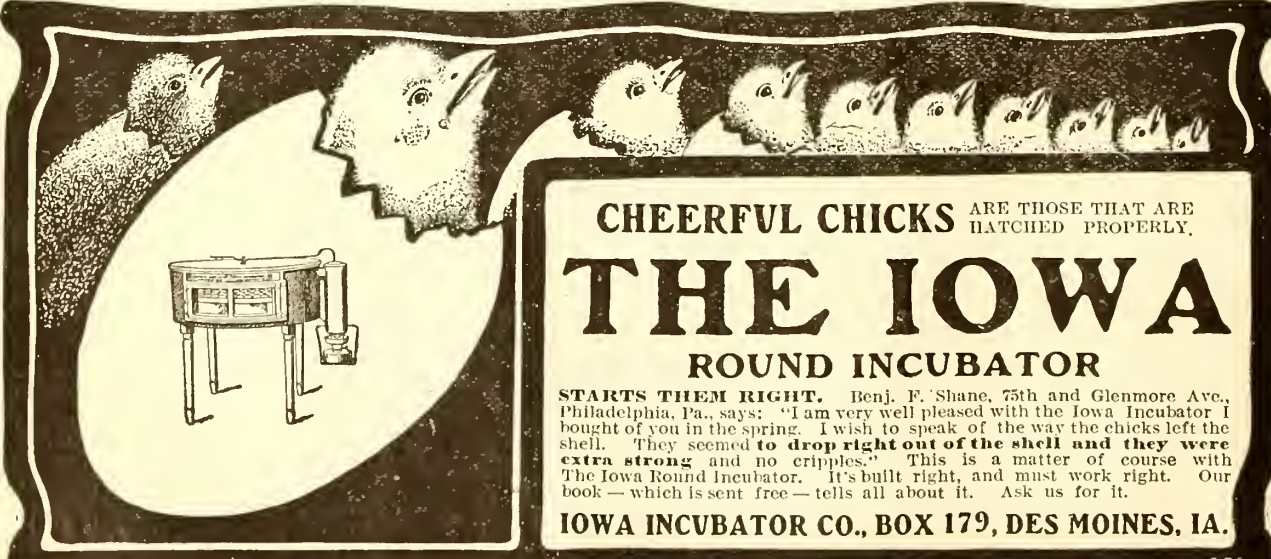
Rifton, Ulster Co, New York.

**B. P. Rocks, White Wyandottes and Light Brahmas.**

The Woodcrest strain of Barred P. Rocks, White Wyandottes and Light Brahmas are winners wherever shown. At Mattaewan, N. Y., Dec. 1902, winning all first and second prizes on Barred P. Rocks; also the Col. Thomas W. Bradley \$50 Challenge Cup for best exhibit Wyandottes, all varieties competing. At the Madison Square Garden Show, 3d Light Brahma cock; also American Light Brahma Club Cup.

At the Schenectady, N. Y. Show, all firsts on Light Brahmas. Our matings for 1903 are stronger and better than ever before. Eggs, \$2 per 15; \$5 per 45. Stock for sale. Please mention P. Keeper.

**A. S. CHASE, Manager.**



**CHEERFUL CHICKS** ARE THOSE THAT ARE HATCHED PROPERLY.

**THE IOWA**

**ROUND INCUBATOR**

**STARTS THEM RIGHT.** Benj. F. Shane, 75th and Glenmore Ave., Philadelphia, Pa., says: "I am very well pleased with the Iowa Incubator I bought of you in the spring. I wish to speak of the way the chicks left the shell. They seemed to drop right out of the shell and they were extra strong and no cripples." This is a matter of course with The Iowa Round Incubator. It's bullt right, and must work right. Our book — which is sent free — tells all about it. Ask us for it.

**IOWA INCUBATOR CO., BOX 179, DES MOINES, IA.**



**The Ideal Brooder.**

Some of the special advantages of this brooder are, that it is thoroughly heated and ventilated; that every part (including lamp chamber) is easy to get to for any purpose; that it rests flat on the ground and, hence, has no inclines; that it has no drums to take up floor space; and the chicks will not crowd in it; and that its large size proves that its capacity is under-rated rather than exaggerated. The manufacturers, the Ideal Brooder Co., Glencarlyn, Va., will take pleasure in mailing their booklet to all P. K. readers. See ad on page 43.

S. T. Campbell, Mansfield, Ohio, R. C. Black Minorca specialist, has a new and attractive book, describing his birds and showing half-tone illustrations. P. K. readers may have copy on request.

Special attention of those who ship eggs for hatching is called to the shipping basket made by the Burlington Basket Co., Burlington, Iowa. See ad on page 2. The cost of these baskets is but a trifle and they afford absolute protection to the eggs. Prices are only 40, 45 and 50c per dozen. Try a dozen and see how convenient they are.

Mrs. W. B. Chandler, Bourbon, Ill., who has a special sale of eggs for hatching (Light Brahmas) writes under date of April 5: "I have 175 young Brahmas to claim my care and 350 eggs incubating. My eggs never hatched better. Out of 185 fertile eggs I got 150 chicks, which I consider fine." The reduced price Mrs. Chandler makes in her ad (see page 34) is a rare bargain. Order direct from this ad and we can promise you will get your money's worth.

**EGGS—S. C. W. LEGHORNS—**You want high scores, great layers and warranted hatchable eggs. I offer them. Write me. 4-  
**H. C. BEEBE, Banner III.**

Send for Catalogue.



**TRY IT FIRST FOR 30 DAYS**  
That's the way we sell our  
**SUCCESS BROODER \$4.50-**  
If not satisfactory in every way send it back.

**AMERICAN BROODER CO., Box 12, RACINE, WIS.**

**SYSTEM IN POULTRY PRACTICE. BY JAMES SHACKLETON.**

A book with over 100 pages of subjects, and a few illustrations. Contains all copyrighted articles in AMERICAN POULTRY JOURNAL during 1902, each revised to latest experience. Many articles, hitherto unpublished, have been added.

**READY NOW.**

Sales are increasing daily. Most so far, are to readers of A. P. J. who, generally, say they read original articles, and have profited remarkably from them. Everyone must see that no finer endorsement is possible. Sales are to lawyers, physicians, parsons, business men, business poultry keepers, and "plain" people. I want them all, but "plain people" I want most. If I get their trust once I shall retain forever the confidence of everyone that "means business." If I could meet every poultry keeper, explain how every suggestion results from mixing a little science with much experience and keenest unerring observation, checking, positively and negatively, again and again, until I know that what is claimed true is as true as the multiplication table, THERE WOULD NOT BE ONE DOUBTER LEFT, and everyone would buy the book whenever he has the price.

Its cost can be saved in extra profit: in a day, or a week, or a month, according to number of fowls kept. In a month with only six fowls. In a week, with one hatch. In a day, with several hatches. Every day, on a moderate plant, at all seasons.

**THIS BOOK TELLS**

How to abolish all hit or miss methods with poultry. Brings all things into an orderly system. Shows how anybody can induce maximum laying of hens, without exhaustion or degeneracy. Tells how to get all Autumn, Winter, Spring and Summer eggs the birds can lay WITH THE FOODS YOU HAVE.

**DESCRIPTIVE BOOKLET ON RECEIPT OF STAMP. PRICE 80c POSTPAID.**

—BY—


**JAMES SHACKLETON, SHORT HILLS, NEW JERSEY.**

Remit by P. O. or Exp. Money Order. Mention P. K.

**S. C. BUFF ORPINGTONS EXCLUSIVELY**

The best general purpose fowl on earth. Eggs, \$3 per 15; \$5 per 30, or \$9 per 60. I keep only high-class stock. (Cook strain.)

**CHAS. J. MINNS, Box D, MILLINGTON, MICHIGAN.**  
Member U. B. O. Club. 3-12



**BANNER ROUP... CURE...**  
is guaranteed to cure Roup and Colds in Poultry and Canker in Pigeons. It is simply put in the drinking water and they take their own medicine. Prices 50c and \$1.00 per box postpaid. 50c box makes 25 gallons and the \$1.00 box makes 75 gallons of medicine. Our Immense Catalogue FREE. Send for one.

**Excelsior Wire and Poultry Supply Co.,** 26 and 28 Vesey St., New York City, Dept. K. W. V. RUSS, Prop.

**THE REAL THING**

McClave's matchless prize winning White, Golden and Silver Wyandottes, Barred and White Rocks, White and Brown Leghorns, Black Hamburgs, Light Brahmas, Langshans, R. C. B. Bants, big Bronze, White and Narraganset Turkeys, all standard varieties of Geese and Ducks and Scotch Collie Shepherd Dogs. Finest collection of these varieties in America. More first prizes on our birds at Pan-American, Pittsburg, Chicago, Columbus, Cambridge and Akron than any other exhibitor. 512 prizes won at six shows. More than 1000 choice birds for sale. Prices reasonable; best quality; prompt service; low express rates; satisfied buyers; largest practical poultry farm in Ohio. Over a quarter of a century of successful operation. Write,

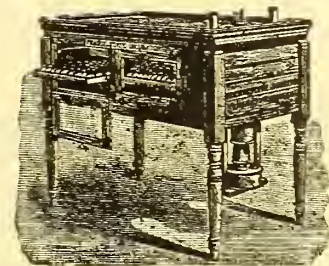
**CHAS. McCLAVE, Box 700, New London, O.**



**THIS SHIPPING BOX**  
Used by the largest shippers of eggs.  
1 set size, \$1.20 } per  
2 set size, 1.55 } dozen  
3 set size, 1.90 }  
Discount on 100 or more.  
Catalogue free if you mention P. K.

**J. T. & E. B. BURNS, Milford, N. H.**

**The Reason Prairie State Incubators & Brooders**



Are used exclusively on the largest poultry and duck farms in this country as well as abroad; by the U. S. Government exclusively on its experimental farm at Washington, and by all the enterprising poultrymen in foreign countries, is because they ARE THE BEST. This is the reason they have won more than 350 first prizes in America alone. We have issued a condensed catalogue for general distribution which will be sent free on application. Our large 152 page catalogue, just out, is the finest piece of catalogue work ever put out by an incubator concern. But its chief claim to consideration is that it is helpful and useful. We will send a copy of it on request for issue "T." Send to nearest agent or to home office.

**PRAIRIE STATE INCUBATOR COMPANY, - - Homer City, Pa.**

- New York, N. Y., 28 Vesey St.
- Phila., Pa., 714 Chestnut St.
- Columbus, O., 114 N. High St.
- Indianapolis, Ind., 150 N. Delaware St.
- Chicago, Ill., 86 Randolph St.
- Minneapolis, Minn., 32 Hennepin Ave.
- Cincinnati, O., 141 W. 6th St.
- Denver, Colo., 1519 Wazee St.
- Boston, Mass., 47 N. Market St.
- Norfolk, Va., 38 Union St.
- Cleveland, O., 147 Ontario St.
- Ayers, Henry & Co., Sidney, N. S. W., Perth, W. A. S., Auckland, N. Z., Melbourne, Vic.
- Robt. A. Colt, Ltd., 8 and 9 Chiswell St., London, E. C., Eng.
- Jean Heybroek, Baarn, near Amsterdam, Holland.
- Sebastian de la Torre, Orellana, 10, 3, Izqda, Madrid, Spain.
- V. Duperray, Maulette, par Houdan, (Seine-et-Oise) Maulette, France.
- Indianapolis, Ind., No. 227 W. Washington, St.
- Detroit, Mich., 544 Michigan Ave.
- Dallas, Texas, 439 Cole Ave.
- Louisville, Ky., 400 E. Main St.
- Toronto, Ont., Can., 190 Venge St.
- Baltimore, Md., 205 N. Paca St.
- Little Rock, Ark., 431 E. Markham St.
- Washington, D. C., 712 12th St., N. W.
- Seattle, Wash., Main & Jackson Sts.
- Smyrna, Ga., Belmont Farms.
- Buffalo, N. Y., 65 Ellicott St.
- Pittsburg, Pa., 5 Union St.
- Stephen King & Co., Durban, Natal.
- Paul M. Stork, Hanover, Germany.



**"The Best Chicken Brooder."**

From the Old Homestead Brooder Co., we received the following, it being part of an article that appeared in the March 9th issue of the U. S. Trade Reports: "We give our unqualified and unsolicited endorsement to the Old Homestead Brooder as being the best and latest improved brooder on the market. It is the only brooder that will take care of the little chickens until they are twelve weeks old, and it raises a larger percentage of chickens than does any other device of its class. These are absolute facts which have been clearly demonstrated in actual tests made by those who conduct large poultry farms. We have before us now letters from several owners of such farms who, in reply to our query addressed to them as to what make of chicken brooder they have found by actual experience to be the best and most efficient, state that the Old Homestead Brooder excels all other makes in design, construction and results attained. The new aluminum lamp which they have invented and added to the brooder makes it simply perfect."

The ad of this brooder will be found on page 2. Their catalogue is free to those who name P. K. when writing.

We believe a number, of P. K. readers will be interested in a recent letter we received from Mr. Hutchinson Southgate, formerly of Good Ground, N. Y., known on account of his Black Langshans. Mr. Southgate is now located at West Philadelphia, Pa. He desires us to state that he can make no shipments of stock or eggs this year and that when he is able to start again with the "Lordly Langshan," he will inform his old friends through an ad in P. K.

**"This for That"** Trade anything you have for anything you want. Get our gigantic paper that prints thousands of exchange ads. 6 mo. trial subscription 10 cts. Your money back cheerfully if you are not delighted. Address: **THIS FOR THAT, 1609, Star Bldg., Chicago.**

**HAXTON'S  
DUSTON STRAIN  
WHITE  
WYANDOTTES**

Three grand pens headed by **PURE STAY WHITE** males. No. 1, cockerel, winner of 1st Schenectady and 3d Rochester, 1903, mated to Duston hen, winner 2d Batavia, 1902, four hens from Duston and four pullets bred from 1st pen at Boston, 1902. Eggs, \$2, 15; \$3.50, 30; \$5.50, 50.

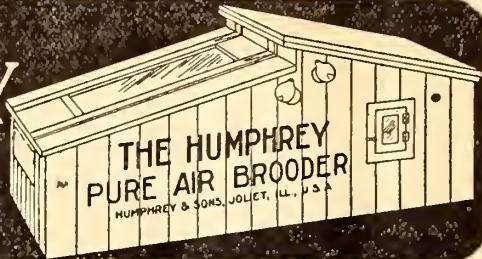
Pen No. 2: Headed by cockerel from Duston. A pure white bird, fine head and comb, excellent carriage, mated to pullet and hens from Duston with pullets bred from 1st Boston, 1902 pen. Eggs \$1.50, 15; \$2.50, 30; \$4 for 50.

Pen No. 3: Pullet mating headed by cock bird used by Duston last year. A pure stay white bird and fine pullets. Eggs \$1.50, 15; \$2.50, 30; \$4 for 50.

Incubator Eggs, \$6 per 100; 75 per cent fertility guaranteed. Circular free.

G. Sherwin Haxton, Box 364, Oakfield, N. Y.

**THE  
HUMPHREY  
PURE AIR  
BROODER**

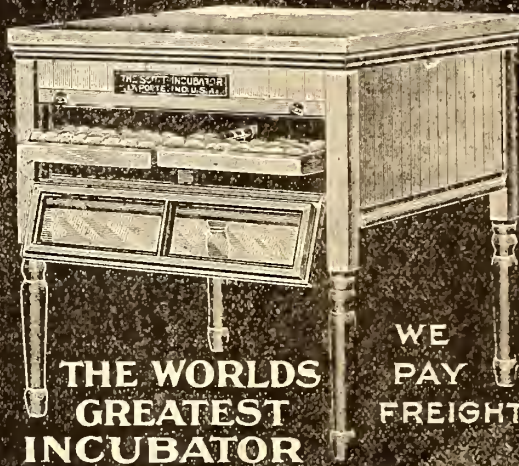


**Don't Let Your Chicks Die.**

You can raise them all in a **Humphrey Pure Air Brooder**—the latest invention for raising chicks. It is entirely automatic, requiring little attention. It is easily kept clean and its practical system of ventilation and distribution of heat is perfect. A great saver of oil. If you want to raise your chicks it will pay you to send for catalogue.

**HUMPHREY & SONS, Box 26, Joliet, Illinois.**  
Manufacturers of Humphrey Green Bone Cutters, Clover Cutters, etc.

**30 DAYS FREE TRIAL**



**THE WORLDS  
GREATEST  
INCUBATOR**

**WE  
PAY  
FREIGHT**

LAPORTE, IND., NOV. 15, 1902.

O. P. SCOTT, Manfr. Incubators and Brooders:

Dear Sir:—I am pleased to state that out of 100 eggs placed in your Incubator, No. 2, I received 86 fine healthy chicks.

I am yours truly,

W. A. BANKS, P. M.

**NOTE:—  
OUR AUTOMATIC REGULATOR IS BENEATH THE TOP,  
A NEW FEATURE. CATALOGUE FREE.  
O. P. SCOTT, LAPORTE, IND., U.S.A.**

**LEE'S LICE KILLER**

is the best lice and mite destroyer for poultry. Not always least in price per gallon but always cheapest in the end, easiest obtained and most uniform in quality. Others may smell the same and look the same, but—well, read the following letters:

**Ahead of All Others**

"I have used your Lee's Lice Killer for two years, but last year I thought I would try some other kind, and I found out that Lee's Lice Killer is ahead of all other lice killers."

W. SEIDELL  
Elroy, Ill.

**Tried Six Kinds**

"Lee's Lice Killer does the work to perfection and is without doubt the best Lice Killer on the market. It is at least the best I ever used, and I have tried six other would-be lice killers this season. Have also used Lee's Egg-Maker, and can say that it does all you claim for it."

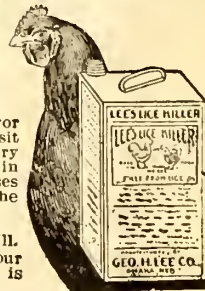
FRANK LAHGOR,  
Columbia City, Ind.

**Sells Another—Uses Lee's**

"I must tell you another thing in favor of Lee's Lice Killer. I had a man visit me today and he is agent for a poultry supply house, also selling a lice killer in the line handled. Yet he says he uses Lee's Lice Killer himself, and said he never knew anything to equal it."

THEO. M. MAGERS,  
Altamont, Ill.

Send for Catalogue, Calendar, Egg Record and poultry pointers for 1903, also list of our principal agencies—over 3000 cities and towns where Lee's Lice Killer and Lee's Egg Maker is sold. Write today.  
**GEO. H. LEE CO., OMAHA, NEBRASKA**





ROOSEVELT'S IDEA OF THE AMERICAN CITIZEN.



One of Roosevelt's ideals is Euclid N. Cobb, the father of the above family, and known as "Buff Jersey." Mr. Cobb is a writer and speaker on subjects pertaining to up-to-date farm, dairy and stock breeding methods. He is now filling his second term as president of his county's Farmers' Institute, and this spring he was re-elected as director of the Fourteenth Congressional District of Farmers' Institutes. He has for the past four years been a member of the State Corps of Institute speakers. Last fall at the annual meeting in Springfield of the State Jersey Cattle Club, Mr. Cobb was chosen president.

Mr. Cobb's greatest pride is his family of boys and girls. They are all members of Cedar Hill Agricultural College and have used Reliable Incubators since the time the group only numbered six. Mr. Cobb says, "My opportunities for testing the merits of different makes of incubators have been better perhaps than any other person outside of the State Experiment Stations, because for some years I was engaged in equipping poultry and dairy farms in several states of wide climatic conditions—for example, South Dakota, Texas, Illinois, Tennessee, Colorado, Missouri and several intermediate states. I have always found Reliable Incubators were "Reliable" if properly handled. The most frequent cause for failure is infertile eggs. People who buy an incubator of, say 200-egg size, do not realize that they have an entirely different proposition than two or three sittings of eggs for their hens. Ten of my family are capable of running our incubators and brooder houses."

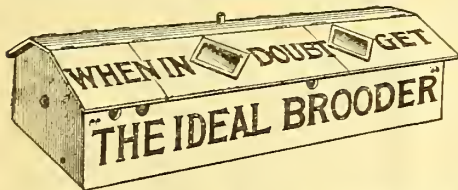
For complete Reliable Catalogue giving full information about incubators, brooders, poultry and poultry supplies, address, Reliable Incubator and Brooder Co., Box A15, Quincy, Ill., U. S. A.

**R. I. Reds, White Wyandottes**

Eggs, best matings, \$2 per 13; \$5 per 40. Stock that wins in hottest competition

Top notch for eggs and poultry.

W. P. WESTON, Elmside Farm, Box K, Hancock, N. H.



BOOKLET

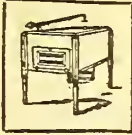
"The Brooder with Advantages"

Free upon mention of this paper.

THE IDEAL BROODER COMPANY, Glencaryn, Va.

*The Shining Light*  
among Incubators  
is the

**STAR**



FOSTORIA, OHIO, Feb. 17, 1901.

GENTLEMEN:—Having run six different incubators in the past seven years, I can honestly say the STAR is by far the best of any, in fact I don't see how it can be improved. It never hatched less than 86% per cent. of eggs, and as high as 98 per cent. good strong chicks. No one will be disappointed in the STAR. You may refer to me at any time. The STARS are my kind of hatchers. U. E. LOY.

If you keep poultry you should see our catalogue of Incubators, Brooders and Supplies. Your address on Post Card will bring it, free.

STAR INCUBATOR & BROODER CO., Bound Brook, N. J.  
New York Salesroom, 216 Fulton St., Chicago Salesroom, Room 69, 161 Randolph St.

**WHEN** I first introduced Plymouth Rocks in 1868, I said they were a money making fowl. When I first introduced Dark Brahmas same year I said they were a money making fowl. When I introduced Orpingtons fifteen years ago, said they were a money making fowl. When as one of the early men in introducing Partridge Wyandottes, I said they were a money making fowl. When a few years ago I began to introduce Silver Penciled Wyandottes, I said they were a money making fowl. When after 20 years of careful selection I introduced a breed of White Leghorns that lay big eggs and big fowl, I say they are money-making fowls. When I introduced Sicilian Butter-cups, I say they are money-making fowl. I have tried, tested, etc., many, many kinds. All men who bred the above when first introduced made money, there must be money earning qualities to do it. Free picture and historical circular of Loring's strains, 45 years breeder of profit poultry. C. Carlos Loring, Plymouth, or Dedham, Mass;

**WHITE WYANDOTTES**

Choice hens Mated to large, vigorous, Pure White males. \$1, 13 eggs. Prize premium stock, \$2 sitting. 45 Stock for sale. 4-1

Henry M. Hacker, Lynn, Mass.

**Stearns** New Model No. 7  
**Bone Cutter**  
is admittedly the best. Only one that cuts fine enough for chicks. No splinters nor chunks. Ball bearings; automatic feed.  
**YOUR MONEY BACK IF NOT SATISFACTORY.**  
Send for free book and special trial offer.  
**E. C. STEARNS & CO.,**  
Box 48, Syracuse, N. Y.

**EGGS**

From 21 of the best and most popular varieties of chickens, ducks, geese and turkeys. We have the best stock that can be selected. It is the progeny of the best birds we could buy. Every pen has ample range assuring fertile eggs. Send 10 cents for our World's Greatest Poultry Book illustrated in colors. Tells how to breed, feed and mate poultry for money-making and entire success. This book is worth dollars to any poultry owner.

Iowa Poultry Co., No. 708, Des Moines, Iowa

**de Wolf Farm,**

Papposesquaw, Bristol, R. I.

Formerly Samuel Cushman & Co.,

Standard Bred Rhode Island Reds,  
Single Comb and Pea Comb.

Eggs, \$3 per 15; \$5 per 30; \$12 per 100. From two small pens, headed by Madison Square winners, 1903. Rose and Single Comb a limited number —\$7 for 15. Geese, Embden, Toulouse and White China Eggs. M. de W. Mudge

**Fifty Successful Poultry Men,**

each the best in his line in America, constitute the faculty of the

**American Poultry Institute.**

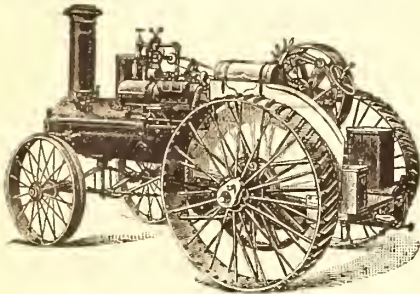
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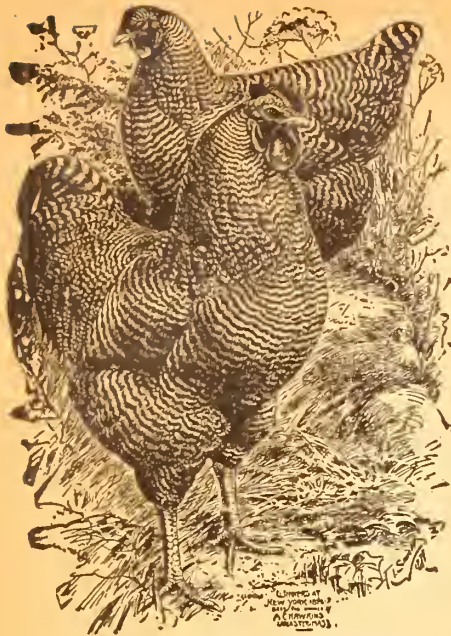
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Vol. XX.

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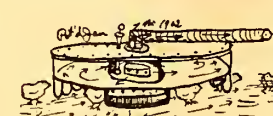
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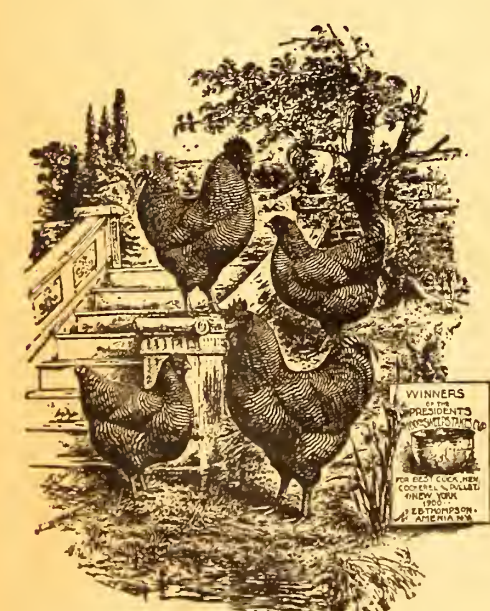


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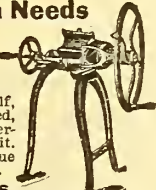
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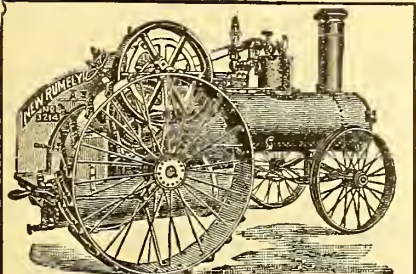
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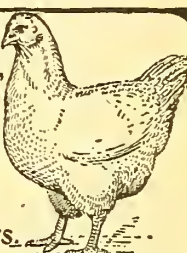
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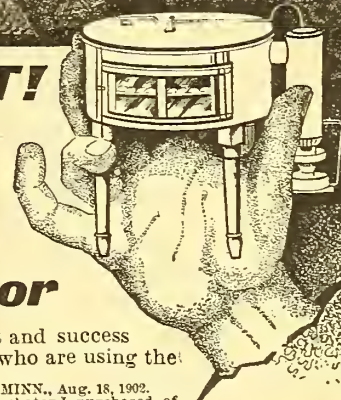


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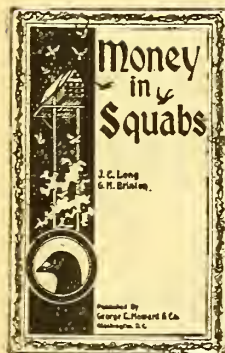
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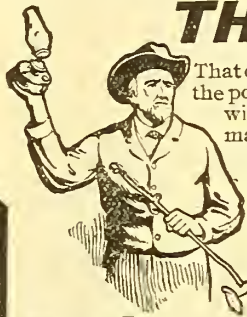
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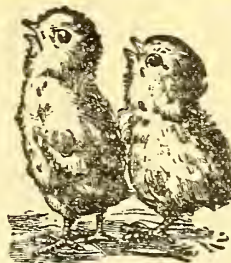
That old defective Regulator and Lamp are probably to blame for the poor work your Incubator did last year. The loss on one hatch will more than pay for our new Lamp or Regulator, which make the results of hatching a certainty, not a hazard.

They Fit any Incubator and Will Improve Its Work. THE ACME COMPOUND REGULATOR is positively the simplest and most sensitive, and is sold under a guarantee that it is absolutely perfect and far superior to any other regulator on the market. Double Disc, gives double expansion and power. Patent allowed; beware of infringements or worthless imitations.

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| <p>Double Disc<br/>Makes it<br/>Doubly<br/>Sensitive</p>  | <p>Price of Acme Compound Regulator, complete... \$2.00<br/>Price of Acme Automatic Safety Lamp, complete, \$2.50</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>We Have<br/>Hundreds of<br/>Testimonials.</p>  |
|                                                                                                                                               | <p><b>BIG REDUCTION IN PRICE.</b> For a limited time only, we will send One Acme Compound Regulator, complete, for only \$1.60 One Acme Automatic Lamp, complete, for only \$2.00 BOTH IN ONE ORDER, for only \$3.00</p> <p><b>SATISFACTION GUARANTEED.</b></p> <p>We have regulators from 75 cents up, and all other goods in proportion. Write for special offer circular quoting other bargains on Incubator fixtures, etc. Complete catalogue, testimonials, etc., free on application. Write to-day and keep in touch with the newest and best things in this line.</p> <p><b>H. M. SHEER CO., Box 18, QUINCY, ILLINOIS.</b><br/>Manufacturers of Regulators, Lamps, Tanks, Poultry Markers, Leg Bands, and all Incubator supplies and specialties.</p> |                                                                                                                                        |

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Is the title of a new book edited by M. K. BOYER, editor of Farm, Garden and Poultry. It contains special articles on Feed and Care, Raising Chicks in Brooders, Raising Chicks with Brooders and Hens, General Management, Natural and Artificial Methods, Colors of Young Chicks, Time to Hatch, Diseases, Houdan Chicks, Lice, etc.

**Thirty-four Different Methods of Feeding Chicks.**

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**EGGS—S. C. W. LEGHORNS**—You want high scores, great layers and warranted hatchable eggs. I offer them. Write me  
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**DON'T SET HENS** the same old way while a 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 25,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue mailed all about and 25c Life Formula **FREE** if you write today.  
**NATURAL HEN INCUBATOR CO., B1, Columbus, Nebraska**

**PECK'S EGG FOOD**

**FEED FOR 50 HENS FOR 60 DAYS \$1 PREPAID**

Have you tried it? Why don't you? It is the cheapest feed on earth. So cheap you cannot afford to be without it. IT IS SOMETHING that your hens are looking for, but cannot find. LET US SUGGEST a trial order, others are pleased, you will be. Perhaps our booklet and egg record will interest you. IT IS FREE if you mention Poultry Keeper. 2-12

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 218 W. Mitchell St., Petoskey, Mich.

**A POULTRY COURSE FOR 50c.**

135 These figures represent results obtained by a man in Maine, who followed out the suggestions in my book, "200 Eggs a Year Per Hen—How to Get Them," given in the chapter, "The Law of Sex." 135 chicks were hatched—of these 28 were males and 107 females. The chapter on "The Law of Sex" is only one out of many in this remarkable little book. A chapter of timely interest just now is the one called "Fertile Eggs and How to Get Them." The book tells how to make one of the best trap nests ever invented; how to rear chicks; how to feed for 200 eggs a year; how to lay down eggs in the spring so that they will be perfectly fresh at Thanksgiving; and many other useful and interesting things. The book is made up of nuggets of wisdom dug out of the best rock of experience. One enthusiastic lady in Maine writes: "I place your book next to the Bible." Says Dr. Wm. R. Fisher of Swiftwater Pa.: "Nothing that I have read approaches your book in clearness of expression and fullness of detail. It has given me more information about practical points than all the rest put together." Mr. Chas. H. Dunning of Auburn, New York writes: "I follow your method of feeding and get splendid results." Price of single book, 50c; three for \$1. Liberal terms to agents. Please mention Poultry Keeper.

**EDGAR WARREN, Hampton, N. H.**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |
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| <b>\$5.00<br/>BUYS<br/>100<br/>EGGS</b> | <b>GLEN RAVEN FRUIT AND EGG FARM</b><br>From high scoring exhibition Brown and White Leghorns, Barred and White Ply. Rocks, Black Minorcas and White Wyandottes. Choice stock for sale. Four leading varieties, Strawberry plants cheap. Pit Game and Bronze Turkey Eggs 25c each. Circular free. Mention Poultry Keeper. Address,<br><b>E. W. GEER, Box 104, Farmington, Missouri. 2-12</b> | <b>\$1.25<br/>PAYS<br/>FOR ONE<br/>SITTING.</b> |
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Free upon mention of this paper.

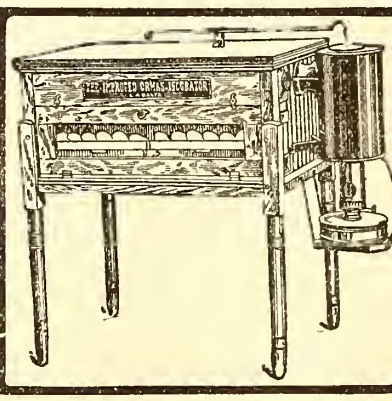
**THE IDEAL BROODER COMPANY,**  
Glencarlyn, Va.

**OUR BEST CLUBBING OFFER.**

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Farm Poultry is the great semi-monthly poultry paper of the east, and taken in connection with Poultry Keeper makes the strongest combination to be had for the money. Offer is good for renewals as well as new subscribers. Order at once. Offer is temporary. Address,

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Self Regulators, Self Ventilators, No Supplied Moisture. Made of best California Redwood. Easy to operate. Fully guaranteed. Automatic Brass Regulator Automatic Ventilation. Send for Free Catalog.

L. A. BANTA, Lionier, Ind.

# EGGS FOR HATCHING



Last season I thought the breeding yards I had mated up contained just about as good a lot of select, high-scoring birds as I could ever hope to mate, but, I must say the 20 Breeding Yards I have mated this season are far superior to those last season.

## FISHEL'S WHITE ROCKS

Poultry Farm is said to have furnished the eggs that hatched the majority of the Winners at the leading shows the world over in the

class. Now, Dear Reader, why place that egg order elsewhere when you know you can get The Results from eggs from my yards. My 36-page Catalogue is mailed you for a 2-cent stamp to pay postage. It gives half-tones of the most noted White Plymouth Rocks ever bred, gives list of winnings, describes how to feed, etc. If interested in Poultry, especially White Plymouth Rocks, you cannot well afford to be without a copy. I have something like

**1000 Selected Breeders Yet For Sale**

Cockerels fit to head any yard and birds that will stamp their winning qualities on their progeny. Fishel's White Plymouth Rocks are conceded by everyone to be

**The Best In The World**

EGGS, \$5 per 15; \$15 per 50; \$25 per 100.

**BRONZE TURKEYS.** **U. R. FISHEL, Box K, Hope, Ind.**







# "CHICKEN LIFE INSURANCE." CYPHERS CHICK FOOD

1 CHICK - 8 WEEKS - 5 CENTS.

CYPHERS CHICK FOOD is a mixture of eleven different grains and seeds, proportioned so as to meet all the needs of growing chicks and to fully nourish them. By the term "fully nourish," we mean a great deal. Chick foods, as a rule, contain too much fat forming and not enough bone forming elements, and, in consequence, the chicks develop indigestion and diarrhoea, which ultimately means no digestion at all, and the birds soon starve to death; or, if partially nourished, leg weakness develops, and they drag out a miserable existence for a few days or weeks, and then die.

**IF YOU FEED CYPHERS CHICK FOOD YOU ARE BELIEVED OF ALL CONCERN, AS THIS FOOD IS A COMPLETE AND PROPERLY BALANCED FOOD, MACHINERY MIXED AND READY FOR USE.**

**IN COMPOUNDING CYPHERS CHICK FOOD,** the protein, or flesh and muscle forming element, is maintained high, the carbohydrate or fat forming element is reduced to its proper proportion, and the ash or mineral elements are in sufficient amount to supply the needs of the rapidly growing bird. If chicks are to be developed into breeders, no other food is required for the first eight weeks.



The pair of Capons that weighed 23 pounds at six months old. Were fed Cyphers Chick Food and High Protein Beef Scraps.

## TOLD IN THEIR OWN WORDS.

"MARCH 17TH HAD MORE THAN 3,900 CHICKENS."

CYPHERS INCUBATOR Co., Buffalo, N. Y.

ASSINIPPI, MASS., March 18, 1903.

We have tried a good many chick feeds during the past fourteen years, but never found any in all that time that gave us so much satisfaction as the Cyphers Chick Food. Since adopting it we have no bowel trouble among our chicks. They start growing at once, and keep on growing, remaining strong and vigorous. At present we have more than 3,900 chickens, and they are all being raised on Cyphers Chick Food. We heartily recommend it.

Very truly yours,  
FARRAR BROS.

"FEEDING IT TO 4,000 LITTLE CHICKS."

LAKWOOD FARM COMPANY, (INCORPORATED).  
BREEDERS OF PURE-BRED POULTRY FOR EGGS, BROILERS AND ROASTERS.

LAKWOOD, N. J., March 19, 1903.

CYPHERS INCUBATOR Co., Buffalo, N. Y.

It gives us pleasure to say that we have used Cyphers Chick Food during the past year with most gratifying results. At present we have upwards of 4,000 chicks to which we are feeding it daily. They are a fine-looking lot of youngsters, and are doing well. Yours truly,  
LAKWOOD FARM Co.

WEIGHT, 23 POUNDS; AGE, 6 MONTHS.

CURTISS' POULTRY FARM,  
J H CURTISS C W CURTISS.  
BREEDERS OF UTILITY FOWL.

LIGHT BRAHMAS, WHITE AND BARREO PLYMOUTH ROCKS, WHITE WYANDOTTES, EMBDEN GEESE.

WEST NORWELL, MASS., April 13, 1903.

CYPHERS INCUBATOR Co., Buffalo, N. Y.

The two capons shown in the photograph herewith, were straight Barred Plymouth Rocks, the pair weighing, alive, 23 pounds when they were six months old. They were raised by Mr. Pratt of Hingham, this state. He hatched them in a Cyphers Incubator and fed them Cyphers Chick Food, with a little beef scrap added after they were four or five days old. There were about 80 chicks housed in a room 12 x 15 feet, with an outdoor run about 12 x 60 feet, well covered with green rye when the chicks were started.

After the chicks were four weeks old they were fed cracked corn and beef scraps, with some cracked wheat and barley. When still older they were given some whole corn. They also had cabbage and during the last three months were fed dry-cut clover every day.

Mr. Pratt keeps from 80 to 100 Barred Rock hens and raises from 300 to 400 chicks each season, and on those of last year he made more than \$1.00 per day for every day in the year, besides furnishing grain for his horse and eggs for the family use.

In this section we prefer Light Brahmas for early hatched capons, but after December 1st we use the Plymouth Rocks, the white variety preferred.

Very truly,  
J. H. CURTISS.

WE DISTRIBUTE CYPHERS CHICK FOOD IN CAR LOTS TO OUR THREE BRANCH HOUSES, AND QUOTE THE FOLLOWING PRICES:

50-POUND BAGS, . . . \$1.50      100-POUND BAGS, . . . \$2.50      500-POUND LOTS, . . . \$12.00

Special prices on ton lots. Two-ounce sample mailed free on application if you will mention this paper.

## CYPHERS HIGH PROTEIN BEEF SCRAPS.

"Animal food" is necessary for the health and proper development of poultry, but comparatively few poultry keepers are aware of the great importance of this article of diet. All know, in a general way, that fowls eat insects, bugs and worms, that these are animal food, and that, as they cannot be procured at all seasons of the year, or in sufficient quantities, some form of meat food must be supplied. For this purpose a good quality of beef scraps is unexcelled.

Cyphers High Protein Beef Scraps, as analyzed by the New York State Board of Agriculture, show 50 to 65 per cent. protein and only 10 to 15 per cent. fat. Fat has no value as a poultry food, protein being the essential element. Cheap scraps mean cheap material, low feeding value and goods which if fed to chicks or ducklings may cause exceedingly harmful results. A trial will convince you of the superiority of the Cyphers Brand.

ORDER FROM NEAREST OFFICE, THUS  
SAVING TIME ON DELIVERY.

PRICES OF CYPHERS HIGH PROTEIN BEEF SCRAPS.

(F. O. B. CHICAGO, BUFFALO, NEW YORK, OR BOSTON)

50 POUNDS, . . . \$1.50      100 POUNDS, . . . \$2.50

Special prices on larger quantities. Two-ounce sample package mailed free for the asking.

## CYPHERS INCUBATOR COMPANY,

BUFFALO, NEW YORK,  
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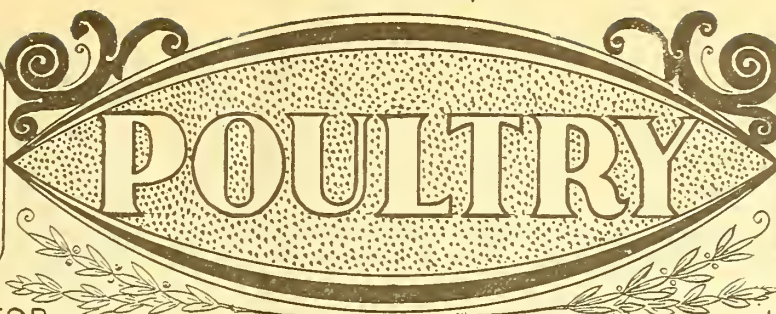
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# THE



A JOURNAL FOR  
EVERYONE  
INTERESTED

# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, MAY 15, 1903

No. 2.

## A ONE-MAN POULTRY PLANT FOR A CITY LOT.

**Practical Plant That Can be Made to Net its Owner \$1200 to \$1500 per Year—Complete Plans for Material, Construction and Fowls for Stock—Not Speculation, But Account of What a Chicago Man Has Done.**

By D. D. Cavanaugh, 5903 Wentworth Ave., Chicago, Ill.

**H**EREWITH please find plans for a four lot poultry plant where 396 head of fowls can be kept with little care and a good profit. A plant of this size and style, if built in or near a large city like Chicago, would make its owner one thousand dollars per year clear profit at least. 360 hens will produce at least 3,600 dozen eggs each season; in fact, a hen properly fed and cared for would be ashamed to lay less than 144 eggs a season. We have Cochins that

laid an average of 153 eggs; Leghorns averaged 164; Rocks, 157 eggs a season, confined on a city lot. Eggs in the fall and winter bring from thirty to sixty cents per dozen. In the summer strictly fresh eggs bring thirty cents per dozen. The demand for fresh eggs at the prices I have named far exceeds the supply.

### Economy of Space.

Most writers claim that one hundred hens should have about an acre of land in order to do well. I have noticed that

these hens that have such a lot of land are the ones that their owners claim do not pay. A pen six feet wide by ten feet long is ample room for a family of ten hens and one male. In the winter months the flock has plenty of working room and a house built not over six feet high at the highest point, four feet at the lowest, is very easy to keep warm from the animal heat from the fowls. A floorless house built six inches above the ground level and then filled in so that the ground inside the house is six inches higher than the ground outside will also help to keep the house warm and dry in winter, and the fowls prefer the earth to board floors.

### The Walls and the Windows.

Most poultry houses have too many windows. In the summer a large window attracts the heat, and in winter the cold and moisture. I have found from experience that a window 24x24 inches will furnish plenty of light for a pen 10x15 feet with plenty to spare. For a



Two high scoring White Wyandottes from the yards of J. C. Fishel & Son, Hope, Indiana, White Wyandotte specialists. The cock scores 95 1/4 points and the hen 96 1/4 points. The half tone shows the large size, soft, stay-white plumage and correct shape of these birds. To keep their stock up to the highest grade Messrs. Fishel & Son recently paid \$540 for a bunch of White Wyandottes, buying them from a breeder whose stock is unsurpassed in excellence and utility.







rear, 30 feet long by ten feet wide, and had no frosted combs or moist house; no floors except the earth. His lot is 25x40 feet.

**Cost of Feeding Stuffs.**

It costs me no more to feed a hen in Chicago than it would in the country. Bran can be bought at \$15 per ton; middlings at \$17 per ton; corn, wheat and oats can be bought cheap enough in large lots. Green food, bones and scraps can be got free for the asking from the hotels and restaurants and there is no better food for making the hens lay than

is that by slanting the roofs away from the runs the rain will be carried away instead of in the yards. As the houses are not very long (108 feet) there is no need of an alley or walk. A gate hung so that it will swing both ways between each pen is plenty handy enough for any man. The nests can be hung against the front wall of the house, one on each side of windows. (See Fig. 5). I have found that the lower the house the easier it is to keep warm in winter and the more eggs the hens lay. On a small plant such things as alleys and walks in

|                   |          |
|-------------------|----------|
| Bone cutter ..... | 20.00    |
|                   | \$426.00 |

Twenty-five Leghorns and twenty-five Plymouth Rocks would keep two 240 egg incubators going and when the chicks hatch, let the wife attend to them while the man works at his trade or something else to pay expenses until the plant be stocked full and the hens laying. Then the man could take hold and keep the place clean and the fowls healthy, etc., while the wife could act as cashier and banker. One man can attend to this plant and have time to spare. Four hundred handfuls of grain each afternoon about three o'clock, thrown into the straw in the yards or pens, and the same number of handfuls of soft feed dropped into pans or troughs each morning about seven o'clock; fresh water every noon in thirty-six drinking vessels; gather the eggs about dark; should be the order of feeding and egg gathering. Mill screenings (pieces of wheat and seeds, cleanings from flour mills) make fine scratching materials. Straw is cheap. Use plenty of it in the runs and houses to keep the flock working. The plant should pay from the start if the owner stocked it with two or three hundred head of fowls. Good chickens are worth from \$1 to \$1.50 each, and when a party starts his plant about the first of February or March he should have little trouble to keep his stock healthy and laying.

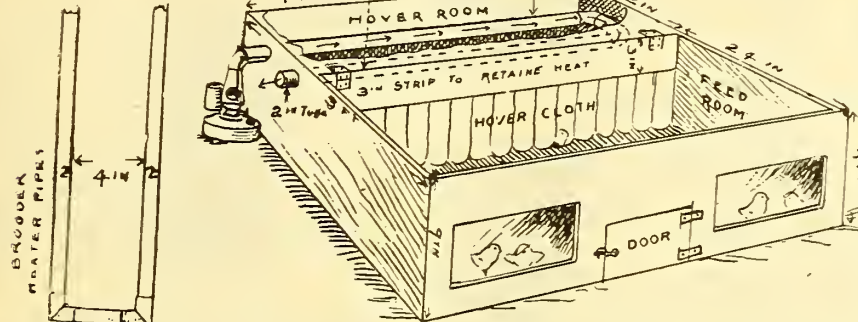


FIG 3—Brooder Plan for Indoor use. Pipes to Fasten one inch from ceiling, six inches from floor inside the hover room.

waste from the table. Care should be taken that it is always fresh and clean. Sour feed is injurious. All table scraps are made eatable by running them through a green bone cutter. I mention the table scraps and where to get them for the reason that they save one-half the food expenses for the fowls, which is quite a saving.

**Earning Capacity.**

Such a plant as here described, stocked with pure bred poultry, such as Leghorns, White and Brown, or Buff, Barred and White Rocks or Wyandottes would make the owner a clear profit of \$1,200 to \$1,500 per year with but little effort. The demand for eggs for hatching in season at a reasonable price, say \$5 per hundred and \$1 per single sitting, would bring the profits up fifty to seventy-five per cent higher than if the plant were stocked with common barnyard fowls. My plan shows besides the two 108 foot laying houses, a brooder house, 8x10, equipped with four brooders of one hundred chick capacity each, and a roosting shed at rear of lot for young stock after they are too old for brooders. Besides this we have quite a bit of ground for outdoor brooders on both sides of the dwelling.

In figuring the price of lumber and building materials, will mention that I have quoted all the lumber at \$20 per thousand. The 2x4 can be bought for \$17 and \$18 per thousand. The strips (1x2) can be bought for \$15 per thousand. Windows and sash can be bought of wrecking companies at as low as 15 cents per square foot second hand, glass and all. A plant of the kind described and planned should be located if possible on a street car line and a special policeman employed to keep the customers in line.

The reason we have shown the high part of the laying houses for the front

the laying house are only an extra expense and take up valuable room.

**Money Outlay Required.**

I have shown a plan of a plant that can be built at the small cost of \$300 for poultry houses, runs, etc, to house 400 fowls. There are lots of small houses in and on the outskirts of Chicago which have plenty of vacant land and can be rented cheap. A cottage of five and six rooms in the suburbs rents for from \$6 to \$10 per month; vacant lots can be got for paying the taxes on them. A man who has \$500 capital can commence busi-

**Supply and Demand.**

The poultry business will never be overdone and the demand for fresh eggs at a good figure will be always. Young chicks (broilers and spring chickens) bring a good price in Chicago between the first of February and first of July. One and one-half to one and three-fourths pound chickens bring from \$6 to \$12 per dozen, and young roasters also bring a nice price. On a plant as herewith described the owner should start his incubators about the first of

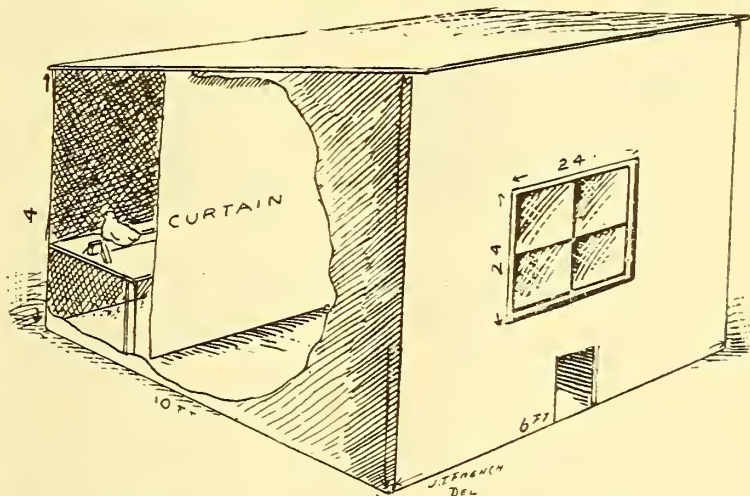


FIG 4—Drop curtain from ceiling to protect fowls on roosts on cold nights. Curtain is made to roll up and out of the way in the day time.

|                             |          |
|-----------------------------|----------|
| Improvements cost .....     | \$300.00 |
| Two 240 egg incubators..... | 36.00    |
| Fifty hens @ \$1.....       | 50.00    |
| Brooders, etc .....         | 20.00    |

March for layers and force his chicks to grow and they will be fine layers in the fall and winter. It is always a good plan to sell the old birds when they commence to molt or stop laying. Eggs that will hatch, but from common fowls, can



be bought cheap in the early spring from the farmers and a machine load or so can be hatched to sell as springs or roasters in the summer and fall.

**Standby Rules to Govern Working.**

A few good rules to go by are: Do not overload your plant, your brooders or incubators. Do not overfeed the hens. Do not bother the fowls by going among them several times a day. Gather the eggs at night. Keep plenty of litter on the floor and ground. Provide fresh water, grit and shells, charcoal, etc. Cull out the poor layers and sell them, live or dressed. In fact, learn the business; watch the fowls and see to it that they get what they need and they will do the rest.

**DON'T LOSE YOUNG TURKEYS.**

Young turkeys are tender and until about three months old they must be carefully watched. After they reach the stage known as "shooting the red" they are hardy and need but little care. No fowl demands more attention the first three months or as little afterwards as young turkeys. They really cause but three months' work, for after that time they seem able to endure all kinds of weather and exposure as well as secure their food themselves.

The first thing to do when a brood of turkeys is hatched is to examine the hen for lice. Lice come from the hen to the

chicks. Look closely on the skin of her head and neck for the large lice and anoint the head with melted lard, rubbing it well into the skin. Then dust her thoroughly with fresh insect powder (you will find the best of these powders advertised in our columns). Do the same

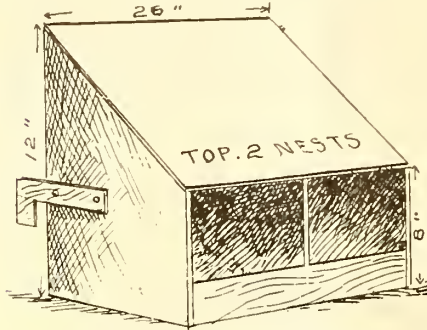


FIG. 5—Nests for Layers, to be hung on walls; one on each side of windows.

to the young turkeys and rub one drop of melted tallow on their heads. Too much grease is fatal to them.

Keep down the lice and never let the young poult get damp. You will raise nearly all by so doing, as the large majority of young turkeys die from the great head lice. Feed on hard boiled eggs, curd, bread dipped in milk, finely chopped onions, rolled oats and keep ground bone before them.

**SUNFLOWER SEEDS.**

A subscriber asks, "I should like to know the value of sunflower seed, when planted and what care should be given."

Sunflower seeds are grown four feet apart each way and cultivated like corn. The yield is from twenty to forty bushels of seed per acre. The ground must be very rich. The seeds are excellent for poultry, a pint a day, three times a week, to ten fowls, being sufficient with other food, to be used only in winter. The growing plants afford excellent shade for the growing stock during hot summer days.

That damp weather is good for ducks is an old saying, but the fact is that dampness is as fatal to ducklings as to chicks. When giving water to ducklings (and they must be liberally provided with it) the trough containing the water must be covered, leaving only openings for the bills of the ducklings. If this is not done they will get into the troughs and become wet, the result being that they are soon chilled, the poultryman finding them dead from no apparent cause. Keep them dry and warm and allow them no privileges on the water until they are well feathered.

Keep the drinking water in the shade and have the dishes arranged so the chicks cannot get into them.

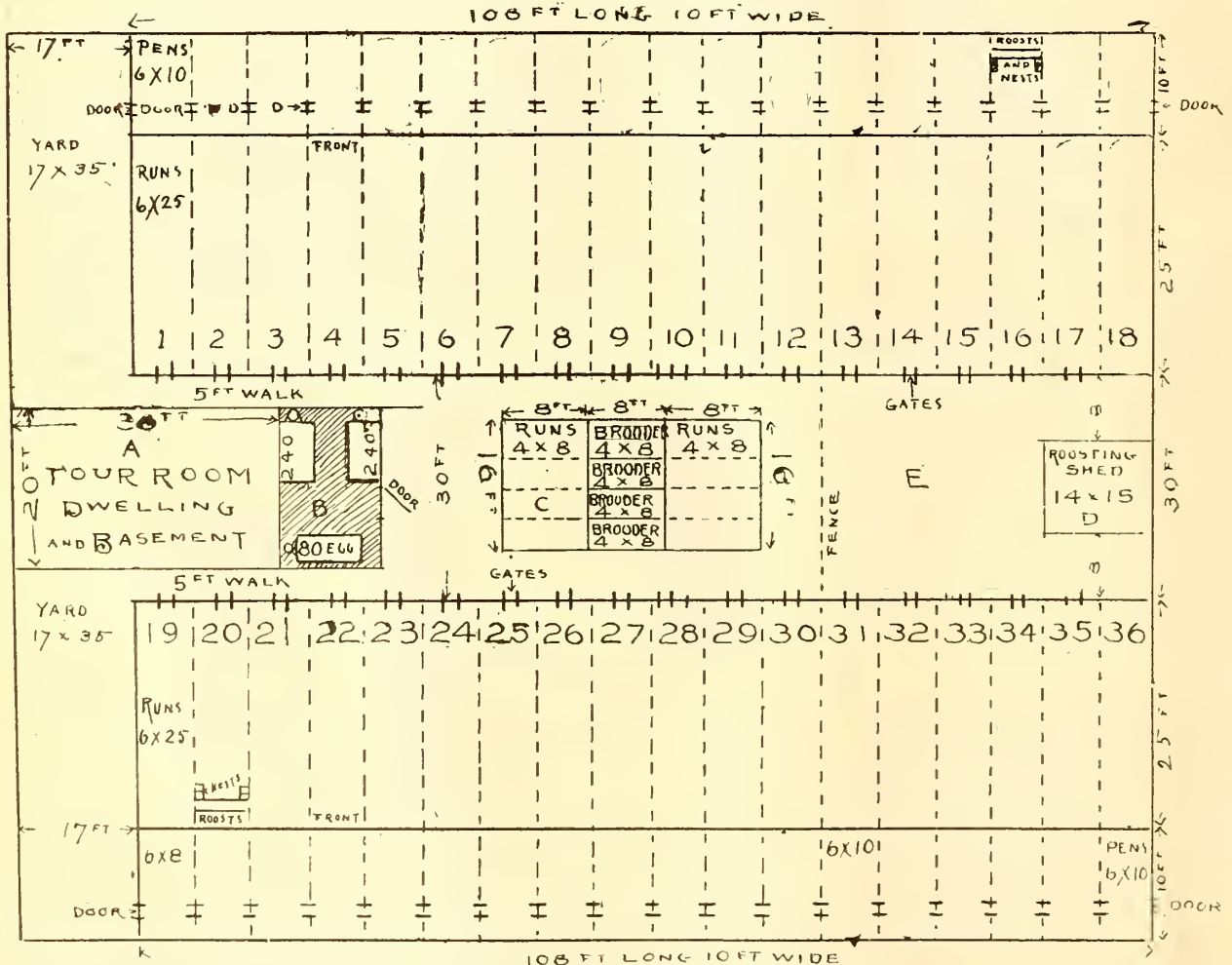


FIG 2—Ground plan of the Cavanaugh plant showing complete detail of arrangement.





THE BEST IN THE WORLD  
SCORE 96, 96, 96 1/2  
BRED AND OWNED  
By U. R. FISHEL  
HOPE, IND.

The three magnificent cock birds shown herewith typify the excellence of the "Fisbel Strain" of White Plymouth Rocks. To give the history of this strain and their winnings at leading shows would be to record one of the greatest successes ever made by a poultryman and fancier, regardless of section of country.



# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## WHAT IS A FAIR HATCH?

The Question Discussed from Both Buyer's and Seller's Standpoint.

Dr. N. W. Sanborn, Bellingham, Mass

**W**HAT is a fair hatch? This is a question that is troubling some of our subscribers this spring. Not only the buyers but the sellers of eggs for hatching are asking this question. You send three hun-

ship forty eggs to Iowa. They are received in apparent good condition, are placed under three hens, pass through the period of incubation, and at length hatch. One hen brings off three chicks, another six, and the third bird nine, eighteen chicks in all. The unhatched



Silver Laced Wyandotte Cockerel, "Prospect Chief," winner of first at Ohio State Show, Columbus, O., January, 1903, score, 93½; also first, Cleveland, December, 1901; fourth, Chicago, January, 1902; and first as cockerel, Ohio State Show, 1901, Wooster, O., owned by Earl R. Williams, Sycamore, O.

dred miles for forty eggs from birds of merit. How many chicks will satisfy your idea of a fair hatch? Twenty? You hope for more than that number, I know, but would you be glad to get twenty, and having that number make no further claim on the shipper? If you sell a sitting of eggs and only six chicks result, would you feel under any obligation to help toward another sitting?

I do not know how this question is going to be settled in years to come, but it is time that some poultrymen came to an understanding in the matter.

Let us make this a personal matter. I

eggs are mostly addled—not clear. My customer reports results according to my previous request. What am I to do in the matter? Going to my own accounts of my hatching, I find that of six hens set on eggs laid just before and after those sent to Iowa, one hen hatched eight, two hens nine chicks each, three hens ten each—fifty-six chicks from seventy-eight eggs. Surely a good hatch!

I then come to the conclusion that the eggs I sent to Iowa were all right when started and in my own hands would have hatched well. Something went wrong with the shipped eggs, either on the road

or in the hands of the buyer. I come to the conclusion that I am not responsible for the small hatch; yet I am willing to bear part of the loss. So I agree to duplicate the order for half the original cost. This plan is generally pleasing to the unsuccessful buyer of eggs. The second shipment usually hatches well. The hens are more faithful, the season is warmer, and the eggs are less likely to be either chilled or over-heated in the express car.

I long ago gave up expecting over a fifty per cent hatch from eggs that I bought at a distance. I remember buying two sittings from a breeder fifty miles away; two expresses and a mile wagon ride from the station at both ends. The man sent me thirty eggs to my satisfaction, and I gave them to three hens that had been broody for a week. I looked for twelve to twenty chicks, but when the hatch came off there were twenty-four chicks. Certainly I was pleased. It evened up an earlier experience when I got five chicks from eighteen eggs, and the three chicks raised to maturity proved to have single combs, when the breed called for rose combs. To cap the climax, the seller of these eggs said that five chicks from eighteen eggs was a fine hatch from March eggs. I did not allow my feelings to be expressed and the man has now gone to his own reward.

I expect eggs from my own birds in my own hands to average to hatch over sixty per cent through the whole season. I get as good results from March eggs as those of May. These same eggs, packed, boxed, taken to the station, subjected to the dangers of railroad travel, set in all ways and places, under all conditions of lice and mites, will hatch less chicks. It does not improve an egg to go a long journey, yet we hear of so many good hatches that it is no wonder we buy eggs at a distance so often. Most of us got our start in good poultry through buying eggs. Most men in the future will do the same. This year I have had only one complaint of poor hatches or broken eggs. Of fifteen eggs sent to Ontario six were reported completely smashed. Will the other nine hatch? Time will tell. One hundred eggs sent the same day, under same conditions, box and packing similar, went through in perfect shape.

With the dangers of egg shipping in mind it will be well to be content with a fifty per cent hatch. If you get more, pat yourself on the back and be glad. If you get less, report hatch to the seller, letting him make you an offer if he so wishes. Most poultrymen are as anxious to have you get some good chicks as you are and are willing to do more than the "right thing." However, if your sitting hens persist in roosting on the side of the box, because of the tribe of lice or red mites that are not on a strike, causing a poor hatch, do not expect any man to make up the loss. This would be imposing on good nature, to put it very mildly.

As a shipper of eggs, test your birds early and often. Know that the fertility of every pen is right. Pack in modern boxes, with good material, and ship while fresh. Expect to send out eggs that will hatch over fifty per cent and prove to be over eighty per cent fertile.

Do not ship from pens that are low in



fertility or weak in the chicks that hatch.

Do not sell eggs from pens that have been forced for winter eggs. These do not make good chicks, if indeed they hatch at all.

Lastly do the right thing by your customers even where you are under no obligations. Do not be imposed on—better suffer loss, though, than do the wrong thing.

In selling eggs, let us expect to give more than the money's worth. In buying, we will be satisfied with a moderate hatch, even though it be fifty per cent.

#### Late Hatching.

There is more late hatching done now than five years ago. It is not uncommon to see large flocks of June hatched chicks. Even July chicks that have a good shaded run make size before cold weather. The best layers I ever owned were hatched the first week in June. Many of the winning birds at Boston and New York shows, 1903, were hatched after the middle of June. Birds that get their winter feathers after the hot sun of October has passed have a better color than those that mature in early fall. These summer chicks need the best possible conditions to get them through the warm weather. Given these conditions, they grow from the start, and results are well worth working for. May and June eggs hatch finely, and the brooders need little oil to do their work. If hens are used for brooding see that lice have no place in the plant. Lice multiply so fast in the hot summer days that they must get no start at all.

Then these summer chicks must have all the fresh air possible at night. This calls for wire netting fronts to all coops and houses. Laths and boards will not do, as they shut out too much air. Then the droppings must be removed often. Red mites multiply in grand style in half dry droppings, and the smells arising from the filth is not healthy for the growing chicks.

Dr. N. W. Sanborn.

Getting summer eggs is becoming quite the thing near our eastern cities. Birds can run at large, and half their food in their ranging, and eggs during these months are increasing in price. Some men build shelters, for nights and stormy days, of rough lumber, buy cheap birds in the middle of the spring, and force for eggs. Many of these birds have done little laying through the cold months and are ready for great laying for the rest of the season. There is money in this line of poultry keeping—the cost of food is low, the price of eggs is high, and the birds will sell for the original price when ready to molt. We hear a good deal of getting winter eggs. Let us pay some attention to money making from summer eggs.

If you plan to build a poultry house this year do it during the summer season. This keeps the heavy fall rains off the ground under it and gives the lumber time to dry. A damp house from wet ground or new boards is a disease breeder. Such a house must be freely ventilated to be fairly healthy. When a house is ready for use in late August the pullets can be put into it and learn to be at home in season for fall laying.

## IMPROVED SYSTEMS OF FEEDING AND CARING FOR POULTRY.

The Owner and Manager of a Successful New York Poultry Plant  
Tells How He Cares For His Stock and What They Are Fed.

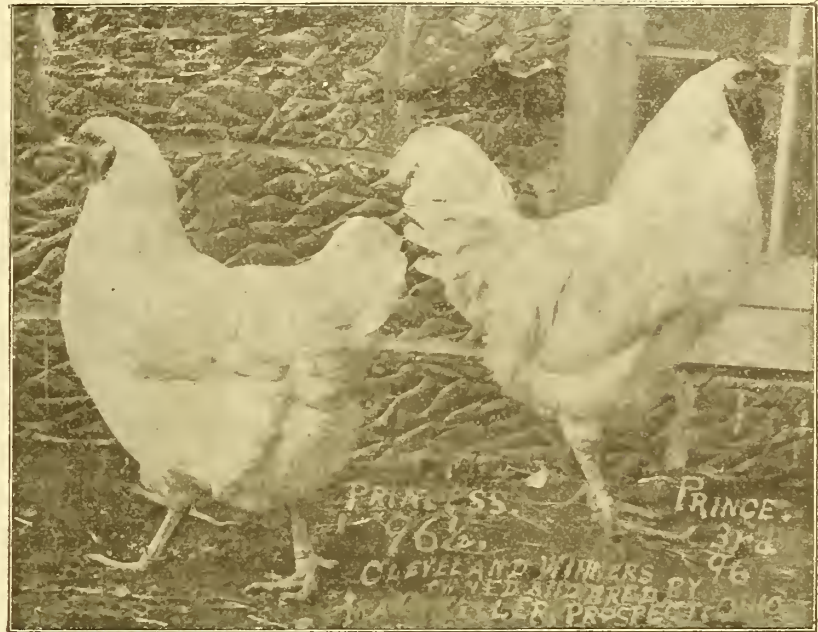
M. B. Dunbar, Lehigh Poultry Yards, Cuyler, N. Y.

**I**N the following lines it is not my intention to set forth any new rules and methods for the production of eggs and the insuring of healthy fowls and plenty of fertile eggs, although there is no doubt that the present systems of feeding can be and will be greatly improved upon in time to come. It is generally conceded at the present day that it is more in mating and breeding to produce the two hundred egg hen than in feeding.

While I do not wish to dispute this, I am of the opinion that the two hundred egg hen practically owes her existence to

tion. With suitable houses, care and feeding for each variety, there does not seem to be much difference in the production of winter eggs, providing you have good laying strains.

One of the most important things and something that is overlooked by a great many poultrymen throughout the country is lack of exercise. This is just as important as the feed or quarters. It is a fact undisputed if we are to have a good supply of eggs the year around it must be done by plenty of exercise, especially if we get eggs through the long winter months. Fowls that eat their



Pen of White Wyandotte winners at the big Cleveland show (1903), bred, owned and exhibited by Ira C. Keller, Prospect, Ohio, specialist of the different varieties of Wyandottes.

correct methods of feeding to a greater extent than most people are aware. The great cry at present is variety and it is true we must have it, but it seems to me there must be some limit to the variety. What this limit is no one can tell until he has studied his fowls from year to year. However, we have been quite successful in our methods of feeding and do not hesitate to recommend these methods to any one engaged in the poultry business.

We breed Plymouth Rocks, Leghorns and Wyandottes, which give us a type of the different varieties to study on and learn their different peculiarities. We consider it far more difficult to winter the large breeds and keep them producing eggs the year around than the Leghorns. The Leghorns of course require warmer quarters than the Rocks, and unless they have this the larger breeds far outlive them for egg produc-

tion. stand in the corner, heads under their wings, and wait for dinner, and likewise for supper, never produce many eggs. Fowls must be kept stirring from the first break of light until roosting time.

The scratching shed should contain plenty of fresh loose material in which grain can be buried deep in order that a great amount of labor may be had to get a sufficient quantity to satisfy. This should take up a greater part of the first half day. Many feed the mash in the morning. We prefer to feed at noon, with whole grain in the morning, especially in cold weather, as the fowls appear much more active. A mixture of cracked corn, whole oats and wheat make a good combination for breakfast. We feed a small handful to each fowl. Of course this is varied at times.

Our mash consists of corn or hominy meal, bran, middlings, to which are

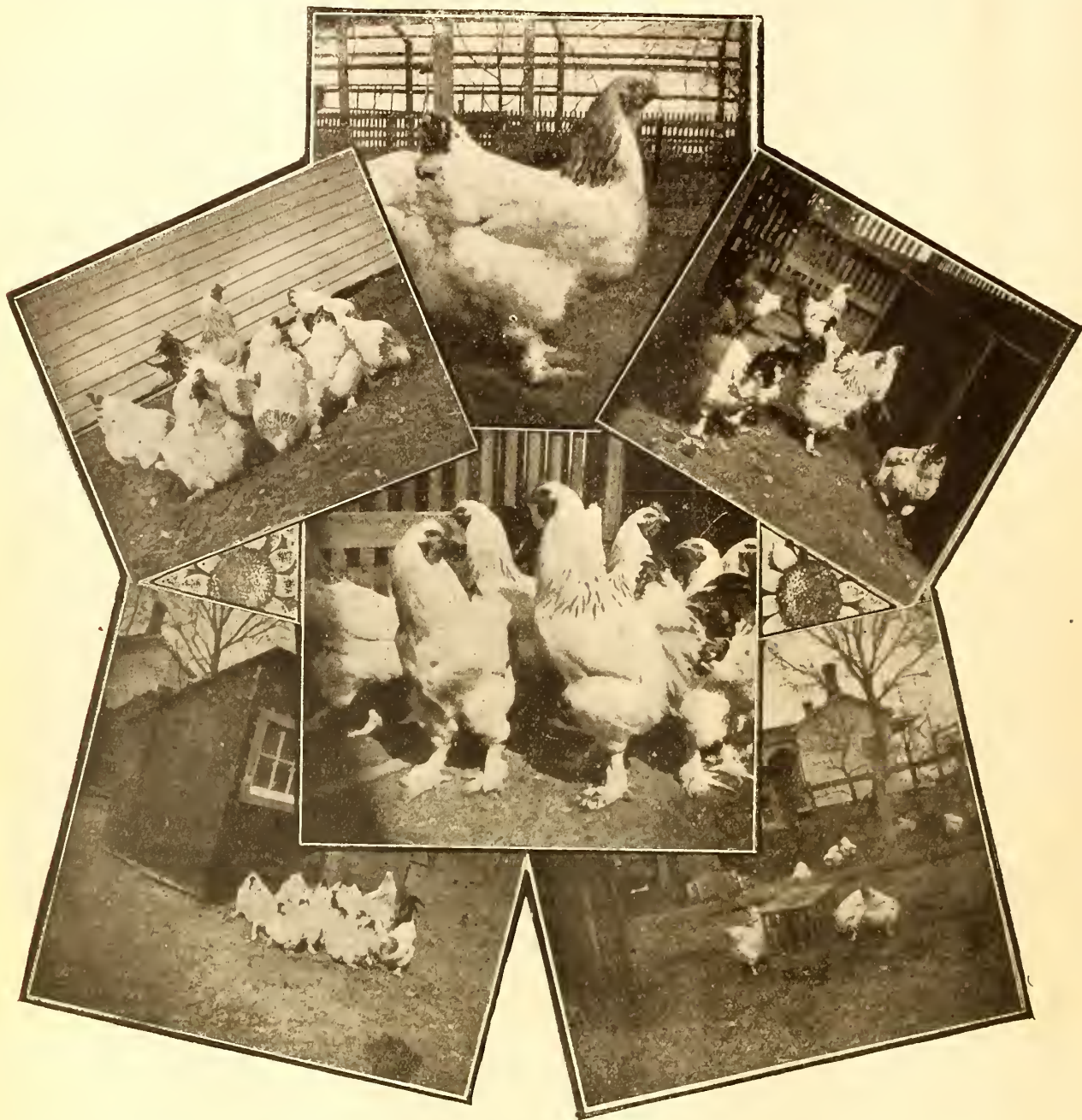


added beef scraps and all the cut clover hay they can eat up clean. We also add at times malt sprouts, gluten feed, linseed meal and a few sunflower seed. Gluten feed has given us some very good results. In looking over different feeding rations very seldom you hear of

gestible protein produce fertile eggs, and we have been very successful in securing fertile eggs. We make a specialty of shipping thoroughbred incubator chicks at twelve days old, and in order to insure good stock and young chicks ready for a long journey at their age, it makes it

know what a tiresome ordeal this is. We have dispensed with this irksome task.

Our incubator cellar is equipped with Cyphers incubators, which are found to be very satisfactory. We also use the Cyphers style of outdoor brooders, which



High grade standard-bred Light Brahmas, bred by A. J. Felthouse, Elkhart, Ind. Some of these matured birds score as high as 94, while the young stock give promise of still higher quality.

these feeds being used. Why? Because people do not understand their feeding values. I do not wish to be understood that the high protein foods should be used every meal, yet we have fed gluten feed (27 per cent protein; 12 to 15 per cent fat) every day for months with other feeds and I am convinced that nothing serious resulted from its use. The analysis of malt sprouts is about the same. It takes protein to make eggs. If so, why not supply it? Our opinion is that feeds which contain plenty of di-

necessary that the breeding stock be fed on proper foods, as well as the chicks.

Another important necessity is pure drinking water. How many fowls are supplied with perfectly fresh water at all times? Not many. Our poultry house is supplied with running water and to each breeding pen thereby, insuring fresh drink at any time of the day. A great amount of labor as well as expense is saved by this arrangement. People who have carried water to large flocks of fowls are the only ones who

we consider far superior to the pipe systems. We also adopted the Cyphers system of feeding chicks, using Cyphers Chick Food for the first eight to ten days, gradually working them on to Cyphers High Protein Beef Scraps and forcing food. This chick food gives them a fine start, also saves the worry and work of trying to find something for the youngsters to eat. As it contains eleven different grains, we have the variety. The beef scraps are excellent to keep the

(Continued on Page 79.)



## SPRING WORK WITH PEKIN DUCKS.

Losses by Rats—Making Houses Secure From Enemies—Selling Feathers—Getting New Stock For Breeders.

Miss Frances E. Wheeler, Clovernook, Chazy, N. Y.

**A**T Clovernook this spring we have had serious trouble with rats. Across the river from us is an old, picturesque mill that is infested with these vermin, and when their winter store of provisions begins to run low, they swim across for our grain, and so on. "Jocko," the fox terrier, and "Teddy," the ratter, (whose full name, as his owner, my little nephew, explains, is "Teddy Feeodore Roosevelt White") are on the alert day and night, and woe betide the luckless rodent who shows his nose above board.

### Making Rat Proof Quarters.

If all our duck buildings cleared the earth a foot or so, the dogs would have

quite a few. I have noticed that after a number of rats have been trapped or poisoned the rest will vacate the premises, and for several months we will experience no trouble from them.

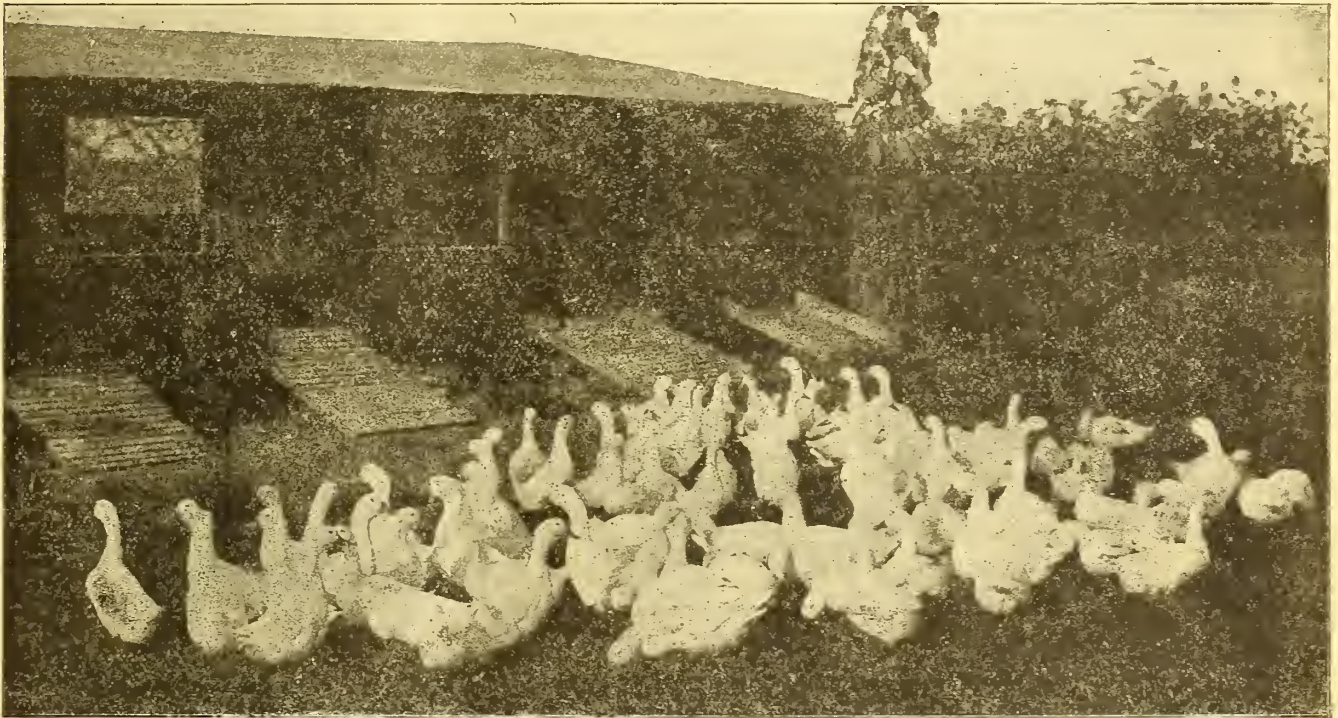
About eight years ago we floored this house with one-inch mesh wire netting (over the earth), which extended up the sides of the building about a foot. Last fall, as it showed worn spots, we covered it in turn with undressed hemlock planks. From our point of view it would seem that the persistence of rats is worthy a better cause, and that for this reason it is safer, where inexpensively built houses are contemplated, to raise them from the ground and protect at the corners as are granaries. I think if they are kept clear

great fascination for my nephew. A little boy had evidently "sat down hard," had spilled his basket of apples and was crying. Underneath it says: "Little boy, why do you sit there and bawl? Why don't you get up and pick up your apples?"

It is so in life. With every misfortune there is an accompanying remedy, and success or failure largely depends on the prompt discovery and application of the latter. If coupled with a thrifty, energetic disposition, an optimistic view of things in general and our own special business in particular, is a good quality to possess. It acts as an incentive to overcome difficulties and to better one's surroundings.

### Some Opposite Experiences.

This quality in disposition or temperament is very noticeably absent or present in the letters people write regarding poultry. To illustrate, will say that one morning two letters arrived in the same mail; both were from ladies and both resided in the same section of the country. One of them inquired the price, etc., of



A Flock of Clovernook's High Grade Pekin Ducks.

full control of the situation; but our warmest brooder house, where we winter a flock of our breeders, is on the ground, under which the rats made their stronghold; tunneling passages between it and the river. They stole our eggs and finally killed and partly ate a duck. For several days they baffled our best efforts, but we finally discovered that they worked up through the dead air space in the wall and gnawed their way through the top casings of the little doors used by the baby ducklings.

The birds were promptly removed to another house and we tore out all the casings, made new frames of 2x4 inch hemlock and bound them with tin. We fixed the dead air space so as to render it inaccessible to rats. We also poisoned

of rubbish underneath, so the vermin will find no hiding place, that a good dog or cat will hold the premises clear of them, even where "eternal vigilance" must be the law, as at Clovernook.

Most every one who raises chicks has experienced trouble from one kind or another of the animals that prey on them. For those where night marauders are most in evidence, the small chicken coop in common use is a very unsafe affair; but may easily be rendered impregnable to the enemies of the little chicks by covering the bottom and sides with one inch mesh wire netting, which is inexpensive and easily adjusted.

When people relate to me their losses of chicks by rats and so on, I am sometimes reminded of a picture that had a

duck eggs and birds, and stated incidentally that for two years she tried raising chickens and failed in making it pay, so thought perhaps she would try ducks and see if she could not have better luck with them.

The other letter was as follows:

"Feb. 8th, 1903.

Dear Miss Wheeler: I think this is your leisure season, so take the liberty to write for some points in duck rearing, and to also tell you a little of my experience. You will recall that I bought a drake of you two years ago this coming May, at some inconvenience to yourself. The first season I hatched fifty and raised every one. Last season about ten died, owing to the very wet season. But I marketed one hundred,



and they were fine. They went like hot cakes. Now will you tell me how many ducks there should be with a drake?

[There should not be over five ducks allowed to each drake.]

1st—Can you recommend a place to sell feathers?

2nd—I still have the fine drake I purchased from you. Next fall will need a new one. Will one of yours answer? I feel well satisfied with my venture thus far, and would like to increase my plant, as the demand is far ahead of the supply.

Already I have a little to my credit in the savings bank, and what is better, am getting strong and well with the outdoor air and exercise. I forgot to mention that I lost forty ducklings by a thunder storm. The eggs lacked about a week of hatching. 'Twas a very heavy thunder.

3rd—Did you ever have such an experience?

Thanking you for past favors and hop-

ing the ducklings are marked and only the best retained.

3rd—As to thunder affecting the eggs. Where incubators are employed on very large ranches, the general opinion appears to be adverse to this theory. I am inclined to think that damage is done by the atmospheric condition of the air. Three summers ago we had a few extremely oppressive days; every one experienced a difficulty in breathing. I had two incubators full of eggs (650) and they all tested out dead, and at the same stage of development. We had no thunder, or very light vibrations. The eggs themselves were all right.

#### BUFF ORPINGTON MATINGS.

W. B. Halverstadt, Leetonia, Ohio.

We receive letters almost daily inquiring about the proper selection and mating of the different varieties of Orpingtons, and we reply through the medium

months, these birds fledging early and being in full laying at five months, continuing the winter through.

Orpingtons are carrying off the ribbons in our own country on account of their great commercial value and beauty for exhibition stock. May the good work continue and the breed be perfected to the highest possibilities. This cannot be done, however, with mating brothers and sisters together, or mating male or female with their progeny. Such a course is rank inbreeding and little short of a crime. Do you wish to produce stock weak in vitality, small in size and with impaired egg organism? Such a result will be as certain to produce chicks inferior to those produced from a cross of fresh blood as "Rush light is unto sunlight"—weak.

Unfortunately there are placed on the market some inbred specimens from persons who buy one sitting of eggs, then from a false sense of economy practice inbreeding. They realize the inferiority of their stock, sell fowls and eggs at a low figure and catch the unwary. And thus the breed suffers. In mating Buff Orpingtons the greatest care should be exercised in the selection of male and female as to shape, color, tendencies and laying qualities. It is advisable always to mate birds resembling each other in color, allowing, however, for the richer golden hue of the male in hackle and back, but the breasts, under-color, wings and tail should be the same. The progeny resulting from mating a very dark cock with light colored pullets are apt to become very mottled, some of the feathers being quite light and others extremely dark.

Mating light colored fowls together should also be avoided, as almost white chicks will be the result, or at least, youngsters with a good deal of white about them. By all means avoid white in your male bird if possible. Give preference to the bird with chestnut tail or one with peppering of black, as that fades to buff in course of breeding; but white is hard to be eradicated and should not be experimented with. To breed high class exhibition birds select hens and pullets as nearly solid colored as possible, with rich buff under-color. If color be allowed, let there be shades of dark in flights rather than white, but remember sound flights are the great requisites towards perfection, as females throw white in young to an alarming degree. There are few male birds as yet which are absolutely free from slight tinge of white, and by mating these with sound pullets a fair percentage of the pullets will be satisfactory in color, but breeding him to females with similar white in plumage is disastrous. Sound, colored cockerels and perfect Orpington shape and stamp combined are difficult creations to find.

Should you mate a cock with poor wings to light hens, you destroy your cockerels; but choosing good, rich buff pullets, you will possibly have fine birds of both sexes. It should be borne in mind that the older the hens and cocks become the more white will appear in plumage, hence white must be objected to as far as possible. A cock much richer in shoulder color than on his neck and side hackles will produce some pullets

(Continued on Page 73.)



Residence of W. B. Halverstadt, Prop'r. Rest Cottage Orpington Farm, Leetonia, Ohio, Heavy Importer and Breeder of the Orpington Family.

ing you will deem this worthy an answer, I am,

Yours truly,

Mrs. Moore."

I think comment on these two cases is unnecessary. Any one who has "been there" knows what it means to raise fifty ducks without losing one, and on the other hand, what kind of handling young chicks get that produces failure.

#### Selling Feathers—Breeding Stock.

As three questions in Mrs. Moore's letter are of general interest, will say that:

1st—Concerning feathers, I have built up a good local trade for mine, which I sell—the fine feathers with the down mixed in—for 65 cents per pound. Also make and sell sofa pillows to the stores.

2nd—Regarding my breeders, I have been in this business six years. The first three years my drakes were Rankins; the next two years they were Pollards; this year they are Hallowells. I select my finest ducks as mates, and the eggs are hatched in pedigree trays and

of these pages regarding the Buffs first, since they were the earliest introduced here. Never before were fowls produced that possessed such rich qualities of size, prolificacy and beauty. They are a breed essentially for the times, suitable alike for fancier, cottager or farmer.

To bear us out in this claim we cite the recent Australian egg laying contest, where in a class of about forty varieties, the Black Orpingtons carried off first honors and the Buffs a close second; also the Table Poultry Show, Smithfield, England, where the report of pairs were as follows: Black Orpington pullets, 17 pounds, 14 ounces; Buff Orpington cockerels, 21 pounds, 4 ounces, and White Orpington pullets, 18 pounds, 11 ounces. These facts all bespeak the Orpington's wonderful qualities and superiority over other breeds. We should like to add to their list of good qualities the rapid growth and weight attained by some of the other varieties of Orpingtons in our own yards last season, whose weights reached three and a half pounds at two



## DEALING WITH THE MERCHANT.

### Some of the Business Requirements on the Part of the Poultryman and Fruit Grower in Establishing a Demand For His Product—The Merchant and the "Honest Old Farmer"

By J. D. Tribby, Brookfield, Ohio.

**I**N THE March issue we spoke of the advantage that came to the farmer from dealing directly with the consumer; of the necessity of building up a private trade. Notwithstanding all that, our own experience and the experience of others, has taught us that there are times when it is necessary to deal directly with the merchant. Poultrymen can and ought to have fruit in connection with their poultry.

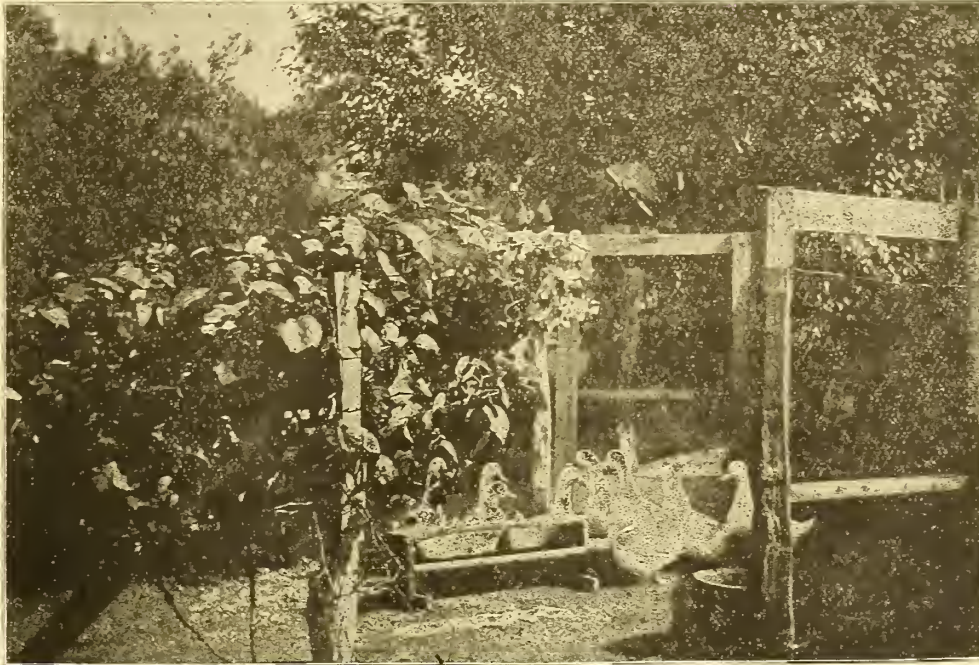
Some years the fruit will be so abundant that it would be an utter impossibility to dispose of it to any private trade

nestful that he found under the corner of the barn with the old speckled hen atop of them and the temperature up to 103, and which he says to himself, "will be all right for the store."

Another reason that makes dealings between farmer and merchant not satisfactory is that the farmer is not as well posted as he ought to be. He does not know the value of his stuff, nor the prices it ought to bring. When a farmer sells to a merchant he is a wholesale merchant. He must sell at wholesale prices. The merchant, if he sells goods

truthfulness are the corner-stones that will support their business and they are the only ones to be relied upon.

May I be allowed to tell a couple of incidents that will illustrate how I get along with my friends, the merchants? I will use the personal pronoun. When I went to Sharon, Pa., my nearest city market, with my first load of peaches, after I had secured orders and sold part of my load where I was already well acquainted, I went to other places. At one place I carried my basket of peaches in, found the buyer and greeting him cheerfully, asked him if I could interest him in my fruit. He looked at them and rather roughly asked the price. I said, "This grade is worth \$1.50 a bushel." He looked at me a moment, then at the peaches. Then he said, "What are they like at the bottom of the basket?" I answered, "I will guarantee every basket of this grade to be as uniform as they can be made—from top to bottom. Get a basket and I will show you." He did



"Poultrymen ought to have fruit in connection with their poultry. On our farm is a 600-tree peach orchard that yields a big crop to be disposed of."—J. D. Tribby, in "Dealing With the Merchant."

that could be built up or handled at ordinary times. Such an experience we had year before last, and last year also, with our peaches. We started here with ten acres, but year before last we bought the balance of the old farm—45 acres. On this part of the farm is a 600-tree peach orchard. Year before last these trees were heavily loaded. Last year, though not nearly so many, yet there was too much of a crop to be disposed of to a few private families. We simply had to do business with the merchants.

For the farmer to do business with the merchant is not always easy. One reason for this is found in the fact that out of his dealings with the farmer the merchant has been compelled to become distrustful of the farmer as a class. "The old honest farmer" is too often spoken in sarcasm to indicate a man who puts little potatoes in the middle of the sack; who slips into the basket of eggs the

of any sort at all, must sell them at a profit. This is self-evident to any one with a teaspoonful of sense. The farmer should go to him then and deal with him in a reasonable way.

He should compel the merchant's respect by making him see that he knows what his goods are, and what they are worth. He should compel the merchant's respect by being dressed as the merchant's equal. And, above all, and over all, he should compel the merchant to respect him because he never makes a misstatement about his stuff. He will tell the truth about his stuff, not because he is like George Washington; not because the decalogue forbids it; not because he is a church member; he will tell the truth simply because it is good business, and the farmer, if he is to be successful, must become a good business man. In this day business men have learned—had to learn—that honesty and absolute

so. As the bottom peaches came on top he said, "All right, bring some to-morrow; but, see here, I want to show you something." He brought out some peaches that were awful—green, withered, rotten, worthless things. He said, "I bought these of an old honest farmer out east of town." I said, "That farmer is not a good business man." He said, "He is a — fool. I would not buy from him again if he were starving."

Do you blame him?

Afterwards I went to this man. I said, "Mr. S., I have some potatoes that I can sell." He wanted to know what they were like. I told him they were large, white and smooth, that they were Carmen No. 3, and that some had hollow spots in the centers. He said, "Bring in ten bushels for me to try." I did so. I went back the next Saturday. He said, "I will give you so much for all of these

(Continued on Page 74.)



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

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Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, Editor. } Associate Editor, { DR. N. W. SANBORN.

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TWENTIETH YEAR  
AND VOLUME.

MAY 15, 1903.

NUMBER 2

## POSSIBILITIES IN SMALL QUARTERS.

The article in this issue by Mr. D. D. Cavanaugh telling what is actually being done in raising poultry on city lots in Chicago, whereby the owners are clearing from \$1,000 to \$1,500 per year, will be of interest and value to a great number. The plan is practical in every sense of the word. In and near Chicago (and other big cities as well) are many small poultry plants that are paying well. Fresh eggs last winter in Chicago readily sold from 40 to 60 cents per dozen, with a good demand at 45 to 50 cents during the early spring months.

Says Mr. Cavanaugh in a letter to Poultry Keeper: "I have tried to encourage the man with small capital and poultry energy. From my several years' experience as a poultry raiser I have learned a great deal. The last three years I have dropped my trade, which is a good one (sign painter, salary \$84 per month) and taken up poultry raising on a small scale on a city lot. I started first with twelve hens and a male bird, giving them a pen or shed 10x20 feet, a yard to run in 20x40 feet. The hens would lay well in the spring and summer, but no eggs in winter. From reading the different journals I understood that this was about the limited number of fowls that could be kept on my land and was afraid to handle more.

"My first breed was Leghorns, and as they didn't show any sign of sitting, I concluded to buy an incubator—a 200 egg size. I bought 200 eggs just to experiment with. hatched 132 chicks, raised about 100 of them, and as my land didn't grow any I had to devise means to house and yard them, which I did. My poultry house, 10x20 feet, was divided into two pens of 10x10, into each I housed twenty-five fowls, dividing my yard into runs 10x25 feet. I then boxed up the space under the back porch of the dwelling, which gave me another poultry pen about 7x12 feet, and in this

I housed twenty fowls, allowing the rest of the back yard for runway. The rest of my fowls, which I thought I had no room for, were sold to the market man.

"Where I got no eggs the winter before, that winter my seventy fowls laid all winter and seemed to do just as well in the summer as did the twelve fowls which had the whole yard and barn for a play room and yard. Experience is the best teacher and since becoming a student I have handled with paying success one hundred laying fowls in a back yard of a city lot. It is a common sight here in Chicago to see 100 to 125 chickens in a back yard. Disease among them is much scarcer than among the farmer's fowls.

"I now own over two hundred pure-bred fowls and sell eggs for hatching at from \$1 to \$2 per sitting (13). I have orders for hundreds of eggs booked ahead most all the time, so there is no use of me answering the question, does the poultry business pay me? There are few days, summer or winter, that we do not have from ten to one hundred visitors at our yards and we have started many in the business, which they found profitable."

## A WIDENING POULTRY FIELD.

The selling of eggs for hatching, as well as birds for breeding purposes, has increased wonderfully the last two years. It would seem that the large number of persons advertising along poultry lines could get little returns for the money invested. This would be true were it not for the fact that the number of buyers has increased faster than the sellers. It has become more than a "fad" to keep a few hens. People in towns and small cities, as well as the many who live in the real country, like home grown poultry and fresh eggs, and have taken up the keeping of a few hens for home use. Many of these people like a flock of birds that are uniform in size and color. This leads them to the

thoroughbred birds and is a step toward becoming a fancier.

So the call for single sittings of eggs is large, and many an order is placed for five dollar trios of good laying stock. These persons who begin with dollar eggs, and two dollar birds, seldom are long satisfied with cheap stock. I know one man who thought five years ago that one dollar was a lot of money to put into thirteen eggs, who this spring paid twenty dollars for a single male bird for breeding and thought it a good investment. There are many such instances that might be given.

For every man who puts his little advertisement in the poultry paper there are a dozen buyers who are never in evidence except in the purchase of eggs or birds. They buy from year to year, for their own pleasure and profit, whatever they want to meet their needs in poultry lines. A single buyer in each community of this continent would make a good sized army, and when two or five or more buyers spring up, the wonder is how the demand is supplied.

That the outlook for sales of good breeding birds the coming fall is unusually good seems to be a fact. Hatch a few extra birds, even now, and help supply this call for birds of excellence. It will take care and feed, more than usual, to be sure, but there will be a cash profit as well as lots of satisfaction.

Have good breeders, raise fine chicks, ask a moderate price, and you will have little trouble in selling your birds.

N. W. S.

## GROWING GREEN FOOD.

As the keeping of a garden may compel many to confine their hens in yards, it becomes a difficult matter to allow them to secure green food. One of the best methods for so doing is to have changeable yards, that is, the yard should be divided. When the hens occupy one side, the other side may be spaded up and sown to mustard, millet, or any kind of crop of which the seed is not expensive. Such crops need not mature, hence the hens can be turned in when the plants are three or four inches high. Wheat, oats, sorghum, corn, turnips, or anything that will provide green food, will answer.

The side occupied by the flock before changing them to the green plot may now be spaded up and treated in the same manner. There are many advantages in the plan; among them the providing of green food, the cleaning of the yards by turning under the filth, the manuring of the yards by the fowls, the saving of grain, the promotion of health and vigor of the fowls and the production of more eggs. The only cost is the partition fence. There is no extra cost for labor, as the yards need not be cleaned except when the ground is spaded, which turns under the filth.

While milk and huttermilk are excellent for young and old fowls, they must be fresh and wholesome. To place milk where it is liable to be fermented (or become sour) may be the cause of bowel trouble.

Caponizing pays, the loss being less than one in one hundred for experts. The skillful operator does not have losses.



**THE SMALL FLOCK.**

The small flock has always paid more in proportion to number of individuals than where large numbers are kept, because they have better accommodations, and not on account of superior management in feeding, although the feeding must also be considered. At this season of the year there is a large number of young birds, and if the hens and incubators have done good work in bringing off full hatches the space allotted to poultry will be crowded. There is always plenty of room on the ground, that is, in the fields; but it is at night that the inconvenience of roosting is felt by the hens and the effect of crowding is at the expense of fewer eggs.

To keep all the young stock is to incur expense of food, but eggs should cost little if grass and insects on a range may be had. Then there is also the labor of providing for a large number and the risk of loss by the introduction of diseases when the poultry houses are crowded. It is the crowding, the disagreeable association, the competition and struggle for existence that make the conditions for success more unfavorable for a large flock than for a less number.

**KEEPING CAPONS.**

Those who are interested in capons will find the young cockerels—ten or twelve weeks—about the right age for caponizing now. They should have a separate yard or range away from the other fowls. Being quiet in disposition and less quarrelsome than cockerels, they can be kept in larger numbers together, but should not be crowded. Keep their quarters clean, give them a range and feed once a day, at night, making no attempt to fatten them, but simply keep them thrifty and growing.

Much of the so-called cholera in hens is due to lack of grit or too large a pro-

portion of meat in the mash. Keep a box before the birds, with three bins in it, filled with bran, meat and grit, and let them balance their ration. With this method you know your birds will not suffer, even though you are kept away from home over several feed times.

**AIR SLAKED LIME.**

Air slaked lime is cheap and is one of the best materials that can be applied to prevent disease and lice. It will serve to make a damp house dry and destroy the germs of roup. The floor, walls, roosts, nests and yards may be freely dusted with it. In the runs of little chicks it will destroy gapes and prevent loss of chicks from that cause. It is harmless and saves labor because a few handfuls, used once a day, will be efficacious and avoid much hard work that otherwise would be necessary.

**THERMOMETERS IN BROODERS.**

Editor Poultry Keeper.

In answer to N. W., St. Joseph, I would say we are running two champion brooders. We have the run and hover divided with curtain to exclude draft. We hang thermometer in front of the glass against the hover partition. We can see through front glass. The heat falls five degrees in the run, therefore set the lamp according. Having regulated the first heat, you can tell by blaze without looking. We run our brooders in coldest of February. Mrs. Sage.  
29 Bristol Place, Detroit, Mich.

When sending in your subscription to Poultry Keeper include with your order any other poultry paper you may wish. This gives you the benefit of reduced clubbing rates and saves trouble of sending two orders. The reduced rates are good for new subs or renewals. If you wish more than two journals, send list to us on postal and we will quote special

price for the lot by return mail. It will be seen by our clubbing list on page 88 that we can supply all kinds of publications—poultry, farming, gardening, floral, literary, etc. This is a money saving proposition for you.


This is the time of the year to pick out your pen of breeders for 1904 use. It pays to hatch from two-year-old hens. You get larger chicks and the hens are in better condition for producing eggs for hatching. Save the best cockerel of this year's hatch to mate to the birds you now have for future use. Better leg-band the chosen birds—then they will not be sold at molting time.

Use a good grade of meat scraps. The high priced article may contain twice the food value of one that sells at a little lower figure. Cheap scraps may contain waste that is of no use for food and is likely to be a product of some soap works. The best meat scraps, as well as the best grain, prove the cheaper in the long run.

Do not forget the lice problem. It is constantly rising up to face us. Both the growing chick and the laying hen are injured by having to stand the annoyance of this insect. If you have red mites on your plant, work hard and constantly to get rid of the last one.

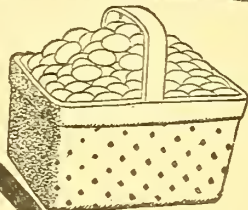
By connecting the small fruit business with poultry, the right kind of a man can derive a comfortable living income from eight to ten acres of good land.

If your early hatches have been poor try to get good results from June chicks. Perhaps you forced the birds for winter eggs and thereby weakened their vitality for March fertility. Possibly your birds were not mature when you first set their eggs. May eggs hatch well, the chicks grow from the start, and most of the food can be got on the free range.



**Trade Mark Registered July 17, 1893**

# Lambert's Death To Lice Powder

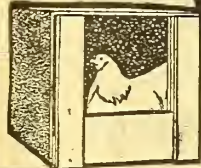


is one of the very few things that will kill lice and not injure the hen, eggs or little chickens. It has been on the market for twenty years and has steadily grown in favor and popularity. It must do good work or poultry keepers would not buy it year after year. It is also invaluable for lice on Horses, Cattle, Sheep, Hogs or Plants of all kinds. We have hundreds of testimonials as to its efficacy.

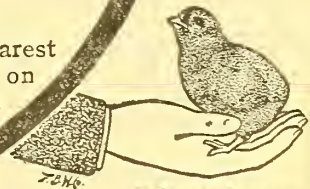
**Prices, 10c and 40c**  
By Mail Postpaid.

Larger sizes 50c and \$1.00 by express from here or nearest agency. For head lice on chickens and scaly shanks on fowls, use Death to Lice Ointment, 10c and 25c per box by mail. A 64 page book, "How Best to Do Things," free.

**D. J. LAMBERT,**  
Box P, Apponaug, R. I.



**It Makes Hens Sit Better**



**It Never Injures Little Chicks**

**Its Use Causes Breeders to Produce Fertile Eggs**



## WHITE PLYMOUTH ROCKS— THE ALL-ROUND MONEY-MAKERS.

By U. R. Fishel, Hope, Ind.

**T**HIS question is often asked me, "What breed of fowls shall I take up to make the poultry business a paying one?" I always have to stop and live over in my mind about twenty-five years of experience in the poultry business when this question is asked. Why? For the reason that I have bred nearly every variety named in our standard, and while one fancier makes money out of one variety, another is equally successful with his favorite, yet I feel sure that any one just starting in the poultry business, as a business, or who desires to rear a few fowls for pleasure or profit, will be more than pleased with the excellent results to be obtained from the White Plymouth Rocks.

As a beautiful fowl, there is none to excel them. Their large size, yet active, alert business carriage and appearance, coupled with their beautiful snow white plumage, rich yellow legs and beak and bright comb and face, demand the admiration of every one, no matter whether he is a "chicken" fancier or not. Take the White Plymouth Rock as bred today, they are equally as well adapted for the city lot or farm. No matter where they are bred or reared, they prove themselves to be money makers.

A great cry has gone up quite recently against the White Plymouth Rock, saying the modern bird was being bred too large, but I do not believe there is a poultryman on earth who sells any fowls on the market that has ever found a fowl too heavy when he can get twelve cents a pound for it. It is true, a good small bird is easier to breed than a good large bird, and I suppose the cause for this wail of overweight comes mostly or entirely from the people who cannot rear a good large bird. Take the large size in our beef cattle, and see what magnificent specimens are produced. To be true, the small animals "stand no show" with the good "big ones," and just so with poultry.

I feel if birds are punished for overweight in our new standard, it will be a step in the wrong direction. The foundation of the poultry business is meat and eggs. Therefore, let us get all the meat we can, and at the same time eggs. This can be done, is being done in fact,

then why discourage it? So my advice to every Poultry Keeper reader and others interested is, if you want to start in the poultry business for pleasure or profit you will find in the White Plymouth Rock a fowl that will please you as an egg producer, as a table fowl, and as a sure "money maker."

### Good Value in Wyandottes.

On page 63 is shown a half-tone reproduction of two handsome winning White Wyandottes bred by Ira C. Keller, the Wyandotte specialist of Prospect, Ohio. These birds attracted much attention at the Cleveland show on account of their beauty and true type. When sending in this half-tone Mr. Keller writes regarding his stock as follows: "Our eggs have proved very fertile and many customers have sent in splendid reports from eggs we have sent out this season. We are prepared to supply eggs from the very finest possible matings and can spare eggs by the sitting or in 100 lots, or by

the 1,000. We have over forty grand matings of both Golden and White Wyandottes. We never had chicks hatch stronger than they have this season, and we have fine breeding birds to spare that we will ship at prices that should make them ready sellers.

Whitewash the coops for the young stock, both inside and out. Turn them up so the sunshine can get in its sanitary work. No tonic better than the sunshine.

### Poultry House Material.

"Swan's Extra Heavy Felt Roofing," has come to be a household word among poultrymen. The A. F. Swan Co. is an old and reliable one which developed and introduced a most meritorious article, one which has done much for the poultrymen in the way of giving warm, comfortable and at the same time inexpensive houses. Before Swan's Felt Roofing, such materials had no place among poultrymen. The idea took firm hold at once, the qualities in the felt product appealing to practical people as being specially adapted to meet an urgent need in the poultry yard. In addition to roofings and sidings for poultry houses, it is used for sheep sheds, tobacco sheds, packing houses and sheds, lining and ceiling shops, warehouses, etc. There is hardly a limit to the number of useful purposes it may serve upon the farm. Samples and descriptive matter will be forwarded free to any one writing. Address A. F. Swan Co., 116 Nassau St., New York City, and mention P. K.

## EGGS NOW READY FOR SHIPMENT

From Standard Bred Stock.

Guaranteed true to name and first-class stock. Have hundreds of breeding birds, all varieties. We have all varieties of

Plymouth Rocks, Wyandottes, Leghorns, Minorcas,

Cochins, Langshans, Brahmas, Indian Game,

Andalusians, Bantams, Black Spanish, Etc.

Red Caps and White Crested B. Polish.

Your can't buy guaranteed standard bred eggs anywhere else as cheap as we sell them. Order direct from this ad. or send for my big 32-page illustrated catalogue, free. Mention Poultry Keeper.

Northwestern Poultry and Fruit Farm,

WALTER SEIDEL, Prop.,

BOX K, ELEROY, ILL.

About This Time  
Order Eggs  
For Hatching.

Send for our 1903  
Price List.

We have turned over a new leaf in prices, and can supply eggs from our

White Wyandottes and White Plymouth Rocks

at \$1.50 to \$3 per sitting; \$6 to \$10 per 100. Discount on large numbers. There is not a better or bigger flock in the country. We want your trade. Give us a chance to quote qualities and prices and we will have it. A little 50-page book about raising and handling poultry mailed for 6c in stamps. Please mention Poultry Keeper.

POLLARD'S POULTRY FARM,  
Attleboro, Mass.



**ADVANTAGES FOR RAISING FANCY POULTRY "WAY DOWN IN GEORGIA."**

Ellerslie, Ga.

Editor Poultry Keeper.

In reading your valuable paper I never see an article from this part of the south, and thinking it might be of interest to some of your many readers, I will write briefly of some of the greatest advantages to be derived in raising pure-bred fowls in western Georgia.

Taking everything into consideration, Georgia offers one of the finest opportunities for raising high-bred fancy poultry of any state in the Union. Her natural resources are especially adapted and she holds out many advantages for raising the highest types of standard-bred fowls economically and profitably.

Georgia has made wonderful strides within the last few years in breeding thoroughbred poultry and she can show as fine birds to-day as are grown anywhere. This vocation is not crowded in this section of our state and we would like to have more fanciers and see more interest manifested in this pleasant and profitable line of business.

I have visited numbers of successful poultry farms throughout the north and east, and when I see the necessary precaution and expense one has to go to in order to protect and keep his birds in health through the long and severe winters, it makes me more enthusiastic over raising thoroughbred poultry in this

country, where the natural conditions are so much more favorable.

We live in an isothermal belt of country and have a climate that is unsurpassed. There is not a day in the year that it is necessary for our birds to be housed up. This is a great advantage, as it allows them to procure much essential food and exercise in their natural way, and then, too, our open mild winters give the young birds ample time to freely develop strong, vigorous constitutions without being hampered by cold and confinement.

Land is cheap and productive in this section of our state. One can buy land accessible to railroads on an average of \$10 per acre, and it is adapted to growing everything essential to feed and clothe both the poultryman and his flock.

Lumber can also be bought very reasonable. Georgia pine lumber, suitable for constructing poultry houses and fixtures, can be had at about \$10 per thousand, and owing to our mild climate such houses as would be necessary in the north and east, would be entirely unnecessary here. In fact, an ideal poultry house for a cold climate would be utterly impracticable for this country, hence you see the expenditure for materials and constructing buildings, etc., would be very small compared to prices of northern materials and methods of construction.

The majority of people engaged in raising fancy poultry are of limited means and are not in the business for their health altogether; and it is this substan-

tial class of northern and eastern fanciers that I wish to invite and show the great possibilities of western Georgia for raising thoroughbred poultry.

We cordially invite you to come to Georgia, where frosted combs and that dreaded disease (roup) are not known, and where the natural conditions aid materially in helping us produce birds close to the standard ideals. Joe S. Burgin.

**A Good Poultry Supply House.**

A new advertisement of an old reliable poultry supply house comes into our columns this issue. It is that of W. J. Gibson & Co., Chicago. Many of our readers have had satisfactory dealings with these people for years. There is hardly any necessity of the poultry business but what is carried by this concern, who make it a point to supply their customers the best and only the best there is going. In their personnel of the house there is a good deal of poultry talent, certain of the members being actively engaged in the poultry business. At least one, Mr. H. H. Horton, is well known to poultrymen, and is at present a director in the National Fanciers' Association. Naturally, they know what the poultryman's needs are and what is best adapted to meet them. In the interest of P. K. readers we heartily commend the advertisement to their notice.

**An Interesting Bill of Sale.**

This is to certify that I have this day sold to J. C. Fishel, Hope, Ind., eighteen of the very best of my noted prize winning White Wyandottes, consideration \$540. This lot contains many of my noted winners with their progeny. These birds are absolutely white, true Wyandotte shape, large size, good combs and bay eyes. This lot of birds are the result of years of careful mating and breeding and give Mr. Fishel the best quality obtainable in White Wyandottes. W. C. Pierce.

**Eggs for Hatching at Reliable Poultry Farm FROM BIRDS THAT SCORE HIGH IN THE 90'S**

IT'S THE BIGGEST THOROUGHbred POULTRY PLANT IN THE WORLD.

136 YARDS—17 VARIETIES

Every bird, Every Egg right from our own farm and pens. We do not exhibit our birds for we sell the largest specialists, and would have to compete with our own stock and customers. Every pen is headed by birds that would carry the ribbon at most of the shows over the country.

Our special breeding pens would secure a big share of the prizes anywhere. A few Eggs only from our Own Special Breeding Pens, at

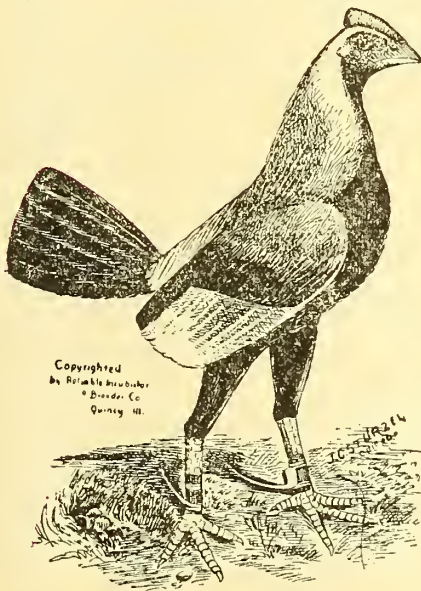
**\$5.00 Per Sitting 15**

**Price List of Eggs.**

Guaranteed to be true to Name, and to come from High Grade, Thoroughbred Stock. From Regular Carefully Mated Pens.

|                               | Per sitting. |                                 | Per sitting. |
|-------------------------------|--------------|---------------------------------|--------------|
| Barred Plymouth Rocks.....    | \$2.50       | White Plymouth Rocks.....       | \$2.50       |
| Buff Plymouth Rocks.....      | 3.00         | Light Brahmans.....             | 2.50         |
| Silver Laced Wyandottes.....  | 2.50         | White Wyandottes.....           | 3.00         |
| S. C. Brown Leghorns.....     | 2.00         | S. C. White Leghorns.....       | 2.00         |
| Rose Comb Brown Leghorns..... | 2.50         | Rose Comb White Leghorns.....   | 2.50         |
| Buff Cochins.....             | 3.00         | Black Minorcas.....             | 3.00         |
| Black Langshans.....          | 3.00         | White Crested Black Polish..... | 3.00         |
|                               |              | Pekin Ducks.....                | 2.00         |

Toulouse Geese, 50c apiece; \$5.00 per setting.—Mammoth Bronze Turkeys, 40c apiece, no reduction.



Copyrighted by Reliable Incubator & Brooder Co Quincy Ill.

Special prices in 100 lots for incubator purposes. Our pens were all mated with the valuable assistance of Judge Emry when scoring our stock, The Quality and Variety are Guaranteed or Money Refunded.

We still have, at low prices, a few very fine birds that we can dispose of. This stock always pleases patrons and will satisfy you. Address

**RELIABLE INCUBATOR AND BROODER CO., Box A-15, Quincy, Illinois.**  
OWNERS OF RELIABLE POULTRY FARM.



## RHODE ISLAND REDS.

A Sturdy Breed of New England Poultry—Origin and Value as a "Business Fowl."

By T. N. Smith, Attleboro, Mass., R. I. Red Specialist.

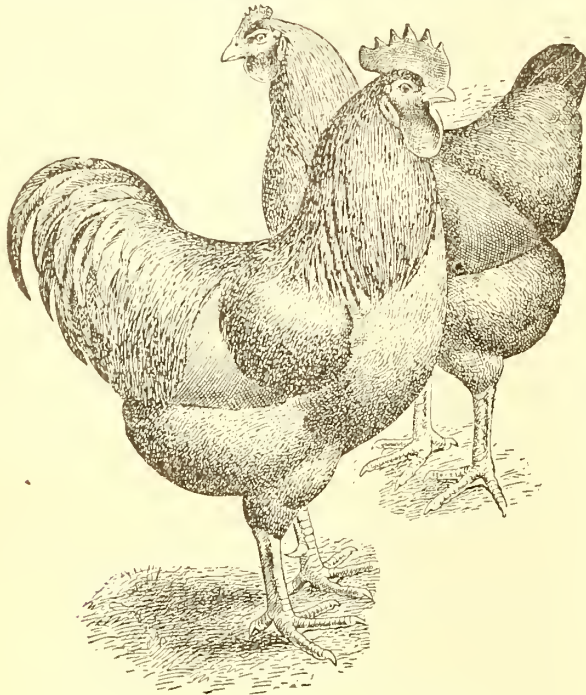
**A**S FAR back as 1854 John Macomber, of Westport, and William Tripp, of Little Compton, ran teams to New Bedford as marketmen. They engaged in good natured rivalry in poultry raising, each trying to outdo the other in crossing different strains in order to produce prolific layers and better birds for mar-

raise a breed that could withstand the harsh New England winters and bleak weather encountered along the coast. The results were that the now popular Rhode Island Red, by its vigorous constitution and hardiness, won the hearts of American poultrymen. In their make-up they have the persistent and remarkably impressionable coloring of the Malay and Red Cochin, the activity of the Leghorn, the hardiness and docility of the Asiatics, and the vigor and productiveness of farm stock. More than what the famed Paverolle is to France, the Rhode Island Red is to America—the best all-purpose fowl of a practical and progressive people. And, as Myra V. Norry, an able writer on general poultry topics, has well said: "In richness

males with two male birds. The houses are about 10x12 feet and ten feet high, with double pitch roof battened on both sides and top. These houses cost about \$12. They have two windows and are built on runners, and are moved from one part of the farm to another. Each farm has about fifty houses of this description scattered about forty feet apart. Cheap labor is employed, it being the duty of the attendants to feed the fowls soft food, also corn and oats, give them water and gather eggs. A long shed answers the purpose for dressing off and it is a common sight to see from twenty to thirty Portuguese laborers seated on long benches dressing poultry. The birds are devoid of black pin feathers and the bodies are plump and the skin is a rich yellow. The eggs are large and you can rest assured that there will always be plenty of them

## Hardiness of Stock.

Relative to the hardiness of the Rhode Island Reds, last spring while at Little Compton the writer saw several chicks from three days to three months old paddling around in mud where a pedestrian could not step on account of its softness. They were eating succulent grass and were thriving. It is on account of their strong vitality and vigorous constitution that they are so popular to-day. They require less care than any



Pair of Single Comb Rhode Island Reds, the Great Eastern Market Fowl.

ket. The result of their trials was the Rhode Island Red of to-day. The start was made by crossing a Chitagong cock with Cochin China hens. The production was so satisfactory that both breeders kept the strain for their own use, exchanging cockerels and marketing all fowls that did not have yellow legs or those which were feathered. When these fowls began to lead as winter layers, they at once became popular and in a short time the eggs were bringing from ten to twenty-five cents per dozen more than other breeds. It was at this time in January, 1886, that the name Rhode Island Red was given to these fowls by Isaac Wilbour, of Little Compton.

## Care.

The farmers along the southern part of Rhode Island and Massachusetts being so isolated from good markets for farm products, have made a specialty of poultry raising. The Agricultural College at Kingston, R. I., with which the writer was associated, is to a great extent responsible for the vast strides made in successful poultry raising in New England. As a majority of the farms were large and swampy, it was necessary to

and harmonious blending of tint there is nothing in domestic fowls to equal the color of the best Rhode Island Red males." These fowls are certainly destined to attract fanciers almost as much as those who admire them simply as profit-getters.

The average Rhode Island farmer keeps from five hundred to two thousand Rhode Island Reds. They keep their flocks in colonies consisting of thirty fe-

## —TWO WONDERFUL EGG RECORDS—

**M**Y S. C. Brown Leghorns made a record of 237 eggs to a hen, not a pullet, but hens made it, making it equal to 250 for pullets. My Rose C. Brown Legs, have a record of 242, and White Wyandottes over 200. Buff Wyandottes (solid buff ckl.) and Buff Rocks (solid buff cockerel are just as good) but we had no chance to count yet. My Rose and S. C. White Leghorns than do 240 also, but have not been counted. These are facts. Silver Seabright Bantam eggs, \$2 for 13; others, \$2 for 15; \$5 for 45. Send for catalogue and June prices.

W. W. KULP, Box 30, Pottstown, Pa.

## BRADLEY BROS. EXHIBITION BARRED P. ROCKS

LEE, MASS..

**A**T the last fourteen New York shows, birds we bred and raised won more first prizes than any other exhibitor has won on ANY stock. Write for new edition of "America's Best—Illustrated," showing 22 photographic pictures of modern New York winners and telling how our lines excel all others in existence. Also pamphlet "What Our Hatching Eggs Produced for Customers Last Season." BOTH SENT FREE. OUR BREEDING YARDS FOR SALE AFTER MAY 15. Eggs, from our best pens only, \$6 per 15; \$18 per 52.

## S. C. BUFF ORPINGTONS, EXCLUSIVELY.

Eggs from high class stock at half price, balance of season—\$1.50 per 15. \$2.50 per 30 eggs. Chas. J. Minns, Box D, Millington, Mich. 3-12

**BEE PROFITS** There is a heap of money in bees. An easy and paying occupation that will bring golden returns. Send for a free sample copy of our semi-monthly publication "Cleanings in Bee Culture." Is a practical publication full of interest. Mailed to you free with our Book on Bee Keepers' supplies. Address THE A. I. ROOT CO., Dept. 9, Medina, Ohio.

**The Fertile Egg**

In a Victor Incubator: always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher is the **VICTOR INCUBATOR**

Thousands in use; no complaint. Catalogue 6 cents. GEO. ERTEL CO., Quincy, Ill.

## S. C. White Leghorns.

Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct. 1902, Charlotte, N. C., Jan. 1903. Yards now mated that will produce for you, show winners in any company. Write at once for circular describing matings and low prices for **EGGS FOR HATCHING**. Satisfaction our motto. **WILBER BROS., Box E, Petros, Tennessee.**



breed and give better results in the pocketbook.

The proprietor of one of the largest poultry farms at Little Compton told the writer the other day that from a total of sixteen hundred chickens hatched, only one hundred and eleven had died. These were all hatched in incubators and not under the hen.

As they come from generations of healthy stock, disease is almost unknown among them. In the Experimental Station I worked out several formulas for roup cures, and although very effective with other breeds, I do not recall a single instance where this disease prevailed among Rhode Island Reds.

**Matings.**

The best results in mating are obtained with a brilliant cockerel or cock, the hen or pullet being lighter and having a buff under-color, free from white. The Little Compton breeders use dark red colored cock or cockerel mated with medium colored hens or pullets of light surface color.

**Shape and Color.**

The shape of both sexes is to conform to the general idea of the American class, without requiring the distinctive contour of the Plymouth stock, nor the proportionately fuller curves of the Wyandotte. A long breast or keel bone is desirable, and apparent vigor is to be regarded equally important with the consideration of shape.

The plumage color in both sexes

should be brilliant red throughout, uniformity of tint being desirable in the pullets, the male to be deeper in tone and to have an accentuated depth of color on wing and back, this general color to be modified by the appearance of black in tails and under portions of wing flights in either sex, and a slight ticking of black in hackles of females; under-color is to be red or deep buff. The especial aim of the promoters of this breed being to conserve vigor and prolificacy rather than immaculate perfection of color, black may find its place in sections enumerated, and the gradual fading of the red portions of the mature hen's plumage, which naturally follows upon prolific laying, is discriminated against in the placing of awards.

The comb, wattles and ear-lobes should be of that bright red color, which betokens a healthy condition. The color of the shanks, toes and beak shall be yellow or reddish yellow.

The standard weights are: Cock, seven and one-half pounds; hen, six pounds; cockerel, six pounds; pullet, four and a half pounds.

A good incubator is needed on most poultry plants. Avoid the single case machines. Buy an incubator that is put out by a reliable company and do not let the price settle what machine to get. The up-to-date incubator is about as easy running as the old hen and will hatch as large a number of chicks from a given lot of eggs as biddy will.

**BUFF ORPINGTON MATINGS.**

(Continued from Page 66.)

rich in top and under-color, but is not likely to produce very even colored cockerels. Be careful not to mate dark colored hens with cockerel with much black in wings and tail, as this progeny is a damper to one's success. Mate these cockerels, if they must be mated, with females of rich buff and clear wings if possible. We recommend "The Happy Medium." or standard mating. It should be the object of all to secure birds as near perfect as possible.

In conclusion, we add: Never breed male and females together both having weak combs, and if the cock lacks size breed to hens with massive stamp and structure. Never breed fowls with slaty or white under-color. Never breed from broken colored cockerel. Never permit white ear-lobes in your yards, feathers on legs or feet, anything but bright orange eye, and nothing but white glossy legs. The Orpingtons breed remarkably true to color and characteristics and the beautiful type and symmetry is reproduced in offspring to a pleasing extent. Look for good under-color and throw out all slaty suggestions. Cull very, very closely. Let it be a "Survival of the fittest." Strive to keep abreast with the Orpingtons the most popular and profitable breed of the day, combining excellent table and laying qualities with handsome and high exhibition value.

To catch the spirit of Nature's ways is the all important thing in

**INCUBATORS.**

Poultry raisers have no other concern about makes of machines than to get results. Of all the Incubators there is not one which produces results so satisfactory and so sure, under all conditions in all kinds of climate, as

**THE PETALUMA**

Hatches of a hundred per cent are frequent. No other machine so uniform or so high in average. Its superior materials of California red-wood and copper make its services permanent. Its devices, the most modern, exact and sensitive, for heating, regulating, ventilating and moistening, all contribute to produce the one great Petaluma feature,

**"The Hatching Instinct."**



The best mothers to motherless chicks are Petaluma

**BROODERS.**

The chicks come strong and vigorous from our incubators. There's no surer way to bring them to maturity than in our famous brooders. Petaluma Incubators and Brooders are the poultryman's trusted handmaids, insuring his greatest success.

**FREE to Everybody.**

**Our Latest Catalogue.**

We do not sell you the catalogue. It is free, and complete as to every hatching and brooding detail. Send for it. Petaluma Incubators and Brooders are the oldest and most reliable machines on the market to-day. Freight paid all over the United States.

**To Your Interest and Profit.**

"Send for the story of Solomon Drew, Who had a row with an old hen or two."

**Petaluma Incubator Co.,**  
Box 147, Petaluma, Cal. or  
Box 147, Indianapolis, Indiana.



### GREAT POPULARITY OF BUFF PLYMOUTH ROCKS.

When admitted to the standard the Buff Plymouth Rock fowl was made the object of the usual criticisms that are bestowed on nearly all new varieties of poultry when aspiring for public favor. Some of the knowing ones predicted that they would never go, that a boom was being launched and when its force was spent, the Buff Rock would be no more, except in name. That was ten years ago, but never did these "critics" make a greater mistake, and none are more soundly convinced of this than these same "critics," for to-day the Buff Plymouth Rock is nearer the top round of the ladder in popularity than ever before.

Their general purpose qualities have had not a little to do with this. Market poultrymen and those keeping poultry for winter eggs, who have been looking for a fowl that would better fill their requirements, are finding that Buff Plymouth Rocks fill their demands in every particular, and for these reasons are adopting them exclusively. Fanciers who admire the beautiful are taking up Buff Plymouth Rocks because there is money in keeping them. The demand for high-class breeding and the best exhibition stock has always been greater than the supply. High prices have been paid, and this last season the highest price ever paid for a single fowl was paid for a Buff Plymouth Rock cockerel. He sold for \$300. Four females to be mated with him sold for \$200; the times that \$25 to

\$100 each has been paid for single specimens are too numerous to mention.

Breeders of Buff Plymouth Rocks should get great encouragement from these facts and strive to improve their flocks in every particular. It will be found much better to cull closer and breed from one-half the number you intended to and have your young stock average higher in quality.

Every one interested in Buff Plymouth Rocks, who has not received the new Buff Plymouth Rock Club catalogue will be sent a copy on application to the secretary, if a two-cent stamp is enclosed. This book should be in the hands of every admirer of the variety, as it contains many articles of interest on caring for and mating Buff Plymouth Rocks. Send for a copy immediately to W. C. Denny, Secretary, Rochester, N. Y.

### DEALING WITH THE MERCHANT.

(Continued from Page 67.)

potatoes that you can spare." It was a fair price; I let him have them. We are now warm friends; he will handle any of my stuff that he can. I made my word good to him every time. I did it because it is good business.

I was in a merchant's store in Sharon one day. It was raining. The roads were fearfully muddy. A man drove up and said, "Mr. Murphy, Mr. G. won't bring those potatoes to-day. He said to tell you the roads are too bad." Murphy said some things not complimentary to Mr. G. I said, "Mr. Murphy, if you are

in need of some potatoes I will bring or send you some." He said, "I will appreciate it if you will." "I will," I said. "Well, then, I know they will come; you people keep your promises." He got his potatoes. That particular trip did not pay me, but Murphy is a friend for life. It has paid—that accommodation trip—paid a hundred fold and more. Any day I have a surplus of anything if it is in his line Mr. Murphy will handle it for me.

I think I have made clear my points. Poultrymen, farmers, establish friendly business like relations with the merchant and keep them established. It pays.

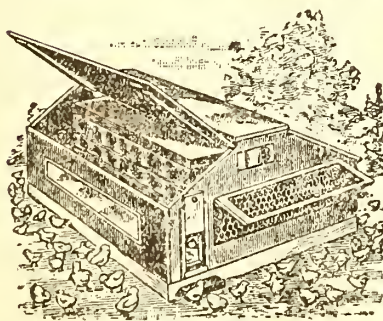
### AM. PLY. ROCK CATALOGUE.

The American Plymouth Rock Club have "done themselves proud" in getting up their 1903 catalogue. It is handsome and unique in appearance and in reading matter and illustrations it scores mighty close to 100 points. It is a credit to the fancy poultry industry that there is so strong a specialty organization as the American Plymouth Rock Club. Copies of the club's new catalogue may be obtained from the secretary, Mr. Henry P. Schwab, Rochester, N. Y. Inclose 4c to cover postage.

The Sunnyside Poultry Farm, West Burke, Vt., are in the market with eggs for sale from high grade Rocks, Leghorns, Wyandottes and Brahmas. (See ad on inside front cover.) They supply eggs at prices ranging from 5 cents each to \$3 per sitting. Prompt attention given every order and satisfaction guaranteed.

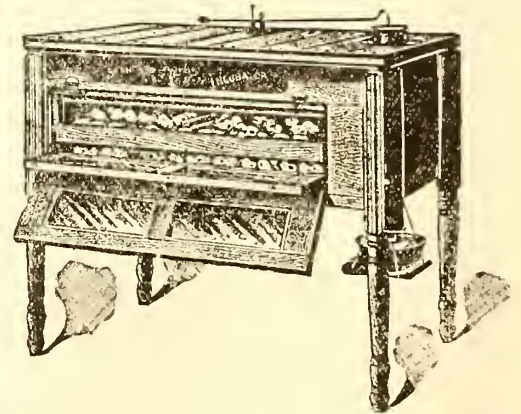
# RELIABLE BROODERS INCUBATORS...

Over 50,000 Testimonials.  
Used All Over the World.



Out-Door Style.

ONLY style machine made, that has always and is still giving perfect satisfaction after fifteen to twenty years use. Imitated by nearly every other make. Originator of more practical improvements than all others combined. The Reliable way is the surest way, most simple and the most economical. Incubator hatches largest percentage of chicks. Brooder raises largest percentage of chicks. Regulator is imitated, but not equaled by any other made. Can be run by



Standard Reliable Incubator.

anyone, anytime, almost anywhere. Always win in competitive contests. The only machine which imparts an even temperature to all parts of egg trays. Only brooder that will raise over 80 per cent of the chicks entrusted to its care. Every machine guaranteed just as stated, and a success in your hands

## Or You Get Your Money Back.

Prices extremely low. We can interest you and furnish something that will fill your purpose. Get our complete catalogue, really a big poultry book; every line of it is interesting and valuable. Sent postpaid to any address for 10 cents to cover cost of mailing. Headquarters for All Kinds of Poultry Supplies. Address,

**Reliable Incubator and Brooder Co.,**  
Box A-15, Quincy, Illinois, U. S. A.



**BUILDING UP AN EGG FLOCK.**

**Systematic Selection and Breeding For Egg Production—Forcing for Eggs and Breeding For Eggs, Two Widely Different Propositions—Breeding Must Anticipate All.**

By F. O. Wellcome.

**PART I.**

**T**O MANY it will seem that a series of articles on this subject should begin with advice regarding the selection of a breed—"the best breed for eggs"—and be followed by instruction in feeding, housing, etc. This is altogether too large a subject for me to even attempt the treatment of every detail connected with it, exhaustively, even were I capable of doing so; which I freely admit I am not.

In building an egg flock it should be obvious to every one that breeding must anticipate feeding and general maintenance. If we do not breed the foundation birds ourselves we must obtain them from some one who has bred them.

The expensive methods of feeding and confining poultry which are sometimes advocated in our poultry literature and are practiced by many people whose chief profit comes, or is expected to come from the sale of breeding stock and eggs for hatching, cannot be profitably employed with a strictly market egg flock until the standard of individual capacity for egg production has been raised considerably above the average by systematic selection and breeding. When that has been done we will, I believe, find that those same expensive methods of maintenance will not be necessary.

Methods of feeding, housing and the general environment of the stock have a great influence upon the show room qualities of the fancier's birds; yet he makes individual selection and breeding his main dependence, for he knows full well that in no other way can he obtain success, with birds of his own breeding, in the show room. The same foundation principles apply to breeding for egg production.

Hens as ordinarily maintained will not produce as many eggs as they are capable of producing, hence instruction in feeding, etc., for eggs is always timely and of value. When we feed and care for our birds in such a manner as to enable them to do their best we are not increasing their inherent capacity or the capacity of their offspring. Indeed we may, by too much forcing, actually spoil them for breeders.

In building an egg flock we should begin with the judicious selection of birds whose tendencies for egg production are stronger than the average and so maintain and mate those birds that we will stand a chance of finding their superior laying qualities reproduced in their offspring. Whoever believes that one breed excels another in laying qualities also believes that heredity is a controlling factor, whether he will admit it or not.

A little more thought upon the question may convince him that though the operation of this very principle of in-

heritance, under the commonly practiced methods of distribution of blood and the haphazard breeding which necessarily results, there can be no uniformity sufficient to substantiate a claim of supreme merit for any one breed or class of hens.

There can be no doubt whatever that the Mediterranean class furnishes the best breeds for egg production, for some people and some situations. It is equally beyond reasonable doubt that the same can be truly claimed for the American and Asiatic classes. By far the greater number of exceptionally large egg yields reported from individual birds and from flocks have been made by American and Asiatic breeds. The largest individual egg record of which I have yet heard, that is at all worthy of notice, was made by a Brahma hen; four hundred and fifty-one eggs within nineteen consecutive months. During two consecutive months of this period she did not lay at all, which leaves seventeen months of actual work; an average of twenty-six and a half eggs per month.

There is reason to believe that this remarkable record was due to an exceptionally strong laying tendency, combined with almost perfect physical development. The record is apparently as authentic as any claim which any breeder can make and substantiate sufficiently well to justify acceptance by the public.

The great laying done by members of the American and Asiatic breeds need not detract, in the slightest degree, from our application of the well-known prolific qualities of some families of Mediterranean origin. More of the larger breeds are probably kept by those who contribute to our literature, which probability should be given due weight when attempting to make comparisons.

The choice of a breed should be determined by the preference of the poultry keeper and his situation, bearing in mind the fact that great egg production is not a quality to be monopolized by any one class or breed; such a thing is at present absolutely impossible.

The matter of feeding and general maintenance is, of course, intimately connected with prolificacy; especially so at this time when we are really at the very beginning of the work of improving the productiveness of the domestic hen in a logical and systematic manner.

Our best layers will produce great numbers of eggs without the excessively nice and exact methods of feeding and care which are sometimes urged upon the novice as being necessary, and which often are necessary in order to obtain a good egg yield from birds which lack a strong, bred-in-the-bone, persistent-laying tendency inherited from a line of prolific ancestors. Adaptability to, and dependence upon certain systems of feeding and conditions of environment are, to

**Cherry Valley Poultry Yards,** CHAS. H. FILE, Prop., ... Breeder of....  
S. C. Brown and White Leghorns,  
S. B. Minorcas and B. Javas.  
Stock and eggs for sale. Send for Catalogue.  
Mention P. K. Rouseville, Venango Co., Pa.

**\$15,000** In stock and plant. Eggs from White Wyandottes, Barred and White Rocks, S. C. W. Leghorns and Pekin Ducks that will give you good results. Circular free to all who mention P. K. Stephani Poultry Co., R. R. No 3., Belleville, Ill. 9-12

**ROSE COMB BROWN LEGHORNS.**  
a specialty, also S. C. Blacks. Eggs from winners scoring 90 to 96%, \$1.50 per 15; \$2.50 per 30. From free range flocks of Rose Combs, \$4.50 per 100. Circular free. 5-12  
J. L. RANDOLPH, Box A. Cutler, Ohio.

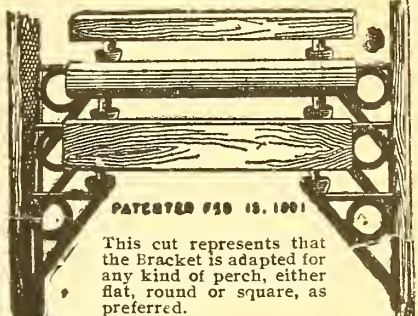
**BARRED ROCKS.**  
A son of Vulcan, 1st cock at Boston, 1902, heads one of my pens. I will replace free all infertile eggs if returned. Every bird in my yards selected with great care for size, shape, vigor and color. EGGS from these birds \$2 per sitting and they will produce Winners and Layers.  
A. P. WINSLOW, Box 1334, Freeport, Me.

**Get Eggs in Winter**  
Whether you keep 12 or 1000 hens you want them to lay when eggs are high. Our hooklet, Special No. 2, tells  
**How to Feed—What to Feed**  
For 50c (stamps accepted) we will send the hooklet and a full year's subscription to the Poultry Keeper.  
Poultry Keeper Pub. Co., Box 217, Quincy, Ill.

**MORE THAN 350 FIRST PRIZES**  
Used exclusively on the largest poultry and duck farms in the world; also on the Government Experimental Farm, Washington, D. C.  
Condensed catalogue free. Large 152-page catalogue "T" if you will mention the P. K. PRAIRIE STATE INCUBATOR CO. Homer City, Pa.



**Catches Them Coming and Going**



**Eureka Oil Cup, Bracket and Perch Supporter.**  
This cut represents that the Bracket is adapted for any kind of perch, either flat, round or square, as preferred.

**The Greatest Boon to Poultrymen, Practical, Durable, Cheap, Convenient.**  
A permanent fixture for all times. The spider or midge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.  
Wm. M. Shrader, Box 94, Bucyrus, O.



an extremely high degree, qualities of inheritance.

When we adopt complicated rations and hot-house methods, we should know that we are not only gradually making these rations and conditions necessary for good results with the immediate stock, but are also tending to create inheritable tendencies which will make those same factors still more necessary for their descendants from generation to generation. The same general rule holds good with ordinarily reasonable and economically practicable methods of feeding and general maintenance.

Had the common dunghill fowl of the farm been systematically bred by selecting the most promising specimens and properly mating them, making no change whatever in the feeding or care, we might find in them the hardiest and most prolific hens on earth. Some extremely superficial people actually believe that they are; although no informed person could conceive its possibility with such methods of breeding as are commonly practiced. Systematic selection and breeding for egg production is not the general practice with any class of fowls, or any class of breeders.

Systematic, constant, regular and more or less rational work, physical and mental labor, backed by a lively interest and reasonable ambition, every day in the week, every week in the year, year after year, is not the rule with the average reader of a poultry paper, or his venture; but it is the rule with all who make a conspicuous success in breeding and maintaining poultry or other domestic animals.

It is the same combination of systematic selection and constant and persistent labor which produce the most marvelous results with trained animals which are exhibited in theater and circus all over the world. The novice who expects to produce or maintain birds of exceptional merit by taking his ease, filling his head with speculations and facts, his hens with compound fractions, chemical ratios and stimulants, and his hen houses with modern fixtures and appliances is cherishing a delusion. Properly directed labor is the most important factor of all and success cannot be obtained without it.

I do not wish to discount the work of scientific investigators, chemists, food experts, or inventors; or to undervalue whatever they advance in such form as to be practically available, when adequate test proves desirability or value. None of them can supply anything which can take the place of industry and good sense, or offset the immutable laws of heredity; although they may offer that which will lighten our labors, hasten success, and increase our profits.

In outlining a plan for building an egg flock we might condense the whole matter by simply saying: "Breed from the best layers mated to sons of great layers and feed for eggs; the result will be a heavy laying flock of fowls." This seems to agree with the known laws of heredity and the commonly accepted rules of breeding animals and plants.

We are, however, very likely to err if we conclude that it is necessary to breed from 200-egg hens in order to produce 200-egg hens. We are mistaken if we

imagine it to be absolutely necessary to keep a record of each hen's work for a full year in order to tell which are good layers or good birds to use as breeders.

The fancier's highest scoring birds were bred from birds which did not score so high, and in the great majority of cases will beget birds which will not score so high. Many of our 200-egg hens are the daughters of hens not possessing so strong a laying tendency, or were less favorably maintained—it would be hard to tell which.

It is commonly supposed that a hen that lays 200 eggs in a year is a phenomenon, a wonder, a freak of nature, a bird of exceptional merit; and it is noteworthy that those who think so have never been in a position to know anything at all of the laying capacities of large numbers of individual hens. I would like to have a dollar for each thousand hens that are capable of laying 200 eggs in a year. There is not the slightest ground for a suspicion that they are not numerous, reckoned as occasional individuals.

Some novices are getting an idea that their flocks ought to be averaging 200 eggs per hen per year. The remarkable thing is that the beginner's flock lays as well as they frequently do. It is difficult to prevent a hen from laying at some period in her existence, but if there is a scheme for doing it, some novice has it. An average egg yield of 125 eggs per hen per year is good for an uncultured flock of fifty hens or more, and such a flock may contain hens that greatly exceed that number and some that fall far below it. In the next paper we will take a conservative position and see if there is not some way to select the best birds for breeders without being governed solely

by the total number of eggs laid in a year.

I am treating this matter with the idea that we are building our structure upon foundation birds which we already have. There are many breeders who have been breeding in line for eggs for years and are able to use hens with known records of 200 or more eggs in a year, if, in their judgment, it is advisable. That stock or eggs from their yards would greatly advance our work I do not question, but they are better situated to treat of that than is the writer.

Breeders who claim to own 200-egg hens have received some pretty severe treatment from their competitors and their competitor's champions. My own mail often contains inquiries similar to this: "Do you sell eggs for hatching from Barred Rocks with authentic records of 200 eggs each a year?" Or like this: "Can you furnish me with a White Wyandotte cockerel that is the son of a 200-egg hen?" If I were in the business

## WHITE PLYMOUTH ROCK EGGS

MY pens are large, white and high scoring birds, nothing under 92½ in either pen. Bred from winners at the big shows. Remember "Best in the World" at \$2 per sitting. 3-10

Pearl Lawson, Staunton, Ind.

**WANT \$2?** Success with Poultry \$1.00  
Poultry Keeper - .50  
Reliable Poultry -  
Journal - .50  
**For \$1.25** Will send all three for **\$1.25**  
**HERE 'TIS!** ADDRESS  
Poultry Keeper Publishing Co., Quincy, Ill.

**30 DAYS FREE TRIAL**



**THE WORLDS GREATEST INCUBATOR**

**WE PAY FREIGHT**

LAPORTE, IND., NOV. 15, 1902.

O. P. SCOTT, Man'fr. Incubators and Brooders:  
Dear Sir:—I am pleased to state that out of 100 eggs placed in your Incubator, No. 2, I received 86 fine healthy chicks.

I am yours truly,  
W. A. BANKS, P. M.

**NOTE:—**  
**OUR AUTOMATIC REGULATOR IS BENEATH THE TOP,**  
**A NEW FEATURE. CATALOGUE FREE.**  
**O. P. SCOTT, LAPORTE, IND., U.S.A.**



and did not know what little I think that I do know about the matter, my inability to answer such inquiries in the affirmative might wear upon me, in time, and cause me to join the ranks of those well meaning people who condemn, sincerely no doubt, those who advertise what they have tried to get, have got, and know that they have got by breeding. It is not yet clear to me that a breeder of heavy layers is pursuing than other breeders pursue, i. e., claiming what good qualities their birds possess, and in some cases more.

We don't want a breeding female that has been driven almost to death in the effort to manufacture a 200-egg hen from a 100-egg hen as raw material. We don't want eggs for hatching from such females, or breeding males that are sons of such females. If John XYZ has produced superior layers by correct breeding and wise methods of maintenance I can see no reason why he should be criticised for saying so, or why we should condemn his birds merely because he knows what they are.

There can be no doubt that some poultry keepers have employed every available means which in their opinion would force a large egg yield and have then attempted to reproduce, by breeding from them, those birds which laid the most eggs. Such a course could hardly fail, with ordinary flocks, to defeat the very object sought. Infertile eggs, eggs not sufficiently stocked with nourishment to support the germ, poorly hatched short-lived chicks and degenerate stock very naturally result from such methods. It is not reasonable to suppose that experienced, well-informed breeders would pursue such a course or that any one would pursue it long.

If stimulating the flock to the limit of their capacity for market egg production is practiced for the sake of immediate profit it seems reasonable to believe that many of the birds will be unfit for breeding purposes in the spring. Forcing for eggs and breeding for eggs are in my opinion two different and antagonistic propositions. But I do not believe that properly feeding a laying hen so that she will maintain her vigor and a large egg yield is necessarily forcing her.

To such of my readers as are inexperienced in poultry matters I will say that no reader of a poultry paper is supposed to believe all that he reads, for or against anything, neither is he advised to buy eggs or stock from every one who has them for sale.

In the next paper I will have something to say of the persistent layer as she appears to those who have carefully noted her laying habit.

(Continued in June.)

**Notice to Users of Successful Incubators.**

The Des Moines Incubator Company, at Des Moines, Iowa, is preparing what promises to be one of the best poultry books ever issued by an incubator company, and desires to include in it articles on successful incubation from users of the Successful or the Eclipse incubator. They therefore offer a prize of a No. 4 Successful Incubator to the person who will submit to them, prior to June 30th, the best article on the use of incubators. The article must be written by some person who operates one of the Des Moines Company's machines, and must not contain more than one thousand words.

Address, Prize Editor, Des Moines Incubator Company, Des Moines, Iowa, and mention P. K.

**Sunflower Seed.**

Send twenty-five cents and secure post-paid a one-pound package of sunflower seed for this year's planting. Yield very prolific, running from 50 to 75 bushels per acre, and requiring only three pounds to seed an acre. This makes a cheap and valuable poultry food and is fine for egg producing. Poultry Keeper Publishing Co., Quincy, Ill.

**Keep an Egg Record.**

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of six cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

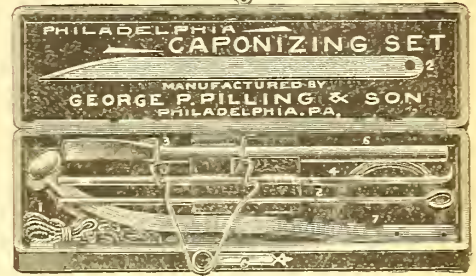
Wm. Maxwell, Bloomington, Ill., having only a couple of city lots, finds himself overstocked and therefore offers extra inducements in stock for next thirty days. His Leghorns are the famous Wyckoff's strain and Wyandottes are from cock that took first at Illinois State show at Joliet. See his ad on inside front cover of this issue.

The attempt to economize in space in brooders leads to much loss. The majority of persons show a disposition to keep as many chicks as possible on the space occupied by a brooder. Nature does for them just what the owner should do—thins them out. If not over twenty-five chicks are together they will thrive better than when in lots of fifty or one hundred and more chicks will be marketed. It does not pay to economize on space when the penalty is loss of chicks.

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing

Set. They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing

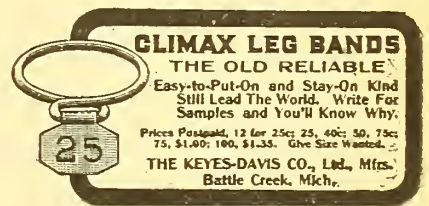


instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**WHITE LANGSHANS AND BUFF LEGHORNS**—Prize-winners at leading shows of country—Boston, New York, 1903). Stock and eggs for sale. Buff eggs, \$5 sitting; Leghorns, \$3. Please mention Poultry Keeper. Chas. M. Clime, Terre Hill, Pa.

**White, Golden, Silver Wyandottes,**

B. and W. Rocks; White, Brown Leg.; Black Hamburgs, Light Brah.; Leghorns; R. C. B. Bants; Bronze, White, Narra, Turkeys; Geese, Ducks, Scotch Collie Shepherd Dogs. Prices reasonable. Best quality. Prompt service. Low express rates. Satisfaction guaranteed. Chas. McClave, Box 700, New London, O.



**IMPORTANT AND PROFITABLE.**

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three" for \$1, we

**POULTRY KEEPER, Quincy, Ill.**

will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

*Enclosed find one dollar for three subscriptions to Poultry Keeper for one full year:*

|   | NAME | POSTOFFICE | STATE |
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| 3 |      |            |       |



## DO YOU WANT EGGS CHRISTMAS?

W. W. Kulp, Pottstown, Pa.

It seems to me that now is a good time to answer a number of Poultry Keeper readers who wrote last winter, and at the same time help those who this coming winter will want to get the hens and pullets to laying. You will notice I put hens first, for it is much the largest job to get them to laying, and it would be a great big help if there were no hens in the flock, only early April and late March pullets, or if Leghorns, April and early May, when they are wanted for strictly winter eggs. But Leghorns and Wyandottes, in fact all pullets, pay even up to September.

I had a neighbor come for a sitting of Barred Rock eggs in July. She took fourteen Barred Rock eggs and one Rose Comb Brown Leghorn. In the following March the pullets were like April pullets, and three cockerels weighed almost eight pounds, and three were worth just \$15, in fact, were worth more, but people were glad to get two of them at \$5 each and the one Rose Comb Brown Leghorn sitting produced a \$10 cockerel—over \$30 worth of cockerels in a late July sitting and not picked eggs either.

While I am telling "egg stories" and true one, I will tell one more to show how at times whole sittings will go "bad" for us and then again just one egg will do so well. A man came here from over country seven miles for three sittings, two Single Combs and one Rose Comb Brown Leghorn. When he was about home a boy said, "Give me an egg?" He gave him a Rose Comb Brown Leghorn egg. It hatched and produced a cockerel for which the man who gave the egg paid \$5. It was better than the remaining fourteen produced.

Now for the eggs for market. The special point I want to impress this time is this: Don't let your young "just grow up," like Topsy in kind of a half starved way. I have watched for years, and I am sure those slow grown pullets are hard to start to laying and never make the steady, even, hard-stop-laying pullets that can be produced by good, generous feeding from the start. I am as sure of this as anything.

Better by far have a pile of wheat and corn out where they can go any time, than feed too little. It will pay in dollars, and if the young have a grass or clover run, I doubt if you can grow better stock. My father always fed that way, and he made money, and I rather like it, but don't always do it, but when I do I have the largest and strongest young of any way of feeding.

If the range contains many chicks (say from one hundred and fifty to four hundred or over) the worms and insects become much too few during the dry months, like July and August and the first part of September. It will always pay to provide animal food in some form—beef scraps, lights and livers boiled and ground, or milk scalded and drained, or the milk to moisten the fine feed.

Don't try to produce eggs out of season without animal food of some kind. You can do it but my advice from years of experience is, you can do it cheaper with it. It is a great help to have stock of a laying strain, but there is much more

them. Two hundred and forty-two eggs a year pullet or a 200 egg pullet must have a 200 egg man or woman to look after them.

J. F. Scholz, Erie, Pa., is a specialist of prize winning Golden Wyandottes that can hold their own in any contest. At the great Rochester show his birds won 4th cock, 4th hen, 4th and 5th cockerels and 4th and 5th pullets

The few two year-old hens you have been wintering will give you the best hatching eggs during March and April. These birds have done little laying through the cold days, are sure to be more mature than the pullets, and lay large eggs. Mate with them a fully grown cockerel, or a year-old cock, and give as free range as possible.

Every subscriber to Poultry Keeper, when he sends in 50c for a year's subscription, buys the right to ask for special articles published on poultry work. Please remember this and "ask for what you want."

The dry feed method of bringing up chicks is gaining friends every day. It lessens the death rate and is much more simple in using from day to day. Dry grain, meat scraps, grit and a grass run will give grand results. Try this method!

**IRON AGE IMPLEMENTS**—Swiftest, surest, easiest, cheapest, needed every day from April to October. *New Iron Age Book Free*; describes everything needed in this line. **BATEMAN MFG. CO.**, Box 25, Grenloch, N. J.

**HANDSOME WATCH**

**FREE** Watches or 50 other premiums given away for selling 20 packages of bluing at 10c each. Send your address and get bluing and premium list postpaid. When bluing is sold send the money and select your premium. Address **Excelsior Bluing Co.**, Dept. 139, Chicago

**Hardings Uncle Sam Poultry Remedies**

Are guaranteed to cure or your money back. **Roupe Cure, Cholera Cure, Antiseptic Lice Killer, Egg Producer.** Don't fail to try the Harding Matchless **Baby Chick Food.** Complete line of poultry necessities. Catalogue free.

**GEO. L. HARDING, MFR**, Box 111, Binghamton, N. Y.

**GET A DANDY**

**THE DANDY BONE CUTTER**

will double your egg yield. Thousands of poultry raisers say so. It costs less, turns easier, cuts faster and lasts longer than any other. Price \$5.00 up. Sold on 15 Days' Free Trial. Send for book and special proposition.

**STRATTON MFG. CO.,**  
Box 48, Erie, Pa.

**50c PER DOZEN.** \$3.50 per 100. Wyckoff strain White Leghorn eggs. Cockerels \$1 each. New illustrated circular free if you mention Poultry Keeper. **BISHOP POULTRY FARM, Box 38 West Chesbire, Conn., 5-12**

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at very reduced prices. Subscription can begin at any time. If you are already a subscriber to any Magazine, your subscription can begin when present subscription expires. Here are a few samples:

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| Poultry Success          | - | - | 50c |            |
| Poultry Keeper           | - | - | 50c | } Both 65c |
| Vick's Magazine          | - | - | 50c |            |

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For any of the latest \$1.50 books add only \$1.15 to any club.

Until May 30th I will give any reader of Poultry Keeper a yearly subscription to the Rocky Mountain Magazine for only 10 cents, and send my complete catalogue of books and club offers free. The Rocky Mountain Magazine is a typical magazine of the west. Describes the mountains, gives true descriptions of mines, and tells about California, etc. Say saw ad in Poultry Keeper. Send all orders to

**C. J. HOUSER, Subscription Agent,**  
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**BREEDERS' CARDS****TOO LATE TO CLASSIFY.**

20 EGGS, \$1.00; INCUBATOR ORDERS Specialty; all varieties; prize poultry; pigeons, hares, collies, ferrets; catalogue free. **Pioneer Farm Telford, Pa.** 5-4

ALL BEST EGGS 50c per 15 balance of season. Fishel White Rocks, Buff and Barred Rocks, Rose Comb Brown Leghorns. **John B. Rogers, Postoria, Ohio.** 5-1

373 PRIZES. Maturity at 4 months. White, also Single and Rose Comb Buff Orpingtons. Stock, eggs, reasonable. Southern Poultry Courier with order. Orpington—Belgian Hare booklets. **J. W. Eastes, Illinois Vice-Pres. American Orpington Club, Galesburg, Ill.** 2-6

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**PRIZE SILVER LACED Wyandottes** for sale. Eggs, \$2 sitting. **Alexander Bros., Randolph, N. Y.** 2-3

## WHY SITTING HENS LEAVE THE NESTS

In nearly all cases it is because they are so pestered with lice. Of course the hen does not know that the eggs may have cost you \$5 a setting—she leaves just the same. **Prussian Lice Powder** dusted freely on the nest and eggs once each ten days does the business. Does not injure the eggs, and the little chicks will be free from lice when they come out. Should you like the liquid better, don't forget our **Prussian Lice Killer**.

"I have used Prussian Lice Killer for chickens and also for horses, and same has given entire satisfaction.—RIMOND LENTZ, Jericho, Wis.

Price 25 and 50 cents per can. Remember also our famous **Prussian Poultry Food**. If your dealer does not keep any of these, write us. We will supply you and send you our 68 page book free.

**PRUSSIAN STOCK FOOD & REMEDY COMPANY, St. Paul, Minn.**



**IMPROVED SYSTEM OF CARING FOR POULTRY.**

(Continued from Page 64.)

wings of the Leghorns from drooping to the ground and also pushes the broilers along finely. At the age of two to three weeks the Cyphers Chick Food is gradually replaced by cracked corn and wheat.

People who have not used these ready prepared foods know little of their value. Corn is an excellent feed for laying hens when fed in moderate quantities. Leghorns, as a rule, will stand more corn than the large breeds. Corn should be fed somewhat sparingly to the large varieties.

As regards the most profitable breed to keep we would say that there is practically not much difference. The large breeds make up in market what the Leghorns gain in eggs, and vice versa. It is generally best for people adopting a breed to take the one best suited to their location as regards getting their produce to market. It also depends on a person's like or dislike for a breed of fowls.

No man ever made a success of poultry raising who had a flock of fowls, no matter how well bred or how much they cost, that he did not take a liking to.

No man has a paying flock who does not take some pride in them. He should also take as many poultry journals as he can afford, the more the better, but make good use of what you do take. In fact, no man ever made a success of any business who did not make a study of it.

In short, if you think fowls do not pay, get out of the poultry business, for as long as this remains in your mind they never will pay.

As regards feeding vegetables, cabbage and mangel wurzels and beets are a very suitable food. We prefer the beets on account of their keeping qualities.

Locations of poultry plants have a decided advantage. Our plant is situated about eighty rods from the freight, express, telephone, telegraph and post-offices, thereby giving us the advantage of prompt delivery to our customers, both winter and summer.

**KEEP AN EGG RECORD.**

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The book is sent for 10 cents in stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**PARTRIDGE WYANDOTTES HILERIAN STRAIN.**

Winners wherever shown. Eggs, \$3 per 15; \$5 per 30. Some fine S. C. W. Leghorns, high quality. Leghorn eggs, \$1 and \$2 per 15. Stock both kind for sale all times. Catalogue free.

HILER BROS., Box 6, Prattsburg, N. Y.



**HANDSOME WATCH FREE**  
We give a guaranteed stem wind, stem set watch, also chain and charm.  
Watch warranted to keep good time. **FREE** for selling 20 useful articles at 10 cents each.  
Handsome jewelry and home supplies. Agents often sell all in one home. Send your address and we will send goods and large premium list postpaid. When sold send the \$2.00 and we will send watch, also chain and charm.

Royal Supply Co., Dept. 3, Chicago.

**CHAMPION GOLDEN AND WHITE WYANDOTTES.**

Our birds have won more than 200 premiums at the New York Show. They win at Chicago, Boston, Psn-American and all the largest shows for the past 15 years. Lots of fine birds to spare at very low prices. Eggs from finest matings, \$3 per sitting; \$5 for two sittings; second grade matings \$2 per sitting; \$3.50 for two sittings; \$8 per 100. All from very fine high scoring birds. Our whites are dead white. The Golden are the true golden bay. Also imported Belgian Hares. Large circular free.

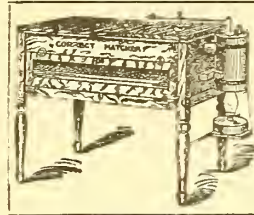
IRA C. KELLER, BROOKSIDE FARM, Box 10, Prospect, Ohio.

**SWAN'S FELT ROOFING**  
**EXTRA HEAVY**

In use by thousands of poultrymen. For samples, circulars and prices f. o. b. Chicago or New York, address  
**THE A. F. SWAN COMPANY, 116 Nassau Street, New York.**

**...FREE... CATALOGUE.**

A complete book on the subject. It tells all about the "CORRECT HATCHER" and gives you a correct idea on the incubator question. The CORRECT Brooder hovers. The only correct way. Send for catalogue.



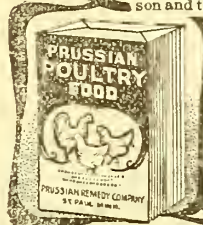
**WE PAY THE FREIGHT**

The new automatic machine. Everyone can operate it: Results guaranteed. The most improved machine. Don't buy until you have seen the "CORRECT." Send for catalogue. It is free if you mention P. K.

**CORRECT HATCHER CO.,**  
BOX A, LEESVILLE, OHIO.

**ALL THE YEAR ROUND**

in sickness and in health, in the laying season, the hatching season and the moulting period, nothing is so good for fowls as



**PRUSSIAN POULTRY FOOD**

People who use it constantly recommend it not only as a flesh, egg and growth producer, but endorse it as a cure for cholera, roup, etc.

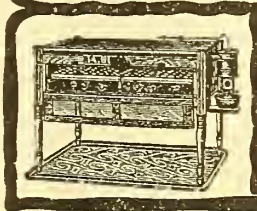
Your Prussian Poultry food is simply immense. I have fed it the last year to my flock of 350 and there has not been a single case of disease of any kind happen to them.—A. C. Myers, Mt. Morris, Ill.

Prices on Poultry Food, pkgs. 25 and 50 cents. If by mail 40 and 75 cents, Pails \$3.50. We also manufacture the famous Prussian Lice Powder and Prussian Lice Killer. Apply to your dealer. If not there write us. We will supply you and send you our 68 Page Book Free. **Prussian Remedy Co., St. Paul, Minn.**



**A 200-EGG INCUBATOR \$8**

Sounds like a fairy tale, but it's a fact. Under our NEW Plan, this first-class Up-to-date **NEW IDEA INCUBATOR**



can be secured at a merely nominal cost. As a hatcher it has no superior. Is built with Double Walls, Removable Egg Trays, Chick Nursery, Copper Heater, Improved Tanks, Safety Lamp, Thermostat, Double Wafer Regulator. Is Self Regulating and Self Ventilating.

**You Save More than Half** by dealing with us. Write to-day for FREE illustrated circular; tells the whole story.

We are the only concern in the country working on this plan. You will wonder as we did that no one ever thought of it before.

**NEW IDEA INCUBATOR** (Channon, Snow & Co.) Box 102 Quincy, Ill. Manufacturers.  
We handle a full line of Poultry Supplies, all at Cut Prices.

**SYSTEM IN POULTRY PRACTICE**

BY JAMES SHACKLETON.

A BOOK of more than 100 pages, strongly bound, closely printed, not clumsy, made for the pocket. 30 chapters. Titles are here. But titles tell very little. It costs only 80 cents to prove this. Is the book every poultry keeper needs. But I will send any one chapter for 10 cents, any two 18 cents, any three 25 cents, any four 30 cents, more than four 7 cents each.

- Feeding of Chicks.
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Postpaid, by JAMES SHACKLETON, Short Hills, New Jersey. Remit by P. O. or Exp. Money Order. (Please Mention P. Keeper.)



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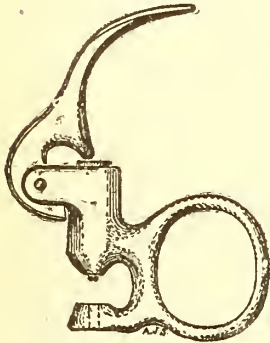
May 1, 1903.

Editor Poultry Keeper.

Our houses and office, with one of our poultry houses, were destroyed by fire on Saturday night last and we lost all our books, letters and addresses of customers. We have no means at present of knowing to whom to send chicks ordered, and as many of our orders have come to us from our ad in your columns, will you kindly state circumstances in your next issue if possible and ask parties who have sent us money to communicate with us at once.

Villevue Poultry Farm Co.,  
Per C. L. Allen, Manager.

**P. K. Poultry Marker.**

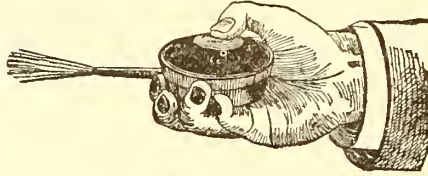


There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the web between the toes. A complete rec-

ord of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, postpaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

**Reliable Insect Bellows.**

For use in dusting insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect pow-



der used. There is no need to waste any powder if you use this bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the Reliable Insect Bellows postpaid. Address Poultry Keeper Pub. Co. Quincy, Ill.

**Pleases His Customers.**

Emanuel Schieber, Brandywine, Ohio, can be trusted to supply good stock and

eggs in White, Barred and Buff Rocks and White and Buff Wyandottes. We know Mr. Schieber and recommend the quality of his stock and his way of doing business. This is the way his customers write him: "I received the birds and am much pleased with them. I want a sitting of your White Rock eggs. You will get my trade.—Ed Kramer, Dayton, O." See Mr. Schieber's ad on outside back cover.

**Sunflower Seed.**

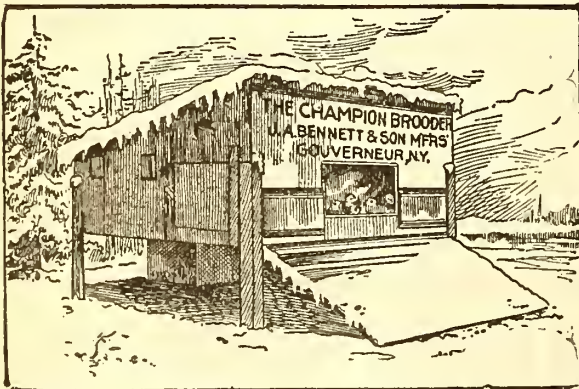
Mammoth white variety, yield very prolific and running from 50 to 75 bushels to the acre. Requires only three pounds to seed an acre. Make a cheap and valuable poultry food and is for egg producing. Growing sunflower plants provide ideal shade for birds during hot summer days. 25c per pound, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

If you have in mind the raising of fall hatched chicks for late winter sales try the large breeds. They mature slowly and do not become tough so soon as do the smaller breeds. The Light Brahma is much in demand in the Boston market for a large spring roaster, and sells at the highest price.

W. A. Congdon, Waterman, Illinois, breeder of up-to-date Barred Plymouth Rocks, is mailing a convincing booklet telling about his stock. Send for copy. See ad on outside back cover.

# THE \$5 CHAMPION BROODER

"IT IS KNOWN BY ITS WORKS."



**The Champion Still at the Front.**

WE are the largest exclusive manufacturers of Brooders in the world. There are more of our brooders sold each season than those of any other five manufacturers. This immense sale must mean something. It means that We Make the Best Brooder in the World To-Day, irrespective of price. We have manufactured brooders exclusively for the past twelve years, and when you buy a "Champion Brooder" you get one in which the experience and study of twelve years is crystallized, thus making the Champion the embodiment of perfection. It was a leader twelve years ago. It is to-day. We make a brooder which is "Champion" in every sense of the word. Its work proves its title. It raises more and better chicks than any other. It raises them indoors or outdoors in the severest winter weather. It never fails to raise its flock without leg weakness, drooping wings, bowel disease or any of the other numerous ailments incident to chickenhood.

It is the only brooder on earth with a **Safety Compartment**, our "Safety Valve." Impossible to overheat the chicks. It is the only portable brooder that has passed successfully through the greatest blizzards of modern times without losing a chick, working outdoors at the time. It is the only brooder on earth with an **EASY CHICKEN FEEDER**, which automatically teaches the chicks to eat and drink. We can enumerate hundreds of other reasons why it is the "World's Greatest," but instead give a few of the many thousand testimonials we have on file.

**Every Purchaser a Pleased Customer.**

REDDEN, Del., March 21, '03.  
J. A. BENNETT & SON, Gouverneur, N. Y.:  
Gentlemen—Enclosed find check for three brooders, which please ship at once. Your brooders worked all right for me last season. I put 155 chicks in two of them and raised 153 to maturity. They beat the old hen all right. I shall want five later on. G.E.COMPTON.  
LINEBORO, Md., Jan. 19, 1903.  
MR. J. A. BENNETT & SON:  
Dear Sirs—Enclosed find Money Order for \$20 for four brooders. I want the No 1 top and bottom heat as that is the kind I have and they are good enough for me. I have also another make, one brooder only, that I got about the same time that I got my other Champions, which

I paid \$16 for and killed enough chicks in it to buy a few Champions. Hereafter I will not experiment with brooders. I will use only the Champion—which gives me satisfaction. Yours,  
WM. H. ROHRBAUGH.  
FINE PLAINS, N. Y., Feb. 6, 1903.

J. A. BENNETT & SON, Gouverneur, N. Y.:  
Gentlemen—Please send me your 50-page catalogue as I think of sending for another Champion Brooder. My sister had a P—O'D—Brooder last year and most of the chickens died, so I got her to get a Champion Brooder. She hatched 135 chicks and raised 133 in the brooder. She wouldn't have lost those only they were weaklings. Very sincerely yours,  
JOHN H. MYERS.

**We Admit Doing the Largest Business in our Line of Any Firm in the Country.**

\$12. A complete brooding establishment.

If you are interested kindly write for our (free to all who mention Poultry Keeper) catalogue containing over a hundred and fifty half tone cuts. The finest ever issued by a brooder firm. Price, Champion Brooder complete and ready to run, \$5. Weight 100 lbs, Combination Brooder and Brooder House,

**J. A. BENNETT & SON, Gouverneur, N. Y., U. S. A.**



## EIGHTY-FIVE AND THIRTY PER CENT HATCHES.

### Why the Difference?

Philadelphia, Pa., April 11, 1903.

Editor Poultry Keeper.

I haven't written to you since last fall, so will take this opportunity to give result of recent hatches. I set two incubators full (250 eggs each) on March 16, in order to have chicks about one week before Easter. Going back to June of last year one of the machines just mentioned made an eighty-five per cent hatch at that time in a room not ventilated, except what might by chance have gotten in, when the door opening into the room would be opened for entering or leaving. The size of the room is twenty by thirty, on the second floor of the building. This time the same incubator was set going in my house cellar. The result was a fifty per cent hatch and chicks nothing to compare with the last June hatch in the same machine.

Machine No. 2 was set with 250 eggs in the same room as No. 1 was in last June. This incubator was my latest get up, but in order to improve (as I thought) on the old machine I put in a three-inch square ventilator instead of round one as was in No. 1. Result was 30 per cent hatch. What are the deductions? Echo answers, too much ventilation, and for the season even too much in the No. 1 machine.

And to my mind, even last June, with less ventilation in No. 1, I would have beaten the eighty-five per cent. That season of the year, or at least the temperature of the atmosphere surrounding an incubator, cuts a very large figure as to ventilating the machine for results. I shall alter the ventilation of No. 2 and arrange it so as to control the ventilation hereafter, being governed in regulating by the room temperature, which of course will be indicated by an ordinary good thermometer.

While on this subject, I recall the experience of a friend at Green Lane, Pa.,

a young farmer whose word I had every reason to believe. In the early spring of 1901 he placed a dozen eggs in a hat box covering them with old underclothing, placed the hat box on the mantelpiece back of a stove pipe which ran from a downstairs room through the ceiling and floor of upper room, the temperature changing from time to time as the heat from the stove was high or low. The eggs and hat box were forgotten until he heard chicks chirping, and upon examination found eight chicks hatched and four non-fertile eggs. Whether this emanated from a brain fertile with imagination or a talent for fabricating, I can not say, but if what he told me is true, some of the pet theories of scientists are knocked skyward.

To look over the ground a little: If the foregoing statement was a truthful one, what about ventilation, turning of eggs, supplied moisture, airing, and many other points of observance, etc., considered necessary by experts and others of experience? I give it as I got it, for what it is worth, if published it may call out similar experiences. Will write you further after next hatch.

Harrison Duffield, M. D.

## GOOD EGG RECORD OF FIFTEEN PULLETS.

Galesburg, Ill., April 10, 1903.

Editor Poultry Keeper.

May I tell what my hens are doing and if it is worth publishing you may do so. I am a great lover of poultry and like to read reports from others telling what their fowls are doing in the way of egg production.

I have fifteen pullets, hatched in May, 1902, which began to lay in December, 1902. During December and January they averaged six eggs per day. During February and March I got twelve and fifteen per day, never less than twelve. Since March 20 I have got fifteen per day. I keep my poultry on a city lot 50x150 feet. For a house I fitted up a pine box, laying it on its back, fitting an

18x18 window in the sloping front and placing the box in an old shed, which protected it on the west and north. Not one of my birds got a frosted comb all winter. In the shed I kept plenty of straw for them to scratch in. For food they had corn and wheat and mash, the mash being given them in the morning.

Mrs. M. E. Aschoff.

## EGG RECORD OF NINETY HENS.

I have ninety hens which since the first day of January have paid for their keeping and kept us in all our groceries. Not only that, but in January, after providing our groceries they had two dollars to their credit, and in February they gave us our groceries and \$2.55 besides. If this is worth mentioning, please do so in your Poultry Keeper.

W. L. Thomas.

Ellsworth, Me.

Many breeders begin to break up their matings in late May—so be on the lookout for a few choice birds to hatch from during June. These birds can be had for half the winter price and will be good for another year's breeding. June chicks will make fine spring breeders as well as be in the best of "good looks" for winter showing. Make a note of this. Many of the winners at the large winter shows were hatched after the tenth of June.

Green food in winter is becoming quite the thing to give our poultry. How about the summer? Are the yards bare of grass? Then dump all the weeds from the garden into the yards. Give green food in summer and gain in the health of your birds as well as in the increased egg yield.

It is refreshing to see the changed standpoint that some of the poultry papers are taking in regard to utility poultry. Large average egg yield and plump poultry do prove factors even in the producing of fancy birds.

# The Way to Make Your Poultry Pay

is to take a correspondence course with

## The Columbia School of Poultry Culture.

This splendidly equipped school is successfully teaching students in every walk of life the art of profitable poultry raising. At its head is Dr. A. A. Brigham, who is acknowledged one of to-day's foremost men in the poultry field, both as a practical poultryman and successful and inspiring teacher. Its faculty is composed of men of highest rank among poultry authorities and most successful breeders in the country.

All their valuable experience is yours for a very small fee. The course will pay for itself in practical suggestions the very first month. It is practical, individual and personal—being specially adapted to the needs and conditions of each individual student.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers and others who love poultry for their own sake, apart from financial considerations, can learn how to keep their pets in the best possible way and obtain the very best results from a fancier's standpoint.

Students are assisted to lucrative positions as managers of poultry plants and the demand for men far exceeds the supply.

A course will fit you to fill a good position at a handsome salary.

Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.

**THE COLUMBIA SCHOOL OF POULTRY CULTURE,** BOX 102, WATERTOWN, N.Y.

**SPECIAL NOTE.**—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.



## BREED FOR EGG PRODUCTION.

Editor Poultry Keeper.

Having studied poultry for a few years I shall venture a few remarks that may set the beginner right in choosing the kind of poultry to keep. The great majority of us desire the kind that lays well. It is to this class I would say first choose the breed you like best, then if you want them to lay well seek out some one who has bred that particular breed for egg production exclusively for a number of years, and you will not be disappointed if you do your part, which Poultry Keeper will tell you how to do. It is in the strain more than in the breed. Prizes do not make a laying hen, since it was prizes and not egg production for which she was bred. I see the waste basket, so I will say no more.

J. J. Barrett.

Ellsworth, Kansas.

## BUFF WYANDOTTES AS EGG LAYERS.

That the Buff Wyandotte was a success as an egg producer early impressed me but it was a great satisfaction to know, from a year's record carefully kept, that my best breeders had laid an average of one hundred and ninety-six eggs during their pullet year.

It is so often the case that we sell birds from our pens during or after the breeding season that we do not know what any lot of birds might have done if kept through the entire year.

After culling severely in the autumn all birds not nice enough to breed from, I resolved not to sell a single bird during the first laying year.

The birds were late May hatched, coming into laying condition early in December. They averaged in weight a little over five pounds, were active in every movement, kept in good health through the entire year.

The "broody spirit" troubled them very little. In fact, the hatching question was a serious one that year. I think each bird was set once during the months of April-June, but only one in three was allowed to rear chicks.

Beginning early in December, until November first, there was a steady flow of eggs, from the largest average monthly yield, in March (27.5), to the lowest, in October (6.25). The winter yield was great. The four months from December through March showing an average, per bird, of ninety-three and one-half eggs. During the eleven months of laying the birds averaged one hundred and ninety-six eggs.

I do not think it was altogether the care and feeding that gave such pleasing results. I know other flocks of Buff Wyandottes in my own town, of my strain, that are doing just as good laying as mine. There is something about the Buff Wyandotte that means business

from the start. They are extra good layers during the season of high prices, and I have found them none the less satisfactory as regards the hatching of strong chicks in the spring.

Daughters of these egg-record birds laid eggs last season that were ninety-five per cent fertile in January, and are the dams of some of the season's prize winners.

Beauty and utility sometimes go hand in hand, and the Buff Wyandotte is a shining example. The egg pail, the meat market, the show room, for all three, the Buff Wyandotte is not excelled.—Dr. N. W. Sanborn in the Buff Wyandotte Club Catalogue.

## A CHEAP POULTRY HOUSE.

R. A. Williams Toulon, Ill.

Being requested by the editor to write an article on constructing a cheap poultry house, I will present to the Poultry Keeper readers the following plan as one that I think a very cheap and good house.

Let me explain here what I mean by "cheap." I do not mean the one that can be built with the least money, but one that when we consider that it is both wind and water proof, and by no means expensive in construction, we may call it cheap.

It has lots of room and plenty of light, two requisites of a good house. It serves its purpose in being used for hens and when not used by them can be used as a brooder house or a room in which to train show birds.

This house may be constructed by setting posts in the ground, but it will be more satisfactory if we make it a frame building. It is built of rough lumber, any size, but 14x16 feet makes a nice house. It should be six feet at eaves and seven feet at peak, which should be five feet from front of house. Cover both the roof and sides with a good roofing felt and you have a house both wind and water proof. There should be two windows in the south and one in the east. Of course any size will do, but we prefer 3x6 (hotbed sash).

The two south windows should be hinged so as to swing together. The door should also be in the south.

This house may be built by any one

and with a small amount of labor and capital and will last a lifetime if kept painted every year.

R. A. Williams.

Bantam hens are growing in popularity. They lay an egg that is all right for home use, are kept on a diet that may be largely table scraps, and need only a small house and yard. They attract attention from passing strangers and many a sitting of eggs can be sold from the door. The little Buff Cochin Bantam male is so stately in his motions and the hen so much like a "little lady" that the children enjoy them as pets. Bantams can be hatched through July, but later chicks are likely to be stunted by cold feather. Hatch from small birds rather than try to avoid size by late incubation.

The May hatched chick if well fed and cared for should come into laying before the middle of December, and prove a profitable bird. Set all the eggs you can now, so as to get the chickens started before the hot days of summer are on us. Late batched chicks must have shade in order to do their best. If there is no shade at hand, provide it by means of boards or brush. Fix some place so the birds can get out of the sun's rays and yet feel whatever breeze may be blowing.

## Samples of the New Crop of Prairie State Incubators.

Newark, N. J., March 21, 1903.

Gentlemen: I have one of your 100 egg incubators and am very much pleased with it. I bought it second-hand. It is now five years old and does as good work, if not better, than when it was new. I brought out last month 75 per cent. I think they are wonderful machines.

(Signed) Yours truly, Wm. F. Lyon.

Stamford, Conn., March 25, 1903.

Gentlemen: I have one of your small incubators and am having very good luck with it. Out of 50 untested eggs I got 37 strong chicks, my last batch.

(Signed) Yours truly, Geo. A. Scofield.

We have received from the publishers, William Wood & Co., of New York City, the 20th edition of "Thomas' American Fruit Culturist," the best known and most valued of any work on fruit culture in the United States. The present edition is nicely printed on good paper, and bound in good style. This is a work that should be in the hands of every practical and amateur fruit-grower in the country, and the more it is studied the greater will be their appreciation of its value.

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# QUESTIONS & ANSWERS

[In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

### OVERHEATED DUCKLINGS—DEFORMED CHICKS.

1—My incubator ducks seemed strong and hearty for about twelve days, then their limbs became so weak they could not stand. Their feet were as though paralyzed, and their bills became very soft and wrinkled up; then they died. I fed them bran, meal and grits slightly moistened and they had access to water always. I lost the greater part of our hatch that way and now when over two weeks old they are attacked with different symptoms. Their head draws back on their back and they twist in every conceivable shape. In a few hours they are dead.

2—We run off our first chicken hatch in hot water incubator and out of fifty fertile eggs we got thirty-four chicks. Some of them looked healthy, while others hatched weakly and deformed, the main deformity being "spraddled" legged, their legs out straight from their bodies. Can you tell me the cause of this condition?  
"Enquirer," Louisville, Ky.

1—The trouble in both cases is doubtless due to keeping the brooder too warm and a lack of animal and green food.

2—Most deformities are caused by variations in temperature during incubation. Either over-heating or allowing eggs to become chilled will cause cripples. Among chicks that are properly incubated and get out on time there are seldom any cripples.

### TEMPERATURE FOR YOUNG CHICKS—LEG WEAKNESS.

How warm ought a room be kept for chicks from the time they are hatched until they are four weeks old? How warm ought a room be kept for chicks from four to eight weeks old? My chicks get weak in the knee joints after they are two weeks old and can't walk. Can you tell me what is the cause of it? I think it is because they don't have enough fresh air.  
C. B. D., Sherman, Mo.

Our plan is to have the brooder heated to 90 degrees and the warmth of fifty chicks will raise it to 100. This temperature should not be maintained more

than a week, when it should gradually be reduced, a degree or so each day, until at the end of the second week it stands at 80 degrees. This is for the hover only, the exercising room being from 60 to 70 degrees. When chicks are four to six weeks old they can be removed to small colony houses having no artificial heat, if the weather is mild, and even in winter, when weighing about two pounds and well feathered out, they can occupy such houses, if they be dry and well protected.

There are a number of conditions that may cause leg weakness, the most common being keeping the brooder too warm, lack of exercise, overfeeding, etc. After chicks are two weeks old they should be got out on the ground every fair day for a short time no matter how cold it is, but they should not be allowed to bunch up and get chilled. Keep them chasing after bits of meat or drive them.

### HOW TO MAKE CHARCOAL.

Kindly explain in your next issue how charcoal is made without burning a cord of wood to procure part of it. My chicks eat it as fast as I can make it and I am getting weary of the contract.  
B. R. D., Hicksville, N. Y.

Charcoal is made by burning wood in a pit. Dry hard wood is used. A hole is dug in the ground, the wood piled into it and then covered with earth, leaving a small opening at the top. A fire of soft, dry wood is then built under the pile and as soon as it gets well to burning the draft opening in the bottom is closed with earth and the fire smolders until the wood is reduced to charcoal.

### LEG WEAKNESS.

I have a flock of twelve White Plymouth Rocks and some of the pullets have trouble with their legs. They are weak. I do not think they are fat, yet

they are in good condition. I feed mash in the morning, green cut bone at noon, wheat and oats at night, and sometimes corn if it is cold.

C. J. R., Philadelphia, N. Y.

Your pullets have leg weakness, probably caused by growing too fast, or from a deficiency of bony matter. We should omit the noon feeding, giving the cut bone either in the mash or with the grain at night. Avoid giving food that has a tendency to produce fat. Should you desire to doctor them individually, the following pill, given three times a day, will produce good results:

Sulphate of iron, 1 grain.

Strychnine, 1-16 grain.

Phosphate of lime, 5 grains.

Sulphate of quinine, 1/2 grain.

### SUNFLOWER SEED—WATER GLASS.

1—Is it injurious to chickens that have free range to have access to a sunflower field when the seeds are ripe? The Leghorns will fly on top of the stalks and get all the seed they want.

2—Will water glass in any form keep eggs so the whites will not get thin? We put them in a ten per cent solution of water glass, but our market objected to such eggs, fearing the white and yolk would mix in shipping, and boarding houses would not take them. They said they could not cook them properly.  
Mrs. S. W., Owl Hollow, Tenn.

1—No, the hens are not apt to eat too many of the sunflower seed.

2—The whites of eggs kept by any process will become more or less watery, but those preserved in water glass are no more so than the cold storage article. We have kept eggs in a five per cent solution for six months without hearing any complaint from them. Of course, they were not sold for fresh eggs and the customers did not expect a first-class article. Table eggs should be fresh and particular people who want them for this purpose are usually willing to pay the difference in price.

### RATION FOR SEVENTY-FIVE HENS.

How many quarts of feed per day should seventy-five fowls receive? I feed nine quarts of grain and three quarts of beef scraps, and my hens have shells, fresh water, grit and green food every day and still do not lay but about one dozen per day. Please tell me what else I need. The grain consists of oats, corn, wheat, buckwheat, and the mash is mixed feed—meal, oat feed and clover meal.  
B. E. T., Westboro, Mass.

It depends on the weight and breed of the fowls. Hens weighing from three to

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four pounds require about three and one-fourth ounces of food per day each, while those averaging six pounds require four and one-fourth ounces. The more a hen exercises and the more green food she consumes the better she will assimilate other foods. We should think you were feeding a sufficient quantity, but would suggest that you add some wheat bran to the mash. Perhaps there are other conditions lacking aside from foods. The hens may be out of laying condition and require extra care to get them in shape.

#### DO BUFF ORPINGTONS FADE?

Is it a characteristic of the Buff Orpington hen to fade in color when she is a year or so old?

B. M. R., Lamont, Ia.

It is common for the buff fowls to grow lighter after the molt. Pullets of light buff, so much sought after, have been known to "go all to pieces" as hens, showing white in wings and tail as well as fading sadly. The color pigment was not strong enough to withstand molting. It is not so common among the darker shades of buff fowls.

#### BOARD FLOORS—CARROTS—ALFALFA.

1—Will it hurt chicks to keep them on a hard floor while they are yet too young to be given the freedom of the yard?

2—Are carrots as good as mangels?

3—Will alfalfa chopped and steamed prove as beneficial to hens as the clover?

Mrs. J. A. R., Kallspeil, Mont.

1—Yes, keeping chicks on board floors is slow but certain death. Cover the floor of the brooder with earth, chaff or a burlap sack.

2—There is very little difference. Both are good, but mangels are the easiest to raise.

3—Yes.

#### LIGHT-COLORED YOLKS.

What causes yolks of eggs to be light in color and how can they be made yellow, especially in winter?

R. J. A., Antrim, N. H.

Some foods have a tendency to produce light-colored yolks. Corn makes heavy, rich yolks, but cannot be fed in large quantities when heavy egg production is wanted. Venetian red (a preparation of sulphate of iron) fed twice a week in the mash (just enough to make it a deep pink) will increase the color of the yolk.

#### RED PEPPER AS A STIMULANT.

Will you kindly give me your candid opinion in regard to feeding laying hens red pepper in place of the numerous condition powders that are advertised, and also how much at a time and how often to a flock of twenty-four hens?

E. L. Von S., Bethlehem, Pa.

A little red pepper, fed as a condiment, may be beneficial, but its use in large quantities, as is often recommended, is harmful. Use it only when wanted to improve the flavor of the mash.

#### QUESTIONS FROM A BEGINNER.

I have a poultry yard of about three-fourths acre and about seventy-five chickens. Does that give them plenty of room? My yard has lots of heavy wire grass in it. Would you burn this grass or have it for chickens to scratch in? I am a beginner and have nothing but common chickens. Do you think it would pay

me better to have a fine bred cock? I have raw rice that I sow broadcast for them to scratch for. Is it good for them?

W. B. W., Fairfax, Ga.

Three-fourths of an acre should give ample range to seventy-five fowls. It will probably improve the grass to burn it once in two or three years. It is a good plan to grade the fowls up by using a pure male, if you do not decide to keep pure bred fowls altogether. Rice in any form is excellent for fowls as a part of their diet.

#### TO PREVENT EGGS FROM HATCHING.

1—Will you please state in Poultry Keeper what to do to prevent eggs from hatching?

2—Do you think it advisable to breed the same cock more than one year, that is, with the same chickens?

K., Scott, Wis.

1—Immerse the eggs in boiling water, grease them or pick a pin-hole through the shell.

2—Yes. If they produced good stock one year they will the next.

#### EARLY CHICKS.

Will you please tell me what is the best way to raise early chicks, when your chicken house has no heat in it, but you have a cellar where you could keep them, that can be regulated to any temperature?

F. H. B., Watertown Arsenal, Mass.

If the cellar is light and so arranged that they can be kept near a window where they can get sunshine it may do to raise chickens in. An out door brooder set in the chicken house would probably answer the purpose if the weather is not too severe, but chickens must be got out in the open air and sunshine to thrive.

#### POISONING HAWKS.

In a recent issue of Poultry Keeper a contributor tells how to rid a place of hawks by putting strychnine on the heads of the young chicks. If not too much trouble, I would like to ask about the strychnine. We felt afraid if it was applied to the chicks the others would detect the honey or molasses and pick at it and so lose them. If there is a particle of food on the feathers the others always eat it. I would be extremely glad for your idea in regard to applying it, if you think it safe to do it.

F. C. C., Sandy Creek, Me.

If the hawks are numerous it will require the sacrifice of quite a brood of chicks to kill them off in this manner. The best medicine for hawks is a shotgun. If strychnine is used it would be a good plan to apply it to only a few chicks and keep the balance of the flock confined while they were allowed to run. If placed on all the chicks there is danger of some of them getting it.

#### DIARRHEA.

Will you kindly publish in the next issue of P. K. a diarrhea remedy for grown fowls? Occasionally I have one get sick from that cause, is sick a few days and

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then dies. Sometimes I can stop it with coal oil, if taken in time, but most of them die. It is not cholera, as most of them would have it at the same time.  
C. O. C., Valleton, Calif.

The early stages of diarrhea can be checked at once by giving a feed of boiled rice mixed with Venetian red (common red paint made of sulphate of iron). Use enough of the paint to make the mass a bright red. Douglas mixture in the drinking water of soft food is also beneficial in this disease.

**INDUCING BROODINESS.**

Is there any way in which a hen can be made to sit? How can I induce broodiness?  
G. H. R., Caledonia, O.

Broodiness can be fostered by feeding largely on corn or a like fattening food and placing a number of nest eggs in the nest.

**NUMEROUS QUESTIONS.**

- 1—Do you consider the Buff Orpington a better all-around fowl than the White of Buff Wyandotte?
- 2—Can a pullet from a high laying strain, that has laid since Dec. 1st last, produce as vigorous chicks as one that does not lay until spring, if not stimulated to it?
- 3—What would you consider the right price for green bone already cut? I can get it that way, but consider the price too high.
- 4—What would be best to sow in an orchard for green food for laying stock to run in after it had grown some?
- 5—At what age do Brahma pullets begin to lay? I have some about ten months old that have not laid yet. Would you breed from them this spring?
- 6—Can ducks be crate-fattened with success?  
C. A. B., Berlin, Ont., Can.

- 1—No.
- 2—Probably not, yet we should prefer the chicks from the winter-laying pullet for breeders or laying stock.
- 3—From 2 to 2½ cents per pound.
- 4—Clover.
- 5—About eight months. Some begin earlier, others later. Your pullets may make all the better breeders on account of slow development.
- 6—Small pens are preferable to crates for ducks.

**RUNTY PULLET.**

I have a pullet mated last May. Soon after she feathered I noticed two bald spots on her head, and since that time no feathers have grown there. What is the cause? This bird is active and seems as healthy as the others, but is very poor, not weighing more than half as much as others hatched the same time, and when examined after feeding, the crop seems to be full and packed, but not larger than a walnut. What is the cause, and is there a remedy? She has a good surface color, and a rich under-color, and

I do not like to discard her. Should, or should I not, breed her?  
Jos. M. B., Fremont, Ohio.

We should judge that the pullet was a runt, due to an imperfection in the egg or faulty incubation. The bald spots may be from various causes. Anoint them with vaseline. Give a mild tonic such as Douglas mixture, and feed well. She may come out all right. We would not like to breed from her this season.

**TEMPERATURE FOR PRESERVING EGGS.**

I noticed in a recent issue the question asked and answered regarding the amount of water-grass to be used in preserving eggs. What is the requisite temperature of room to keep the eggs five months?  
James B., El Dorado Springs, Mo.

Any temperature below 60, we believe, will answer very well. A cool, well-aired cellar is a good place for storing eggs preserved in water glass.

**ROSE OR SINGLE COMB BLACK MINORCAS?**

Do the Rose Comb Black Minorcas lay as large an egg as the Single Combs, and are they as large a bird?  
A. J. K., Orono, Ont., Can.

They should be identically the same, with the exception of the comb. The eggs of some strains are slightly smaller.

**ABOUT VIRGINIA.**

I have a few questions to ask you. If you or any of your subscribers could answer them I would at any time return the favor.

What is the climate of Petersburg, Va? What is the average temperature for July and August; also the winter months? Is that part of the country good for poultry raising, meaning markets and shipping; also for general farming?  
A. M. L., Rochester, N. Y.

Virginia has a beautiful climate, generally speaking, and portions of the state are excellently adapted to farming and poultry raising. The mean annual temperature at Richmond is 56. We do not know anything of the conditions around Petersburg, and would be pleased to have some of our readers in that vicinity give the information sought.

**FERTILIZING THE EGGS.**

If a rooster serves a hen once is it sufficient for that one laying and will all the eggs hatch, or be fertile?

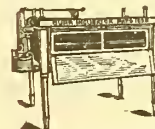
Is the same true about turkeys as about hens?  
C. P. G., St. Josephs, Ohio.

One copulation may fertilize ten or fifteen eggs or only one, according to conditions. All of the eggs do not generally

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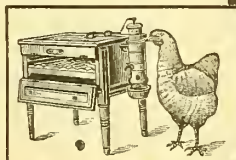
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come fertile. In one experiment a hen removed from the male laid nine eggs; the first, third, fourth, sixth, eighth and ninth were fertile. The minute organisms in the spermal fluid of the male attach themselves to the walls of the oviduct and as the yolk of the egg, which contains the blastoderm, passes through the oviduct where it is clothed in the various layers of albumen or white, these little organisms are carried in the first or more watery layer of albumen into the egg and make their way to the blastoderm. In order to fertilize the egg they must reach the blastoderm, so it will be seen that there are chances of eggs being infertile even when the male is attentive.

Turkeys, unlike other domestic fowls, fertilize the eggs of an entire litter with one copulation.

### PROBABLY RHEUMATISM.

Will you or some good authority tell me what is the cause of chickens becoming lame in one leg as if paralyzed? It affects both males and females and none ever recover. I have had several cases of it and could never find anything that would cure. I should like to know a cure for this disease, and how to prevent it. Is this disease contagious? I have Barred Plymouth Rocks. They have full range on the farm, and have access to most anything they want to eat. Are Plymouth Rocks more liable to this disease than other breeds?

H. W. D. Beardstown, Ill.

Your fowls probably have rheumatism, but the description of the symptoms are not sufficiently definite to determine positively. This disease is usually caused by exposure to cold or wet, wet roosting places, etc. Place the affected birds in warm, dry quarters and feed a stimulating food containing some meat. Rub the legs with hot mustard water and give bicarbonate of soda in the drinking water in quantities of about a teaspoonful to the pint.

### RATION FOR 100 LEGHORNS.

1—What is the proper quantity of wheat, oats and barley for morning and noon feeds for 100 Leghorns? Propose feeding a mash at night composed of equal parts by weight of wheat, oats, bran, middlings, cut clover (by measure) and beef scraps three and a half pounds. Kindly advise if ration is too wide or too narrow; also any alterations which would better same.

2—How is a ration compounded, as for example, a ratio of 1 to 4? Does 1 represent the protein, and 4 the fat and carbohydrates? Have a few farmers' bulletins from "Experiment Stations" which give me the composition of foods.

N. H. W., Port Washington, Wis.

1—You do not state how much mash you will feed except that it will contain 3½ pounds of beef scraps, so we will prepare the ration from the ingredients mentioned and mixed as stated. If fed at night the mash may constitute one-half of the day's ration. Then we would feed 11 pounds of the mash food, including the 3½ pounds of beef scraps at night, and 10 pounds of whole mixed grain, scattered in deep litter, in the morning. In addition to this there should be a light feed of green food at noon or in the morning, whichever is most convenient. The ratio of the ration is about right for spring and fall. In the winter we should substitute corn meal for the wheat in the mash and give some whole corn in the grain food.

2—Yes. The one represents one part of protein to four parts of carbohy-

drates and fat. As fat contains 2¼ times as much heat and force as carbohydrates it is reduced to its starch equivalent by multiplying it by 2½ before adding it to the carbohydrates.

### A BEGINNER'S METHODS.

Please tell how I could arrange and manage White Wyandottes to advantage for market and egg production? My poultry house is 8x20x6 with a gable roof (east and west). The north roof extends to within twenty inches of the ground. A window is in the south wall and a door in the west end. A platform thirty inches from the floor 4x8 feet; one foot above this are eight roosts (2x4 inch timber with edges rounded) situated an equal distance apart, cross-ways of the platform. I have nest boxes on the floor, in the shed and other places convenient. My flock consists of thirty-four hens and two cocks.

Every morning I scatter about three and one-half pounds of whole wheat in a litter of straw; then I do not feed them any more until night unless it is a disagreeable day so they cannot get out to find green food. Then I do not wait until night, but scatter some wheat under the shed named. Otherwise I do not feed until night, only giving a half ration of wheat near four o'clock. The flock has the range of the farm, therefore they find green food. Grit and water are convenient for them all the time, also dust boxes. I am getting from twenty to thirty eggs every day.

Is air-slacked lime a sufficient disinfectant in house, nests and on floors, platforms and roosts?

A. P. B., Bloomington, Ind.

The egg yield seems to indicate that your management is good. We should vary the grain feed, giving some corn, oats and other grain if convenient, also beef scraps or cut bone, instead of all wheat. As the season advances the ration can be cut down, as the fowls will find more food on the range.

Road dust is better for disinfection than lime if the droppings are to be saved for manure, as the lime frees the ammonia, making them less valuable. You will need to take some further precaution against lice. The building should be whitewashed three or four times a year and carbolic acid or sulphur added to the wash, or sprayed with ker-

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From the five best ROSE COMB and the five best SINGLE COMB pens on the

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in the hands of leading poultrymen everywhere give best satisfaction. Leo J. Riggs, of Grand Rapids, says "I lost three chicks out of 130 in two brooders. They were snowed under for three days."

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**IDEAL ALUMINUM LEG BAND,**  
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**CHEAPEST AND BEST.**  
12 for 15c., 25 for 30c., 50 for 50c., 100 for 75c.  
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### ..Barred Plymouth Rocks..

Double mating system used. Ancestors have won 1st in largest poultry shows in U. S. A. Also S. C. White Leghorns. Stock for sale. Eggs, \$2 per sitting of 15. Mention Poultry Keeper.

Buckeye Poultry Yards, W. R. Webb, Mgr., West Unity, O.



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Built RIGHT SIDE UP. The machine that uses a hover blanket. Has 10 distinct points over all others. Write for free catalog and mention P. K.

STANDARD INCUBATOR CO.,

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### YOUNG CHICKS

Thoroughbred and market. Two to six weeks old.

Shipped safely any distance.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

**VILLEVIEW POULTRY FARM COMPANY,**  
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### YOUNG CHICKS



Just hatched from Barred and Buff Rocks and S. C. W. Leghorns, at 8½c. to 15c. apiece. Distance no objection. Send for circular and be sure to mention Poultry Keeper. 2-7

JOS. D. WILSON, Stockton, N. J.

### Standard Bred Light Brahmas

Eggs, \$2 per 13. Cockerels and pullets, \$2 up. Fine large birds that will please you. A genuine egg recipe to make hens lay for 50 cts. Beats all prepared foods. Worth \$50 to poultrymen. Have plenty of eggs when prices are high. Recipe free with fowls or eggs.

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We supply you the breeders and buy all you raise. Particulars and book, illustrating and describing all varieties and how to care for them 7 cents. Hundreds for sale. Homers, Runts, Dutchess, Dragons, Carriers, Barbs, Pouters, Fantails, Tumblers, Owls, Tarbits, Blondettes, Satinettes, Magpies, Swallows, Archangles, Nuns, Starlings, Trumpeters, Jacobines, Helms, etc. **WM. A. BARTLETT,**

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Breeds Prize Winning Barred Plymouth Rocks, Single Comb White and Rose Comb Brown Leghorns, Single Comb Black Minorcas, White Wyandottes, Single and Rose Comb Rhode Island Reds.

EGGS, \$1 PER 15.

Order direct from this ad or send for circular. My motto is honest dealing and prompt shipments. My winnings in the past six years are 24, 1st; 10, 2d; 2, 3d; 1, 4th. 1-12







**Guaranteed Incubators.**

An incubator is purchased for a specific purpose—for hatching chicks. If it does not do that, or if it only hatches a small part of the eggs consigned to it, it is a failure and its purchase is a waste of money.

There is a way now of buying incubators on trial. The Hawkeye Incubators are sold on thirty days' free trial, long enough to go through with one complete hatch and enable the purchaser to be sure he is getting what he wants. The Hawkeye Incubators and Brooders are all guaranteed, as it is the wish of their makers to have every customer satisfied. They consider that as their best advertisement.

The new Hawkeye Incubator catalogue is full of pictures and facts and many letters from all over the Union attesting the excellent hatches these machines have made.

If any of our readers have not as yet received this catalogue, they can obtain one by writing the Hawkeye Incubator Co., Box 5, Newton, Iowa. Mention P. K.

**Have Not Lost a Single Chick.**

The following letter is especially interesting at this time. It is presented to show what excellent satisfaction "Chamberlain's Perfect Chick Feed" gives:

Webster Groves, Mo., March 26, 1903.

Mr. W. F. Chamberlain.  
It is with much pleasure that I am able to state the following: On February 14th I set out 120 pure White Leghorn eggs, using a "Prairie State Incubator." There were seven (7) eggs tested out. Of this lot I hatched 92 healthy chicks. These chicks are to-day ten days old, and I have not lost one. I cannot help but lay a great share of my success to the use of "Chamberlain's Perfect Chick Feed." Heretofore, I have lost from 10 to 15 per cent of my chicks through bowel trouble. I cannot praise you enough for your exertions in getting before the people your wonderful chicken food. I only wish people knew you as I do, for they would not hesitate in trying this feed. Once used, you would be sure of a good customer in the future.  
Geo. Gurney,  
Frisco Ry.

**Advance Fence Buying.**

In the face of all comers, the old reliable Advance Fence, which is seen advertised in our columns year after year, stands immovable. It has the reputation also of standing equally well against storms, extremes of weather and the incursions of all farm stock. Another item for which Advance Fence stands—highly appreciated by the farmer—is low price. The company manufacturing the Advance Fence is the one notable concern which has long been selling their entire product direct to the farmer and builder, and does not allow a pound of it to go through the hands of jobbers and dealers. This secures to all the same uniform, low price, the consumer getting the benefit of all profits and commissions, which in other forms of marketing, must go to increase the price. Considering the undoubted high quality of the fence, the soundness of the manufacturers, the principles so rigidly adhered to in the selling and the very reasonable prices which are always made to prevail, there is little wonder that Advance Fence has reached so great a popularity. It pays fence builders to get in touch with the company when getting ready to buy. For special prices to Poultry Keeper readers address Advance Fence Co., 140 R St., Peoria, Ill.

The Live Stock Department of the Louisiana Purchase Exposition was virtually organized only since the first of the year, and hence its plans are far less advanced than is desirable. Work on the classifications and the rules and regulations governing exhibits is now, however, being energetically pushed by the department's chief, Mr. F. D. Coburn, who is placing himself in the closest possible touch with breeders of improved stock everywhere with a view to utilizing their best ideas for making their feature of the great exposition what it should be. The exposition management has planned an exhibition on a scale about twice as large as that of any previous international exposition. The cost of the World's Columbian Exposition at Chicago was about nineteen million dollars; the estimated

cost of the St. Louis World's Fair is near forty million dollars. The live stock interests at the Louisiana Purchase Exposition are likely to be given proportionate attention. Classifications will include all recognized improved breeds. It is expected the friends of all the varieties of live stock, pigeons, poultry, pet stock, as well as horses, cattle and other ruminants and swine, will find at St. Louis much greater recognition than has been given them on any previous occasion.

**Steinmesch "Extra Quality" Chick Feed in California.**

By special arrangement we are now prepared to deliver our "Extra Quality" Chick Feed to all sections of the Pacific Coast at \$3.25 per 100 pounds when ordered in lots of 300 pounds and over. Prompt shipment via fast freight. Try the Steinmesch Feed and you will want no other. It produces results; raises all the chicks that can be raised. Remember we pay the freight. See ad on page 51.

H. C. Beebe, proprietor of the Kinghill Egg Farm, of Banner, Ill., Single Comb White Leghorn specialists, reports a big trade in eggs, especially in Missouri and southern and western states. He makes a straight price of four cents per egg from standard-bred stock. Ad on page 54.

W. W. Kulp, of Pottstown, Penn., can justly claim that his Leghorns and Wyandottes are unexcelled as layers. (See egg record in ad on page 55.) Stock that can make a record of 237, 242 and 250 eggs per year is the kind that is worth paying the highest price for, but Mr. Kulp sells both stock and eggs at real bargain prices.

Wilber Bros., Petros, Tenn., have closed out their Barred Rocks and will breed only their excellent "Gem Strain" of Single Comb White Leghorns. For ten years they have been bringing their Leghorns to a high state of perfection, both as regards standard requirements and egg production. We are free to recommend this firm and their stock.

The Oakes Mfg. Co., Bloomington, Ind., have issued a new book telling about their incubator and brooder supplies and poultry specialties. Everybody who owns an incubator is requested to send for a copy of this book, which is sent free of charge if you mention P. K. They have been engaged in this business for ten years and have perfected an excellent line of articles to help in artificial hatching. See ad on page 84.

There are mighty few fanciers and breeders of standard-bred poultry that have been prominently connected with the industry since 1884, yet that is the record of W. W. Kulp, Pottstown, Pa. Mr. Kulp belongs to that class of breeders who have the highest grade of stock. He has no other occupation except his poultry, and he gives to his poultry business the same honorable attention that the merchant or dealer in wares gives to his. The breeds for which Mr. Kulp is best known are Leghorns, Wyandottes and Plymouth Rocks. He has just issued a handsome new catalogue of sixteen pages and cover. He will take pleasure in sending copy free to P. K. readers. Send your name on a postal and "get acquainted" with one of the best poultrymen the country contains.

**INCUBATOR**

Plan, simplest and best hatcher in the world, any size, make it some rainy day—perfect plan \$1.00. Brooder plan, 20c; Chick Food recipe, 20c; Egg Maker recipe, 20c; Lice Killer recipe, 20c; Beginner's Directions for Brooder Chicks, 20c. All of above in one order for \$1.00.

QUAKER SUPPLY COMPANY, Box K, Omaha, Nebraska.

**BLACK LANGSHANS**

A few fine cockerels at \$5 each. Brood brothers to my Boston winners,

HENRY L. ALLEN, - Aiden, New York.

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Send in a list of the publications you wish and we will quote reduced price on the lot.

Address,  
**POULTRY KEEPER PUB. CO.,**  
**QUINCY, ILL.**



**RAISING EARLY CHICKS—A GOOD BROODER.**

Louisville, Ky., April 17, 1903.  
 Editor Poultry Keeper.  
 Noticing in the April issue the item by M. A. Parsons about early sitters and the chicks, I wish to relate the experience of one of my early sitting hens. She is a Cochin, which I set December 18, 1902, on a dozen eggs. On January 8 she brought off a brood of eight chicks and one of these got out of the nest during the night and froze to death. Another she had the mishap to kill on the first night before I moved her with the chicks to my brooder, which I have built in my yard, the description of which I will give before I finish. The six remaining chicks the hen raised, and when ten weeks old (March 25th) they weighed nine pounds, or an average of one and one-half pounds each and I sold them that day at a good price.

The first five weeks I fed them on rolled oats alone; after that I fed them a mash made of corn meal, bran and a little beef scraps, and occasionally some cracked corn and wheat. Of course, from the very first day I kept a box of grit before them and also scattered some in the litter. I had two hens due on March 18th, out of which I got twenty chicks from twenty-six eggs. April 11th another hen brought off a brood of eight, making a total of thirty-six chicks out of four hatches since the first of the year, and up till now I have lost only four chicks, one froze, two were killed by hens and one died when two weeks old, which I think was due to weakness, for it never looked any too strong.

On April 19th I will have four hens due. This will make the eighth hatch this year and I have two hens ready to set to-morrow which I am going to give eggs and probably the third one in a day or two.

I wish to state also that I am not on a farm, but in town with a chicken yard 8x50 feet, scratching shed ten feet, house twelve feet, making the total length (including the house, shed and yard) 72 feet by eight feet wide, in which I keep about twenty-five hens. My brooder I have on the other side of my yard to which the chicks have free range in good dry weather. My brooder is three feet square and five feet high, with a foot slope. It is built double, that is, the floor is made of one-inch boards running north and south and another floor running east and west, making the floor two inches thick, and by crossing the boards

it makes all cracks securely closed. The sides and back walls are built the same way.

In the front I have two glass doors (inside doors) which reach from roof to within eighteen inches from the ground. These eighteen inches are covered with a board which has a slide in it that in nice weather I can open and let the chicks out. In the other end of this board is a door through which I put my lamp. This corner is partitioned off on the inside with small poultry netting so that the chicks can get near the lamp.

Above the lamp I have a sheet iron pipe which runs from the lamp to the back of the brooder, and then to the top, through which the heat goes, and by means of which, I can heat the brooder up to one hundred degrees in the coldest weather. In front I have two large storm doors that cover the whole front, which are closed at night. In this brooder is where I raised my chicks when the ground was covered with snow, the thermometer registering zero and below. The coldest days we had here I had chicks in my brooder. I kept the temperature at fifty degrees and let the hen furnish the balance of heat the chicks needed, and the chicks were running around in there looking comfortable.

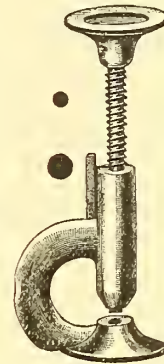
Henry F. Strothman.

Avoid sickness among your fowls rather than trying to doctor the birds later. Keep all things clean and sickness will be little. Clean food, clean water, and above all, clean air, will prevent most of fowl ailments. You cannot have clean air when the birds are obliged to roost

over unremoved droppings that are not frozen. With a cleaned house, aired during the sunny hours of the day, you will have little trouble in getting pure air. Most of the common diseases are made worse, if not caused, by filth of any kind. Remember this when you try to raise some nice chicks this spring.

**MARK YOUR CHICKS.**

The chicken marker or punch shown

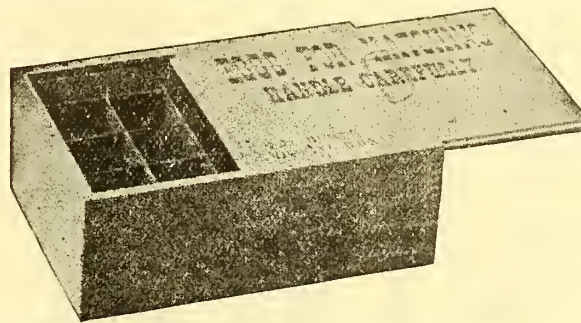


affords a convenient and permanent means of marking the chicks by punching a hole between the toes. There are many different ways in which these punches may be made, so that it is possible to keep track of the chicks from different hatches. Price of marker postpaid is 25 cents; or for 65 cents we will send marker and furnish full year's subscription to Poultry Keeper. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Every poultryman ought to own a copy of the Standard of Perfection, the book issued by the American Poultry Association, giving requirements for standard bred poultry. Price of the book is \$1. We will send a copy of the Standard of Perfection postpaid and furnish a year's subscription to Poultry Keeper for \$1.25. Address Poultry Keeper Pub. Co., Quincy, Ill.

**White Wyandottes** THAT DID DO CAN WILL **Win**

CIRCULAR FREE. E. H. SMITH, BOARD OF TRADE, DULUTH, MINN.



**THIS SHIPPING BOX**

Used by the largest shippers of eggs.

1 set size, \$1.20 } per  
 2 set size, 1.55 } dozen  
 3 set size, 1.00 }  
 Discount on 100 or more.  
 Catalogue free if you mention P. K.

J. T. & E. B. BURNS, Milford, N. H.



**Trade-NAPCREOL-Mark**

**A FLUID DISINFECTANT.**  
**Kills Germs, Destroys Odors, Prevents Disease.**

Cyphers Incubator Co., Buffalo, N. Y. Andover, Mass., Feb. 7th, 1903.

I can strongly recommend your "Napcreol"; it is indeed all you claim for it. I have given it a severe test as a mite destroyer and it did the work to my entire satisfaction. In cases of scaly legs, it is a sure cure. For sweetening poultry houses, brooders and drinking fountains, it is the most reliable disinfectant I have yet used. Very truly yours, C. BRICAULT, M. D. V.

Prices: Half-gallon can, 85c. Gallon can, \$1.50. Ask your dealer for Napcreol. Agents Wanted. (For agency apply to home office, Buffalo, N. Y.)

**CYPHERS INCUBATOR COMPANY,**

BUFFALO, N. Y., Factory and Home Office. BOSTON, MASS., 34 Merchants Row. CHICAGO, ILL., 310 Fifth Avenue. NEW YORK, N. Y., 23 Barclay Street.



### NEEDS LIGHT ON BARRED ROCK BREEDING.

A Reader of P. K. Who Desires to Stick  
by the Barred Rocks Calls for Help.

Editor Poultry Keeper.

If you think this worthy of publication do so. If not, discard it to the waste basket. I take several poultry papers, but do not know a better place to reach the ones I want than through your valuable paper. I am still one of the "small fry," trying to raise a few Barred Plymouth Rocks for exhibition. I would like to see more articles written by the older breeders of this variety, similar to the one by Mr. J. D. Lambert in April number of P. K. I believe if the older breeders of this variety would give us more light they would greatly increase their sales. I don't believe there is any of the older varieties more confusing to a beginner than the Barred Plymouth Rock. As it is, the exhibitors are constantly driving them to other varieties in despair.

I give them credit for being honest in what they tell us, but some of them must be wrong. To illustrate: When I decided to try the Barred Rock I was "up against" this proposition. I first consulted a party who had been a successful exhibitor for years regarding the purchase of stock. He was what is styled a double mating man. He informed me it was impossible to get both exhibition males and females from the same mating.

Then I consulted one who was a single mating advocate. He was likewise a successful exhibitor. He informed me my pullets from cockerel mating would be entirely too light; my cockerels from pullet mating entirely too dark; I would have twice the number of culls. He said he had raised them that way for years and would continue to do so.

Then the poultry judges still further confuse us. We go to a show, we select a bird good in shape, etc., medium light in color. When the blue ribbon has been awarded, we will see it attached to a coop containing a very light or a very dark bird—one so dark you would not have him in your breeding pen. If I could see any beauty in any other variety I would have given up in despair and bred something else. I believe that nine out of ten take up some other variety on that account. As it was, I purchased stock and eggs from both.

Now I am looking after shape. After I get what I want in that way, I will try to get color to suit the judges and purchasers in my locality. If I can get it by single mating, so much the better. If not, I shall resort to double mating. What I should like to see would be the eastern and western exhibitors get nearer together on what the standard should be. Let us have more articles similar to the one by Mr. Lambert.

"A Barred Rock Crank."

### WANTS THE WAY MADE PLAINER.

Editor Poultry Keeper.

As I purchased an incubator almost two years ago and have not, as yet, succeeded in hatching any chickens worth mentioning with it, I have been since

that time an anxious searcher after information along this line. Therefore the article by Mr. Moss on "Operating an Incubator" was read with pleasure, possibly with profit; also that of Mr. Johnson in the same issue.

Mr. Moss' comparison of an incubator to a steam boiler is apt, but I question if a boiler could be operated successfully by two systems so different as that by which these two experts manage their machines. It would be a waste of space to enumerate the chief points of divergence. A casual reading of the articles is sufficient. And then, again, the directions which came with my incubator were radically different from either.

After an experience of some years with steam boilers I may assert, with knowledge, that there is very little variation in the method of operating them by experts. But if there is any one thing which is essential to success with an incubator and upon which all experts unite, I fail to have heard of it. Mr. Moss can even operate without heat from the lamp.

The catalogue extolling the merits of the incubator I purchased has innumerable testimonials of phenomenal hatches, yet my opinion is that the directions of the manufacturers faithfully adhered to make a hatch of fifty per cent absolutely impossible. This is not written by a discouraged sorehead, for it is a demonstrated fact that some incubators do incubate. Still, the immense choice one has of rules, directions, conditions, cau-

tions, etc., make it hard for the novice to see daylight in any direction.

One incubator manufacturer's prayer is "That he might only sell to common sense operators." Perhaps in most cases the petition does not ascend above the tree tops. Possibly, even with the aid of common sense, it still remains for experience to be the only sure guide. However, where eggs rarely go below twenty cents and oil is thirty-two and a half cents per gallon it is somewhat costly to experiment lavishly.

Geo. I. Martin, Kilgore, Idaho.



Is absolutely pure. It costs only one-tenth cent a day per hen if you buy it in large cans. It will increase the profit from your poultry this winter. To be profitable your pullets should lay now. All your hens should be in condition to lay daily while eggs are high. It assures perfect assimilation of the food elements needed to produce eggs.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$5. Sample copy best Poultry paper free. I. S. JOHNSON & CO., Boston, Mass.

## How to Make Money with Poultry and Incubators

Is the title of the Cyphers Incubator Company's **Complete Catalogue and Poultryman's Guide for 1903**, which thousands of people have pronounced to be the finest and most valuable **Year Book** we have issued thus far, and we have been pace setters in the production of **Valuable Poultry and Incubator Literature**. This book consists of 190 pages, 8x11 inches in size, is profusely illustrated with over 300 half-tones made from photographs, showing the **Largest and Most Successful Poultry Plants** in the United States, Canada, England, New Zealand, South America, etc., and contains **Twelve Special Chapters**, covering all branches of profitable poultry keeping, **Each Written by an Expert** expressly for this book, as follows:

- I Starting with an Incubator
- II Handling Chicks in a Brooder
- III Feeding the Chicks
- IV Duck Producing on a Large Scale
- V Broiler Raising
- VI Profitable Egg Farming
- VII The Egg and Poultry Combination
- VIII Egg and Fruit Farming
- IX Scratching Shed House Plans
- X Incubator Cellar and Brooding House Plans
- XI Feeding for Eggs
- XII Standard Breed Poultry

### This Book is Free,

But we respectfully ask you to send ten cents in stamps or silver to pay postage. Positively and emphatically, **it should be worth Ten Dollars** to every earnest man or woman who wishes to do well in the poultry business. If we did not mean this, or did not believe you would agree with us on examining the book, we could not afford to say it, for we depend on this Guide and Catalogue to win your friendship

for our line of manufactures. Send ten cents for book No. 28 with this understanding and we will abide by your decision.

### Separate Poultry Supply Catalogue for 1903, Free,

postpaid, to any address. 64 pages, 8x11 inches. Illustrates and describes "Everything for the Poultryman"—120 standard articles, including Poultry Foods, Clover Products, Insecticides, Bone Cutters, Food Cookers, Latest and Best Poultry Books, etc. Write to-day for both of these instructive publications. They will help you succeed in your poultry work. Kindly mention this paper and address our nearest office.

### CYPHERS INCUBATOR COMPANY,

BUFFALO, N. Y. CHICAGO, ILL. BOSTON, MASS. NEW YORK, N. Y.  
Factory and Home Office. 319 Fifth Avenue. 64 Merchants' Row. 23 Barclay St.



**BUSINESS METHODS IN ADVERTISING.**

Some Mighty Sound Advice by a Fancier  
You All Know—Read What He  
Says—It Will Help You.

By J. C. Fishel, White Wyandotte Specialist, Hope, Ind.

Is successful advertising a business? Well, I should think so. There are so many different views on advertising. It has always been my motto to carry an advertisement in comparison to the stock or article we have for sale. If we have a large stock of extra quality we do not stand back in telling the good people of it, and do it in a strong way. Tell it in a way that they will think so after reading your advertisement. If you have had good success in selling off your stock then reduce your ad and tell them your success and that you will be in shape to take care of them a little later on with much better stock and more of it.

But do not stop advertising. Keep your name before the public, and keep telling them your intention. Then when the time comes that you can supply the demands, tell it to them good and strong and in a way that they can not help believing it. Don't be afraid of a little space. A crowded ad does not catch the people a little bit. Give the man that helps you dispose of your stock a little out of it. It will make you money in the wind up, yes, three-fold.

Another thing, don't expect the ad to sell your stock alone. You must do your part. It can only get you the prospect, you must do the rest. If you don't sell them on first letter, go after them and find out the reason—if the stock was not what they wanted, or the price was not within reach, or what the trouble was. If the ad gets the inquiries it has done its part. If you don't sell it is your fault. If you stop to consider what those inquiries cost you, you can afford to follow them up as much as the third time.

Don't expect returns from an ad the first month it is inserted in the papers. It may take some time to get started right, but if you keep at it it will be sure to come your way after while. In my experience I have put as much as a page in some of the leading journals, and got very few returns—not half to pay for the one insertion; but returns came three fold in time afterward. So you can't always tell when it is going to bring you the business, but it will have its effect in time to come if you will follow it up, even with smaller ones.

Always keep your stock before the people, the more prominent the better.

**TOO MUCH LIME AND IRON.**

Colton, Calif., April 3, 1903.

Editor Poultry Keeper.

I see by one of your late issues a reader gave his chickens lots of lime and iron every day and then wondered why his poultry would act like they were drunk, stagger and fall. I had the same experience with a White Minorca rooster every time I gave my fowls an overdose of copperas in the water. He had a touch of roup when I got him and could

not stand as much as the stronger ones. Later on he got worse again and got cankered sore mouth. While all my White Minorca hens were in perfect health, they soon got sores on the heads where he pecked them. He also fought with my White Rock cock and wherever he pecked him his gills were covered with matted warts like the hens' combs.

I killed him and buried him, but learned a valuable lesson, first as I have not a sick fowl on the place and only the few hens I had penned up with him are troubled with the sores, otherwise they are not sick. I put carbolic salve on them and if they do not get well soon I will put a sharp hatchet on them, as I do not like to fuss with sick chickens; I consider it dangerous. Since I knew how poisonous they are in contact with other poultry I shall be more careful when getting a cross for my hens.

Mrs. Wm. Lettner.

Shelter boards are helpful in rearing summer chicks. Many chicks are cooped out on the grass fields after the hay is put in the barn, and find little escape from the hot sun of noonday. Shelters of boards or brush will be appreciated by the active chicks. Even the shade of a few rows of corn will do much to help the comfort of the birds.

Meat and green bone are important articles of food in poultry keeping. The growing chick and the laying hen need animal food to do their best work. Steady growth can only be had when the chick gets some animal food. The busy laying hen can do steady work only when it gets a good proportion of meat food. Do not depend on what the birds can find in their range. Supply a constant ration of meat scraps or cut bone. It will repay you well in larger chicks and early maturity.



**Put it on Yourself**  
The poultry man and farmer find their ideal material for warm, dry houses and sheds in the high grade  
**PAROID ROOFING.**  
It is neat, easily applied and permanent. No tar in its making; it is always pliable, never brittle and can't break or crack. Each roll contains the necessary outfit for laying. Write for booklet and sample.  
**F. W. BIRD & SON,**  
E. Walpole, Mass.  
and Chicago, Ill.  
*Also makers of the well known "Sponnet" Red Edge roofing and siding.*

**Hatch More and ...Healthier Chicks**

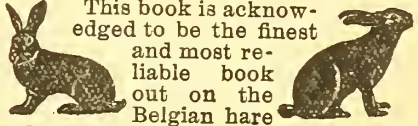
**The Neversink Incubator**

hatches a larger percentage of healthy chicks because of the pure air admitted into the egg chamber. The thermostat controls the ventilator and removes the foul air from the egg chamber, instead of simply regulating the lamp. You should investigate this. Lewis Bros., Reading, Pa., say: "The chicks from your machines come out much stronger and healthier. Your ventilated egg chamber shows what causes the great loss of good eggs in other incubators."

Our Neversink Hot Water Brooder has the entrance on a level with the floor. No incline to confuse and worry young chicks. You'll appreciate this. You have seen chicks that would freeze before they would walk up the incline of an ordinary brooder. Write for illustrated catalogue of incubators, brooders and brooding systems, free if you mention Poultry Keeper.

Neversink Incubator and Brooder Co.,  
Box 127. 11-12 Manheim, Pa.

**The Belgian Hare Guide**



This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Crating and Shipping, Castrating, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.  
PRICE, 25 CENTS.  
A year's subscription to Poultry Keeper (50c) and a copy of Belgian Hare Guide (25c) Address Poultry Keeper Publishing Company, Quincy, Illinois.

**The Profits Come**  
from hens that are not pestered with vermin. Hens are cleaned and kept clean by the use of

**Darling's Lice Killers.**  
Pronounced by poultry people who have the means of knowing, the readiest and surest lice exterminators known. In liquid or powder form.

Price of Liquid, quarts, 35c, 1 gal. \$1.00 Powder, 25 cts per lb., 3 lbs for 50 cts Net prices at Chicago.

**Other Poultry Specialties.**  
Granulated Bone, \$1.80 per 100 lb bag.  
Mica Crystal Grit, 65c per 100 lb bag.  
Oyster Shells, 50 cents per 100 lb bag.  
Clover Meal, \$2.00 per 100 lb bag.  
All f. o. b. Chicago, cash with order.

We are also manufacturers of the popular Beef Meal, Beef Scraps, Concentrated Meal, and a general line of poultry food. Send and get for the asking late edition of our booklet, "Fill the Egg Basket."

**DARLING & COMPANY,**  
Dept. 20, Union Stock Yards,  
CHICAGO, ILL.



### GROWING CHICKS IN YARDS.

Movable Scratching Shed House for  
Chicks and Fowls for All Purposes.

W. C. Coffman, Marinette, Wis.

I was very much interested in what Edgar Warren says about raising chicks in yards in January P. K. I have experimented with growing chicks in yards and on free range and prefer yards for raising chicks for any purpose. I noticed the cockerels that I sell at ten or twelve weeks of age that never are out of the yards were better developed than others of the same age that were given free range.

Chicks at free range take too much exercise. They are always ready to run after anything that moves. The meat supply found on the range is not sufficient. Cut green bone, beef scraps or meat in some form must be fed to grow first-class chicks. Fresh green grass is the only article of food gained on free range and to get this for yarded chicks I have done some planning.

I planned a movable scratching shed house that is warm, dry and sunny and can be used every day in the year for chicks and fowls of all sizes, ages and purposes. It is an excellent brooder house, breeding pen and winter laying house. All poultrymen know how necessary an open front shed is for chicks in early spring, out of reach of cold winds. On bright days they get full benefit of the sunshine and on wet days the shed is a fine playground. When a sudden shower comes up the yarded chicks are near the house and can get inside before getting drenched and many chicks are thus saved every year.

I shall experiment with a covered run attached to the house, so the house and run can be moved at the same time. Shall also try wire netting hung on stakes and move to a new location when necessary. It is a well known fact that the smaller the flock the greater the profit per hen. Twelve or fifteen will make a better egg record than thirty, and very much better than fifty. These few dozen eggs laid by each hen are net profit and this net profit for a few hundred hens amounts to a good many dollars. I never gave the housing of laying stock in small buildings much thought before because my opinion was it would require too much time to take care of so many small houses, but I have one house 108 feet long, six pens, thirty pullets in each pen. To feed them we pass through twelve doors. Now with

my small movable house I can have fifteen in each pen and feed the one hundred and eighty by passing through twelve doors, and make better time on the outside of the buildings than on the inside and gather more eggs every day. I should be pleased to hear from any one through the Poultry Keeper who is working on this system.

### PROFITS IN CAPONS OVER ROOSTERS.

Manchester, Ia., May 3, 1903.

Editor Poultry Keeper.

The purpose of this letter is to present the capon industry to the farmers and small poultryman in such a manner that they may see the profit of so handling their poultry. If a poultry raiser desires to make a profitable income from his flock he must seize every opportunity for cutting down the cost and selling at an advantage. Where many make a mistake is in the manner they take care of the young roosters. A rooster will eat half again as much as a pullet, will chase about the yards all day fighting other roosters and worrying the young pullets and then at night come in jaded and hungry with an appetite that would rival a duck.

If this same rooster were taken when two or three months old and caponized, he would be entirely different. In the morning he would eat heartily, wander about the yards mothering the little chicks, and in the evening be fat and plump and free from the jaded appearance of the rooster. The rooster would be worth from ten to twenty-five cents, but the capon is worth about ten cents per pound and weighs from eight to fourteen pounds.

Capons are very tame, easily handled and anything but a nuisance about a poultry yard. I have known men to buy young roosters, caponize them, fit them for market and make from fifty to seventy-five cents on each. This is exactly what the poultry raiser needs to obtain the expected income from his flock, and what before was an actual loss is changed into a handsome profit.

It takes but a few minutes' time and the loss from bleeding to death is very small, from one to two per cent. I firmly believe caponizing to be one of the most important sources of revenue in the poultry industry. G. L. Jones.

It will help everybody concerned if you will remember always when writing to our advertisers to say "Saw your ad in Poultry Keeper."

### USES CYPHERS CHICK FOOD AND LOST NOT A CHICK.

Ada, Mich., April 20, 1903.

Editor Poultry Keeper.

I wintered seventy pullets, composed of Brown and White Leghorns and Black Minorcas, all mixed. During the months of December, 1902, and January, 1903, they laid fifty dozen or six hundred eggs. During February, eighty-one dozen, or 972 eggs. For March, one hundred and nineteen dozen, or 1,428 eggs. Total number for the four months, two hundred and fifty dozen, or three thousand eggs.

This may not be very good, but we got eggs when our neighbors did not get any. I set my incubator April 15 with 119 eggs, testing out eleven infertile ones, leaving 108 fertile, from which I got 105 chickens, one being a cripple, leaving 104 nice healthy chicks.

I have been feeding Cyphers Chick Food and have not lost one, and have never seen them grow faster.

E. L. Sinclair.

**IT COSTS NOTHING**  
to get our Illustrated  
Descriptive Circulars  
and Special Discount  
Sheets of  
**Advance Fence.**  
It is the best fence made, and we  
sell it to farmers direct from our factory at manufacturers' prices. No  
dealer on earth can buy Advance Fence cheaper than the farmer can.  
Made in any height and any length to suit all requirements of farm  
fencing. Write today a postal card with your address will do.  
**ADVANCE FENCE CO. 140 A St. Peoria, Ill.**

**SHELLY'S  
POULTRY ANNUAL.**  
A book to profit and delight fanciers.  
Describes famous  
**POULTRY SPECIALTIES**  
in many leading varieties. Royal, proud  
birds that are sure to breed prize winners.  
Eggs and birds at reasonable prices. Write  
for the book. Sent postpaid for 8 cents.  
**P. C. SHELLY, Box 16, Florin, Pa.**



**BUCKEYE INCUBATOR CO.**  
SPRINGFIELD OHIO.  
50 EGG SIZE \$5.00  
100 EGG SIZE \$9.50  
200 EGG SIZE \$15.00  
OVER 50,000 IN USE  
100 CHICKS FROM 100 EGGS WITH 2 BANTAMS  
**\$4,500.00** Catalog **2 cts.**



# BLANCHARD'S WHITE LEGHORNS

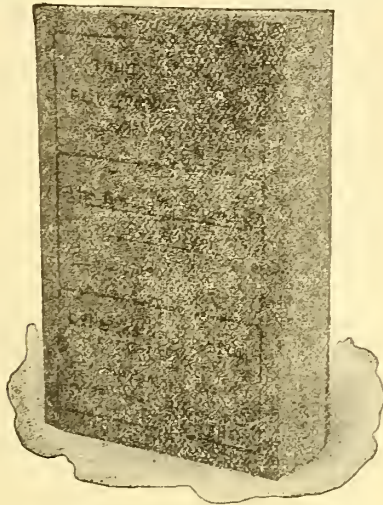
Are no experiment, but have been carefully selected and bred for over 20 years with results that fully entitle the claim that they are the GREATEST EGG LAYING STRAIN of S. C. WHITE LEGHORNS IN EXISTENCE. No expense or labor has been spared to build up and perfect this strain and while the production of LARGE, PURE WHITE, FANCY MARKET EGGS has been the main object, STANDARD QUALITIES HAVE NOT BEEN NEGLECTED. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME. Unexcelled for INTRODUCING BLOOD or as FOUNDATION STOCK. No better anywhere at any price. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. EGGS FOR HATCHING A SPECIALTY. \$2 per 15, \$3.75 per 30, \$5 per 45, \$10 per 100. Illustrated circular free if you mention Poultry Keeper.

**H. J. BLANCHARD, Groton, New York.**



Cyphers Poultry Supply Catalogue.

The above attractive picture illustrates the new Poultry Supply Catalogue for 1903, recently issued by the Cyphers Incubator Co., Buffalo, N. Y. This book consists of 64 pages and cover, 7x10 inches in size, and contains a large amount of valuable information on poultry foods, scientific feeding, clover products, the value of meat foods, destruction of lice and mites,

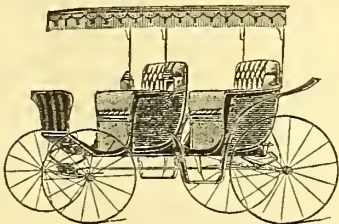


proper use of disinfectants, how to guard against poultry diseases, etc., etc. It tells much that you ought to know about chick food, laying food, forcing food, high protein beef scraps, beef meal, grits, egg stimulants, egg makers, lice paints, poultry remedies, poultry markers, water fountains, self-feeding boxes, pedigree trap nests, egg testers, revolving egg cabinets, shipping coops, bone, vegetable and clover cutters, food cookers, roofing material, poultry fencing, caponizing instruments, etc., etc.

A free copy will be sent, postpaid, if you will mention Poultry Keeper. Address, nearest office of the Cyphers Incubator Company. Buffalo, N. Y., Factory and Home Office. New York City, 23 Barclay St. Chicago, Ill., 310 Fifth Ave. Boston, Mass., 34 Merchants' Row.

Vehicle Economy.

In buying vehicles it is true economy to buy from an old established manufacturer, who has a deserved reputation for making first-class goods and selling at moderate prices.



One concern which meets these conditions is our advertiser, the Elkhart Carriage and Harness Mfg. Co., of Elkhart, Ind. These people have been manufacturing high grade vehicles and harness continuously for thirty years and during all that time have sold only direct to the consumer. This fact, taken with the high character of their work, constitutes the truest economy for the vehicle buyer, who thus gets his goods at first hands without paying unnecessary profits. The Elkhart Co. actually manufacture everything they sell and can show the goods. Hundreds of buyers come every year to Elkhart, some from long distances, to select in person, as they more than save their railroad fare on the price. The new catalogue is now out and shows 195 styles of vehicles and 65 styles of harness. A copy will be sent free to any reader. Write today and mention Poultry Keeper.

**\$1 PER SITTING** | **WHITE WYANDOTTES**  
S. C. W. LEGHORNS  
Bred for eggs and broilers.  
G. E. CHALFANT, Hamonton, N. J.

**BREEDERS' CARDS**

Four cents per word for one month; 8c per word for 2 months; 9c per word for 3 months; 10c per word for 4 months; 24c per word per year. No ad inserted for less than one dollar. Numbers and initials count as words. Terms, cash with advertisement. Be careful to count the words correctly and thus avoid delay. Copy of advertisement, **PLAINLY WRITTEN**, should reach this office by the first of the month.

**PLYMOUTH ROCKS.**

**PAY WHEN HATCHED**, 10 cents per chick. Barred Rocks. O. P. Phillips, Amo, Ind. 5-1

**PURE NUGGETS.** 25 layers. Eggs, 15, \$1; 100, \$5. Allen S. Sechrist, Dundore, Pa. 5-2

**B. P. ROCK CHICKS** from the incubator 25c each, as many as you want. Order promptly and three weeks in advance to be sure of getting what you want. Incubators will be set April 25th and May 1st; also May 18th and 25th. C. A. Porter, Flatrock, Shelby Co., Ind. 5-1

**HIGH CLASS Buff Rock** stock for sale cheap, to close. G. L. Beard, Layton, Ill. 5-2

**WHITE ROCKS.** Three grand yards mated for best results. Large, white and prolific layers. Eggs, \$1.50 per sitting. Satisfaction guaranteed. Mr. and Mrs. C. F. Rush, Colfax, Iowa. 3-3

**EGGS FOR HATCHING.** Bradley Bros.' strain Barred Rocks; also Fishel's and White Cloud strains pure White Rocks. Fine exhibition birds, \$1 per 20; \$4 per 100. Wm. Anderson, Delaware City, Del. 4-3

**WHITE ROCK EGGS.** \$2 per 15; \$3.50 per 30; from pens headed by prize winners. Won 8 premiums out of 13 at Belleville. Guaranteed fertile. J. B. Heaberlin, Boulder, Ill. 4-3

**BARRED PLYMOUTH ROCKS.** America's Popular Bird, I sell eggs that will hatch them, \$2 per 15; \$5 per 45. Hawkins & Thompson strains. Established eight years. J. W. Leavitt, Hollandale, Wis. 3-3

**THOROUGHbred WHITE ROCKS.** Eggs, \$1 per sitting. R. C. Hinkle, Millersburg, Pa. 3-3

**BARRED ROCKS** (Thompson strain). Eggs, \$2 per \$5. Rachael H. Wallace, R. F. D. No. 3, Sabetha, Kan. 4-4

**TWO PENS EXHIBITION** mated Barred Plymouth Rocks. Males score 92 1/2 and 93 1/2, large and vigorous. Eggs, \$1.75 per 26. Orders accompanied by 50c booked now. Wm. Offerman, Red Bud, Ill. 2-4

**BUFF ROCKS.** High quality. Bargains in eggs, cockerels. Write, Geo. Van Treese, Newton, Ill. 2-4

**WHITE PLYMOUTH ROCKS** exclusively. Empire strain, the stay-white kind. Eggs from best pens, \$1.50 per 15, express prepaid. Fair hatch or eggs replaced free. J. G. Westwood, Streator, Ill. 2-4

**BARRED PLYMOUTH ROCK** eggs from good practical stock, \$1.50 for 15. Eugene Hoge, Frankfort, Ky. 2-4

**EGGS FOR HATCHING** from our prize winning Barred P. Rocks, \$1.50 per 15. L. P. Tenney, Royalton, Vt. 4-3

**BARRED AND BUFF ROCKS.** Finest strains. Eggs, 15 for \$1; 100 for \$5. J. L. Anderson, Harvard, Ill. 3-4

**BARRED ROCKS.** Bradley Bros.' strain. Fine exhibition and breeding stock for sale. Eggs, \$1.50 per 15. Twenty years a breeder of Rocks. Satisfaction guaranteed. C. S. Jensen, Dover, N. J. 3-4

**EGGS FOR SALE.** Hawkins strain B. P. Rocks. Eggs, per sitting, \$1 and \$1.50. W. P. Rocks, Fishel strain. Eggs, per sitting, \$2. Address, Chas. Kolterman, R. F. D. No. 2, Onaga, Kan. 3-4

**DIAMOND BRAND** Barred Plymouth Rocks. The man that buys this strain will wear diamonds. They will enrich any flock. I guarantee satisfaction; 15 eggs, \$2.50. N. J. Battershell, Heyworth, Ill. 3-4

**NEW VARIETIES**—Silver Pencilled and Partridge Plymouth Rocks. Crocker-Brackenbury strain! Dr. Crocker, 1, Foxboro, Mass. 2-4

**BARRED PLYMOUTH ROCKS** direct from Bradley Bros; 10 ribbons and silver cup on 10 entries at Sanatoga show. Eggs, \$3 per 13; \$5 per 26. Wm. Wisler, Pine Iron Works, Pa. 2-4

**BUFF ROCKS**—Pure Burdick's "Nuggets." Breeders of fine size, shape, color, comb. Do not exhibit, but breed winners at leading shows. Eggs, \$1.50 sitting. E. E. Miller, Nunda, N. Y. 2-4

**COLES' BUFF PLYMOUTH** Rocks are "pure Nuggets," with clear wings, grand under-color. Line bred. Score to 93 1/2; Fort Wayne, Ind., January 12th-17th. Six prizes on eight entries. Eggs, \$2 per 15. Frank C. Cole, Van Wert, Ohio. 2-4

**BARRED PLYMOUTH** Rocks. Eggs, \$1 per 15; \$6 per 100. Circular on request. Williams & Metlar, New Brunswick, N. J. 3-4

**BARRED ROCKS** exclusively. Breeding fowls on free range. Eggs that will hatch, \$1.25 per 15. Geo. Dickerson, Route 3, Cadiz, Ohio. 3-3

**BARRED ROCKS** exclusively. Eggs from the four best matings, Central Ind. Males scored to 93 1/2; females to 94 1/2, \$3 per 15; \$5 per 30. S. F. Cones, Thorntown, Ind. 3-4

**BARRED PLYMOUTH** Rocks (Thompson's Ringlet strain). Eggs from my winners at Plattsburg and Vermont State Show, 1903, \$1.25 per sitting; 2 sittings, \$2. Order now. N. A. Gallant, Plattsburg, New York. 2-3

**CHOICE WHITE PLYMOUTH ROCKS.** Fishel's strain direct. None better. Eggs \$2 per 15. Mrs. M. Elliott, Box 311, Warsaw, Ind. 2-4

**BARRED PLYMOUTH ROCKS.** Just the kind you are looking for. Proud, vigorous, high scoring birds of excellent shape and grand style. Eggs, \$1.50 per 15. Ernest J. Borchert, Crown Point, Ind. 3-4

**200 EGGS PER YEAR.** White Plymouth Rock eggs from hens that laid 180 eggs each in eight months, \$2 for 15. J. N. Craig, Rushville, Ill. 3-3

**WHITE ROCK EGGS** from high scoring winners. Prices reasonable. Write for circular telling all about it. T. Haynes, Ames, Ill. 3-4

**BUFF ROCKS** (Nugget strain). Eggs from large, strong, heavy layers, fine colored stock, \$1 per 13. Guaranteed eight chicks. Spring Run Poultry Farm, Box A, Washington, N. J. 3-3

**TYRRELL'S** Barred Plymouth Rocks won every first at Alta-Aurelia. Beautiful illustrated catalogue free. Eggs, \$1. C. H. Tyrrell, Sioux Rapids, Iowa. 3-4

**WINNING BUFF ROCKS.** 1st cockerel, 2nd cock, 3rd hen at great Indiana State Show, 1902. Yards headed by winners and females score 92 1/2 to 93 1/2. Now is the time to get eggs that will hatch you winners. Reese Paetzal, Hope, Ind. 3-3

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**WHITE WYANDOTTES.** Three pens scoring 93 to 96. Eggs, \$1.50 per 15; \$3.50 per 30. A. S. Dean, Rothville, Mo. 4-2

**SILVER WYANDOTTES.** Won 1st cock, 93½; 1st, 2nd hens, 94½, 92; 1st pen, 187; 4th cockerel, 90, Ohio State Show, January, 1903. Fine open laced birds. Eggs, \$2.50 per sitting. Earl R. Williams, Sycamore, Ohio. 4-2

**WHITE WYANDOTTE EGGS.** Duston strain direct. Elmer Gmlin, Taylorville, Ill. 4-4

**BUFF WYANDOTTES** (Mattison and Dutcher strain. Best in the world. One sitting, \$1.50; 50 eggs, \$4. Joseph Gates, Westboro, Mass. 3-4

**SNOW WHITE Wyandottes.** Bred to lay the year round. Eggs, \$1.50 per 15. Elmer Masten, Amo, Ind. 4-3

**DUSTON STRAIN** White Wyandottes, 15 eggs \$1. Morris and Morris, Morrisonville, Ill. 4-3

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**WYANDOTTES.** Partridge (Cornell strain). Eggs, \$2. White (Hawkins), \$1; large, fine colored birds. None better; score from 93 to 95½. Lulu J. Campbell, R. R. No. 3, Mansfield, Ohio. 2-4

**PRIZE WINNING Buff Wyandottes.** Winners leading shows. Eggs, 15, \$2; 40, \$5. Grand Partridge Wyandottes, eggs, 15, \$3. Circular free. Henry Ingalls, Norton Hill, N. Y. 4-3

**WHITE WYANDOTTE EGGS.** Our stock cannot be excelled. Write for particulars. Carl Woodruff, Franklin Park, Ill. 3-3

**WHITE WYANDOTTES** exclusively. Eggs, 75c per 13. J. H. Kranz, Easton, Pa. 3-4

**PARTRIDGE WYANDOTTE** specialist. Winners of 1st pen at two shows. Eggs in season. John Kreidler, Laporte, Ind. 3-3

**SILVER PENCILED WYANDOTTES.** Four splendid yards, pure Cornell strain. Eggs, \$5 per 15. E. O. Dewey, Owosso, Mich. 3-4

**PARTRIDGE WYANDOTTES.** Stock and eggs. Silver Penciled Wyandotte eggs. Robert Black, Raymond, Neb. 3-3

**WHITE WYANDOTTES.** Eggs from best pen, consisting of winners, \$2 per 15. Every bird in above pen has chalk white plumage. Guaranteed to produce winners for you. Other pens, \$1 per 15. Send for catalogue, giving full description, with show record, etc. Will H. Schadt, Goshen, Ind. 3-4

**WHITE WYANDOTTES** exclusively. Eggs from best strains, 13, \$1; 100, \$5. 75 to 90 per cent fertility guaranteed. W. E. Shoemaker, Laceyville, Pa. 2-4

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**GOLDEN WYANDOTTE** cockerels for sale. Good stock. Prices reasonable. Eggs in season. Write. Calvin King, Butler, Ind. 4-3

**BROWN'S BUFF WYANDOTTES** lead. J. C. Brown, Campbellsburg, Ind. 3-4

**WHITE WYANDOTTES** exclusively. Eggs, \$1 per 15. W. F. Stalder, Piny, W. Va. 3-3

**SMITH'S PRIZE WINNING** White Wyandottes. Win wherever shown. Eggs this season only, \$2 per 13; \$5 per 50. A good hatch guaranteed. C. F. Smith, Quaker Street, N. Y. 4-3

**WHITE WYANDOTTES** of purest blood. Eggs \$1 per 15. J. C. Lindsey, Kirkwood, Ohio. 11-12

**GOLDEN, SILVER LACED** and Buff Wyandottes. Fine stock at fair prices. Birds guaranteed as represented. Breeder for eighteen years. F. S. Tenny, Peterboro, N. H. 12-6

**SIX PENS DUSTON STRAIN** W. Wyandottes direct. The most popular strain in the land. Eggs and stock for sale. Rev. D. MacCulloch, Glencoe, Baltimore Co., Md. 1-x

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**BUFF WYANDOTTES** exclusively; 15 eggs, \$2; 30, \$3. L. H. Stewart & Son, Erie, Pa. 2-4

**PUREST OF BLOOD.** Golden Laced Wyandottes. Eggs for hatching, \$1 per 13. Edw. W. Stump, Selma, Iowa. 3-3

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**S. C. WHITE OR BROWN LEGHORN** eggs one dollar per fifteen. C. O. Sanger, R. No. 1, South Milwaukee, Wis. 5-1

**S. C. BROWN LEGHORN** eggs for hatching a specialty. Cheapest on earth, for quality. Wm. Coleman, Lyons, N. Y. 5-2

**ROSE COMB BROWN LEGHORNS.** Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island, N. Y. 5-x

**CHOICE EGGS.** Rose Comb Brown Leghorn, \$1.50 per thirteen. Mrs. C. D. Doyle, Augusta, Mich. 4-3

**S. C. BROWN LEGHORNS.** Won first cockerel, first pullet, Pennsylvania State Fair. First cock, hen, cockerel and pullet at the great Allentown Fair. First cock, first hen, at the great Reading Fair. First cock, first hen, at Blandon Show. I got first on every bird this fall. For last year's prizes, see circular. These were won in good competition. I have the best laying and exhibition strain known. Eggs, \$1 and \$2 per sitting. H. M. Moyer, Shanestown, Pa. 3-3

**R. C. W. LEGHORNS.** Cockerels scoring 93, \$2. Egg circulars, describes 6-lb. cockerels, S. P. Rogers, No. 2, Pleasanton, Iowa. 3-4

**SINGLE COMB WHITE Leghorns.** Our price will not be raised this season. Incubator eggs \$3 per 100. Eggs from our best matings, \$1 per 15. John R. Marvin, Penton, Mich. 4-2

**S. C. WHITE LEGHORN** eggs, \$1 per 15; \$3 per 100. W. R. Legron, 423 Adams, Toledo, Ohio. 4-4

**SINGLE COMB WHITE** and Brown Leghorn eggs, 15, \$1. Anson Allebach, New Bethlehem, Pa. 3-3

**HOWARD L. CRISP,** Relay, Md. Eggs from heavy laying White Leghorns, bred from prize winners, \$1 per 15; \$5 per 100. 3-3

**EGGS FROM HARDIN'S** bred-to-lay White Leghorns, \$1.50 per 13. Rodney D. McKenzie, Eldorado, Utah. 3-3

**S. C. BROWN LEGHORNS.** Eggs, \$1 per 17. T. G. White, Minco, I. T. 4-3

**FARM RANGE.** S. C. White Leghorns exclusively. Vigorous. Bred for eggs 20 years' experience. Eggs, \$1 per 13; \$2 per 30; \$5 per 100. Mrs. Adam Richey, R. No. 1, Waterloo, Ind. 3-3

**S. C. W. LEGHORNS,** prize winners wherever shown. Pen headed by cock scoring 94½ and 94 and seven females with average score 94½. Eggs, 15 for \$2. Wm. Marriott, Marlon, Ind. 3-8

1887-S. COMB BROWN Leghorns-1903. Highest scoring pen in show over all; score 188½; hen, 95½; pullet, 95. Circular. Eggs, \$1.50; \$2 for 15. C. F. Lang, La-Crosse, Wis. 3-4

**SINGLE COMB WHITE LEGHORNS.** Original Wyckoff, great laying strain. Eggs from choice matings, special this month, \$1 for 15. Few excellent birds for sale; moderate price. John Lightfoot, Penn Yan, N. Y. 3-3

**ROSE COMB BROWN LEGHORNS.** Great layers. Eggs, \$1 per 15; \$4 per 100. Sand Hill Poultry Farm, Mrs. Thos. Cole, Pierceton, Koselusko Co., Ind. 3-3

**SINGLE COMB Brown Leghorns** exclusively. Eggs, \$1 per 13; \$4 per 100. Circular free. B. E. Carter, Knoxville, Tenn. 1-5

**ROSE COMB WHITE Leghorns.** Pen headed by first prize cockerel Nebraska State Poultry Show, 1902. Eggs, \$1 for 15. Chas. M. Kelley, Beaver City, Neb. 2-4

**SINGLE COMB Brown Leghorns** exclusively. Established 1883. Free farm-range; 15 eggs, \$1; 45 eggs, \$2; 100 eggs, \$4. Circular free. Simeon Tobias, Crothersville, Ind. 2-8

**ROSE COMB WHITE LEGHORNS.** Winners great World's Fair, Boston, Madison Square Garden. Eggs, \$1.50 per 15; \$3 per 100. Snow Flake Farm, Cortland, N. Y. 2-4

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**LEGHORNS-SINGLE COMB** White, Brown and Buff. Eggs from extra large, heavy winter layers, fine colored stock, \$1 per 15. Guarantee 10 chicks. Spring Run Poultry Farm, Box A, Washington, N. J. 3-3

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**SINGLE COMB WHITE LEGHORN** eggs, one dollar per 15. Heavy laying strain. L. J. McHugh, Upland, Ohio, Belmont Co. 3-4

**\$6.25 BUYS 144** Rose Comb White Leghorn eggs. Send orders direct from this. Mrs. Lee Grover, Route No. 1, Harvard, Ill. 3-4

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**ROSE COMB White Leghorns,** the cold country hen. Eggs per 15, \$1. O. C. Alworth, Fort Atkinson, Wis. 2-4

**VANATTA'S S. C. W. LEGHORNS.** Prize Winners. Score to 96. Splendid layers. Eggs for sale. Circular free. E. E. Vanatta, Vandalla, Mo. 2-4

**CHOICE S. C. BUFF LEGHORN** cockerels for sale cheap. Eggs in season. Mrs. Geo. Mattern, Franklin Grove, Ill. 12-4

**FIFTEEN SELECTED** eggs from heavy laying Single Comb White Leghorns \$1. Frank Fisher, Tipton, Mich. 2-4

**ROSE COMB WHITE LEGHORN** eggs, 15 for \$1. Ernest Cottrell, Hoosick Falls, N. Y. 2-3



**BEST STRAINS Single and Rose Comb White Leghorns; 15 eggs \$1.** Ella Waltman, Laddsburg, Pa. 2-4

**BUFF LEGHORN EGGS, \$5 quality for \$1.** Won first on every entry at Hagers-town, Hackensack but one. No better blood anywhere. Circular free. Wm. VanderMaas, Midland, Park, N. J. 2-4

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**RHODE ISLAND REDS, Light Brahmas, Barred Rocks. Hardy, prolific. Pure stock. Hens on separate farms. Eggs to hatch at 6 cents each. Write. Beach and Bay View Farms, Middletown, R. I.** 1-3

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**RHODE ISLAND REDS exclusively.** The most profitable fowl. Early and constant layers, fine table poultry. My stock is farm raised and unexcelled in vigor, size and color. Utility and beauty my aim in breeding. Eggs from choice birds, Rose or Single Comb, \$1 per 13; \$2 per 30. A. E. Cummings, Hudson, N. H., member of R. I. Red Club. 2-4

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**LIGHT BRAHMAS.** Eggs from prize pen 75 cents per sitting for balance of season. A. Maebert, Summit, N. J. 4-2

**EGGS FROM a \$60 hen of my great Ke-ti-on-gra strain mammoth Light Brahmas, \$2 for 15.** Bred so true to line that 75 per cent of last year's raise were prize winners. D. N. Foster, Fort Wayne, Ind. 2-4

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**BUFF COCHIN BANTAMS.** Golden surface color, true type and shape. Winners at New England's greatest shows. Also Golden Duckwings. Eggs, \$2 per fifteen. Frank Jennings, So. Framingham, Mass. 4-3

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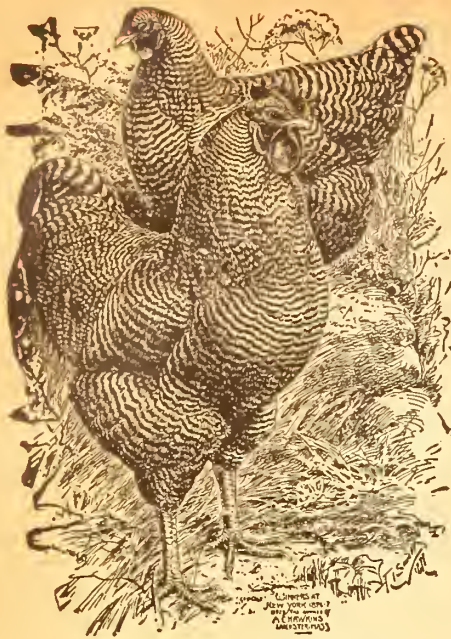
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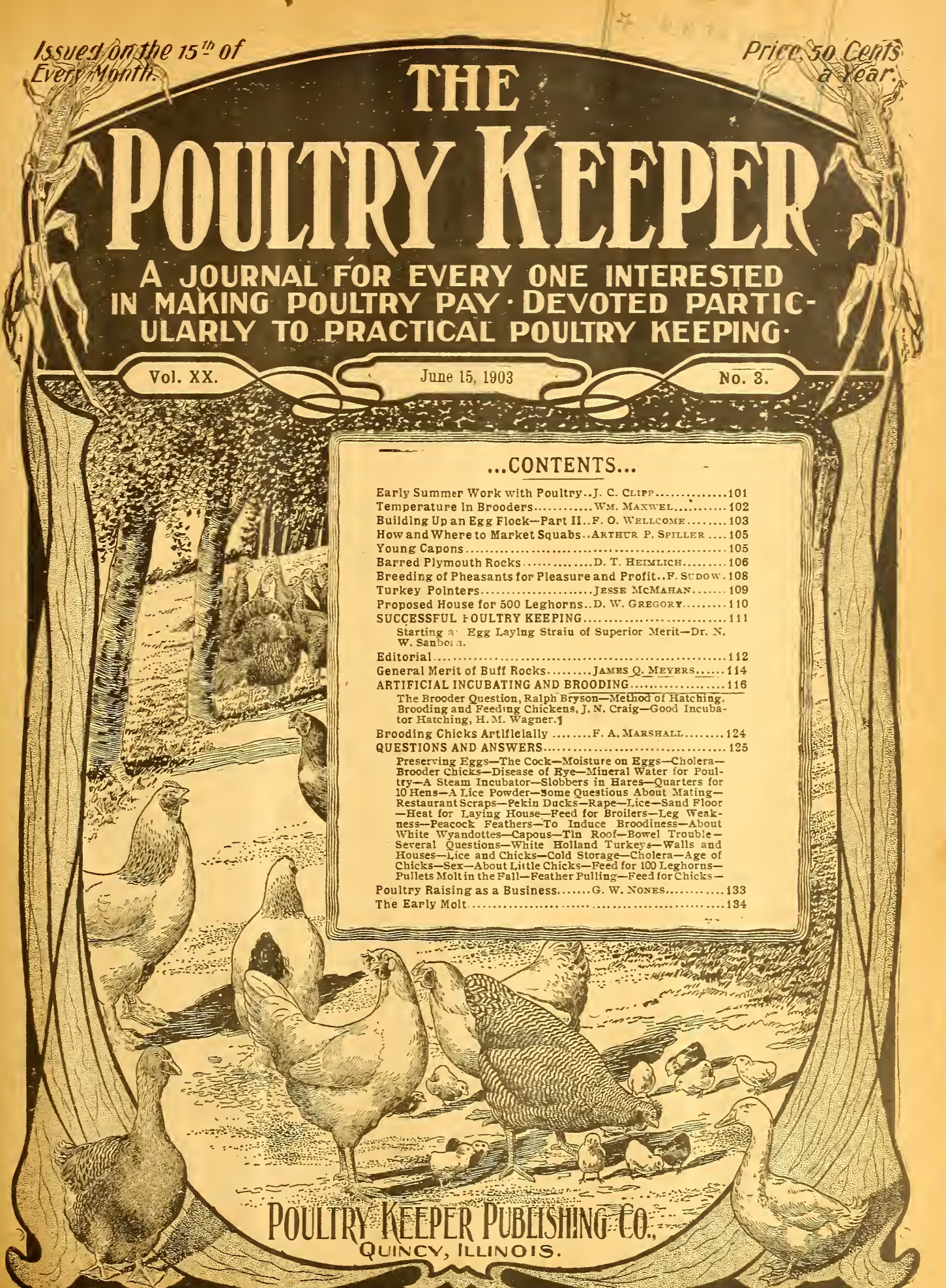
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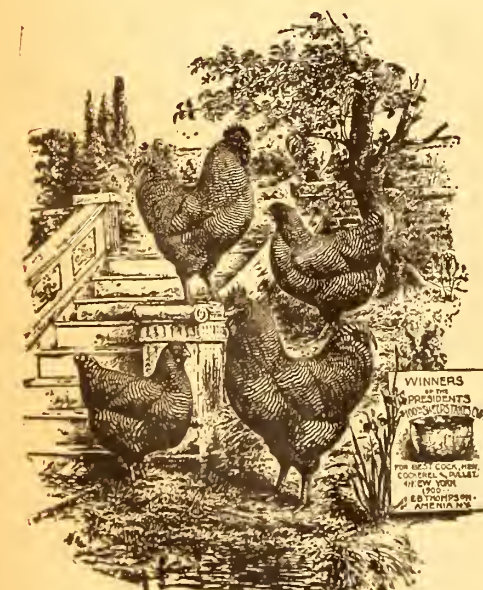
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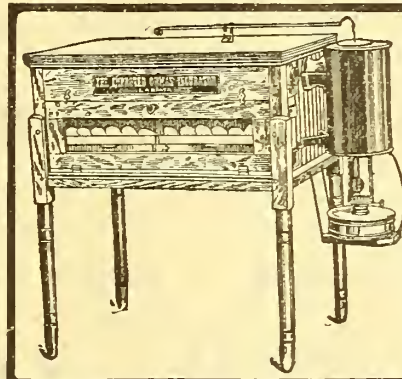
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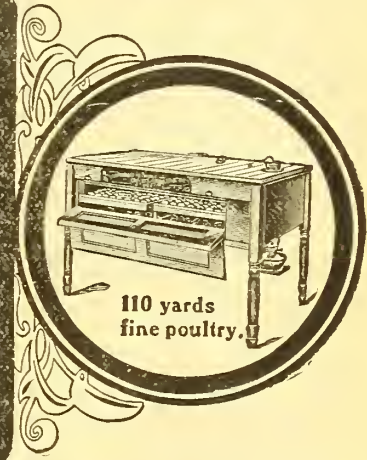
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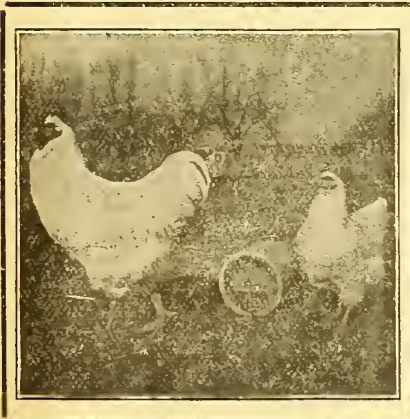
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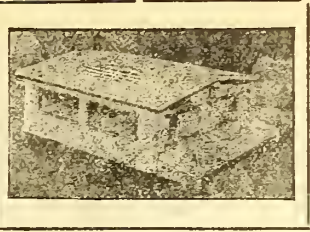
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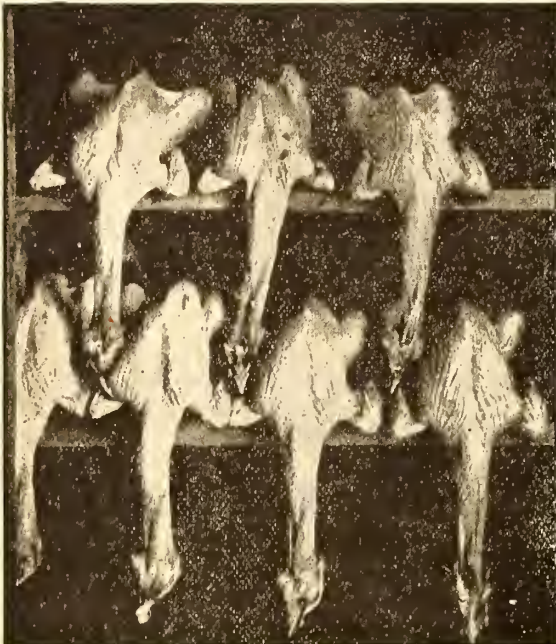
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"South Shore" Soft Roasters produced by Jordan Poultry Farm, Hingham, Mass. Fed on Cyphers Chick Food and High Protein Beef Scraps.

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Last year I had my first experience with incubators and brooders. I could hatch the chicks all right, but could not raise them—nothing but bowel trouble. Did not use Cyphers Chick Food was the reason. This year I am using Cyphers Chick Food and not one case of bowel trouble have I had, and some of my chicks are six weeks old.  
A. B. SHULL.

### "WITH LITTLE CARE AND AT LESS COST."

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Have fed out nearly 100 lbs. of your chick food, and finding it all that is claimed for it, I send herewith an order for more. I have obtained better results with little care and at less cost than by the old way of feeding.  
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All my 1903 prize winners at Indianapolis, Pittsburg, and Chicago (excepting my first prize Light Brahma cock bird), were hatched in the Cyphers incubator, brooded in a Cyphers brooder and fed on Cyphers Chick Food. I consider your products the best on the market.  
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Yours truly,  
L. S. YOUNG, Sup't.

WE DISTRIBUTE CYPHERS CHICK FOOD IN CAR LOTS TO OUR THREE BRANCH HOUSES, AND QUOTE THE FOLLOWING PRICES:

50-POUND BAGS, . . . \$1.50      100-POUND BAGS, . . . \$2.50      500-POUND LOTS, . . . \$12.00  
Special prices on ton lots. Two-ounce sample mailed free on application if you will mention this paper.

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"Animal food" is necessary for the health and proper development of poultry, but comparatively few poultry keepers are aware of the great importance of this article of diet. All know, in a general way, that fowls eat insects, bugs and worms, that these are animal food, and that, as they cannot be procured at all seasons of the year, or in sufficient quantities, some form of meat food must be supplied. For this purpose a good quality of beef scraps is unexcelled.

Cyphers High Protein Beef Scraps, as analyzed by the New York State Board of Agriculture, show 50 to 65 per cent. protein and only 10 to 15 per cent. fat. Fat in excess reduces the feeding value of a poultry food, protein being the essential element. Cheap scraps mean cheap material, low feeding value and goods which if fed to chicks or ducklings may cause exceedingly harmful results. A trial will convince you of the superiority of the Cyphers Brand.

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SAVING TIME ON DELIVERY.

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Special prices on larger quantities. Two-ounce sample package mailed free for the asking.

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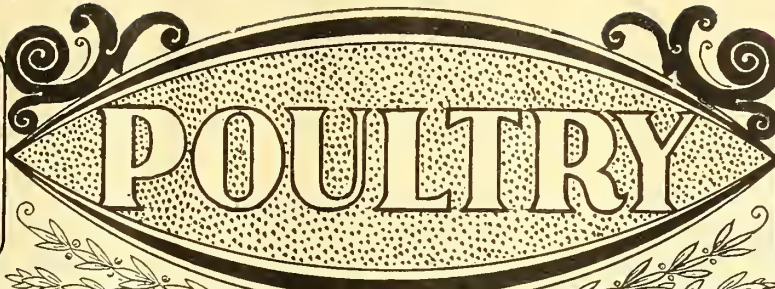
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# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, JUNE 15, 1903.

No. 3.

## EARLY SUMMER WORK WITH GROWING POULTRY.

### Moving of Young Stock Into Roomy Quarters—Fighting Lice— Getting Ready for Culling.

J. C. Clipp, Saultillo, Ind.

**T**HE majority of poultry raisers are through with the work of hatching and the early brooding of the young stock and are beginning to feel free from the care and labor that are required to successfully bring through a fair number of chicks. After the youngsters have reached the two months' age the hardest part of the season's work is over, still there is plenty of hard work yet to be performed.

The most essential work is to keep them free from lice and vermin. There

are a number of different kinds of lice that prey on the chicks, but the worst and most disastrous louse that is found is the big gray louse found on their heads and necks. Thousands of chicks are lost annually from the ravages of these pests. Quick work can be made in destroying them in a large flock by taking a machine oil can filled with lubricating oil and dropping one or two drops on each chick's head. This manner of treatment will be very rapid and is sure death to the lice.

At this season usually come hard, drenching rains, and if the chicks are not driven into the coops or shed for protection a number of the young birds will be lost, as the hen usually hovers her brood under the eaves of some building or in a low place where a large body of water is sure to collect during a heavy rain.

As the season progresses and the hot weather comes on, overcrowding in the brood coops is a natural consequence, and unless this is prevented a number of fine large birds will be crowded to suffocation, and those that do not succumb to suffocation will be stunted in growth to such an extent they never fully recover and mature ill-shaped. If great care is not exercised in this respect the greater per cent of the entire brood will be worthless. We prevent a catastrophe of this kind by removing the brood coops as soon as the hen weans the chicks and driving



Colony houses for growing stock. These houses are built about twelve or fifteen inches from the ground. They are floored, which keeps the birds high and dry and free from dampness and at the same time allows them shelter from the sun, with protection from the draft which is generally found nearest the ground. On rainy days the birds can have shelter and are not obliged to stay indoors. A board run way leads from the door to the ground, giving them convenient passage to and from the inside. Houses are 4x8 ft. and  $4\frac{1}{2}$  feet high in front. The roof is covered with tar paper.



them in roomy sheds which have low roosting poles and are sufficiently tight to keep out minks and rats, yet well ventilated and admit plenty of fresh air. It is a very difficult task to get the chicks to take the roost poles at first, but by placing them on the perches each night for a week or ten days they will soon learn the place and go on the roost at night without further notice.

Now after the chicks are properly housed the red louse that gets in his work at night and retires to the roost poles during the day, will accumulate very fast and if liquid lice killer is not applied to the roost poles each week the entire

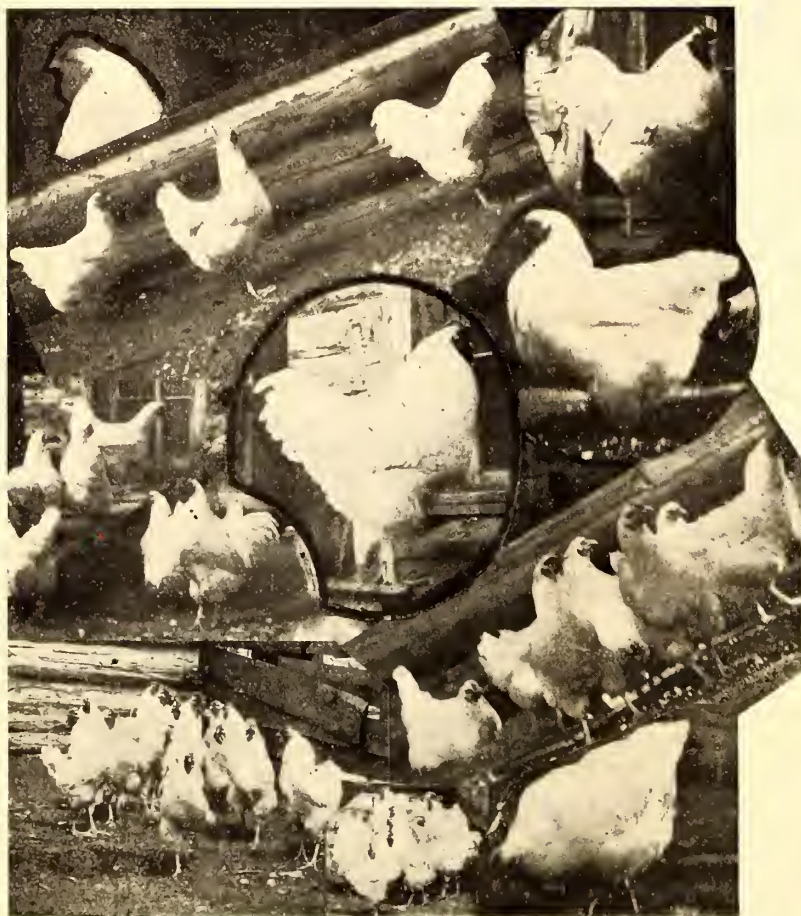
winter quarters cull out all that are off in color or that have not developed properly. All poor specimens should be marketed before taking them into winter quarters, as every bird that is not profitable is a loss, and this class of fowls should be removed and the room and feed given to the fowls that promise to be most profitable.

#### TEMPERATURE IN BROODERS— "GUMPTION" OF CHICKS.

Blomington, Ill., May 20, 1903.

Editor Poultry Keeper.

Your excellent paper has been coming



Specimens of the White Wyandotte Flock of E. H. Smith, Duluth, Minn., made from recent "snap-shots" taken in their yards by Mr. Smith.

flock will soon be contracting most any disease to which poultry is heir to. Those red lice are constantly sapping the life's blood from the fowls, thus weakening the system to a great extent and causing the fowls to be susceptible to any disease that may be in the air.

Disease germs are constantly lurking in the drinking fountains, and the best preventive against their further development we have ever found is the use of carbolic acid in the drinking water, five drops to each gallon of water will be found a great preventive in warding off fatal diseases. The hot summer months is one of the worst seasons of the year for the health of poultry and unless everything about the quarters is kept scrupulously clean, a great loss of the young chicks will be experienced.

Before confining the flock to permanent

to me now over two years and has been of much service. I consider it the best for the poultry breeder of any that has come to hand. I have taken several regularly and have received sample copies of many others. I can conscientiously recommend Poultry Keeper to all who want information on the breeding and growing of poultry.

I will give you a brief bit of my experience with a brooder of my own construction, which you may use if you think it of any value to the fraternity. I was specially interested in the recent articles by Mr. Moss on raising brooder chicks. I received much valuable information from his pen, but must take exception to his statement in the matter of temperature in the brooder house, based on my own experience this spring.

If my memory serves me aright he

stated that the temperature of the brooder room must not "vary from 75 or 80 degrees day or night." As I was contemplating raising chicks in brooders in April, this statement startled me, as I had no means of keeping my house to that temperature. So this set me to studying the matter. To help me, I had a hen hatch a brood of White Wyandottes early and I made it my business to watch her and her brood very closely to see if I could learn anything.

I kept her in a shed that was dry and close enough to keep out drafts, but cold enough to allow water to freeze. The chicks would feed and scratch around in this temperature and when they began to get cold seek warmth under the mother. They seemed to get along all right and are all alive and hearty at this writing. So I thought, why cannot brooder chicks get along the same if I can provide the warm place for them to hover?

I had constructed a brooder (in 1901) consisting of a box about twelve feet long by two and a half wide, in which I placed a tank twelve inches wide, two and a half deep, full length of box. In the spring of 1902 I placed ninety incubator chicks in the brooder and raised sixty of them, which was not satisfactory. But I made some changes and concluded to try again. I had the tank filled with water and under one end which extended outside the box I placed a lamp and found I could keep the water hot.

My first hatch came off early in April and I placed them in the brooder. The tank was lined underneath, with just room for the chicks to crawl under. There were one hundred and fifteen chicks placed in two sections nearest the lamp. My brooder is about eighteen inches from the floor of brooder room. I had a platform constructed level with the brooder for feeding the chicks. On this I spread out clover, into which I scattered the feed, granulated wheat, steel cut oats and the like, from the first. I watched the little fellows closely at first to see that they got under the hover when in need of warmth. They very soon learned the trick. For the first few days after they fed I shut them in the brooder box, but soon the doors in front were left open through the day and closed only at night.

As you know, we had freezing weather in April, but I have not lost a chick that was healthy when hatched. A few weaklings that were slow in hatching succumbed, but all others (now six weeks old) are as healthy a lot as you could find and have now been shifted to the further sections to make room for a new brood. I have not gone into detail of construction of brooder box. Sufficient to say it is made so as to be pretty close and the chicks have been their own judge of temperature, using the lined warm tank just as they use the mother hen.

Wm. Maxwell.

Every poultryman ought to own a copy of the Standard of Perfection, the book issued by the American Poultry Association, giving requirements for standard bred poultry. Price of the book is \$1. We will send a copy of the Standard of Perfection postpaid and furnish a year's subscription to Poultry Keeper for \$1.25. Address Poultry Keeper Pub. Co., Quincy, Ill.



## BUILDING UP AN EGG FLOCK.

### Persistent Layers Are the Foundation on Which to Build Flock— System of Breeding for Egg Production.

By F. O. Wellcome.

#### Part II.

Continued from May number, page 75.

**B**REEDERS should be selected with some definite object in view. It is none too early to consider that point for next season's work. Advancement is impossible unless the breeding birds excel the average of the flock in those qualities which we desire to establish in our strain. The greater the number of definite objects the more complicated the matter becomes and the longer it will take to establish an ideal strain. Many people appear to be trying to attain the impossible by breeding and feeding.

A strain of pure white birds that would produce a fair proportion of stock capable of winning in the show room and laying an average of two hundred dark brown eggs in a year, fine sitters and mothers, splendid broilers and roasters, good foragers, quiet and contented under restraint, etc., etc., might be a gold mine for their producer, but he would do a lot of prospecting before he discovered a way to get it.

The uniting of all good poultry qualities to a superior degree in one strain of any

imals are not always shown by the outward appearance of the specimen, but that must be our main guide when a knowledge of their previous work or ancestry is lacking. If we desire to maintain good size in our birds we must use breeders of good size. If we wish to increase the size we must use large breeders.

If we desire to produce eggs of good size, with good shells and uniformly white or colored, we can attain that end by using for hatching only such eggs as conform to our ideal, but our interests demand that we discover and get rid of all birds that produce undesirable eggs.

If we wish to make a specialty of early broilers or roasters the best results can be obtained by establishing breeding pens containing birds which have a superior tendency for rapid meat production. It is not all a matter of feeding. Heredity is as powerful a factor here as elsewhere.

Superior meat producing qualities and prolificacy are antagonistic and cannot be developed in the same bird to an exceptional degree, although they may be

mation obtained from my own flocks during the past three years has been supplemented by considerable correspondence with breeders in various parts of the country who have done business with me, and have been following the individual system for years. This correspondence has brought out a variety of facts that one person could not hope to get



"A High-born Lady"—one of J. C. Fishel & Son's (Hope, Ind.) White Wyandottes

alone, and they tend to confirm the opinions formed from my own work.

One of the first theories which evolved from my first year's study of this matter was that the total number of eggs laid by a hen in one year is not the true criterion by which to judge of her ability to transmit prolificacy to her offspring. Under some conditions a large egg yield will wholly unfit the bird for breeding purposes. What we want to discover is the bird that gives evidence of an ability to combat exterior influences which are unfavorable to egg production, and possesses a persistent laying tendency which tends to overbalance and counteract those natural tendencies which are antagonistic to long continued and regular egg production. Such birds are the logical dams of prolific offspring when they are properly handled.

Not only does this proposition appear to be reasonable, but it has proved itself in the breeding pen. I have produced heavy layers by breeding from birds which were not so remarkable for the total number of eggs laid as for their persistency in producing their eggs under conditions that ordinarily interrupt or retard laying. Mr. Victor Caneday, of Taylor's Falls, Minn., appears to have been following a similar course for several years and I understand that he has proved its correctness to his own satisfaction.

The persistent layers are the foundation birds upon which to build our egg flock. They must be in perfect health and vigorous breeding condition in the breeding season and possess such other desirable features as we may consistently regard as necessary for our individual requirements.

Broodiness appears to me to be a natural trait that opposes prolificacy in proportion to its persistency or strength. Our



Past the "danger point" of chickhood and everyone of them promising good maturity.

breed will never be accomplished until they are first united in one bird. Those qualities that harmonize can be united gradually in one strain by careful selection, but antagonistic qualities should be avoided. If we aim for the blue ribbons of the show room we must breed from birds excelling in standard qualities, or whose past history reveals their tendency to produce offspring of superior standard merit.

The inherent breeding qualities of ani-

mal in the same breed. The fact that we can fatten an adult fowl does not prove that the extra meat is produced rapidly enough to be profitable in every case.

In these papers we are considering one point principally, that is, egg production. The writer, for the purpose of obtaining first hand information, has attended to that one feature mainly and has bred from many birds whose only claim of merit rested upon vigorous health and a persistent laying tendency. The impor-



persistent layer may be a genuine non-sitter, or she may become broody upon occasion, but she can be easily broken of her incubating desires should she show them, and will disclose a laying tendency that is stronger than the incubating tendency. Those birds that are persistent sitters and decline to lay for long periods as a result of broodiness should be excluded from our breeding pens.

Broodiness is hereditary. It may be controlled to a considerable extent by suitable methods, but it is an inheritable trait that tends to antagonize prolific egg production in proportion to its strength. Non-sitters are found in about every breed and the absence of the incubating desire appears to be caused both by a strong laying tendency and by the lack of it—readily accounted for in both cases.

egg yield unless very favorably maintained and carefully shielded from these disturbing conditions. Our persistent layer exhibits a tendency to lay right along in spite of many conditions which tend to retard or stop laying with the average bird.

Molting has such a paralyzing effect upon egg production that were all chicks hatched at the same time the country over most of our eggs in late summer and fall would come from those persistent layers that lay while molting. All heavy layers do not lay during their molt nor do they possess so stubborn a laying inclination that nothing but death will stop them. That is not the idea I wish to convey, but the poultry keeper who keeps track of his individual birds cannot fail to note those individuals that possess an

hens for a year and then select for breeders those birds that exhibited the largest yearly totals without regard to their present condition and past history. It is probable that many novices have made this mistake and will continue to do so. They may even go to the extent of breeding, late in the winter or early in the spring, from pullets that have laid heavily all winter on insufficient rations.

I doubt if experienced breeders will, as a rule, act so unwisely. We may breed from pullets or hens with large records behind them and fail to get fertile eggs, or strong chicks, or good layers; but that will not justify the conjecture that the great layers bred and owned by experienced breeders all over our land are not all that they are claimed to be.

The figures of egg production, consid-



Flock of White and Brown China Geese and Domesticated Wild Geese, from photograph taken at Chas. McClave's farm, the Linwood Poultry Yards, New London, Ohio. The Chinese Geese are termed the "Swans" of the goose family. The McClave strain have good knobs, rich color and graceful carriage. The Linwood Stock of Domesticated Wild Geese were bred from wild parent stock and are large in size.

So we find that, while many exceptionally heavy layers are non-sitters, and mild sitters, very ordinary to poor layers often fail to become broody also. The fact that a bird is a non-sitter or a poor sitter does not indicate that she is a good layer. But when we find that a bird persistently produces eggs in long continued and regular succession without becoming broody, or if broody and broken resumes laying in a short time and keeps it up, we find a persistent laying tendency that dominates broodiness.

Changes of temperature and weather, changes of rations and feeding times, moving from one pen to another, irregular cleaning of quarters, the presence of lice and mites, fright and various external influences are well known to reduce the egg yield, to a greater or less extent, from a flock of hens.

The ordinary layer is very sensitive to these influences and cannot give a good

inherent tendency to lay persistently when their pen mates stop or slack up. They may not lead their mates in number of eggs every month or during the most favorable months, or they may.

Naturally it will commonly be found that the yearly total (if it be known) will be larger with these persistent layers than with their mates, but there are some exceptions.

The total number of eggs laid by a hen or by a flock of hens in a given time is of interest to most of us, in fact it is the only thing that will impress most of us in connection with claimed value as egg producers, but it is of real value, as far as breeding operations are involved, only when considered in connection with the hen herself, her history and a knowledge of the conditions to which she has been subjected.

It would be a mistake to keep continuous individual records of a flock of

ered alone, prove nothing one way or the other. If a system of breeding for egg production has been practiced for years and such results have been obtained it seems reasonable to suppose that experience has developed the ability to select good breeding birds.

On the other hand, we should not forget that a demand for stock possessing any desirable qualities tempts unscrupulous people to advertise what they have not got, and sometimes causes honest, but inexperienced people to overvalue what they have got and have handled unwisely. Advice to those who propose to lay a foundation for a prolific flock should deal first with the chicks that they now have or expect to have soon. They should be fed and maintained for growth. I know of no way to improve on the current advice made available to every reader

(Continued on Page 124.)



## HOW AND WHERE TO MARKET SQUABS.

Arthur P. Spiller, Beverly, Mass.

**T**HE method of disposing of squabs varies somewhat with a person's location. For a person remote from the larger cities the most simple and practical way is to remove the squabs from the nest at about four weeks of age. Place them in a crate, not too crowded, and ship them alive to some reliable commission house. Or they may be killed by wringing their necks, or bleeding at the mouth, the same as poultry, and placed in a box or basket after cooling twelve hours. If in warm weather, place in a box and pack in ice, adopting any measures to prevent the feathers from getting wet, and at the same time keeping the birds cool.

A pail filled with ice and placed in the box with the squabs, if the distance is not too great, will answer the purpose.

Some commission houses prefer the squabs dressed. In this case, after they are dressed, pack them in broken ice. As a rule, better prices can be obtained from hotels, clubs, restaurants, etc. This involves some effort at first in soliciting orders, but any one in a position to produce fancy squabs will have but little difficulty in securing all the trade he can supply in this way, and at top prices. In this way the middle men and commission houses are eliminated from the matter and their profit, which, if they handle the birds they are entitled to, goes into the pocket of the producer. To make the most money in raising squabs this point should be kept in mind.

To those nearby the larger cities, mountains, seaside and other resorts, it is always best if the party has time to make arrangements with the hotels and restaurants to supply them with such numbers and at such times as may be agreed upon.

The demand for squabs, especially if they are choice, is always greater than the supply at prices that afford the pro-

ducer a handsome profit. Like every other article of trade, the highest quality brings the highest price.

Before shipping the squabs to strangers it is always well to ascertain their commercial rating, which can be easily obtained of the parties personally by writing to them for reference of their standing, or by consulting the commercial

this to say regarding markets: Squabs are killed by cutting the blood vessel in the throat and bleeding to death. It is immaterial whether they are shipped dressed or with feathers on, as there is no difference in price. My birds go to clubs and private customers direct and the surplus stock to a New York City commission house. They never bring less than \$3 per dozen and go as high as \$5.25.

### WE NEED YOUR HELP.

We are eager to get all the helpful



Group of Prize White Muscovy Ducks at Linwood Poultry Yards, New London, Ohio. These are of the same characteristics as the colored variety.

agency of ratings, such as Dunu, Bradstreet, etc.

It should be the aim and purpose of every producer, in order to establish and maintain trade, to furnish the choicest squabs he can breed, and supply and deliver to consumers, in the way they may desire, either alive, killed or dressed. The more pains taken, the better will be the results.

Ferd Sudow, Amityville, N. Y., who does a big business in supplying squabs has

matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each a year is no information, but when you tell how you made the hens lay then you tell something of value.

### YOUNG CAPONS.

Do not attempt to keep young males not needed later on for breeders unless they are caponized. If you cannot caponize them it will pay you to employ some one who can perform this service for you. Although some of the chicks may have been hatched late, yet they should be caponized in order to secure a better price for them after a while. Some operators caponize the young males when they are only eight weeks old, and it should not be deferred later than to the age of three months. The first thing to do to a caponized fowl is to make it grow. Size is the prime qualification with a capou and the object should be to get the large frame first, and put the meat on when the fowl becomes adult and time for marketing is near. Give them a range and feed them twice a day. If possible, keep them separated from the other fowls, in order to be able to feed them without being compelled to feed fowls that require less food.



Colored Muscovy Ducks, reproduced from photograph made in their breeding yard at Linwood Poultry Yards, New London, Ohio, Chas. McClave, Proprietor. For large size, dark clear color of plumage and bright red faces they distance all other strains. They are "the duck that never quacks." They commence to lay in March and continue through October and November, unlike other varieties they make a nest and deposit their eggs the same as a hen, requiring five weeks to hatch, with four weeks for all other domestic varieties. As layers they lead other varieties of the duck family.



## BARRED PLYMOUTH ROCKS; PROBLEMS IN MATING.

What Are The "Double" and "Single" Mating Systems and What Do They Produce?—Answer to Letter From "A Barred Rock Crank" by Prominent Western Poultry Judge and Specialist in This Variety.

Judge D. T. Heimlich, Jacksonville, Ill.

"A BARRED Rock Crank," in the May issue of Poultry Keeper evidently got his information mixed when he states that "He was informed the pullets from cockerel matings would be entirely too light; and cockerels from pullet matings entirely too dark."

crossed with what was known as American Dominiques.

In all reason there must have been a white cross in them, for they constantly tend to revert on the male side to light, almost barless males. The advocates of the double mating system, by selection of lighter and open barred females, that is,



The Barred Plymouth Rocks shown in accompanying cut were winners at the Chicago, Galesburg and Peoria shows during the past winter. They were bred by O L King, Barred Rock Specialist, of Walnut Grove, Ill. Mr. King reports a splendid trade and good prospects for the coming season. Up to May 30th he had sold 3,015 eggs for hatching. He has a lot of good breeding stock for sale now.

The statement in this paragraph is the reverse from what are facts pertaining to the mating of Barred Rocks by the double mating system. The male progeny of this variety has and still does revert to its earlier ancestor, a white fowl said to have been used in the first stages of crosses of white and black, then top

females with the light spacing between the dark bars, produced the light effect that gave them the honors at the earlier exhibits, and sometimes at the present day these light specimens may be given the honors. This led many to endeavor to produce these light birds in greater numbers by the continuous selection of such

specimens, mating them to males related, clear in color, but almost barless.

"The pullet matings" have held their own and find defenders by the scores to prove that this system is right because if rightly carried out the results justify the means, as the progeny carry with them the perfect details, such as yellow beak, skin and legs. Being a one-sided mating, the darker color pigment has been bred out and this tendency eliminated in a large measure, but it too has its limits or the under-barring is lost. The male progeny from such matings seldom are exhibition specimens, for their weak barring or barless plumage can be sold only on their breeding, on account of coming from a choice hen whose owner knows her merit as a breeder of her kind, shape, size, etc.

The cockerel mating of up-to-date specimens are males and females deep, clear and narrow barred in every section. With this plumage faulty beaks, skin and leg color are common defects. The males, taking after the lighter ancestors, tend to come with clear yellow beaks and legs, if bred out of a female good in these points. Such prove valuable as exhibition and breeding birds, by the continuous selection of the darker males and the continuous mating them for several generations to females bred along the same line. The reverting tendency to the light ancestor is checked and the darker shades of barring in the male become fixed.

With the selection of mates of suitable shade of color and the right character of barring as to number of bars and the intensity of the dark and light bars, cockerels are produced that come even and deeply barred, such as are admired for their pleasing and attractive style. The clearer shades of color are brought out in a strong degree and such birds prove the winners as a rule, because they are the production of skill in selection to a higher and more definite type of barring, which adds to the beauty of this variety.

This cockerel mating, however, will not breed all A No. 1 male chicks, for the dark color pigment, coming from the original black ancestor on the female side, asserts itself in the throwing of many male chicks unfit as breeders, while the greater number of female chicks are smudgy and unworthy as breeders.

Here have been presented the facts pertaining to the double mating system practiced by its advocates. The greater majority of breeders and would-be breeders have purchased stock or eggs and mated them as they proved of merit in the show room, thus often mating a male with correct type of barring and good color coming from a cockerel mating, to females from a pullet mating. The result of such breeding is a conglomeration of shades of black and white, with badly broken barred plumage of blurred and indistinct coloring and barring.

These birds of uneven plumage and barring disgust the man or woman who expected to raise seventy-five to one hundred per cent of exhibition chicks from exhibition stock. Now, the judges are too often misrepresented as favoring the lighter or darker shade of color because the best specimens come from this double mating, which, when bred together, proves unsatisfactory. The judges who have bred or studied this variety have not and should not have any prejudice when pass-



ing on an exhibit, but should, and as a rule do, place the awards on the best individuals, regardless of how produced. When a poultry judge meets with a good shaped male or female that also has the points required perfect, or almost so, his business is to give merit the credit when found, although he may know that the specimen winning may have been produced by an extreme mating, or by what is called a medium, or single mating method.

Single mating means the selection and mating together of the best birds produced from the double mating method, that as individuals thus furnish the foundation. On the female side they should



Barred Plymouth Rock Pullet from pullet mating, as bred by D. T. Heimlich, Jacksonville, Ill.

have the lighter surface and clearer under-barring, the dark and light bars as near of equal width. Mate such females to males medium in color and as near correct in narrowness and depth of barring as can be had that were sired by a male from a cockerel mating, but mated with a female good in beak, skin and leg color, so that these features are clear.

In working on the single mating plan the breeder must keep in mind the necessity of darker barred plumage necessary to eliminate the ever reverting breeding tendency to the light washy males, and must use care in selecting females as breeders that show the best size, shape and color, with distinct and clear barred plumage. From such selection and matings the advocates of the single mating system produce many males that prove winners in competition with males produced from the extreme cockerel matings and females produced by the extreme pullet matings.

Now all these distinctions will not clear up the point under discussion, as it takes experience, persistent study and keeping in touch with the progress upward as displayed at our annual exhibits. It is here where many lessons must be learned as well as in the mating of this variety. Ask your judges questions. The awarding of a prize to a medium, a light or an extremely dark specimen at a show should lead those who are interested to ask and be shown why one bird wins over the other. A judge must sum up all points either by comparison judging or the score card.

To illustrate: Two male specimens come before him, both are up in size and weight, one a trifle heavier than the other. All this is noted on the card. One conforms in shape to what is called for by the standard. Result—he is cut slightly, if any, in all sections pertaining to shape, yet in barring and color he looks rather light on account of the dark bars being narrower than the white, yet in all sections the barring conforms fairly well as to depth and straightness of the parallel barring of plumage. The judge recognizes this specimen as being well bred, with comb, eyes, beak and leg sections good, if not perfect in all. His discounts are made on plumage, three-quarters in neck color, one in back, perhaps one in tail, and one and a half in wings. He totals up to 92½ points, a rather high score for a medium light specimen.

The next is a specimen elegant in plumage, deserving but half point discounts

in neck, back, breast and tail, for color defects and one on wings; in comb same as the other. This bird has gained by lighter discounts from one-half to one point over the other in all color sections of plumage, because it conformed nearer to the standard requirements—narrow,



Barred Plymouth Rock Cockerel-bred cockerel. See article by D. T. Heimlich describing systems of breeding this variety.

deep and distinct, nothing to punish for only the intenseness of the black on back or light tips of hackle instead of dark; beak, too, shows a streak of horn color. He shows distinctly his coming from a cockerel mating.

He is No. 1 in plumage, but away off in general shape so that when his score was added what he had gained in color he lost on shape, being too long in neck, back, tail and legs, yet leaving him with a score of 92½, the same as the other cockerel. Had it not been that his weight was less than the other (which placed him second by the rules of the standard), the judge would have been criticised as favoring the lighter shade of color of the first described cockerel, regardless of the fact that he outclassed this darker bird



Flock of White Holland Turkeys "at home" on their range at Linwood Poultry Yards, New London, Ohio., Chas. McClave, Prop'r.



in all sections that go to make up correct shape for this breed, or the fact that sixty-five per cent is the valuation for shape and thirty-five for color.

Those who saw these specimens side by side should learn from the judges why the lighter, medium colored bird should have had the preference had the award been decided by the score alone, had the heavier weight given preference by the standard not necessitated the ruling in favor of the lighter colored cockerel. The two cockerels are advertised as both scoring 92½, one winning over the other by over-weight only. Supposing the award had been made regardless of weight by comparison, the judge without doubt would have given the lighter cockerel preference for several reasons satisfactory to any unbiased mind or a breeder of experience with the variety.

First, he presented the correct type, the proper length and shape of neck, a perfect shaped back and breast, and proper length of legs, upon which sat a finely proportioned body. His bay eyes, clear yellow beak and legs, and depth of under-barring readily indicated good breeding, a good breeder whose mother must have been bred right, and whose sire must have had strong color breeding qualities that he transmitted to this specimen in a pronounced degree. Such a specimen could be mated with standard females and would produce many like himself in shape and color, a few better and some too light.

The darker bird would be admired more for his plumage, but the angular body and poorly proportioned sections would lead one to expect all kinds of shapes in his progeny, which could only be brought to a more symmetrically shaped type by careful selection and close inbreeding with extra finely shaped females. There is another fact peculiar to many of these darker bred males, their plumage has been attained by sacrificing shape in many instances. This, however, is being largely overcome by careful selection of mates, and the holding to certain well fixed types that are found among the short bodied and close to standard weight specimens. As the new standard will require cutting for overweight as well as underweight, the breeders of Rocks will more quickly acquire and stick to the types that conform nearest to what is wanted and that are most desirable as breeders and exhibition birds.

Keep birds that you are proud of. Have them uniform in size and color, even though they are not pure-breds. Better still, start with good birds, of good laying stock. You can find them if on the lookout for such stock. Well-bred laying stock cannot be had for half a dollar a head. They pay the raiser too well for him to sell at less than cost. Two dollars a head is not too high to pay for birds that have been bred from 175 egg pens, though five dollars will buy a trio of fairly well marked birds of superior laying quality. Better engage such stock early, as the supply is limited and the demand large.

Less corn and corn meal, and more bran and green food, will give more eggs and more healthy poultry during the summer months. A free range, with an orchard at hand, will solve the problem of green food and cheap summer eggs.

## BREEDING OF PHEASANTS FOR PROFIT AND PLEASURE

By Ferd Sudow, Prop'r. of U. S. Pheasantry, Amityville, N. Y.

**T**HE pheasant industry of the United States has become very popular of late years on account of the demand for pheasants in the market at \$4 to \$10 per pair weighing three pounds, and because they have been introduced as one of our game birds in park preserves, and again held very frequently by private individuals as a pet bird. The pheasant is of most noble and beautiful form, with attractive head, stout bill, short wings, elegant long tail adorned with brilliant golden spangled plumage, one breed more beautiful than another.

I handle a large flock of pheasants and

Therefore, to raise these birds I use small common chicken hens. Pheasants' eggs hatch within twenty-two days, except Silver, which hatch in twenty-eight days. The most important point in raising pheasants is to rid the sitting hens of lice and red mites, and this is not such a very easy task as some people think it is.

The first three or four weeks I feed hard boiled eggs, dry bread crumbs and a little canary seed, about one egg to eight young, and give them free range. An excellent pasture is a clover patch or lettuce close by. Grass and clover are as much the "staff of life" of pheas-



Golden Pheasant Cock, Owned by U. S. Pheasantry, Amityville, N. Y., Ferd J. Sudow, Prop'r.

generally mate in pairs; also one cock with two hens in the early spring, which I keep in separate small parks, size about 8x10 feet. I say parks because a pheasant does not require any housing. The only thing I do for their protection is, that I plant small evergreen trees in the park and have plenty of shelter from the north. These birds, being of very hardy constitution, will stand most any kind of weather and will not take shelter at any time. From all my experience, I never yet had a sick pheasant. Diseases common among chickens, as roup, etc., have never yet occurred in my pheasants. In July I change cock birds to those which have not been used in the breeding pen that season, causing every egg to be fertile to the last one laid.

Pheasants, very tame to their keeper, are extremely shy and timid in their conduct to strangers and animals. The male birds are great fighters, and two of them rarely live in the same park during the breeding season. A pheasant hen lays between sixty-five and seventy-five eggs in a season, from April until the middle of August. She makes her nest on the ground. They are very poor mothers, at least in confinement they do not seem to have much natural love for their own.

ants as bread is to man. Pheasants will thrive on grass and greens exclusively. I make it my business never to touch their feed with my hands.

I use a large airy dry goods box for a coop, take one side entirely off and put poultry wire on instead, and station it in a shady spot, or else have bushes over the top. I place a yard of 12-inch wide boards about three feet square around the coop the first three days, in order for them to get used to their mother's call and not wander off. Pheasants, when newly hatched, are very strong and lively and ready to eat at once, therefore I do not wait twenty-four hours, but feed at once, principally dry bread crumbs for the first day. I claim that nothing but lice to worry kills the young. They are as easy to raise as chickens and can be reared in any kind of climate. I raised seventy-five per cent last year and most of my birds were raised in August.

When four weeks old I feed with grain. When eight weeks old I cage them in with two-inch poultry wire and give them lots of brush to roost on, which is an important point to observe, also shelter from the north. Young pheasants cannot stand roosting on the bare



ground. They grow very fast and have their full plumage and tail when five months old.

Pheasants are very small feeders. Feed for ten head of fowls is enough for twenty-five pheasants. If you are a lover of birds, try to raise pheasants. It will give you a great deal of pleasure, besides being a profitable industry. Pheasants and

**TURKEY POINTERS.**

While no exact set of rules can be laid to assure successful turkey raising, I shall give some information that I trust may assist the readers of the Poultry Keeper for I am considered very "lucky" in the art.

To lay the first stones of a foundation



Pair of English Pheasants.

pigeons go fine together. Pheasant roast is the finest delicacy on earth. Pheasant flesh is produced at same cost as chicken flesh, chicken meat sells at 10c per pound, while pheasant meat sells at from \$1 to \$2 a pound in the market.

During the winter I set up lots of corn stalks on the north and west sides of my park and have lots of pine needles on the ground. They make the snow melt quickly and keep the birds off the wet ground. I feed principally whole corn and cabbage during the cold months. I do not use boards at the bottom of my wire to the south as I want to give as much sunshine as possible for the run. I am also a breeder of fancy and homing (Belgian) pigeons, and keep pheasants and pigeons in the same wire aviary. They seem to have a great attachment and admiration for one another and act very peaceful together. Taxidermists pay from \$2 to \$5 for the skin and plumage of pheasants.

From present indications Game Pheasants will be very much in demand this spring and I expect to be 5,000 pheasants short on orders for stocking game preserves. I have bought every pheasant procurable in thirty states and Canada for stocking game preserves this spring. Our wealthy sports are fast becoming able to get up pheasant shoots like the English lords for a 1,000 bird kill in one day, of which we read about frequently in England. Pheasant meat far exceeds any kind of game in delicacy and flavor. Later on I will tell more about keeping lice off, egg eating remedies, getting pheasants ready for early laying, etc.

**Sunflower Seed.**

Send twenty-five cents and secure postpaid a one-pound package of sunflower seed for this year's planting. Yield very prolific, running from 50 to 75 bushels per acre, and requiring only three pounds to seed an acre. This makes a cheap and valuable poultry food and is fine for egg producing. Poultry Keeper Publishing Co., Quincy, Ill.

for success the stock must be healthy and vigorous; the parentage free from many ailments of the turkey yards where they are cooped and pampered until all vigor is lost. Therefore when procuring new stock, get farm raised, free range blood. I find that the Mammoth Bronze Turkey, like the Barred Plymouth Rock chicken, is the best all around friend to those who raise them.

Lice are the enemies to all poultry, to the turkey worst of all. Success cannot be if the turkey is "buggy," and when these lessons are learned and a few common rules are followed any one can be successful and raise a nice drove, not-

Remember, the young must have grit as their first food, for food will soon cause bowel trouble if given before they have "teeth" to grind it. Fowls have no incisors, therefore grit supplies the deficiency. I rarely lose a young turkey and then only by accident, and far prefer caring for them than chickens.

Like everything else, 'tis best to start right, but if that is not done, of course, one has to strive to do the best he can under existing circumstances, although more trouble and less satisfactory. Best wishes for the Poultry Keeper and its Mammoth Bronze Turkey raisers.

Mrs. Jesse McMahan.  
Blackwater, Mo.

**SUCCESS WITH POULTRY.**

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

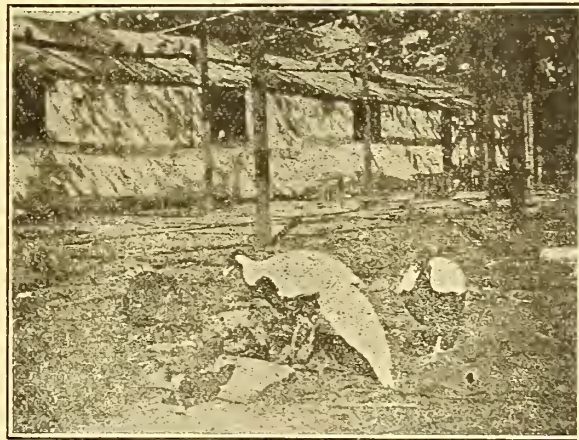
Do you want to start right? Success With Poultry will help you.

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

Do you want to get plans for building practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poul-



Pair of Silver Pheasants in runway at U. S. Pheasantry, Amityville, N. Y., F. J. Sudow, Prop'r.

withstanding the fact that the turkey has been considered as hard to civilize as the Filipinos.

I give my turkeys the free range of a large farm and always feed of evenings when they return home. They consider this the sweetest morsel of the day and so always turn their heads homeward about four in the afternoon.

I use and advise dry feed for the poults.

try Keeper and send Success With Poultry postpaid. Offer good for new subs or renewals. Address Poultry Keeper Pub. Co., Quincy, Ill.

It requires a higher fence to hold the stock in bare yards than in those that are grassed. The grass outside the fence is very tempting to those unfortunate birds that are deprived of it.



**PROPOSED HOUSE FOR  
500 LEGHORN LAYERS.**

**A Subscriber Submits His Proposed  
Plan and Asks for Suggestions.**

Fortsville, N. Y., May 28, 1903.  
Editor Poultry Keeper.

I am getting my plans in shape for the enlargement of this plant during the coming summer. We have it in mind to build a laying house to hold five hundred hens and the plan proposed has met with considerable opposition from quarters that may be considered as expert, and hence worthy of all due respect. I should like, if you can afford me space, to outline this proposed house in your much valued paper in order to provoke discussion and thereby gain the views of more than one person regarding this style of house.

While I appreciate that this house is not original, nor in any way a new design, so much opposition has been met with on proposing it that I am desirous of having the views of any who are interested in caring for poultry by extensive methods in winter.

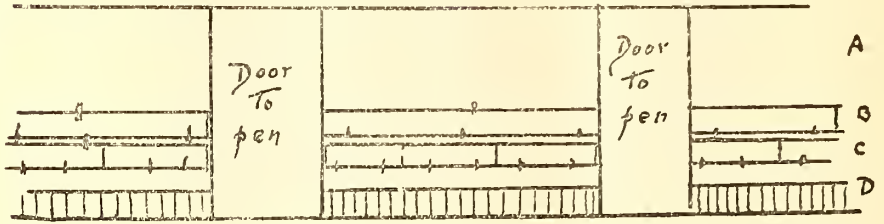
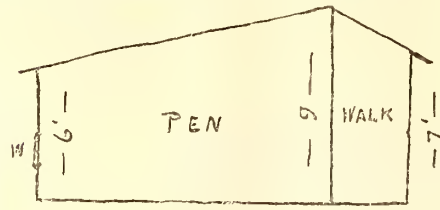
A building 252 feet long by 15 feet wide divided into twenty-one "pens" with wire partitions between 12x12 feet and a walk at north, entire length of building, three feet wide. The center pen to be used as a feed and cook room, supply of sand, water tap, grit, etc., etc.

Twenty-five hens (Leghorns) and two cocks occupy each of the other twenty pens. Straw loft overhead. The walk is used to feed and clean each pen. There would be two windows two and a half by two and a half feet to each pen on the south front and a window (same size) with storm sash on the north, giving equal on each two pens.

Every twenty-five feet there would be a small cleaning door three by three feet in the north wall to pass straw and droppings outdoors. Overhead in the

walk would be a trap door to loft through which the straw supply would be passed into the walk and thence to each pen. The entire house to have a board floor,

If you buy eggs for hatching try to learn something of the standing of the man who offers them. Do not dictate too much in writing him, but put him on his honor to do his best by you. When you get eggs from the best of stock you must expect to pay a fair price. If you find fifteen eggs in the sitting, when you open the box, do not think of putting that number under one hen. I have known this to be done so many times with poor hatches that I say, "Do not do it!" Divide the eggs between two hens; you will hatch twice as many chicks, and they will make better birds.



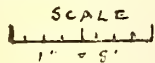
WALK

- A - Matched partition back of roosts
- B - drop door for cleaning droppings
- C - " " gathering eggs
- D - slats for feeding mash  
Troughs placed in walk

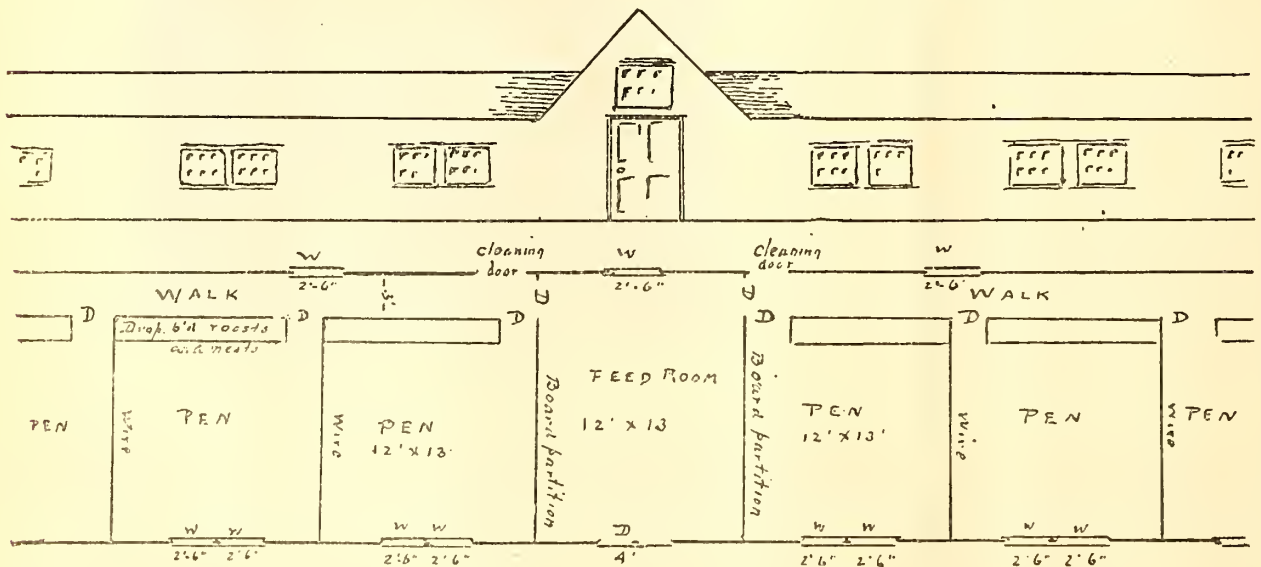
matched and ceiled overhead six feet high. A wheelbarrow could be handily used in the walk, both for feeding and cleaning. I estimate such a house at \$650, if the roof is shingled, which I advise.

You can hatch more chicks from twelve eggs under the average hen than you can from fifteen. When the larger number are used, some of the eggs are constantly getting out into the cold and becoming chilled.

D. W. Gregory.



FEED ROOM IN CENTRE OF HOUSE - pens extend east & west as far as desired



House designed for Leghorns

SOUTH



# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turk-ys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## STARTING EGG LAYING STRAIN OF SUPERIOR MERIT.

Dr. N. W. Sanborn, Bellingham, Mass.

**T**HE utility side of poultry keeping is now having its "inning." The letters that have come to me this year asking questions along this line have been earnest in the determination to do better work along the getting of more eggs. Wintereggs have been sought as a money making plan quite successfully, but the getting of a flock of birds that lay well all the year is more modern. These inquirers for better layers have been told more or less directly by some of our city editors that the two hundred egg hen is not to be met, except in the paper idea of some seeker for notriety.

It is true that few flocks have yet reached two hundred eggs per year as an average, yet we have perfect confidence in the statements put forth by men of standing in poultry matters, that the two hundred egg hen is now in sight. In fact, we have not a few of them already, but it is the flock of large average egg yield that we are looking for, and some of us think we have nearly reached success along that line.

There are two methods of gaining success in the getting of a flock of birds of the merit we are talking about. The first is to start with such birds as we now have and improve them up to the limit of our standard. The second is to buy eggs or stock that come from efforts already made in this profitable line of poultry keeping. The first plan costs little in money, but may take time to get any advance in increased egg yield. Time is money to most of us, and so we will follow out the idea of beginning where the other fellow leaves off.

"Like produces like," whether it be deformed combs or large egg capacity. Birds bred from great layers stand a better chance to become themselves birds of record stock than do those that have come out of "any old thing." My experience of some time ago with Silver Wyandottes taught me that there was a great difference in the laying qualities of the prominent strains of that day. I was interested enough to look into the matter at the time, and found that the men who sent out birds of poor laying qualities did not attempt to put practical points into practice. One of these men told me that he did not want his birds to lay till the egg hatching season set in. He set his hens late, his birds matured in mid-winter, and did not lay until early in March.

He could sell a bird or two at fifty dollars for the New York show, but he had to buy his table eggs during the winter months. I could not, doing my best, get chicks from his eggs that were worth



Typical Black Rose Comb Male Bantam, winner of first at Pan-American and second at New York, 1902. Bred and exhibited by Pollard Bros., Rutland, Vt.

keeping from an egg profit standpoint. He had spoiled his strain along practical lines.

Eight years ago a man appeared at my yards one day and wished to buy four sittings of eggs—two sittings from one pen and two from another. He had arranged with a neighbor to buy two of the sittings so that each could look to the other for a cockerel for the next year's breeding. The two sittings the neighbor got from my "Pen H" were from as good looking birds as those that the man's eggs came from, but look at this statement! The chicks from "Pen H" proved to lay 160 eggs as an average, while those from "Pen S" gained the record of "210 egg strain."

Why was this? It was all in the breeding of the strain. Both lots of chicks had the best of care and food and suffered for nothing that goes to make healthy layers. Pen H was of a strain

of "big, show" White Wyandottes, bred for fancy largely, but having in their make-up little that would make you think them worth much for active layers of good sized eggs. Pen S was bred for business first, with show points a close second. Every bird in the pen was wide-awake, slightly under weight, and the cockerel was a bird that was never quiet. If there is an "egg type," and I think there is, these birds had it. They certainly had been bred for eggs, as the others had not, and the "proof of the pudding was in the eating." As I looked into the history of these two pens of White Wyandottes I found to be true, as I had before with the Silver Wyandottes, that birds can be bred for eggs as well as for any other single point.

My experience with other breeds has been enough to prove to my satisfaction that blood tells in money making egg production. I could illustrate my standpoint still further by telling of my work along this line with Buff Wyandottes, but that is so recent that it is well known to most of my readers.

If I were starting again, with the

knowledge I have. I would buy a small breeding pen of the best laying yearling birds I could pay for. I should write to the man who has made a start in the breed I desired to improve and tell him just what I wanted, what for and the price I could pay. I should insist that the male bird he was to send be as carefully bred as the females. I should ask what he could send for the money stated, how many and the quality from a fancy standpoint. I should take a few birds of high practical qualities rather than a larger number of doubtful character. If I had limited house room, if I lived in a village, I should make my start with five l'rds.

These birds need good care. It is true, as was said in a recent issue of Poultry Keeper, "It takes a 200 egg man to get 200 eggs a year from each bird!" These few birds need plenty of room. Eight

(Continued on Page 123.)



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,  
(INCORPORATED.)

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All subscriptions invariably discontinued at expiration. Subscribers will confer a favor by reporting to us any irregularities in receiving the Poultry Keeper.

Advertising Rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, EDITOR. } Associate Editor, { DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR  
AND VOLUME.

JUNE 15, 1903.

NUMBER 3.

## WORK ON THE NEW STANDARD.

The committee appointed by the American Poultry Association to revise the Standard of Perfection met at Buffalo, N. Y., May 11 and held a two weeks' session. As a result of the work of this committee, the poultry breeder has in prospect a greatly improved Standard, the distinctive feature of which will be the illustrations of male and female of the varieties of fowls recognized by the Standard. These illustrations will be the work of the best poultry artists of the country—Messrs. Pierce, Sewell, Burgess, Richardson, Comings, Graham and Shilling. It is also recommended that there be illustrations of the different styles of combs, and the enlarged glossary of technical terms will be illustrated, showing what is meant by such words as pencilling, lacing, a twisted comb, thumb-mark, etc. Other illustrations will be introduced, showing in outline, by degrees measured from the horizontal, the proper carriage or elevation of the tails of the more popular breeds; there will also be a new diagram giving the nomenclature of a fowl. The frontispiece of the new Standard will show in colors a pair of Silver Pencilled Wyandottes.

The size of the book is to be enlarged to 5½ inches wide by 8 inches long, to be bound in semi-flexible cover with round corners. The price will be \$1.50, and it will be many times as valuable a book as is the present Standard.

The revision committee made a complete overhauling of the old Standard and we are promised a revised book that will be in fact a guide to every breeder of standard-bred poultry. The recommendations of the revision committee will be laid before the American Poultry Association at its next meeting, and as soon as that body approves the work of the committee, progress will be rapidly made.

## THE UNPROFITABLE MAJORITY.

In one of the bulletins of the U. S. Department of Agriculture the statement is

made that, "Good judges believe that in the entire country one-third of the cows kept for their milk do not pay for their cost of keeping, and nearly a third more fail to yield an annual profit." This is usually due to lack of exact information as to the quantity and quality of milk produced by the individual cows, and the approximate cost of production."

If this is approximately true of the farmer's cows what shall be said of the farmer's hens? Certain it is that more is known about cows than hens, and it is equally certain that farmers as a rule pay more attention to their cows than to their hens.

In this connection we refer again to the same U. S. Bulletin and find the suggestion that, "Trap nests might be employed with advantage in practice to weed out unproductive hens from a flock and to select for breeding only those which are good egg producers."

## THE SMALL FLOCK.

We hear a good deal about the "egg farm" and the "poultry plant," but not enough of the single yard of village birds. We venture to say, that three-fourths of the poultry of our country to-day is to be found in the small flocks. The large proportion of the birds kept in America are to be seen in the single yard of town or farm. Ninety-nine persons keep less than thirty birds to every one person who owns more than that number. It is the owner of the small flock who takes the poultry papers and makes possible, through advertising, the publishing of so much valuable matter. It is the small breeder who takes the most interest in the poultry shows and sends more than half the entries. He may raise less than a hundred chicks, but he culls closely and breeds for quality. He prefers a few fine bred chicks to a large number of inferior birds.

We believe in the raising of birds on the village lot. There is some money in it and a lot of satisfaction. The waste from the table goes a long way in the

feeding of the birds, and the yarded chicks will make way with a lot of weeds and surplus from the garden. Then, the droppings help wonderfully with the growth of the vegetables. The hen yards can be moved from year to year, giving garden spots of superior richness. It is even possible to grow chicks and certain vegetables on the same plot, to the better growth of both. Most fruit trees do finely in a chicken yard, while the shade is helpful to early maturity of the new crop of chicks. A little care and forethought will make possible the growing of animal and vegetable on the same small back yard.

Usually the bird in the small flock pays a larger dividend than the poultry farm fowl. Then the pleasure of knowing that you will find the morning eggs, when used on the breakfast table, to be free from started chicks. There is a great difference in the taste of a fresh-laid egg and one that has been held by the farmer a while, kept in the tobacco scented air of the store for a week and then passed on to you. We eat more of the "good" kind and wonder at times how we used to get down any of the "store eggs."

We wish we could get at the ear of the woman who lives in the small town and village and tell her of the good that would follow the buying of a dozen early pullets. So many women have the knack of succeeding with poultry, yet few ever find it out by actual practice. We know more than one woman who supplies her table with eggs besides selling chicks and eggs enough to give her a dollar in cash for each hen carried through the winter.

If you find a neighbor who should be interested in poultry, but has never started, talk hens to her, enthruse her a little. Perhaps you can let her have a cheap start from your flock this fall. It is better to have your own birds laying eggs than to arrange a nest for the wandering hens of your neighbor to lay in. If this is true for you, it is also true for that woman next door. Keep her from being tempted to help your hens to lay on her side of the fence. Is this ever done? We know of a case near at hand this spring.

The small flock is much more common than it used to be, but there is room for twice the number in most of our towns. Then on the farm the small flock, when well taken care of, will return twice the profits that many a neglected lot of "farm kept" birds produce. Most farm flocks, usually kept, are little profit and no satisfaction.

More small flocks, better care, larger consumption of eggs and poultry, better quality of stock, higher price for poultry products—such are the prospects of the near future. We want to help you along these lines in the development of the small flock. N. W. S.

## WHEN THE BUYER EXPECTS TOO MUCH.

Don't expect too much from the eggs for hatching that were bought at what seemed to you to be a high price. If every egg were to hatch a strong chick the price would be much higher. If every chick were sure to be a prize winner the price would be higher still. When we buy eggs for hatching we are dealing in chances, yet that is often the cheapest and best way to get good stock.

Some breeders guarantee a good hatch,



but it is unreasonable to expect them to do so. When the eggs have been properly packed and delivered to the express agent the seller's responsibility should cease. The conditions to which those eggs may be subjected after that are entirely beyond the seller's control.

When a buyer reports to a seller that the eggs were not what they should be, how can the seller know that the buyer tells the truth? Cases have been known where the buyer got a fine hatch and then reported every egg infertile and demanded more eggs or his money back. Human nature averages about the same everywhere, and there are thousands of buyers where there is one advertiser; and the buyer generally has the advantage.

When an advertiser cheats a buyer he can be brought up with a sharp turn if proper measures are taken, but how can an advertiser get satisfaction from the buyer who cheats him? There is no way so he must protect himself at the start.

**LAYERS AND NON-LAYERS.**

If the most prolific hens were retained and the worthless ones marketed, a great improvement would soon result. It is the keeping of the drones that makes expenses large and receipts small. It is a loss of time and money to feed ten hens in order to secure eggs from only five. A small flock of laying hens is more valuable than a large flock that is "expected" to begin laying.

Don't depend on uncertainties. The hens that are not laying during those periods of the year when all the conditions for so doing are in their favor, will give but little profit when the conditions are against them. It is a risk to keep a flock of hens on the probability that they are "about" to lay. The most deceiving hens in this respect are those that apparently are in a very healthy and thrifty condition, but are too fat. On the principle that "food makes eggs" these hens are fed liberally, and while their appe-

ties will satisfy the most sanguine owner the egg basket is not filled. Finally, as time flies on, and the season is well advanced, a little reflection points to the fact that such hens cannot now pay for past favors, even should they begin laying, and the accounts place them on the wrong side of the balance sheet. And now, when the hens begin to lay, having been highly fed, the molting stage comes on, and it takes them three months more to shed their old feathers and put on a new suit—all at their owner's expense.

There is a wide difference in hens. Some will begin laying late in the fall, lay on through the winter and during the summer, losing no time until August or September, when they begin to molt. But molting is fatal to such hens, as they receive no credit for their good works. If they set an example of usefulness, they lead their owners to expect them to continue, and as soon as they fail to keep on, their heads fall under the hatchet for simply resting from their labors; while the fat, drone hens that have been expected to begin, are retained a second year in the hope that they will do better. Individual merit is swallowed up in the virtues of the whole number.

The most uncertain of all are the early pullets. A pullet that does not begin to lay before she is ten months old should be sent to market. It does not pay to keep pullets to replace hens, unless the pullets begin to lay in November, and then lay during the winter. When the pullet is slow in beginning to lay, the cost of her maintenance detracts from the profits too greatly. When early pullets (those hatched not later than April) do not begin in November it is seldom they will lay until the opening of spring.

It is much cheaper to keep the old hens during the three months required for the molting process than to sell them off and replace them with early pullets. The old hens will cost less and pay better. No early pullet will pay for herself until she is at least eighteen months old, as she

must return the cost from the time she was hatched until the time she begins to lay, a tribute the hen has already paid. To insure a profit, even though a small one, keep no non-layers. Better feed but one hen which produces eggs than to keep a dozen and get nothing.


The larger the number the greater the cost, but it is not the rule that the larger the number the more eggs produced. Too much time is lost waiting for hens to begin to lay, even after winter sets in.

**POULTRY AT THE WORLD'S FAIR.**

Poultry, pigeons and pet stock will all be given attention at the Louisiana Purchase Exposition fully commensurate with the magnitude of that great World's Fair. In many ways the fair at St. Louis next year will double standards set by any previous international exposition. The Live Stock Department, under which the poultry and similar interests are classified, is arranging for exhibitions that will make St. Louis the goal of all progressive breeders and fanciers in 1904.

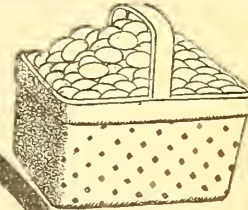
The extent of the classifications will permit of innovations not practical at ordinary exhibitions. In adding these, Chief Coburn of the Live Stock Department is following the plan of securing a consensus of the best authorities on any feature as to methods to pursue. His effort will be to have an exhibition in every class of what the breeder or fancier will expect to see when coming to the biggest world's live stock exhibit and if possible greatly to surpass all expectations.

Some of the State World's Fair commissions are planning to aid the poultry associations in gathering up and sending to St. Louis a state exhibition that will show how great an industry has been developed in the territory represented. They appreciate the value of doing this because of the honor that will come with winning prizes at St. Louis.



**Trade Mark Registered July 17, 1893**

# Lambert's Death To Lice Powder




**Its Use Causes Breeders to Produce Fertile Eggs**

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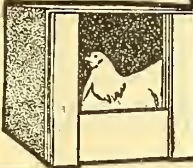
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**D. J. LAMBERT,**  
Box P. Apponaug, R. I.



**It Never Injures Little Chicks**



**It Makes Hens Sit Better**



## GENERAL MERIT OF BUFF ROCKS.

James Q. Myers, Oaks, Pa.

"Decided on the laying question?" Yes, I am decided on the laying question—that is, that the Buff Rocks are a better winter laying breed than the Barred Rocks. Of the four breeds I am raising, Barred Rocks, Buff Rocks, White Wyandottes and Light Brahmas, the Buff Rocks are ahead of the rest. I have four yards of the varieties mentioned side by side; I feed them the same; the yards are about the same size; the scratching sheds the same, but for all that the Buff Rocks are far ahead of all the rest of the different varieties in the egg production. It was the same last winter. I thought it was only a happen so last winter, but I am convinced now that it is not a happen so, that the Buff Rocks are really a better laying breed in winter than the Barred Rocks.

I was not especially anxious to have my breeding hens lay much before the breeding season, as I wanted the eggs for customers later in the season, but the Buff Rocks would lay, so I just had to let them have their own way about things. I have several large and fine yards of Barred Rocks, and I always did like them, they are so fine and stately in appearance, but I consider the Buff Rocks the superior, all things considered, of the Rock family. Such at least is my experience from a general utility standpoint, and I think I am voicing the sentiment of most breeders who have put the different breeds of the Rock family to the test as I have done.

## A Little More Broody.

For market purposes I am convinced that the Buff Rock is a better and more desirable fowl to have than the Barred Rock. That part is settled with me. In point of broodiness, of course, I must admit that the Buff Rock is more persistent in wanting offspring and in filling her mission in life than the Barred Rock. With this exception (if an exception it is to be regarded) I consider the Buff Rock the better of the two breeds. Of course when I say this I mean it from the standpoint of general merit.

As to the matter of fancy I am somewhat inclined to the Barred Rock and always have been. But the fancy side is only skin deep, or rather feather deep. Once the feathers are off the Buff Rock is the better shaped and more desirable for market purposes. I have several large yards of Buff Rocks and I think they are the picture of beauty. Were it

not that my father had the Barred Rocks so long before the Buff Rocks were introduced I would positively decide in favor of the Buff Rocks in every point of consideration. But when you have had a good friend for so long, and one that has always given satisfaction, you don't want to turn him down soon. This is just the way I feel in regard to the Barred Rock. But if ever I decide to breed only one kind of the Rock family, I shall certainly decide in favor of the Buff Rock as most desirable and profitable of the different breeds of the Rock family.

My Buff Rocks this year are the finest I ever had. I shall expect good results from them in every way. Many of them will be a little over a year old by the time the egg season is here, so I feel that those who will get eggs from me will get eggs that will hatch and produce hardy and good stock. Experience has taught me that pullet eggs are not what is wanted for the best results in the raising of hardy and strong constitutioned stock. One reason or cause of the great fatality of young chickens is owing to the fact of too many pullet eggs being used for hatching purposes. A pullet egg may be just as good for the table and all other purposes, but for hatching purposes, especially when it is desired to raise about all the little fellows to maturity, give me eggs from hens over a year old mated with a good yearling male every time. I always get the best results from such mating. Try it and be convinced.

## PIGEON HENS.

The best results from pigeons, when squabs for market are desired, is to make wire covered runs for them, keeping them confined. This may appear strange to some, but experience has shown that when pigeons are allowed their freedom there is a considerable loss from hawks, cats, boys, and even "sportsmen." When kept in wire runs the sexes must be equal, as an extra male will break up the matings. Pigeons pay a larger profit than hens if kept in runs, but the yards and house must be kept clear of lice. It is unfair to neighbors to let the flock fly wherever they prefer, but by confining them a more satisfactory result is secured, and no damage is done.

## SUMMER WITH POULTRY.

The advantage of the summer season is that the cost of keeping poultry is but very little, as the larger share can be

picked up by the hens if they are on a range. The profit in summer is fully as large as in winter, for the hens will lay twice as many eggs in summer as in winter, and thus compensate in quantity for low prices.

It should be impressed on readers not to feed grain except sparingly, as the hens will soon be thrown out of condition by too much food when the weather is warm. In some cases excessive heat causes very fat fowls to succumb. With an abundant supply of grass, seeds and insects there will be no lack of a variety. Grain should not be given at all when the hens are inactive. They should be made to seek their food as much as possible, and by so doing they will keep in better health. They should have plenty of fresh water, and care must be taken not to overcrowd them on the roosts, especially on very warm nights.

## SCALES ON LEGS.

Scurvy legs is one of the most disgusting sights witnessed in a poultry yard. It not only disfigures the fowl and denotes filth, but it is a source of annoyance and discomfort to the birds. It is the work of a minute parasite and is contagious. There are quite a number of remedies for the disease, but more depends upon care for a few weeks than anything else.

Take three tablespoonfuls of lard and add to it two tablespoonfuls of kerosene oil and one of glycerine; then drop into the mixture (which should be mixed warm, not hot) two drops of carbolic acid. Wash the legs of the fowl and wipe dry, rub on the mixture very thickly, having it warm, not overlooking any part. Repeat this twice a week for two or three weeks and the legs will soon become clean and perfectly smooth.

If you are through hatching, get rid of all male birds. The hens will do better, the eggs will keep better if unfertilized, and you will have less producers to feed. The average poultryman will do best to use cockerels for breeding and sell or eat them when through the breeding time of the year.

Leg bands for identifying the individual birds are very cheap and should be employed more than they are. If you don't know enough about the individual birds to be able to put it down in black and white for future reference, you don't know much about them. Reliance upon memory alone is a poor way to keep track of details.

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**POLLARD'S POULTRY FARM,**  
Attleboro, Mass.



**THE FARMER'S FOWL.**

**The Breeds of the American Class Best Suit the Farmer—Something About Their Special Qualities.**

By Arthur Spiller, Beverly, Mass.

**N**EARLY all people who keep fowls keep them for the money they can get out of them. With the farmer this is of the utmost importance, as the product from his stock and land furnishes the income. On many farms the care of the hens is given into the hands of some young member of the family, or to the good wife, and the hen part of the programme is of secondary consideration. This is not as it should be, as the poultry on a farm can be made to yield its full share of the revenue.

While it is best that some particular one should have the charge of the fowls for obvious reasons, the farmer should see that the same high quality of stock and suitable housing are provided with the same care as that given to the other stock. The day of mongrelism in fowls is fast passing away, the old time notion that different breeds must be crossed to produce the best results has been proved an error. The thoroughbred fowl of to-day is fast superseding the flocks of a multiplicity of colors and shapes heretofore seen on most of the farms throughout the country.

Those who desire and look for eggs as the principal part of income from a flock will perhaps be inclined to select some one of the breeds from the Mediterranean class, but they do not fill the bill for the farmer. Fowls on a farm must be good layers, good as broilers, good roasters, in fact, hardy, vigorous and good for all the purposes for which a fowl is used. White Leghorns and Hamburgs are good layers, but they are not a good market fowl.

The American class, Plymouth Rocks and Wyandottes, in their several varieties, are the best general purpose fowl that can be kept on a farm. Why? For this reason, that a Plymouth Rock or Wandotte is salable on the market at from ten weeks of age up to roasting size, and when the hens are two or three years of age and it is desired to sell them, there is a ready demand for them.

They are easily forced to flesh, and are the best of layers, especially when eggs are high in price. They hatch their eggs and rear their chicks in the best of manner. The number of eggs a hen will lay in a year has more to do with care and feed than in the breed. There are flocks of Wyandottes and Plymouth Rocks that lay a larger number of eggs in one year than the average flock of Leghorns. As to which variety of the two breeds mentioned is the better, the only preference that can be given is in the color of plumage, and in this way present a better looking carcass dressed.

A white or buff fowl presents a very clean and nice looking carcass when dressed. These colors are found in both breeds, so that a thoroughbred Plymouth Rock or Wyandotte is always ready for sale, at any age, and with the right care will lay as many eggs as any breed, and if properly fattened when placed on the market will bring the highest price.

If carefully bred for standard requirements the income can be increased by selling eggs for hatching, and stock for breeding purposes, which cannot be done with a mongrel flock, and the cost of feed is no more. It is true it costs a little more to purchase good breeding stock, but it is worth more and the profits are correspondingly greater. Every farmer should look into this matter and see if here is not a chance to increase the efficiency of his flock of fowls.

In this age of progress and fierce competition every branch of farm work and its products should be kept to the highest point of productiveness and profit. There can be cited instances where a farmer has found his poultry so much more profitable than other lines of farm work that time, room and attention have been given the fowls, and they have taken the place of the greater part of the other farm stock, because they were found to produce a larger income.

If your laying birds are on free range, it will be good judgment to give an early breakfast of meal and meat scraps. If a bin is at hand all the time filled with cracked corn and meat scraps the birds will satisfy their hunger before starting out for the day's run. Very few ranges furnish enough insects for a good meat supply, and this need should be met if you wish well grown birds for winter layers.

**ABOUT VIRGINIA.**

Editor Poultry Keeper.

In answer to the query about Virginia in your paper, by A. M. L., Rochester, N. Y., I live in the Claremont Colony. The temperature is about the same as Petersburg, the average temperature for last July was, 78; August, 75. The average temperature for last December was 41; January, 36; February, 34; these last are our winter months. This is a first-class place for raising poultry, and for all kinds of farming. There is good cheap soil, with facilities, climate and health unsurpassed.

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Martin Brown-

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"Brief Pointers" are all too often merely concentrated conjectures.

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# ARTIFICIAL INCUBATING

AND

# BROODING



[In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another.—Editor.]

## THE BROODER QUESTION.

**W**ITH all possible force let us attack the brooding problem—brooding by artificial means. The modern incubators do their work well,

and are successful, but the brooders are sadly lacking, and wherein they lack, there we fail. After five years' experience with brooders, two makes, one an indoor, the other an outdoor, I have come to some conclusions, and have come to them after traveling a rather rough road.

The indoor brooder which I have used is equipped with a good regulator. The temperature holds very even, but the fresh air supply is nothing.

It has none.

The way the machine was made the fresh (?) air was drawn in around the lamp, taking with it the fumes and gas. The foul air outlet was a one and a half inch hole in the other end of the machine. That's ventilation for you! At first I thought the machine was O. K. The chicks never piled up, never overheated, nor ever chilled. But I soon noticed that they did not thrive. I gave the matter careful attention and found it was lack of pure air that caused the chicks to look so dumpy. I found that by propping up the lid of the brooder and turning on the lamp flame I could give the chicks fresh air and still keep them warm. This worked nicely in settled weather, but in changeable weather the chicks had to be closely watched. There was danger of their chilling through the draft from the raised lid.

By care and watchfulness I have raised many fine chicks in this brooder. The cost in labor, however, has been too great. With the right kind of a machine one-half the work would have given better results.

The outdoor brooder is just the opposite—plenty of fresh air, but the heat is "crazy." On a summer day unless closely watched the temperature will vary 30 to 40 degrees. Of course, such variation is fatal. There is nothing to do but watch the machine. The same charge can be made against both brooders, they are not trustworthy. Time and muscle are too valuable to waste in needless work. What we need is a brooder wherein the fresh air supply is abundant, is fresh and is under control. Also a regulator to aid in controlling the heat. To secure best results the heat should not vary more than five degrees, although it may vary still more and the result be good.

My object in writing this is to aid those who are having trouble with their brooders; to suggest to them what the matter may be, also to call attention of the man-

ufacturers to the fact that we need something—and need it badly. Let us strive to strengthen this—one of the weakest spots in the work.

Pitch in, every body!

Ralph Bryson.

Iowa Falls, Iowa.

## METHOD OF HATCHING, BROODING AND FEEDING CHICKENS.

J. N. Craig, Rushville, Ill.

As I am a close reader of Poultry Keeper, and as I am interested in the articles by others on poultry raising, I thought perhaps some one might be interested in my method of thirty years' experience in a small way of raising poultry. I usually raise from two to three hundred chicks each year on a town lot, and as I am an itinerant Methodist preacher, and have to move often, my conveniences are poor. When I move I take some fine choice birds with me. I ship my poultry wire, so when I get to my new quarters I soon have for my biddies a nice little run in the back yard, and if there is no hen house, which is often the case, I use organ boxes for roosting coops.

I always have hatched with hens until this year. I am trying an incubator and am hatching some with hens, giving each a fair trial. When I set hens I make nest boxes fourteen by sixteen inches, perhaps five or six in a row, and make lath runs fifteen inches by four feet long so each hen is shut up by herself. I put feed, grit, water and dust for bath for them so each hen can come off and get feed, water and dust herself at will. I dust each hen with insect powder twice; once when I set her and again two or three days before hatching.

Brooding.

I usually put twenty-five to thirty chicks with a hen. I take a large dry goods box, take the bottom out and nail a cleat one by two inches on the bottom



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**Feeding for Eggs.**

**A Hen Catechism.**

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**QUINCY, ILL.**



to hold it together. I saw out a door six by seven inches in front, and make another opening twelve by six inches at the side of the door, over which I nail screen wire to keep out the rats. A piece of oil cloth is tacked at the top of this open space to let down in rainy or cold weather. This makes a good warm, airy coop for them until they are eight to twelve weeks old.

I make a run four by six feet for them. This run is fourteen inches high, made of twelve inch poultry netting, one inch mesh. This is covered with muslin or oil-cloth. Make a partition in the middle of run of lath, making each end of run three by four feet, the end next to coop for the hen so she can go in the coop or box at will, the other end of run three by four feet for feed box, grit and water. I never let the hen out of the run until she weans the chicks, but let the little chicks out in the yards. I sow rape, rye and clover for the chicks.

#### Feed for Chicks.

I feed dry feed the first two weeks, such as oatmeal, after that cracked corn and wheat. I feed only once a day. It is always before them; they won't eat too much where they can eat when they want to and can catch bugs. I keep beef scraps and grit before them all the time. I scarcely ever have a chick to die. I never have any trouble with bowel trouble. My chicks are happy and contented and grow very fast. I have large boned, healthy chicks. I have tried the different methods of feeding, and after thirty years' experience, I have settled down on dry feed.

I use gallon stone jars with a little hole drilled in the top three-fourths of an inch from the top and turned bottom up in a pan for drinking fount. I hatched some chicks in the incubator and have them in an outdoor brooder with a four by six feet run, such as described above. With this covered, the chicks have shade and can keep dry in a rain; and it also keeps the feed dry. The laying hens are kept separate—fifteen hens with one cock. The run is forty by forty feet, sown in grass, rape or rye.

#### Feeding.

I feed a mash at evenings made of chopped corn, bran and middlings. In winter I feed scalded and steamed clover mixed with the mash, using a quart cup of clover to fifteen hens and cock. I keep beef scraps where the hens can help themselves at any time, also grit and oyster shells, and fresh water. I feed my little chickens wheat, corn or oats scattered in the litter for them to scratch after. They lay all winter. We have all plenty of fresh eggs to eat and sell when eggs are high. We sell, besides, some at good prices for hatching and raise fine pullets and cockerels to sell, so our poultry pays us a nice little profit after paying all expenses. We have all the fresh eggs and nice fat chickens to eat that we want.

I am a lover of pure-bred poultry. I get not only profit but enjoyment with them. I get up of mornings and go feed "the biddies," then go to my study and read and write until noon. After dinner I see that the chicks are all right and then I make pastoral calls. At night I see that the chicks are fed and shut up for the night. I have the outdoor exer-

cise and breathe the fresh air. So it is a pleasure and recreation, besides a profit, to keep poultry. I think if more preachers would keep poultry and get out into the open air, there would be less broken down preachers in health. I take three good poultry papers—the Poultry Keeper, Reliable Poultry Journal and the American Poultry Journal. I should very much regret to give up these papers, as they are such a help. One gains a great deal of knowledge by reading them.

#### GOOD INCUBATOR HATCHING.

Results of Experience—Advice From One Who Is Using the Methods He Advocates.

Editor Poultry Keeper.

I read the letter in the May issue from the Idaho correspondent with interest and sympathy. As I have in times past been through the same experience and been obliged to find by careful experiment the remedy, I feel that I should write my conclusions and you can do as you see fit about using them, or parts of them.

Chicks dead in the shell are the bane of artificial incubation. There are two main classes of these: First, those which die prior to the fifteenth day; second, those which develop slowly and are still alive on the twenty-first day, but never hatch. These are the most aggravating. Germs which die during the first week are, if incubated under anywhere nearly normal conditions, weak in their inception.

From my experience with several makes of incubators, hot air and hot water, moisture and non-moisture, I believe that fully fifty per cent, and I think more than that, of these "dead in the shell" chicks can be successfully hatched. I have just received the catalogue of the

Reliable Incubator Co. In looking over the chapters on the development of the embryo, I find this statement, which is the key to the whole business. It is so aptly expressed that I will quote:

"In the part that follows it will become very evident that upon the degree of development of this structure (the allantois) depends the growth and development of the chick."

There is the key. Now to its use. Now, Mr. Martin, never mind the air cells. There is no operator of any machine that can tell anything definite or positive about the air cell, and it is a matter of no consequence whatever. Mr. Moss is right in that—if you have dried down the egg too much, you cannot put back the life you have taken out.

"Did you ever hear of anything dying from too much fresh air?" Yes, Mr. Johnson, too much air will kill chicks in the shell and it kills them, not by dying, but by smothering, or by burning. It is a principle of biology that an organ develops as the need for it grows. Take away the need, and the organ will fail to grow, at least properly. Watch the allantois membrane, not the air cell. Remember during the first few days there is almost no demand for ventilation, so cut it down as much as you have nerve for.

Shut your ventilators the first three or four days, it will do no harm. Under no circumstances put moisture into the machine. Dampen the air of the room if necessary, but it will rarely be found so. You must now make that allantois grow. By the eighth day it should about cover two-thirds of the egg. By the eleventh day you should be able to trace blood vessels clear around the egg. These blood vessels are clearly seen at the end of six days and should not be bright red. That means too much air, consequent rapid oxygenation of the blood and combustion of the germ.

If the blood vessels do not show up by

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the seventh day, it should be earlier, a little more air. This will only be necessary in very damp weather or a warm room, or both. If you have too rapid a circulation of air, you will have as a result, dead germs from over oxidation, small development of the allantois, consequently slowly developing chicks, which smother from insufficient lung capacity about the second week or first of third, but struggle along and are too weak to hatch.

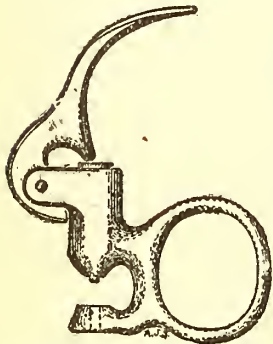
After the allantois has surrounded the shell open the ventilators half as wide again. After the fourteenth day, when the egg should be nearly opaque, open them wide. It is sometimes wise to close the ventilators on the nineteenth day nearly shut until the hatch is half over, when you should open them again. This you must determine for your own conditions.

My conclusions in this matter and others connected with incubation are the result of experience and upon their correctness I depend for my living. Hoping that my outlay in time, eggs and oil may suffice to prevent similar outlays on some one else's part, I remain,

Very truly,  
H. M. Wagner.

Humansville, Mo.

**P. K. Poultry Marker.**



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the

web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, postpaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

Persistent, judicious and constant culling is one of the most important matters to learn. When we cull out poor eggs, the hens that lay poor eggs, the weak chicks, the drones, the unprofitable or undesirable stock generally, we improve our flocks and are able to get better results from them by concentrating our work upon birds that are worthy.

Poultry fanciers in and about Pierce City, Mo., (about 50 in number) have organized the Pierce City and Monett Poultry Association. Thos. Carlin, secretary.

The Auburn (N. Y.) Fanciers' Association have selected the following dates for their next show: January 22-25, 1904. Fred L. Roe, secretary.

The Prairie Depot (O.) Poultry and P. K. Stock Association will hold their first annual show November 25-28. R. F. Basey, secretary.

**RECORD OF A "HOME" FLOCK.**

Philadelphia, Pa., June 1, 1903.  
Editor Poultry Keeper.

I started to keep poultry one year ago in an amateur way and give you my experience for the year. I started May 25th with twelve hens and one cock, White Wandottes. They cost \$13.45. I bought every now and then a fowl, turkey, duck, etc., for killing. Some of these I bought turned out pretty good layers so that with what I raised I kept about twenty-five hens on an average.

The total cost of stock, feed, bone mill, etc., was \$88.66. With this stock was produced the following:

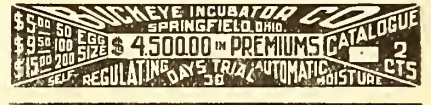
|                                                  |          |
|--------------------------------------------------|----------|
| 110 Dozen eggs, at 28c.....                      | \$ 30.80 |
| 126 Chickens, turkeys, etc., for table use ..... | 102.32   |
| On hand, 26 head, at 75c.....                    | 19.50    |
| On hand, 50 young chicks, at 15c.....            | 7.50     |
|                                                  | <hr/>    |
|                                                  | \$160.12 |
| Cash outlay.....                                 | 88.66    |

Actual profit.....\$ 71.46

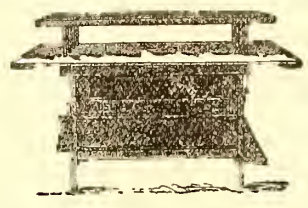
In this statement I take no account of labor or chicken house or scraps used from the kitchen. I found a pretty good chicken house and run on the place when I began. I don't know how this account compares with others who make a business of poultry. My gardener and cook looked after the hen house. I did not sell anything. I charged 75c each for all the chickens I used on the table. This is less than I could have bought the same for. The eggs I charged about market price for fresh eggs, averaging 28c per dozen. "Subscriber."

**Harding's New Poultry Supply Book.**

It is a fine book that George L. Harding, the poultry supply man of Binghamton, N. Y., has just taken off the press and is sending out to his long list of patrons. The front cover page is a beautiful poultry and farm scene in colors, with Uncle Sam, the Harding trade-mark, a prominent feature. Then follows a character for the proprietor by the Binghamton Trust Co., and the book closes with an enthusiastic recommendation by the mayor of the city, two things which are hardly necessary to any poultryman who has bought and used the Harding goods. The book, all the way through, smells of poultry from egg to egg again. It is gotten up in such attractive form, both as to subject matter and copious illustrations, that every fancier must be interested in it. There is something said of each of the many poultry preparations for which Mr. Harding is noted, and there is just a reasonable number of testimonials inserted—words of commendation which are to the point and come from those who know by experience how the Harding goods help a man along in the poultry business. It is a good book for poultry people to have and it doesn't cost anything. See ad on page 130. Mention P. K. when writing and address Geo. L. Harding, Binghamton, N. Y.



**WANT \$2?** Success with Poultry \$1.00  
Poultry Keeper - .50  
Reliable Poultry - .50  
Journal - .50  
**For \$1.25** Will send all three for **\$1.25**  
**HERE 'TIS!** ADDRESS  
Poultry Keeper Publishing Co., Quincy, Ill.



**Pittman's Model Poultry Apparatus**

Stands without an equal in the poultry house furniture. The apparatus that it pays to use; the one that is admired by all who see it. The one that every poultry raiser needs. Profits more than doubled. Agents wanted every where. Circular telling all about it free if you mention Poultry Keeper. Address,

C. PITTMAN, Dept. B, Santee, Nebraska.

**30 YEARS SELLING DIRECT**

We are the largest manufacturers of Vehicles and Harness in the world selling to consumers exclusively. **WE HAVE NO AGENTS** but ship anywhere for examination, guaranteeing safe delivery. You are out nothing if not satisfied. We make 195 styles of vehicles and 65 styles harness. Visitors are always welcome at our factory.

**Large Catalogue FREE.** Send for it.

No. 331—Surrey. Price \$68. As good as sells for \$40 more.

No. 544—Light Stanhope. Price \$58.50. As good as sells for \$35 more.

**ELKHART CARRIAGE & HARNESS MFG. CO., Elkhart, Ind.**

**The National Poultry Company**

Offers an opportunity for investing a large or small amount of money in a safe, conservatively managed and very profitable business. The demand for choice poultry and strictly fresh laid eggs is unlimited, at prices that return the producer a larger profit than can be had in any other legitimate business. We will pay our stockholders twenty per cent in dividends yearly; and in addition accumulate a large surplus fund. Send for a prospectus and secure some of our stock, now selling at fifty cents per share; the price will soon be advanced to \$1.00.

**National Poultry Co., 5 Beekman St., New York City.**



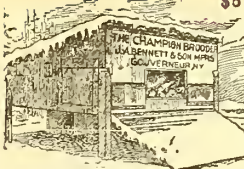
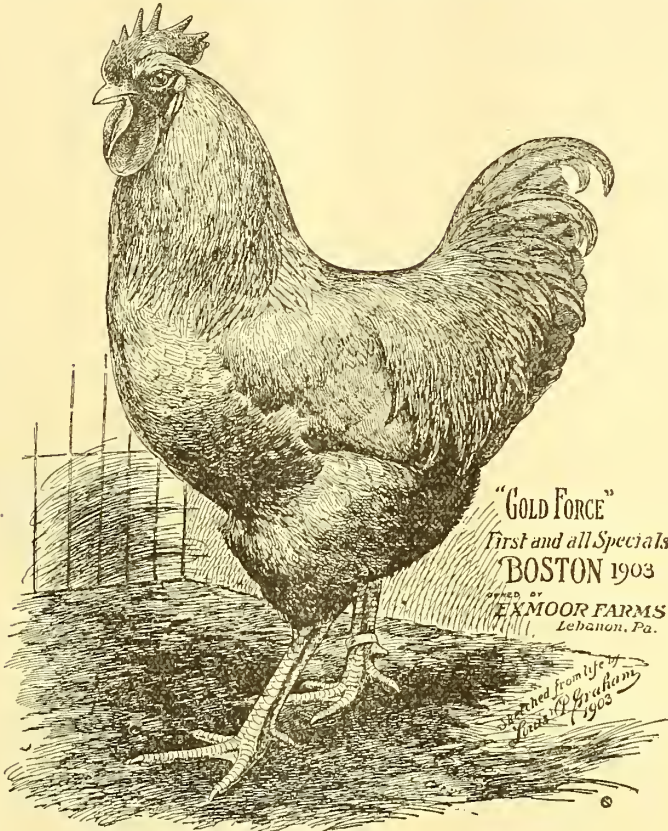
**GOOD WHITE PLYMOUTH ROCKS.**

Editor Poultry Keeper.

My best pen of White Rocks is headed by a 95½ point cockerel that did not have a single cut on color, and the best hen is a 96 pointer. Eggs from this pen are hatching well and proving very fertile. To-day by 9 a. m. I received orders for

**A Good German Poultry Paper.**  
Der Gelfuegel-Zuechter, established by Henry E. Voight, of Hamburg, Wis., and published by him during the past fifteen years, occupies the unique position of being the only poultry paper in the United States printed in German. It is an illustrated monthly, price 50 cents per year. We are glad to see Mr.

**\$5 CHAMPION BROODER.**  
If you are in the poultry business either for pleasure or profit, you wish the best. If you buy a Champion Brooder you are sure of having the best and one which is "known the world over by its works." We are the largest manufacturers in the world. Cat. free. J. A. BENNETT & SON, Gouverneur, N. Y.

Magnificent Specimen of Buff Plymouth Rock, Owned by the Exmoor Farms, Lebanon, Pa.

ten sittings of eggs. My four pens cover four acres of land sown to clover and rye, giving them almost unlimited range, yet confining them to the matings that were made for them. At present I have some three hundred young White Rocks in full feather. Out of a hatch of seventy-five I raised to full feather seventy, showing strong vitality back of them.

Pearl Lawson.

[Poultry Keeper readers who are interested in White Plymouth Rocks will find Mr. Lawson's stock to be O. K.—Editor.]

**Keep an Egg Record.**

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of ten cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Examine the chicks for head lice. A little grease will kill the lice; too much will kill the chicks.

"In time of peace prepare for war." In summer prepare for fall and winter. During the dull season prepare for business.

Voight's success, as he is an earnest worker and has done much to advance the interest in fine poultry among German speaking people. Poultry Keeper readers who are interested are requested to send for a free copy of this German poultry paper.

**BEAUTIFUL BUFF PLYMOUTH ROCKS.** Hens lay. Eggs hatch. 15 eggs \$2. Females \$2.50; males \$3.50; trios \$3. Poultry supplies. Poultry Printing that gives satisfaction. Catalogue free. Prompt and honorable treatment. **LEWIS E. TRESCOTT, Conesus, N. Y.**

**PARTRIDGE WYANDOTTES**  
HILERIAN STRAIN.

Winners wherever shown. Eggs, \$3 per 15; \$5 per 30. Some fine S. C. W. Leghorns, high quality. Leghorn eggs, \$1 and \$2 per 15. Stock both kind for sale all times. Catalogue free.

HILER BROS., Box 6, Prattsburg, N. Y.

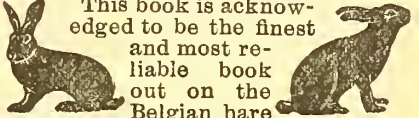
**S. C. White Leghorns.**

Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct., 1902, Charlotte, N. C., Jan. 1903. Yards now mated that will produce for you, show winners in any company. Write at once for circular describing matings and low prices for **EGGS FOR HATCHING.** Satisfaction our motto.

**WILBER BROS., Box E, Petros, Tennessee.**

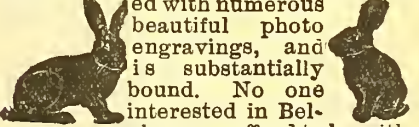
**The Belgian Hare Guide**

This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry.



It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Crating and Shipping, Castrating, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated

with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today. **PRICE, 25 CENTS.**



A year's subscription to Poultry Keeper (50c) and a copy of Belgian Hare Guide (25c) Address Poultry Keeper Publishing Company, Quincy, Illinois.

**GREAT REDUCTION**

It is not too late to set eggs from my famous **LEGHORNS** (Rose and Single Comb, Brown and White), **WHITE and BUFF WYANDOTTES, BARRED and BUFF P. ROCKS, SILVER SEBRIGHT BANTAMS.** Eggs, \$1 per 15 only; Bantams, \$2 for 13. **COLLIE PUPPIES.** 1903 breeding pens for sale now. Catalogue.

**W. W. KULP, Box 30, Pottstown, Pa.**

**...13 White Wyandottes in 110 Days Laid Over 880 Eggs...**

So says W. D. Williams of Allston, Mass., who Breeds the

**Exmoor Stay White Wyandottes.**

Our **PARTRIDGE ROCKS** laid: 16 birds, 121 days to date 1739 eggs. We breed birds to lay and pay. Eggs reasonable. Send stamp for 42-page illustrated guide. Please mention P. K.

**EXMOOR FARMS, Lebanon, Pa., The Home of Gold Force Buff Rock.**



**POOR HATCHES IN SUMMER.**

From April to June eggs will hatch better than will eggs laid after that time. This is due to the fact that the hens are not in as full vigor as in the spring, and because they are close on the molting period. The late-hatched chicks are not as strong and vigorous as those hatched earlier, but they will have the advantage of warmer weather. Lice, however, destroy more late chicks than disease, and unless chicks are protected against these pests it will be economical not to allow hens to hatch broods so late.

**The Standard of Perfection.**

The authorized guide to correct poultry breeding is the Standard of Perfection, issued by the American Poultry Association. Describes all standard breeds and varieties of thoroughbred chickens, turkeys, ducks and geese. Used by judges in show room and by breeders in mating up their stock. It is durably bound in cloth and consists of 225 pages. Price, \$1; or in combination with a subscription to Poultry Keeper, the two are furnished at the special price of \$1.25. Orders sent this office promptly filled. Address, Subscription Dept., Poultry Keeper Pub. Co., Quincy, Ill.

"Please say to your readers in June issue," writes Ralph Bryson, Iowa Falls, Iowa, "that I am closing out my Buff Rocks and will keep only Barred hereafter. I have some Buffs to sell cheap. No more eggs of either kind to sell."

**Wyandottes at Half Price.**

Ira C. Keller, Prospect, Ohio, who has the reputation of breeding as good Wyandottes (all varieties) as the country produces, puts on the market this month 500 of his this season's breeders (see ad on page 129). Mr. Keller writes, "We are offering the greatest bargains we ever advertised. In this great sale are many finer birds than we ever sold off the place. We have the number and we have the quality, and at the prices we make they are bound to go at quick sales. We have also cut prices of eggs."

There is no doubt about the value of stock Mr. Keller will sell,

The egg market is one that is never overstocked. There are thousands of dozens of eggs shipped to market, but no matter how many may arrive, there is a demand for those that are choice. It is not necessary to send eggs off to the large cities to get good prices, for in every town and village will be found a class of buyers who desire only strictly prime eggs, and they will pay something more than the regular price for them.

Fight lice at this opening of the warm months of the season. They multiply so rapidly that prevention is better than cure. Stop the trouble early and save much loss.

It will help everybody concerned if you will remember always when writing to our advertisers to say, "Saw your ad in Poultry Keeper."

Try the planting of rape for a late summer and fall green food. Sow before the end of June, in good soil, and care for as you would turnips. When the first leaves are large enough to feed, break them off and give toward night. The plant will continue to send out leaves from the center and the more you feed, the more you will have.

Give the chicks a dust bath. Vigorous stock will protect themselves from lice to a great extent if they are allowed a chance, but they have no means for fighting mites. Look out for the red mites.

Croley's Egg Record is a neat and handy little book with ruled, ready to use pages for keeping egg records. Send 10c in stamps for book to Poultry Keeper office.


In many cases diarrhea is due to a lack of grit. Grit is a part of the digestive apparatus of a fowl and must be supplied.

**\$1 PER SITTING** | **WHITE WYANDOTTES**  
**S. C. W. LEGHORNS**  
 Bred for eggs and broilers.  
**G. E. CHALFANT, Hammonton, N.J.**

**The Automatic SURE HATCH,** with a new regulator that really regulates—the greatest improvement in 19 years. Get one on 30 days free trial and decide for yourself. Large catalog and poultry book free.

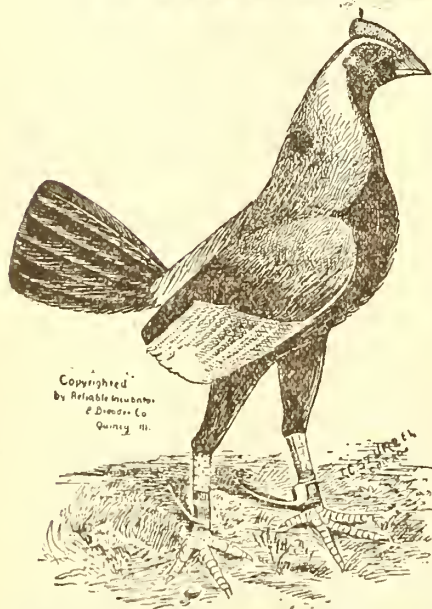
**SURE HATCH INC. CO.,**  
 Clay Center, Neb.,  
 or Columbus, Ohio.

**30 Days Free Trial.**



**The Best Known and Most Reliable Breeders Use**  
**...RELIABLE STOCK AND EGGS...**

**For New Blood and More Perfect Birds.**



Copyrighted by Reliable Incubator & Brooder Co Quincy Ill.

OUR STOCK AND VARIETIES are probably given more close and careful attention than on any other similar farm in America. Six men constantly employed to care for the different varieties with which they are most familiar. Any one of them would make a competent Poultry Judge in his varieties. Some have even acted in that capacity for entire shows. It's no wonder our birds are and produce prize winners. The biggest thoroughbred poultry plant in the world—136 yards—17 varieties. Every egg, every bird right from our own farm and pens.

**THE PRICES**

**For June—Cut in Two. For Birds—Scored by Judge Emry—High in the 90's.**

|                                            |                  |
|--------------------------------------------|------------------|
| 25 Barred Plymouth Rock Males.....         | \$2.00 to \$3.00 |
| 100 Barred Plymouth Rock Females.....      | 1.50 to 2.00     |
| 200 White Plymouth Rock Females.....       | 1.50 to 2.00     |
| 30 White Plymouth Rock Males.....          | 2.00 to 4.00     |
| 25 Silver Laced Wyandotte Males.....       | 2.00 to 4.00     |
| 75 Silver Laced Wyandotte Females.....     | 1.50 to 2.00     |
| 100 White Wyandotte Females.....           | 1.50 to 2.00     |
| 50 White Wyandotte Males.....              | 2.00 to 4.00     |
| 10 Buff Cochins Males.....                 | 3.00 to 5.00     |
| 10 Black Minorca Males.....                | 3.50 to 4.00     |
| 10 Single Comb Brown Leghorn Males.....    | 3.00 to 4.00     |
| 200 Single Comb Brown Leghorn Females..... | 1.50 to 2.00     |
| 200 Rose Comb Brown Leghorn Females.....   | 1.50 to 2.00     |
| 10 Rose Comb Brown Leghorn Males.....      | 3.00 to 4.00     |

All stock and eggs guaranteed to be true to name, come from high grade thoroughbreds and from the most carefully mated pens. Eggs—from any of our varieties—\$2 for 15; \$3.50 for 30; \$8 per 100—assorted if desired

**RELIABLE INCUBATOR AND BROODER CO.,** Owners Reliable Poultry Farm,  
 Quincy, Illinois, U. S. A.



**TWO GOOD HINTS.**

Some one asked where to place the thermometer in Champion Brooder. I make a slot in the cover, the size of the thermometer, near the back end; then make a frame the thickness and size of the thermometer and cover with wire window screen. Fasten the frame under the slot in the cover, fasten thermometer to string and drop into slot.

I make a water reservoir by drilling a small hole in a two gallon jug as far from the bottom of the jug as I wish the water to rise in the drinking pan. Calk the outlet when filling. With tight calk it will work perfectly until all the water is used.

J. E. Furber.

Stuyvesant, N. Y.

"Everything for Poultry and Live Stock," is the name of the new 16-page book issued by W. J. Gibson & Co., Union Stock Yards, Chicago, Ill., and which they wish every reader of Poultry Keeper to receive. Write for catalogue "G"—it's free.

A good laying strain can be built in any breed if the best layers of that breed are selected, and this should always be done. The Leghorns, Plymouth Rocks and Wyandottes are the leaders.

Have your chicken coops made so that the water will not run in on the floor. Let the back and sides run below the top of the bottom boards. Wet floors make sick chicks.

Those who are interested in the raising of poultry for profit should not fail to look up the ad of the Eureka Oil Cup Bracket and Perch Supporter, manufactured by Wm. M. Shrader, Bucyrus, O. (Page 133.) When we consider that the fowls spend a good part of their lives on their roosts, and an ounce of prevention is worth pounds of cure, the advantage of having a good, substantial, neat and clean perch should not be overlooked, especially when that advantage alone covers so large a field and can be had for a nominal price. Space will not permit us to describe in detail the many benefits to rived from the continued use of this combination bracket. Suffice to say that this system does the work. The conditions in your yards may be perfect; by omitting this one adjunct you may have a drawback and never know the cause.

For the rest of the season L. Gillon, Hale's corners, Wis., will sell at \$1 per sitting eggs from his standard-bred Black Cochins, Black Langshans and White Rocks. White Holland turkey eggs also reduced. Some bargains in stock are offered. Write to Mr. Gillon.

Charcoal is valuable in the poultry yard, broken in small pieces and placed where the fowls can have ready access to it, or pulverized and mixed with soft food.

Get rid of surplus cockerels as early as possible. Prices on the market are good now and you need room for pullets.

Fresh filling for nest boxes every month is none too often. Burn all old hay or straw, getting rid of many lice and red mites. Do not leave old filling material for chicks to scratch in, as they may get infested with lice and red mites. This applies to loose hay and scratching waste from the hen houses as well as to the filling of nest and setting boxes.

Will you please tell your friends who are interested in poultry about Poultry Keeper, or better still, send us their names and addresses and let us send sample copies. Poultry Keeper claims to be the most practical and helpful paper published for those who are interested in making poultry pay.

At this season of the year, when the sun is overhead and its rays are intense, cool drinking water should be given often. So far as possible have the water dish in the shade and empty the dish before refilling. Stagnant water is not healthful, if indeed it is not a disease breeder.

Lice, dampness and overfeeding are responsible for the great mortality in young stock.

The aim of Poultry Keeper has always been to be THE practical poultry paper of the country.

Separate the cockerels from the pullets and give all the chicks that are to be retained all the room that is practicable night and day. Keep them cool.

# White.:Plymouth.:Rocks

are now justly conceded to be the **Best General Purpose Fowl** in existence. As **Egg Producers They Excel Everything**. As a **Table Fowl There is No Breed Their Equal**. As a **Fancier's Pet None so Beautiful**. Then, dear, reader, why ponder over what breed to buy or where to buy it when . . . . .

## =U. R. FISHEL'S=

36-page CATALOG tells you all about his famous White Plymouth Rocks. This Catalogue is free and all we ask is a 2 cent stamp to pay the postage. Information worth hundreds of dollars to any White Rock Breeder contained within its leaves. I have now over five thousand chicks and need room for them, therefore am offering at . . . . .

## ==SPECIAL SALE==

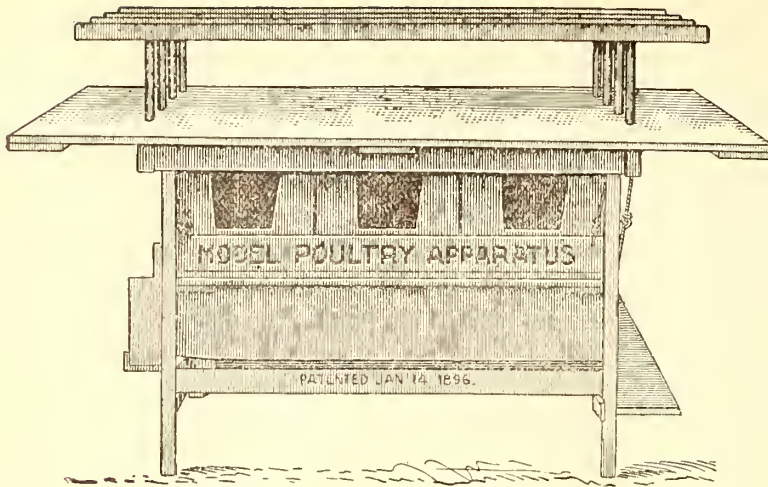
The grandest lot of White Rocks (fowls, no chicks for sale until after Sept. 1) ever sold by any breeder. Choice breeding Pens, Trios, Pairs and Single Birds. Egg Producers in lots of 25, 50 or 100. These birds must be sold, therefore if you are contemplating buying poultry within the next year it will surely pay you to get my prices. You know the quality of the FISHEL White Rocks is unexcelled and my prices are as low as quality is high. Do not delay but write me your wants and I assure you I can please you. Remember the Fishel's White Rocks are . . . . .

**THE BEST IN THE WORLD**

**U. R. FISHEL, BOX K, HOPE, IND.**







**PITTMAN'S MODEL POULTRY APPARATUS.**

The cut herewith presented shows Pittman's "Model Poultry Apparatus," invented by C. Pittman, Santee, Neb., which is described in his circular as follows: This apparatus is a novel combination of roosts, platforms, nests, troughs, drinking vessels, etc., arranged in the most practical and scientific manner possible. The inventor is a practical poultryman of many years' experience

and has spent years in perfecting this apparatus. So well has he succeeded that a more perfect equipment in the way of poultry house furniture would hardly be possible. It combines every feature that could be desired in such an apparatus. The apparatus consists of several different parts, all of which are detachable and fit together perfectly without being nailed or laboriously fastened. The only parts that are fastened together are the different parts of the frame. Four bolts and eight screws hold these firmly in place,

and they can be taken apart or put together in two or three minutes. The whole apparatus can be taken apart or put together in from five to ten minutes, which is often desirable for shipping or when you wish to move the apparatus to to some other place.

For further particulars send to Mr. Pittman for his circulars and special 30 days' offer to P. K. readers.

The strongest team of practical poultry papers is Farm Poultry, the great semi-monthly of the east, price \$1, and the Poultry Keeper, price 50 cents. Both papers may be had in a club for \$1.10. Address orders to Poultry Keeper Pub. Co., Quincy, Ill. Offer good on renewals as well as new subscriptions.

Now is the same of year when the birds need all the pure air you can arrange for. Wire fronts to chicken coops, wire over all window and door openings in the buildings for adult birds. Give shade at mid-day, if there are no trees in the runs, which is possible by fixing boards to cast a shadow.

Young ducks should be marketed when they weigh about three pounds each, and may be sold either alive or dressed, the best prices being obtained for the dressed carcasses. The best time for selling young ducks is in June and July. They should be plump and fat.

# Let Us Do Your Printing

Our work is strictly first class, neat, attractive and Up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed will bring orders, where poor printed matter spoils all.

## Good Printing is one of the Secrets of Success in the Business.

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, *without extra charge*. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. *Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.* Terms, cash with order.

Size of cards, note heads, envelopes, etc., are given in inches. Prices for ruled note heads and letter heads quoted on two weights of high grade commercial paper. Either will give satisfaction. Prices of printing.

| BUSINESS CARDS.                 |        | ENVELOPES.         |        | LETTER HEADS.        |              |
|---------------------------------|--------|--------------------|--------|----------------------|--------------|
| 250, Size 2½x4½, Square.....    | \$1.25 | 250, No. 6½.....   | \$1.25 | 10-lb. Paper:        | 12-lb. Paper |
| 500, " 2½x4½, " .....           | 1.75   | 500, " 6½.....     | 1.75   | 250, Size 8½x11..... | \$1.90       |
| 1000, " 2½x4½, " .....          | 2.75   | 1000, " 6½.....    | 2.75   | 500, " 8½x11.....    | \$2.00       |
| 250, " 2½x4½, Round Corner..... | 1.50   | 250, " 9.....      | 2.00   | 1000, " 8½x11.....   | 2.75         |
| 500, " 2½x4½, " .....           | 2.00   | 500, " 9.....      | 3.50   |                      | 4.25         |
| 1000, " 2½x4½, " .....          | 3.25   | 1000, " 9.....     | 5.00   |                      |              |
| SHIPPING TAGS.                  |        | BILL HEADS.        |        | NOTE HEADS.          |              |
| 250, No. 4.....                 | \$1.00 | 250, Size 6x9..... | \$1.60 | 6-lb. Paper:         | 7-lb. Paper  |
| 500, " 4.....                   | 1.25   | 500, " 6x9.....    | 2.00   | 250, Size 6x9.....   | \$1.50       |
| 1000, " 4.....                  | 1.75   | 1000, " 6x9.....   | 2.80   | 500, " 6x9.....      | 1.85         |
|                                 |        |                    |        | 1000, " 6x9.....     | 2.60         |
|                                 |        |                    |        |                      | 2.80         |

**HALF TONES.** If you want half tone made of a choice bird or pen, or portrait of yourself or any other subject, we can supply the best grade of work at 20c. per sq. inch; minimum, \$1.65. We have full office force and people are paid to answer questions and help you to get just what you want.

Let us supply you with up-to-date printing—the kind that brings business. We know we can please you. Order direct from this ad or write,

**POULTRY KEEPER PUBLISHING CO.,**  
**JOB PRINTING DEPARTMENT.** **QUINCY, ILLINOIS.**



**STARTING EGG LAYING STRAIN OF SUPERIOR MERIT.**

(Continued from Page 111.)

square feet of house room is none too much for working space for one of our business birds.

These birds need a clean house and clean air to breathe. I am sure that pure air is just as important as clean water to help a good egg record. The birds need plenty of good food of all kinds. It will not do to feed lots of corn and little wheat. Neither will it give the best results to give a large ration of grains and very little meat or cut bone. Then in addition to grain and meat, green food is required at all seasons of the year. Winter eggs can be had in large numbers only when the birds have access to green food of some kind. Our large record birds all have a history of being active. If they do not find exercise themselves it must be forced on them. Litter of some sort to feed part of the fine grain in will make work for the birds in the cold months of the year. Free range in the warm months will give all the exercise needed for best results.

Is it necessary to say that flocks that have to endure red mites or lice seldom are heard from in egg tests? Bear this in mind, as it may explain some queer figures that have appeared in poultry articles of late.

To make the most of this work you need a good trap-nest. Then you will get the record of each bird, every chick you hatch will have its sire and dam, and you can cull out the poor and retain the good birds as they prove their work to be unsatisfactory or excellent. Be careful in introducing fresh blood. Better do this through some female of the strain you are handling rather than buy a male bird. If your part of the country likes a brown egg, work that in also as you move along. Try to get eggs of a uniform size and color, as well as large.

When you get really started, do most of your hatching from two-year-old hens rather than from pullets that may or may not be fully matured. Test each pullet by hatching a few of her eggs so that you may judge a little of the breeding qualities of each bird. However, do the bulk of the hatching from well tested two and three-year-old hens. These birds lay a large egg that produces a large chick. Two-year-old hens are so moderate in their winter work that they are in fine breeding condition during March and April.

The chicks should be hatched between March twentieth and May first, so as to begin laying before the steady cold of the year sets in. Our record breaking chicks must be kept growing from the start. At no time in their life should they be neglected in care or stinted in quality and quantity of food. Attention to the growing chick is well repaid when they come to adult age. Better not raise your chicks in space so small as to be bare of grass. Yarded chicks do all right, provided the yard is so large as to be well grassed. Good egg laying pullets are only to be raised with plenty of green food, and this is best provided when the bird can pick its own, when it pleases. These chicks should go into winter quarters when within a pound of standard weight and fed for eggs and growth. In this

house and yard they will probably pass the year of testing.

Every bird that comes up near to the record that we have in mind should be retained for breeding so long as she keeps in good health. If the chicks of one of these birds prove to be poor layers, then that special bird had better be marketed, but as a general rule keep all extra good birds till they pass the time of profitable breeders. Above all, use male birds that have superior laying mothers behind them. In no way can failure be more certain than to be careless in this matter. That one male bird of great laying pedigree will do much to fix the laying habit of a multitude of chicks.

Pay attention, then, to the bird that heads your pen of birds that you are depending upon to give you satisfactory results along practical egg lines. I should not be afraid to breed such a bird to his own daughters, provided they all were of high standard of healthy vigor. Also, it is good practice to breed the cockerel of your best hen back to the dam. So long as your birds retain their strong vigor do not let any bugbear of inbreeding keep you awake nights. Leave that to your neighbor, who never "gets there."

In working up a strain of high record, egg laying birds, start with a breed that has already got a reputation of doing good work, and put that special variety at the head. That the future will demand better laying birds I am sure, and who will be ready to supply that demand? Will you? There will be money in it, and satisfaction, too!

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**BROODING CHICKS ARTIFICIALLY.**

The artificial brooding of chicks successfully is not an easy task, as the school of experience soon shows. We must strive to imitate nature in every way possible. With the hen as a mother the chicks have a chance to go back and forth from downy warmth to cooler air, and the hardening process begins with the life of the chick. Contrast this with the method of confining seventy-five to one hundred chicks within the walls of a brooder for days, and even weeks, without so much as a breath of outside air, or a bit of direct sunlight. No wonder they soon become pale and sickly, like so many hot-house plants.

My chicks are let out on the ground when they are two days old, if the weather is favorable. During cloudy or rainy days, when forced to keep them in, the covers of the feed rooms are raised, letting in the cool air. The hardening process must be gradual, and proportionate to the age of the chick.

In regard to feed, I have discarded all mashes and sloppy food. My chicks are raised on Cyphers Chick Feed for the first week, followed by wheat screenings, and later by corn and beef scrap. A little different routine must be observed with those that are to be kept for breeding stock. By the time they are three weeks old I am able to pick my breeders with pretty certain results, and they are isolated and fed more wheat and less corn than those intended for broilers and capons. Vegetable food is an article of diet that should not be omitted. Raw potatoes sliced, and nailed to boards or the sides of the runs furnish the best kind of vegetable food, and an abundance of exercise to the chicks in getting it. They will begin to pick at them when not over five days old, and they never tire of this food. There is an acid in the juice of the potato which seems to be a kind of tonic for the chicks and is not found in any other vegetables.

When bowel trouble appears, a little weak tea in their drinking fountains usually corrects it. Watchfulness at all times is the only safeguard in raising chicks artificially. There is no hobby so absorbing, no business so pleasant, and, if rightly administered, none more profitable for money invested than raising thoroughbred poultry. I breed Barred, White and Buff Plymouth Rocks, as I believe them to be the best general purpose fowl in existence, the farmers' wives' favorite and the fanciers' pride.

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The indications are that there will be more profit in poultry from now on than heretofore. If you will "lay for it" the good hen will.

**BUILDING UP AN EGG FLOCK.**

(Continued from Page 104.)

in the reading and advertising columns of P. K.

The growing pullets should never be crowded day or night. Early laying should not be sought by early stimulation of the reproductive organs. Extremely early laying is not what it is sometimes cracked up to be. It checks development of the body and vital organs, the perfect development of which is so much to be desired when we want good layers that will be good breeders. In the next paper I will advise regarding some matters that are all too commonly neglected.

(Continued in July.)

**Caponizing Instruments.**

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hatches a larger percentage of healthy chicks because of the pure air admitted into the egg chamber. The thermostat controls the ventilator and removes the foul air from the egg chamber, instead of simply regulating the lamp. You should investigate this. Lewis Bros., Reading, Pa., say: "The chicks from your machines come out much stronger and healthier. Your ventilated egg chamber shows what causes the great loss of good eggs in other incubators."

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# QUESTIONS & ANSWERS

[In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

## PRESERVING EGGS—THE COCK—MOISTURE ON EGGS.

1—Will you kindly tell me through the columns of your next paper the best way to preserve late summer eggs for winter's use, and how long will they keep without spoiling?

2—In mating a pen of chickens for breeding purposes, is it best to have the hens and cock of the same breed, or should they be no relation whatever?

3—Will stock run down by using one's own cocks, or does it make any difference?

4—What causes moisture to gather on some of the eggs while cooling. I use a Successful Hot Air Incubator.  
A. D. A., Wadena, Minn.

1—Place the eggs in a stone jar or wooden keg and cover them with a five per cent solution of water-glass. They will keep six or eight months.

2—The cock should be of the same breed, but unless you are line breeding, he should not be related to the females.

3—Not if you follow a systematic method of line breeding, but promiscuous in-breeding will ruin the flock.

4—The surrounding air being cooler than the egg cannot take up the moisture, so it gathers on the shell.

## CHOLERA—BROODER CHICKS.

I suppose my Barred Plymouth Rock hens have cholera. I have lost a hen about every week or ten days. They are not sick but a few hours. Some die when real fat, but passages look like the yellow of an egg, some times a grass green. For the last three weeks I have sprayed the droppings with a strong solution of carbolic acid. I clean hen house and spray again and give the hens a cholera remedy composed of capsicum, asafoetida, rhubarb, carbonate of iron, Spanish brown, and flower of sulphur. I gave

this about two weeks every day. I thought they had enough for a while and left it off, but kept on spraying, but they have begun dying again and more than before. Now when I find one sick I kill it right away.

Are brooders considered by the majority of people to be as successful in raising chicks as an old hen? I didn't expect much this year when my hens were sick, but I have always lost from 40 to 50 per cent of chicks hatched in my incubators. It made no difference what I fed, it was always the same. I get good hatches, but can't raise them. I keep them in a pen 50x15 feet, but they never quit dying till they get big enough to turn out and be put on free range of the yard. I see in your last issue that board floors are not good for little chicks. My hen house has a board floor. I also keep papers in brooder and remove every morning. I have always kept sand in pens for the chicks and feed mostly rolled oats at first. I have chick feed for my next hatch. Please answer in your next issue.

Please give remedy for cholera. I am very much pleased with your paper; there is much good information in it.  
Mrs. A. N. W., El Dorado, Kan.

1—The diseased fowls should be removed from the flock and if you desire to treat them, give one pill every five hours of the following: Blue mass, 60 grains; pulverized camphor, 25 grains; cayenne pepper, 30 grains; pulverized rhubarb, 48 grains; laudanum, 60 grains. Mix and divide into 20 pills. After the pills have had time to act give half a teaspoonful of castor oil and ten drops of laudanum to each bird. Give as a drink scalded sour milk, adding Douglas mixture at the rate of a tablespoonful to the pint. Fowls that have not come down with the disease should be given Douglas mixture in their drinking water at the rate of a teaspoonful to the pint. Take equal

parts of cayenne pepper, alum, resin and sulphur, thoroughly mixed and give a teaspoonful to three pints of scalded meal daily. This will ward off the disease. To disinfect the building flush the floor with a saturated solution of coperas and spray the interior with a five per cent solution of carbolic acid, followed by whitewashing. The bodies of the dead fowls should be burned, as should also the droppings from the sick birds, or disinfected with a quantity of lime equal in amount to the manure. If you are very thorough in this work we do not think it will spread to the little chicks. Make the house as dry as possible. Leave doors and windows open during the warm part of the day and if this does not dry it, build a fire in an old kettle placed in the house.

2—No, the brooder is not considered as successful as the hen by the majority of people, but there are those who are more successful with brooders than with hens. Perhaps your large death rate is due to keeping the chicks in too large flocks. How many do you keep in a flock? Try twenty-five in a pen.

## DISEASE OF THE EYE.

Last year I secured hatching eggs and had good luck as far as the hatching was concerned, but noticed the eyes of the chicks were affected. They closed more and more until they were entirely blind. Otherwise they seemed entirely hearty. After their eyes begin to shut they seem to be drowsy and sleepy. The eyes are somewhat swollen when in the last stage. The chicks cannot find their food and therefore finally die. This is a new disease in our neighborhood and no one knows a cure for it. We generally greased their eyes with pure lard, but in only a few cases does it benefit.

After the chicks are hatched we leave them with the hen in the nest for at least twenty-four hours, after which we remove to good coops. The feed for the first seven to ten days is nothing but Cassell's Chick Manna. Our old stock or breeding stock is healthy and we are at a loss as to what it is. The same disease is coming forth this year again. What seems peculiar to us is that sometimes we hatched a brood and noticed nothing, while perhaps the next lot had it severe. We had a lot of 39, out of which we only have 18 left. All but a few died from this disease. Please answer in the June issue

## HERE'S PROOF OF SUCCESS

ENTHUSIASTIC PRAISE FROM  
PUPILS OF THE . . .

# Columbia School of Poultry Culture.

New London, Conn., March 23, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I have received all mail sent by you and wish to thank you most cordially for your interest in my undertaking. Your lectures are so clear, so full of that detail so necessary for the success of a beginner, that in my estimation they ought to be fascinating reading even to those who have never given a thought to poultry culture.  
Yours very truly,  
A. L. RUDD.

Chicago, Ill., March 25, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am pleased to say that the instruction received from your school is all you claim and all questions have been answered promptly and to the point.  
Very truly yours,  
JOHN VAN VALKENBURG.

Columbus, Ohio, March 19, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I am more than pleased with the lectures and highly prize them. The lecture No. 12 on Incubation is beyond anything I have ever read and I think I have read most every treatise written that has been published that I could lay my hands on.  
Yours truly,  
A. M. WARSCHAUER.

Chicago, Ill., April 4, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am finding your course of lectures most interesting, practical, and logically arranged. I think I may be able to direct other pupils to you before long.  
Very truly,  
(Signed) ALICE A. DEERING.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers are taught to breed their own winners by thorough instruction in the principles of mating and line breeding, while those who keep poultry as pets are shown how to obtain the most satisfactory results.

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Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.

## THE COLUMBIA SCHOOL OF POULTRY CULTURE, BOX 102, WATERVILLE, N. Y.

SPECIAL NOTE.—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.



what it is and give a treatment if possible. M. D. M. B., Richland Sta., Pa.

Some incubator chicks we purchased this season were affected similar to the manner you describe, and we discovered that the inflammation was caused by parasites. Cleanse the eyelids with warm water to which boracic acid has been added in the proportion of 15 grains to the ounce. Cloudiness of the front of the eye—the cornea—may be treated by dusting a small quantity of calomel over the surface and repeating the application once daily as long as necessary. In the first stages of mild cases a strong solution of common salt is good.

#### MINERAL WATER IN THE POULTRY YARDS.

Please write an article on the use of artesian mineral water in the poultry yards. The mineral ingredients are usually practically the same in all the wells so far as I am able to ascertain. The same will very much oblige your subscriber and friend.

H. A. K., Vinita, Ind. Ty.

We know of no especial uses for mineral water in the poultry yard. If the water is good for man it is good for fowls, but usually the purer the water the better it is. Mineral waters vary greatly, some have iron, magnesia and sulphur in them, while others do not. If mineral water is convenient it is well to give it to the fowls, but we would not advise any one to go to extra trouble to secure it in the hope of gaining more eggs or increasing the health of the flock.

#### A STEAM INCUBATOR.

Can chickens be hatched successfully by steam? If so, how large a boiler or heater would be needed to heat a building 50 feet long, 16 feet wide and 7 feet high to 65 degrees, and two incubators to 103 degrees and a brooder 20 feet long with five apartments? The building has double walls, with sawdust between walls.

O. C. G., Northport, Mich.

An incubator can be made to be oper-

ated by steam. It should have a hot air chamber above or below the egg chamber, and in this hot air chamber the air should be brought to the right temperature before passing into the egg chamber, otherwise there would be no means of regulating the machine, as it would be impossible to control the heat of the pipe. A three or five horse boiler would answer your purpose. The larger the boiler the more economically it could be run, up to a certain limit.

#### SLOBBERS IN HARES.

Will you please state in your next issue what I can do to keep my rabbits from dying off just after they are weaned. Some say it is slobbers, caused by eating green food. A yellowish fluid comes from the mouth and they die in a short time. Have used salt in drinking water, also sweet spirits nitre and juniper oil, and fed only dry alfalfa hay, but they die just the same. Pens are kept clean and white washed.

S. S. M., Grand Junction, Colo.

Your rabbits have the slobbers. The prepared remedies for this disease are generally efficacious.

#### QUARTERS FOR TEN HENS.

Is a house six by ten feet large enough to accommodate ten W. P. Rock hens and male bird, with roosts and dropping boards so arranged that nests can set under dropping boards, nests, roosts and dropping boards can all be taken out, white washed and cleaned and put back in? Roosts and dropping boards are 2½ feet wide, 6 feet long, all the rest of the floor space used as scratching room, with ground floors. Do you think yards made double 6 by 25 feet (each yard) are large enough for same number of birds, by keeping one yard spaded up and sown to oats, wheat or millet, so they will be supplied with green food and give them plenty of sand, oyster shells and charcoal and cut bones, besides other feed? Do you think this plan could be made profitable? W. C. H., Colo., Iowa.

Yes, but it will make quite small quarters, so we should raise both dropping board and nests and have the whole floor space for a scratching shed. The plan of the two yards is excellent. When

there is no green food in the runs cover them with straw and when foul spade it under with the droppings.

#### A LICE POWDER.

I wish you would kindly answer these two questions in the June issue of your valuable paper:

1—A recipe for a lice powder that will kill vermin on chicks and hens. I have compounded the liquid lice killer that you gave on page 459 of the March number.

2—Can poultry be kept clean enough so that one will not be troubled with lice?

H. E. L. P., Mt. Vernon, N. Y.

1—Persian insect powder, two parts, mixed with three parts wheat middlings, will make a powder that will stick to the skin and feathers and kill all the lice.

2—Yes, if from the start you keep fighting them, but they will appear on the slightest neglect.

#### SOME QUESTIONS ABOUT MATINGS.

1—Are White Wyandottes nine months of age old enough from which to breed?

2—Can as fine specimens of Golden Wyandottes be produced by "single mating" as by "double mating"?

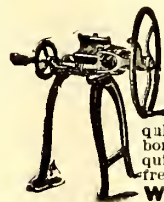
3—At what temperature do the combs of S. C. Leghorns and Minorcas freeze?

4—Would a house boxed up with boards one inch thick, and papered outside with three-ply felt roofing keep them from freezing?

5—Would pullets mated to cocks and hens to cockerels produce better results than pens mated where both sex are of the same age? E. A. H. Defiance, Mo.

1—Yes.

2—The advocates of single mating claim so; while the believers in double mating claim not. As near as we can



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#### POCKET MONEY HENS ....

I shall sell eggs, after June 15th, from all my Buff Wyandottes, for \$1 per sitting. This includes Eggs from my \$5 matings.

I am also ready to sell part of my 1903 breeders at low prices for the quality of record **BUFF WYANDOTTES** I have. Yearling hens from \$2 to \$4; Cocks from \$4 to \$10. Tell me what you need. Boston and New York winning stock bred to great egg work.

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23 Barclay Street.





learn, the greatest number of prize winners at the big shows last season were bred by double mating.

3—It depends on the condition of the air. In a cold wind they will freeze quite easily; but when the air is still they will stand considerable cold. Our Leghorns were kept in a house with half of the front open, and although the temperature fell to 12 below zero outside, we did not have a frozen comb.

5—Pullets to cocks and hens to cockerels is the generally preferred method of mating, but we have had equally as good results where both male and females were of the same age—both well matured.

**RESTAURANT SCRAPS—PEKIN DUCKS.**

1—How is restaurant swill as a substitute for grain feed? This restaurant consists of all manner of cooked food from the table and kitchen. There are all kinds of meats, vegetables, broken dishes and almost everything, with a sprinkling of coffee grounds.

2—What do you think of stale bread as a feed or a substitute for grain?

3—What is your opinion of Pekin ducks? Mine are fine ducks. Will be two years old this June, but do not lay as many eggs as last spring. Some people tell me to pick out my breeders every spring; others tell me that two-year-old ducks are better than spring ducks.

E. E. B., Chicago.

1—If there are no liquids thrown into the restaurant scraps they make a fine food.

2—Bread is not nutritious enough to entirely take the place of grain.

3—The Pekin is the best market duck. Some duck men prefer to breed from two-year-old ducks, others from yearlings. We should think the old ducks the best.

**RAPE—LICE—SAND FLOOR—HEAT LAYING HOUSE.**

1—When is the right time to sow rape seed? Is it only good for poultry as a forage, or can it be fed in winter? If so, how do you feed it to laying hens?

2—Do you think tobacco water good to kill lice on chickens? Will it hurt small chicks, say one month old?

3—Do you think sand a good floor for a poultry house?

4—Would you advise heating a laying house in winter if a large egg yield is wanted?

H. A. H., St. Clair, Mo.

1—Rape is sown from May to the latter part of August. In the latitude of New York July and August are the best time to sow. It thrives best in cool weather and in the southern states should not be sown until September. It is used mainly as a forage crop, but can be cut and chopped up for fowls the same as clover. It should be fed the same day it is cut.

2—Yes, for mature fowls and chicks over three months old. Make a strong solution by boiling for about two hours, then when blood warm immerse the fowl all but the head and thoroughly wet every feather. It will take five minutes to wet a large hen. After wetting grease

the fowl's head and it will be free from lice for a time at least, and there will be no injury to the plumage. It should be done on a hot day.

3—Sand is good to cover the floor, but there should be a hard bottom under it.

4—No, we should heat the hens by making them exercise and supplying them with plenty of wholesome food. We know of several plants where the laying houses are slightly warmed, but it is hardly practicable on a small scale. The only real advantage is that it insures dryness.

**THE BREED FOR BROILERS.**

I intend to go into broiler raising. Will you please tell me through the Poultry Keeper which breed of chickens you think are most profitable for early broilers?

H. T. L., Spearfish, S. D.

White Wyandottes are the general favorites of the broiler men. Plymouth Rocks are also good.

**LEG WEAKNESS.**

I have a Barred Rock pullet suffering from leg weakness. She was hatched last July. She grew very fast from the start and now weighs about two pounds more than any other pullet hatched at same time. My house is built on the scratching shed plan, has good ventilation, dry and free from draughts. About four

weeks ago I noticed she was lame in one leg and the next day she was down on her hocks and is still in that condition. She looks bright and has a good appetite.

G. W. B., No. Baltimore, O.

A pill of the following given three times a day will give good results: Sulphate of iron, 1 grain; strychnine, 1-16 grain; phosphate of lime, 5 grains; sulphate of quinine, 1/2 grain. Avoid fattening foods and with the above remedy a cure is almost certain.

**PEACOCK FEATHERS.**

When do peacocks shed their tail feathers? To save them, should you pluck them or wait until they shed naturally?

T. W. L. Switchback, W. Va.

Late in summer or early in the fall. We would not pull them until they begin to come out. Then they are ripe.

**TO INDUCE BROODINESS.**

Is there any way to make hens sit?

G. H. K., Ramsey, Ill.

You can induce broodiness by feeding plentifully of a fattening and heating food.

**ABOUT WHITE WYANDOTTES.**

1—I have a fine White Wyandotte hen which lays an egg that is long in shape and flat along both sides and always has

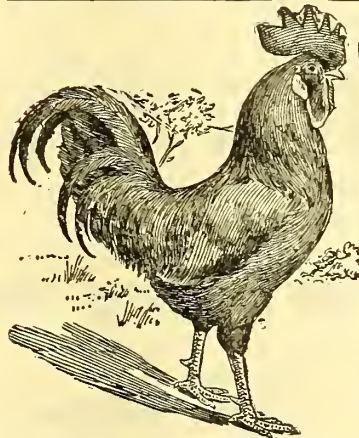
**White Wyandottes THAT DID DO CAN WILL Win**

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a weak spot on the side of the shell so thin that it can be broken with just a little pressing on it with a finger. Please give me a cause for this and a remedy. My fowl is not very fat, just in good condition.

2—Are light yellow feathers on back and wings of a White Wyandotte rooster a sign that he is not a thoroughbred?

3—Are newly hatched White Wyandotte chicks yellow or white in color, that is, to be full-bloods?

4—Is it necessary for the hen to come off the nest every day while hatching to secure a good hatch?

W. W. S., Welty, Pa.

1—It is probably due to a malformation or diseased condition of the oviduct. We know of no remedy.

2—No, but they are undesirable.

3—The chicks usually have a yellowish down.

4—No, but it is better to have her do so after the second day.

#### CAPONS.

1—Please answer the following questions: How long does it take Plymouth Rock capons to mature, or till they are ready for market? What is the average price and what is the best time to market them?

2—What is considered the best breed for capons? N. P. H., Wonsaven, Kan.

1—Early hatched Plymouth Rocks should be ready to market the following March. Capons sell well from February to June, the price being from 14 to 20 cents per pound.

2—For heavy capons Partridge Cochins and Light Brahmas; Plymouth Rocks for light.

#### A TIN ROOF.

1—Are there any objections to a tin roof on a poultry house?

2—Does a cock have to "spot" every egg to make them fertile?

W. N. M., Danville, Ill.

1—The only objection to a tin or any metal roof is that it makes the house extremely hot in summer, costs more and is not durable unless kept painted.

2—One copulation may fertilize one or twenty eggs, depending on conditions. It is impossible to tell how many.

#### BOWEL TROUBLE.

I have chicks three weeks old. Have lost two in the past week through looseness of the bowels, causing them to become pasty and causing death. Can you tell me what to use to prevent and cure them? C. W. O., Lance, Pa.

The best preventive is to keep granulated charcoal before them all the time and occasionally place some in the food. To cure, boil rice in milk and add enough Venetian red to make it a bright pink. Cinnamon can be used in place of the Venetian red if more convenient.

#### SEVERAL QUESTIONS.

1—Why do the Barred Plymouth Rock hens become naked on their back during the summer months, while the Buff P. Rocks do not?

2—Why do the large breed fowls become scaly legged more so than the smaller breeds? Please give best remedy for scaly legs.

3—I have a Barred Rock cockerel four months old now suffering with what we call hard crop. His food does not seem to pass from his crop, thereby causing a swollen hard crop and a droopy chicken.

4—Why do chickens quietly huddle together and gape? Is it simply a sleepy feeling or symptom of disease?

J. G. M., Ft. Mott, S. C.

1—They do not generally. Perhaps in

your case the Barred Rocks molt the earliest.

2—Probably because they are less active. Dip feet in kerosene oil; afterwards anoint with vaseline.

3—Pour warm water down the bird's throat and gently knead the crop with the hand for a while. If this fails make a cut in the crop about an inch long, at the top, and remove the contents with the handle of a spoon. Then pass a greased finger, after having pared the nail blunt, into the crop and find if it is clear. Sew the opening of the crop with white silk. Then stitch the outer skin in the same manner; taking care that the stitching be only through one skin at a time. Feed on soft cooked food for a week and give a limited supply of water. In a week the union will be complete and the stitches can be removed.

4—We should look for gape worms.

#### WHITE HOLLAND TURKEYS.

Please let me know of the hardness of White Holland Turkeys. My next neighbor has a large flock and is regardless of my rights when the flocks mix. If possible I should like mine to be distinguished from theirs. I can find nothing about weight or other characteristics of these turkeys. Also I would like to know the weight of Indian Runner Ducks and color. C. J. T., Charlottesville, Va.

The White Holland is probably as hardy as any turkey. The standard weight is: Cock, 26 pounds; cockerel, 16 pounds; hen, 16 pounds; pullet, 10 pounds. To distinguish your turkeys you should have your mark. Cut off one of the toes just above the nail.

The standard weight of Indian Runner ducks is: Drake, 4½ pounds; duck 4 pounds. The head, breast, back and body are a light fawn or gray color; the neck white.

#### WALLS AND HOUSES—LICE AND CHICKS.

1—Will newspapers make good lining for a barn that has large cracks in it? I would double it if I put it on, and would this make a harbor for lice?

2—If I build a brooder house just south of this barn, give it a good lining and put glass in it, would it be warm enough to keep a brooder in for early broiler raising?

3—Which is the best lice killer to use

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on little chickens, liquid or powder, and how much of either do you use at a time?  
 4—How old should the chicks be before taking them out of the brooder, and after taking them out of brooder, would it be warm enough in this barn for them after it is lined?  
 M. W., Bloomington, Ind.

1—We should advise you to use ten or twelve thicknesses of old newspapers and after tacking them on, batten over the cracks with 1x2 inch batten. This would hold the newspapers thoroughly in place. If they are sprayed with oil they will not harbor lice.

2—A brooder house for use in winter should have double walls and be made tight enough so you can heat it to 65 degrees in the most severe weather.

3—Liquid lice killers are not designed to use on little chicks, or fowls either. There are powders that are harmless—Lambert's Death to Lice being one of them.

4—It depends on the season. When nicely feathered out and weighing about a pound and a half they can be placed in a tight building in almost any weather. In warm weather we keep them in the brooder six to eight weeks.

**COLD STORAGE.**

I would like to ask you through the columns of your valuable paper how to build a cold storage on a small plan for keeping eggs through the hot season. Would a house 10x10 feet, all under ground, with a cake of ice weighing 50 or 100 pounds in it all the time, be sufficient to keep eggs in the hot weather? How low would the temperature have to be so eggs will keep all summer?  
 Mrs. O. H., Gainesville, Ark.

We hardly think your plan practicable. A cold storage building is quite complicated to build and requires the services of an expert. It must be so arranged that the temperature can be held at any desired point. Eggs will keep well in a temperature of 32.

**CHOLERA—AGE OF FOWLS—SEX.**

1—How is cholera known from dysentery?  
 2—What method (if any) is there to find out age of fowls?  
 3—What is the earliest period when sex can be determined in chicks, and how?  
 E. C., Ovid, Idaho.

In cholera that part of the excrement which is excreted by the kidneys, and which is normally white, has a yellow coloration and in the latter stages of the disease changes to greenish or even a deep green color. Dysentery is really a severe form of diarrhea and is evidenced by the evacuations being mingled with blood.

There is no method of determining the age of fowls except by their general appearance. Spurs appear on most fowls as they grow old.

The sex of chicks can be determined when the comb begins to form.

**ABOUT LITTLE CHICKS.**

1—Will you advise in your next issue what to feed my fowls to make them molt early?

2—I had a large flock of young chicks hatched from my incubator and over half of them died. They all died from diarrhea, I think I kept the brooder too warm, as sometimes it would register over 100 degrees. Or, is it from feeding a mash food consisting of part chick feed mixed with bran and boiled for about ten minutes and fed slightly warm? Brooders are always kept clean and about two inches of fine straw kept on floor. The

chicks have a scratching place, with plenty of light. Is it the feed or overheating that is the cause? My stock consists of Barred Plymouth Rocks.

3—Are chicks that are hatched under a hen stronger and healthier than when hatched in an incubator?  
 F. J. D., St. Louis, Mo.

1—Feed lightly for a short time, until they get quite thin; then feed liberally, giving sunflower seeds and some linseed meal in addition to grain and wheat.

2—Both the heat and the food were to blame. Have the brooder at 90 when the chicks are put in. After a week gradually reduce the heat so at the end of the third week it will stand at 75. Try feeding dry food. At the first sign of howl trouble give the chicks some rice hoiled in milk, to which add enough Venetian red to make it a bright pink, or cinnamon can be used in place of the Venetian red. Keep granulated charcoal before the chicks all the time.

3—There is no difference if the incubator chicks are properly hatched.

**FEED FOR 100 LEGHORNS—PULLETS MOLT IN THE FALL.**

1—Will you kindly advise me in your next issue if my rations for 100 Leghorns are correct: Morning feed, 10 pounds of whole grain, oats, corn and wheat, alternating; night, 11 pounds of mash, which consists of 4 pounds of ground grains, equal parts, corn, oats and bran, 3½ pounds beef scraps and 4 pounds clover meal. Can I improve this?

2—Why do my pullets molt in the fall, and in consequence cannot get them to lay before December and January. This is my method: I hatch them in April and May; feed chick feed until six weeks old, then put them in colony houses on a clover run, with wheat, corn and beef

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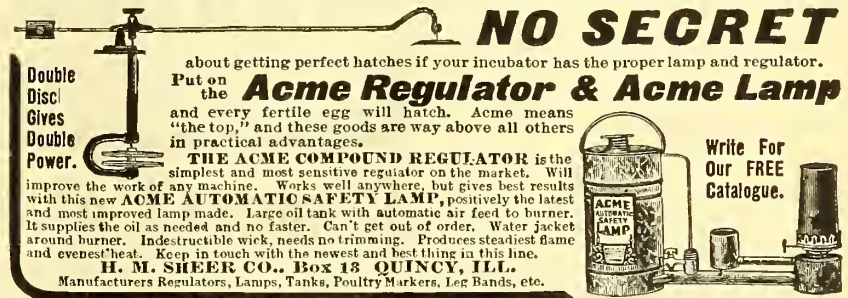
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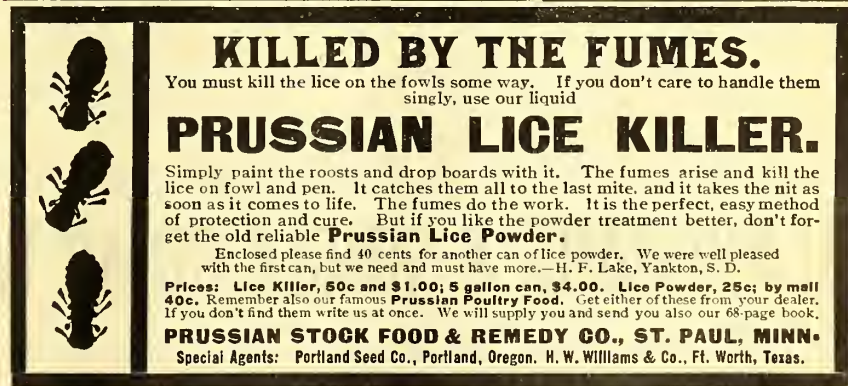
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Prices: Lice Killer, 50c and \$1.00; 5 gallon can, \$4.00. Lice Powder, 25c; by mail 40c. Remember also our famous **Prussian Poultry Food**. Get either of these from your dealer. If you don't find them write us at once. We will supply you and send you also our 68-page book.

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## The Poultry Keeper

scraps always before them and a Cyphers perch; feed fed mornings, what they will eat in five minutes. Can you help me to find what is wrong?

M. E. M., New Paltz, N. Y.

1.—We should think your ration ample and fairly well balanced.

2.—We presume your pullets have not their adult plumage. After they are three months old we should feed them, but twice a day if the range is good, giving them all they will eat. About a month before you want them to lay begin feeding them a high protein ration. A mash containing oats, buckwheat, middlings or gluten meal, bran, a little linseed meal and beef scrap will start them to laying.

### FEATHER PULLING.

Will you kindly give me advice to prevent chickens from feather pulling? What causes it? H. R. T., Davenport, Ia.

This is a bad habit fowls get into. It is usually caused by a lack of something in the food and by idleness. Usually only a few of the fowls contract the habit at first, but the vice spreads rapidly. Watch them carefully and find out which ones are doing the pulling. Then catch the fowl, take a sharp knife and trim off the upper edge of the mandibles and lower edge of the beak, leaving a wedge-shaped opening between the two halves of the beak when the mouth is closed. This prevents them from getting a firm enough hold on the feather to pull it out, does not hurt the fowl and the beak will grow out again in a few weeks, by which time the vice is apt to be forgotten. A patent wire bit is sometimes used.

### HOW MUCH FEED FOR CHICKS—SCALE FOR PLYMOUTH ROCKS.

How much should be fed to every ten chickens, feeding them three times a day? Please give me the scale of points for the Buff and Barred Plymouth Rocks.

M. T., Chatfield, Minn.

It depends on the size of the chicks. Give them all they will eat in fifteen minutes.

The Standard of Perfection is copyrighted, so we have no right to publish any portion of it. A copy can be had from this office for one dollar.

### WHY CHICKS DIE IN THE SHELL.

I wish you would explain through Poultry Keeper why my chicks die in the shell. I have an incubator and the only trouble I have with it hatching is the chicks die in the shell. Some of the eggs are pipped, some with a fully developed chick in it, and some half out, but all are dead in the shell. I follow directions to a dot, but do not understand why they die like they do. I am pleased with the incubator, and would like you to answer me in Poultry Keeper.

W. H. A., Hanly, Ky.

If from your breeding stock you can raise chicks hatched by hens and find no dead chicks in the shells, you know the fault is in the handling of the incubator. There are a great many causes for chicks dying, one of the principal ones being

overheating in the early stages of incubation. The developing embryo is a living organism that is liable to weakness and disease the same as any other organism. The death of chicks within the shell is in no essential different from the death of weakly chicks leaving the shell.

### A SPORT—COLOR OF WYANDOTTE CHICKS.

I have recently hatched out an incubator full of White Wyandotte eggs, and one of the chicks was black. There are no other fowl near me to cross with. Is there any explanation to such a thing? The stock came from a leading well-known breeder. Should all the chicks be a pure bright yellow? Some of them seem to be a little buff in the down on the hack. G. H. R., Madison, N. J.

The black chick is doubtless a sport. White Wyandotte chicks are often quite yellow when first hatched. They are probably all right.

### HATCHING DUCK EGGS.

I had an incubator full of duck eggs. I kept it about 103 degrees of heat all through the hatch and only one chick came out, but when I began to open them I found them to have died when they were about three weeks old. The eggs were full of slimy stuff which was dark yellow. As we do not live in high altitudes, nor in an extremely dry climate, I did not put any moisture in the pan in the incubator. Please tell me what to do with the next hatch to better it.

F. W. Fitz Henry, Pa.

Start the machine at 102 degrees with the thermometer between the eggs, the top of the bulb on a line with the top of the eggs. After forty-eight hours turn twice a day, cooling as little as possible. Watch it very closely, as the heat is liable to run up, especially during the third

**DON'T SET HENS** the same old way while A 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue mailed about and Size Lee Formula FREE if you write today. **NATURAL HEN INCUBATOR CO., B.L., Columbus, Nebraska.**

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 Try eggs or birds from my 23 varieties of land and water fowls. There's nothing better. Eggs by the sitting or hundred. Fertility guaranteed. Write for catalogue to-day. It is free.  
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H. J. BLANCHARD, GROTON, NEW YORK.



week, which will cause many to die. Cool daily during the third week, but not below 90 degrees. Do not cool during the fourth week. At pipping time a temperature of 105 or 106 is desirable and it should not then be allowed to fall below 103. Do not ventilate more than is necessary to keep the air in the machine pure. You must determine from the condition of your eggs whether moisture is required or not.

**BUFF COCHINS—PEKIN DUCK EGGS.**

1—I have some Buff Cochlin chickens that I bought for pure strain. Some are light, others dark buff, and some have black feathers in tail. What is the color of the pure stock, and have they single or rose combs?

2—What color are the pure strain Pekin duck eggs?

Mrs. S. D. D., Daffodil, Colo.

1—A perfect Buff Cochlin should be even buff in all sections, but there are very few perfect birds. The black feathers in tail are not a disqualification, but a defect. They should have single combs.

2—Pekin duck eggs vary in color, but are usually a bluish white.

**RAISING BREEDERS.**

I am a beginner in the poultry business and need some pointers. On March 17 I bought six White Wyandottes, five hens and a cockerel. They are fine birds. I set four hens with 64 eggs and they hatched 60 strong fine chicks. They are now about four weeks old. I have fed them on corn bread, oatmeal and cracked wheat and they are doing well, developing strong frames. From now on I must keep them in a lot of 30x70 feet. I want them for breeding stock. Now what ought I feed them for the next two or three months? And when should I separate the roosters from the pullets?

Rev. J. L. S., Hopedale, Ill.

Continue your present feeding until they are eight weeks old, then feed cracked corn, wheat, oats and beef scraps. Separate the cockerels and pullets as soon as the sex can be determined.

**PROBABLY POISONED.**

One of my year old B. P. Rocks acted so uncomfortable. Her comb was a normal color, but she waddled and seemed distressed. Her crop seemed free. She had a peculiarly nasty odor from the mouth, no fever, and a fairly heavy fowl. I killed the poor thing and found the intestines and fat covered with festering matter; the gizzard very small and a false or double opening right through the side. Could not find any glass or foreign substance. What caused it, and what should I have done? Thanks for all the good hints and advice found in your paper.

G. H. K., Woodlawn, N. J.

We are unable to tell what was the matter with your fowl, but believe she

had eaten some poison, mouldy or decomposed food.

**WHAT IS WATER-GLASS?**

In the last issue of the P. K. I notice in the question column you gave water-glass as an egg preserver. Will you kindly tell me what it is and where I can get it and if it is a success? Also how to use it? H. J. T. J., Hallville, Texas.

Water-glass is silicate of sodium and can be had at nearly every drug store. It is quite a good preservative of eggs. See answer to A. D. A. in this number of P. K.

**200 Egg Incubator**  
For \$12.80

The simplest, most perfect incubator made in the world. This is a new one at a remarkably low price. It is an enlargement of the famous

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and made as thoroughly good as any incubator on the market. It will hatch every fertile egg, and stand up to regular usage as well as the most costly.

Write for free catalogue with 14 colored views.  
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This book will appeal to all who are interested in making the home "the cheeriest spot in the landscape." It is helpful and suggestive. It is the outcome of actual experience in teaching small girls to do intelligent home work, using the materials there provided. Drudgery thus becomes interesting and pleasurable to the young people. Written by Elizabeth Colson and Anna T. Chittenden. Songs and music by Alice R. Baldwin. Price, \$1.50. Published by A. S. Barnes & Co., New York.

### Pocket-Money Poultry.

This is a book written by a woman of national reputation among poultry writers (Myra V. Norys), with a view to putting in a concise form the possibilities of success that are to be made by women in poultry raising. There are 172 pages and many full page illustrations, besides numerous small cuts. Price, 50c, postpaid. Or for 85c we can send the book postpaid and a year's subscription to Poultry Keeper. Address, Poultry Keeper Pub. Co., Quincy, Ill.

### A Letter from Rev. C. E. Petersen, President American Houdan Club.

Franklin, Me., April 6, 1903.  
Mr. W. F. Chamberlain, Kirkwood, Mo.  
Dear Sir: I have been using your "Perfect Chick Feed" for some time, and I take this opportunity to tell you that I consider it the best chick feed on the market. I have used most all of the other brands, some of them costing three times as much as yours, but I am getting better results in growth and vigor from yours than any other I have used. I am sure that "Perfect Chick Feed" makes "Perfect Chicks," as my champion challenge cup winner got his start in life on it.  
Yours truly,  
C. E. Petersen.

### New Poultry Books.

Fiske's Poultry Architect, a practical guide for construction of poultry houses, coops and yards, has just been issued. The book contains 130 pages and over 100 illustrations. It is printed on embossed paper, with stiff canvas covers. Price, 50c, postpaid, supplied by this office. Or we can furnish the book and a year's subscription to Poultry Keeper for 85c.

Poultry Appliances and Handicraft is a generally practical and useful book of 120 pages, fully illustrated. Gives plans for making many useful labor-saving devices, also treats on artificial incubation and brooding. Price 50c, supplied by us; or for 85c we can send the book and a year's subscription to Poultry Keeper. Address, Poultry Keeper Pub. Co., Quincy, Ill.

The American Orpington Club, Wallace P. Willett, secretary, East Orange, N. J., has just issued its first catalogue. The club, like its specially bred, the Orpingtons, has made remarkable progress since its inception. Starting at the Madison Square, New York, January, 1901, with four members, it gained six more the first year, forty-two more the second year, and has nearly doubled its membership during the four months of this year, having now eighty-five members and being represented by twenty-eight honorary vice-presidents in as many states and territories.

The catalogue is a model of perfection, illustrating the five varieties of the Orpingtons and giving full description and standards for same. All persons interested in knowing about this new breed, which attracted so much attention at the winter shows, and which is spreading as rapidly over this country as it has over other parts of the world, should send 12 cents to the club secretary for a copy of the catalogue.

I have noticed in last two issues of your paper inquiries made as to how to rid a place of hawks, and will offer this as an infallible remedy. Take a steel trap (or what we call down here, "coon trap"), fasten it firmly on top of a pole ten or twelve feet long, sharpen the end well and place it in the ground two or three acres out from premises and watch results.—A. R. Munson, Napoleonville, La.

The Poultry Standard, Stamford, Conn.,

the leading monthly poultry journal of New England, is making an offer which every poultryman should take advantage of. They will send the Standard from now until April, 1904, for only 10 cents.

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For use in dusting insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste any powder if you use this bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the Reliable Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.



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## The Pan-American Poultry Magazine

THE new poultry journal that will begin publication soon, is one of those that is really worth reading. The contents will be very large, taking in everything that should be published in a first class poultry magazine. There will be several departments not found in other poultry papers. Among these is the "Literary Department," which contains short stories and other interesting articles. The "News Department" is a feature not found in any other poultry journal. This will contain all the news that is of interest to poultrymen, gathered from all parts of the world. It will have an up-to-date "Womans' Department;" also a "Question and Medical Department, etc., etc. The price is \$1 per year.

In order to have as large a circulation as possible to start out with the publishers will—for a short time—Club The P-A. P. M., with any other poultry paper at one-half the price of both.

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Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. Price, 50 Cents.

A year's subscription to Poultry Keeper (50c and a copy of Money In Squabs (50c) for 75c. Or we will furnish Money In Squabs free as a premium for 2 subscriptions to Poultry Keeper at 50c each. Address,

Poultry Keeper Publishing Co.,  
Quincy, Illinois.



**POULTRY RAISING AS A BUSINESS.**

**Requirements That Lead to Success—  
Points for Beginners.**

G. W. Nones, Ozone Park, N. Y.

**P**OULTRY raising as a business, both for fancy and market purposes, seems to be the general topic of the day. If the beginner will follow the advice of the wise and experienced poultryman, who has passed through the experimental stage and knows how, and will carry out the requirements needed as to what he should do, he will have gained his first success. It seems to be a prevailing idea that while poultry in small flocks will pay a good profit to the keeper, in larger numbers the losses more than counter-balance the gains. In many cases this opinion is well supported by facts. There have been many attempts, failures, to raise and market poultry in large numbers. These cases have been numerous and the records might show the instances of success were very rare.

Yet that it can be made successful is beyond a doubt. To-day, in the hands of experts, poultry culture has become a science, and there are a number of large farms throughout the country that are successfully shipping daily to our markets vast quantities of eggs and poultry for table use at a profit that is very satisfactory and encouraging. In nearly every case of failure which has been investigated there has been found, first, no practical acquaintance with the business, and second, it has been made a secondary matter, some other occupation or employment occupying the most of the would-be-poultryman's thought and time.

The poultry business cannot run itself, with slight supervision of an attendant morning and night, fowls being kept only as a hobby or side issue to the farm or country home. As well might one expect to transact any mercantile pursuit in the same manner and be absent from his business half of the time and expect good results. The largest enterprises often have their origin in very small beginnings. The practical business man appreciates the folly of attempting to conduct any large business upon the same capital and with the same help as in its incipient early stages, yet the majority of those who go into the poultry business appear to think that it is an exceptional occupation, requiring but a few houses, some feed and a boy or man to supply the one to the other.

And that is the fatal mistake. Apply the same capital, the same business tact and enterprise, give it a competent person's whole time and attention, and success is quite as certain as in any other pursuit. The same watchfulness and attention to business are as essential in profitable poultry raising as in any other business. What are the requisites necessary for success? First, stock of known stamina, bred from selected specimens that have proved their useful points. Whether your aim is to produce market eggs and poultry meat for the table, or fancy show birds, let your foundation stock be of the very best. Next, properly located and suitable houses to shelter this stock, best adapted for your purpose and locality; judicious feeding and clean-

liness; and in addition to these things, common sense treatment at all times.

While attending your fowls never cause any unnecessary excitement, as it greatly affects their laying. Treat them kindly and they will soon become very tame and flock around you at feeding time. Furnish an abundant supply of cool water frequently and know that the fowls and chicks have shady resorts during the extreme heated months of late spring and summer. Above all, be thorough in all the work that you do and look carefully after the details. If farmers would follow practical business methods in poultry culture they would soon learn that as a business it pays well.

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.



In a Victor Incubator always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher is the **VICTOR INCUBATOR**. Thousands in use; no complaint. Catalogue 6 cents. GEO. ERTEL CO., Quincy, Ill.



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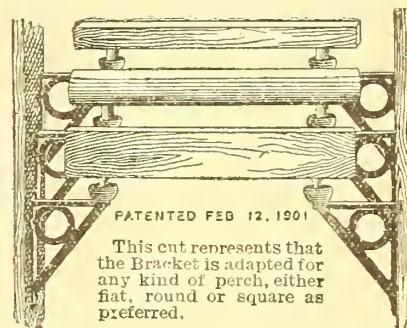
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**de Wolf Farm,**

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Stock for sale after July 1. Circular and standard free. M. DE W. MUDGE.

**Catches Them Coming and Going**



PATENTED FEB. 12, 1901

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A permanent fixture for all times. The spider or midge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.

Wm. M. Shrader, Box 94, Bueyrus, O.

**How to Make Money with Poultry and Incubators**

Is the title of the Cyphers Incubator Company's Complete Catalogue and Poultryman's Guide for 1903, which thousands of people have pronounced to be the finest and most valuable Year Book we have issued thus far, and we have been pace setters in the production of Valuable Poultry and Incubator Literature. This book consists of 196 pages, 8x11 inches in size, is profusely illustrated with over 300 half-tones made from photographs, showing the Largest and Most Successful Poultry Plants in the United States, Canada, England, New Zealand, South America, etc., and contains Twelve Special Chapters, covering all branches of profitable poultry keeping, Each Written by an Expert expressly for this book, as follows:

- I Starting with an Incubator
- II Handling Chicks in a Brooder
- III Feeding the Chicks
- IV Duck Producing on a Large Scale
- V Broiler Raising
- VI Profitable Egg Farming
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THE EARLY MOLT.

[Extract from report of the manager of poultry department of Experiment Farms, Ontario Department of Agriculture, Canada.]

Every effort was made to shorten the molting period, which is really one of non-production, and gratifying success was attained. The following treatment was adopted. During the first week in July the sending out of eggs for hatching purposes had ceased, and the breeding pens were broken up, the male birds being removed to a building with small pens and limited runs. The hens were allowed to run in small fields in rear of the poultry buildings. During the first two or three weeks in July their rations were reduced one-half, the mash being fed only once per week, and one-half in quantity. At end of July the full rations were resumed, and the mash was fed three times per week, but was mixed with cold instead of hot water.

As it was not convenient or desirable to feed cut bone during the hot weather of August, a preparation of meat was mixed in the mash, in the proportion of three to five pounds per hundred hens. The half rations were one-half pound of wheat or buckwheat to every fifteen hens of the Mediterranean classes, and to every twenty hens of the heavier breeds. When buckwheat is used in summer it is better to mix oats with it. The half ration of mash was fed in the same proportions. Bran was used as a part of the mash.

The full ration of mash was composed of coarsely ground oats, two parts; shorts, one part; cornmeal, one part, with the prepared meat in quantity of one pound to every fifteen or twenty hens. Pure water for drink was always at hand. The fields furnished clover and grass. The response to this treatment was the shedding of the old feathers and the appearance of the new ones. By the end of September or first week in October, some much earlier, the hens were over their molt and looking remarkably well. From the results obtained and observation during the molt it seemed as if it were possible to shorten the season of non-production to a still greater extent. One result in the shortening of the rations was to at once reduce the egg production to almost nothing.

The remarks of Dr. N. W. Sanborn, a recognized authority in the United States, in his work on "Poultry Diseases," says of the molting period: "So many birds pass through the molting process with difficulty, if not disease, that is well to call attention to it. A molting hen is easily fattened. Hence, at this period, feed lightly of those foods which produce fat. Corn, corn meal, middlings, potatoes, must be used sparingly. Increase the amount of green bone, bran and skim milk. A run in a field of clover will be a help. Do not try to hasten the time of the molt by keeping in a warm pen or by feeding cotton seed or linseed meal. Keep all males by themselves during the molting season. The hens should be sheltered from storms or cold rains. The ideal place for a run is an apple orchard where in addition to the grass may be found insects in fallen fruit, etc. Birds should go into the molt not fat, free from lice and with no red mites in the house."

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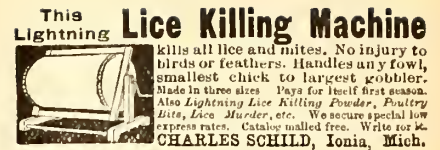
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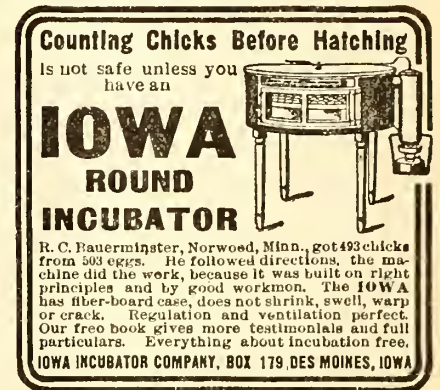
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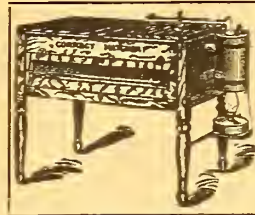
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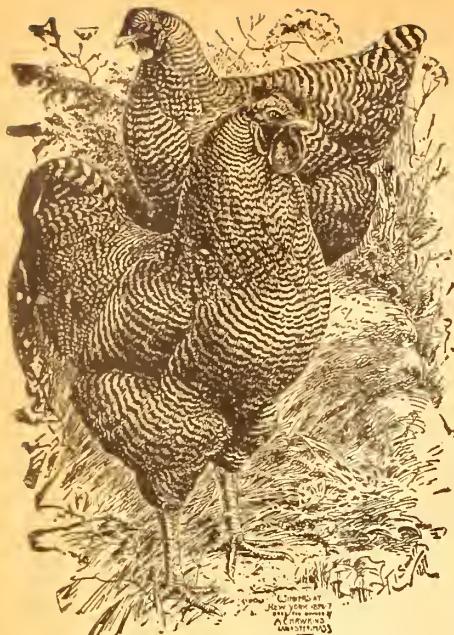
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July 15, 1903

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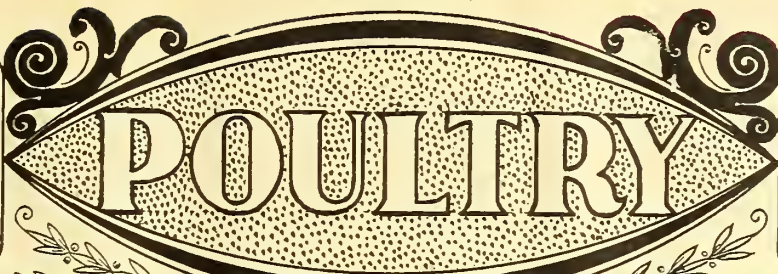
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**C**APONONS are one of the most profitable branches of the poultry industry and they are a branch that is often neglected by poultrymen through carelessness, or you might say, indifference. One dozen cockerels caponized will more than pay for a good set of instruments and show wherein the profit lies. Try your hand on a bird that has been selected for dinner, cut his head off, then proceed.

### Method of Operation.

The cockerels to be caponized are selected in the day time and examined carefully in order not to caponize a winner or good breeding specimen. From twenty to thirty are caught and placed in a good roomy coop, where they remain, without food or water, for twenty-four hours. We have a board with straps and weights, and about noon when the sun is high up, the coop is brought out near the operating table so there may be no delay. A small looking glass is sometimes used to reflect the light into the cavity when the sun is dim.

The operation cannot be said to be painful, for during the ordeal the specimen either catches flies or takes a nap; the most objection being made when the feathers are plucked. The remaining feathers in the neighborhood of the last rib are well matted with a wet sponge. This prevents any unplucked feathers from getting in the way at a critical time. As I said, a board with straps and weights is used. One end of the strap is placed around one leg and fastened to a screw. The other leg (one on side where operation is to be performed) is pulled well down, the head and wings meanwhile being held by a cord weighted. By stretching the bird out there is less likelihood of cutting the muscles in the thigh.

### The Incision.

The incision is made between the last

two ribs, where it is found the spreader will stay better than if the cut is made after the last rib. Care must be taken not to cut toward the back too far, for the lungs are not far away. If you are in a hurry to get through, now is the time to go slow. Take the hook and carefully open the membrane that encompasses the entrails. We now use a special tool, the only practical one found after much experimenting. It has a plate below with loop above and built like a pair of scissors.

If the bird has been properly fasted the entrails can easily be moved out of the



An Eight-months Old Partridge Cochon Capon.

way and a good view can be had of the interior. No unnecessary moves should be made in probing around with the forceps for the organs sought, as the main artery lies in close proximity and to rupture that means instant death.

### To Avoid Slips.

We believe there is less likelihood of turning out slips and that better time can be made by operating on both sides. However, in favorable cases the operation is performed from one side. The first season caponizing was attempted the wound was sewed up, but we found that the bird puffed up, and we find some cases where they puff when not sewed. This puff must be reduced by pricking with a sharp knife. Some cut the comb and wattles off at this time, but in a true capon that is unnecessary, as these parts diminish as the bird grows until at six months they are no larger than at eight weeks. The comb of a slip continues to grow.

A capon's feathers seem to never stop growing and when one year old are very long. The spurs grow as usual. As soon as off the table the capon is allowed to find a cool place and think it over.

### Feeding for Frame and Flesh.

The first meal, consisting of a light mash, is fed in the evening and the same next morning. The feed from then on is intended to make frame and develop the bird as much as possible. Free range is given until fall, when they are yarded and given good quarters. The house used last year had two rooms, each 12x12 feet, which was used as a roosting room and closed scratching shed.

Fat forming foods are increased as the holidays approach, until at Christmas many are in condition for the use of families who do not care for a bird as large as a turkey. We have a fattening coop holding one dozen capons and as they become fit they are placed in the coop for a few days and finished off.

A poor capon is a disgrace to the raiser and will make no future sales, therefore, they are never dressed unless in proper condition. Our private customers require a bird dressed ready for the oven, but those shipped are dressed as capons; always dry picked.

### Some Experiences.

Perhaps some experience will not be out of place here. Last summer we



picked out our culls from time to time and after culling rather too closely found we had something like one hundred and thirty capons. This would not be enough so several lots (over one hundred in all) were bought. They were big-boned, hearty Barred Rocks. Several soon developed roup and before it was checked our profit on that lot was lost. We can't use any cockerels that have been packed in a shipping coop. Three pullets were caponized, but not successfully; they made ideal roasters when dressed, one a Barred Rock weighing eight pounds.

#### Capons as "Mothers."

Some capons make good mothers. One raised three broods last season. It was placed in the store room and given another

Brahmas, but no capons were matured from this lot. A Leghorn was tried and the result was a surprise. While the bird did not reach such a great size, when dressed it presented a very good appearance. Some White Wyandottes were caponized for a neighbor, but on account of their size and blocky build, we found them very difficult subjects.

Any breed will make good capons if early hatched and not stunted at any time. Don't waste your time and skill on scrubs or runts.

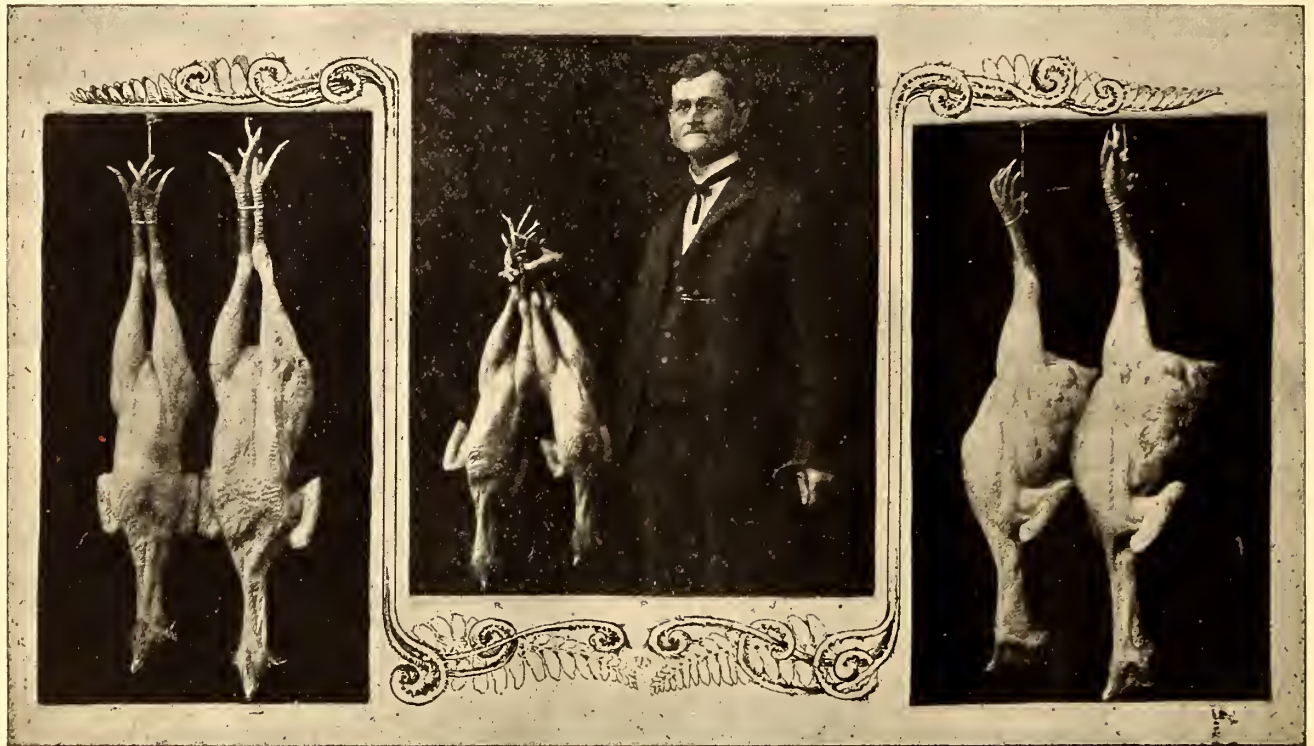
#### Profits Worth Considering.

We are of the opinion that it is more profitable to caponize cockerels and market them as capons than to sell them as breeders at \$1. The one who buys the

#### POSSIBILITIES FOR POULTRY IN VIRGINIA.

Editor Poultry Keeper.

In your issue of May 15, 1903, there is a request from A. M. L., of Rochester, N. Y., asking about the climate of Petersburg, Va., and you request any reader of P. K. to give the information sought. I came from Michigan some five years ago as an invalid to Virginia, purchased a place one mile south of Petersburg for farming purposes. My wife, too, was afflicted with inflammation of an eye, very painful. Since we are down here my health has greatly improved and my wife is free from pain. The climate is all we could ask for—winter, we have had none



Cut kindly loaned by the Reliable Poultry Journal.

Prime specimens of choice poultry product for the table. These capons were killed and dressed the day they were six months old, and for juicy flesh, firm of grain and tender, they could not be surpassed. They were of good weight, one weighing eleven pounds. Mr. Curtiss (shown holding the pair) is an expert caponizer.

brood in the fall. This lot was marketed in February. When tried again this spring, it (I say "it" advisedly) refused to take the chicks, was then turned out to range, tried again and again, was then put into a pen of laying hens, who kept it in the back ground. Even after this abuse it would not take a brood. The capon was then put into condition and dressed, although one and one-half years old, it was a delicious dish. This bird's sister won first prize in a class of one hundred and fourteen Barred Rocks at the Belleville show. Several others have been tried as mothers, but with no success.

#### Plymouth Rocks Make Best Capons.

The Plymouth Rocks have been found by us to make the best capons. They develop frame during the growing season and are easily and quickly put into marketable condition. As an experiment we crossed Cornish Indian Games and Light

port, Maine. capon is a well pleased customer, while the other thinks he did not get full value for his money. Last season our capons brought from 90c to \$1.60 each, three dozen going to the largest hotel in St. Louis at an average of \$1.08 each.

My attention was first attracted to capons by an article which appeared in Poultry Keeper about 1884. I have the clipping yet, but can find no date on it.

The Freeport (Maine) Poultry Association will hold its exhibition December 16, 17, 18, 1903. A. C. Hawkins and D. P. Shove, judges. A number of prominent fanciers and the business men of the town are members of this association, and there is every indication that the show will be a successful one. The premium list is now in course of preparation and correspondence should be addressed to Geo. P. Coffin, secretary, Free-

port, Maine. yet, only a few cold days at a time. The winters so far have been like spring months in Michigan. The average temperature in July and August has been about 80 degrees; in winter about 36 degrees. Undoubtedly any one conversant with poultry raising could do pretty well, but he must understand the business.

The land hereabouts is suitable for general farming, as I now know, but by bad, land renting farming, the soil is, so to say, poor, but it can be improved very readily and that, too, at no great expense. I've seen poorer crops grow on land up north than I've seen yet down here. We grow as nice vegetables here as we ever did on what was called good land in Michigan. The better way for a person, thinking of locating at some other place, is to take a little time, go to see and judge for himself and keep away from land agents. J. A. F. Scheffeler, Petersburg, Va.





The popular continuous open shed plan of Poultry House in use at Pollard's Poultry Farm, Attleboro, Mass.  
Size of house, 120x12 feet. Suitable for moderate climate.

## SOME HINTS ON BUILDING PRACTICAL POULTRY HOUSES.

### Good Sense and Economy In Building—The Generally Accepted "Best Plan."

[The following article is one which appears in the catalogue issued by Pollard's Poultry Farm, Attleboro, Mass., it being especially prepared to help those who are interested in the profit producing points of the poultry business.—EDITOR ]

**T**HERE are as many different styles and shapes of poultry houses as there are breeds and varieties of poultry. Individual tastes may be satisfied without much regard to the fowls which are to inhabit the house, other than that the essentials of dryness and freedom from drafts are considered. Generally speaking the plainer the house the better, if practical work is to be done.

If, because of surrounding buildings more attention must be paid to exteriors, any variation of form may be indulged. The inside of the buildings, however,

should be kept plain, if the work is to be economically and properly done. Probably the most successful poultrymen of the country are those who pay no attention to the style of construction, except that it keeps the birds comfortable.

#### No Heat Needed.

In the more northern states and cold climates warmer buildings are necessary, but artificial heat is not desirable for matured fowl. All varieties of poultry seem able to stand almost any degree of cold, but are peculiarly susceptible to dampness and drafts. Buildings which

are not tight and dry quickly develop cases of roup and swollen head, canker and all the other annoying diseases which are induced by the colds which come from exposure.

In such sections as have moderate climates open-front scratching shed houses are justly in favor. Experience has demonstrated, however, that in the more wintry climates these houses are not so desirable. The cold winds and the blowing snow frequently make the scratching shed floors damp, and it is almost impossible to forecast the weather conditions sufficiently to always prepare for storms long enough ahead to prevent such dampness.

Where many fowls are kept the long houses, subdivided into rooms of suitable proportions for twenty-five to fifty, are probably the most economical. (See illustration.) With our best breeds it is best to allow from five to eight square feet for each bird, the number depending considerably upon whether or not they are to be kept only for eggs and market purposes, or whether they are to be mated in numbers suitable for breeding flocks.



A Summer "Shanty" and Breeding Pen of White Wyandottes at Pollard's Poultry Farm.



In the latter case, we should allow them the full eight feet, and should not keep more than ten or a dozen in a flock, just what number depending largely upon the individuality of the male which heads the flock.

On many farms the ground is so uneven that it is impossible to profitably build long houses, and on all farms there are many sites which can be utilized for small houses which otherwise would be unavailable. In such cases it is decidedly better to build small houses suited to the particular sites and to furnish them in whatever way seems best to the builder.

In cold countries a small room, separate from the main house and used as a roosting place, economizes by holding in the animal heat generated by the birds and is much more comfortable than where they perch in the larger and more open rooms of the house. In warmer climates the opposite condition prevails, and more room and greater volume of air in the roosting pen will result in better profits from the fowl. In cold locations build

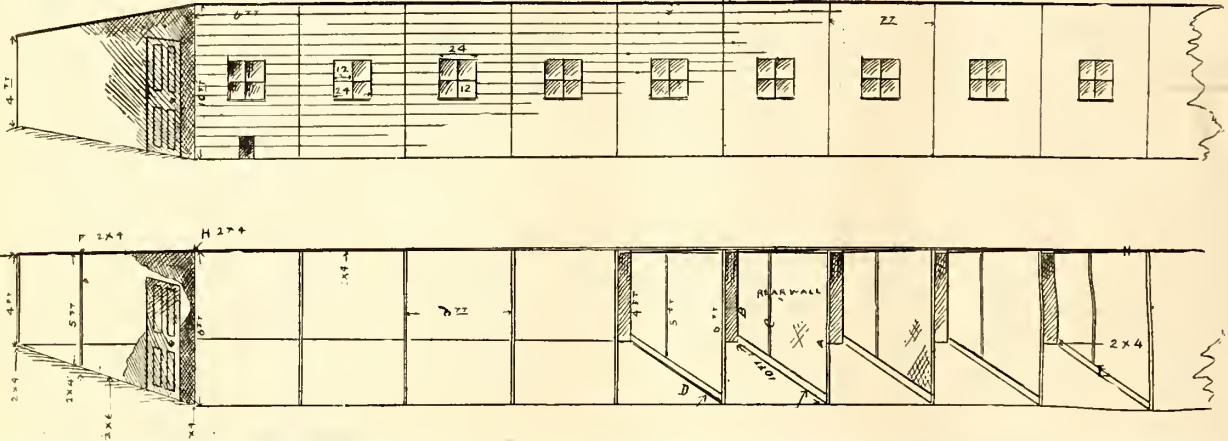
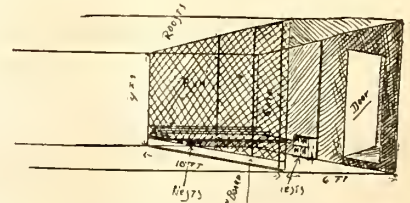
## THE ONE-MAN POULTRY PLANT FOR A CITY LOT.

Further Facts From Mr. Cavanaugh Regarding His Plan as Presented in May Issue.

**W**E have received many letters from all over the country from readers of Poultry Keeper asking for further details of what I termed a "One Man Poultry Plant" in the May issue of the P. K. To begin with, I wish to state that the plans and views of the plant published in the May P. K. are not of our plant at Chicago, but one that we are now building in the city. The reason we have never opened such a plant as I described before is, we, like many others, wished first to know just what we needed to be successful.

The last few years we have built and experimented with several different sizes and shapes of poultry houses and we gave to Poultry Keeper readers in the May

my article in the May issue, I would advise the keeper to furnish plenty of straw in the pens and outside runs. A fowl can get as much exercise and more comfort in a small yard where the ground is covered with straw than it could roaming over a farm, and there is another point that should be considered, viz.: They do not require as much food as a wild fowl,



Laying House, 10x108 ft. (interior and exterior). There are two of these houses in Mr. Cavanaugh's plans. Each house is divided into 18 pens (6x10 ft.), each pen to hold ten hens and a male, with 12x24-inch window in front of pen. House is six feet high at front (inside measurement) and four feet at rear. Pens are divided by 2-inch mesh poultry netting with 12-inch base board. Roosts are set on 2-ft. wide dropping's board at rear of pen, boards hinged to rear wall of pens one foot above floor. There are two nests to hang on each side of each pen (4 nests) from base board, nests fastened so they can be easily removed and cleaned.

low houses and in warm locations push the roof up higher.

### Economical Buildings.

Possibly the most economical, all things considered, is a plain frame building of boards planed on one side, and with the smooth surface on the inside. This covered with a layer of sheathing paper and then covered with shingles, gives a building which will last for years and which unites the maximum of comfort with the minimum of expense. Where lumber and shingles are expensive, the rough building may be constructed and covered with either two or three-ply tarred paper, which should be closely nailed on the edges and flattened with strips, not over twelve or eighteen inches apart. Wash this covering with a coat of hot coal tar as soon as it is laid, and then give another coat of tar in a few weeks. After the second coat, and while the tar is still hot, sprinkle fairly coarse sand or gravel over the entire surface. This mixture of tar and sand makes a coating which will wear for several seasons. It should be renewed as often as necessary to keep the covering in good condition. This is probably the cheapest form of building and the one in most common use in New England.

issue plans, views, etc., of what our experiments have proved to be practical in every sense of the word. Our new plant which we have under way will be almost a perfect representation of the "One Man Poultry Plant," with the exception that it will be somewhat larger. Many letters I have received, ask if I didn't think an outside run of 6x25 feet small for a family of eleven fowls. In answer, I will say that I know a run of that size is plenty large enough.

Of course, fowls that were hatched and raised with hens on a farm are of a different nature than those raised in brooders with limited runs. We do not believe that a flock of farm fowls would do well confined as we planned, being accustomed to run wild over a sixty acre farm. They might feel like prisoners in jail, but brooder raised fowls will do just as well and better in close quarters than if let run, providing the person who handles them knows his business. We know that there is no great multitude of people adapted to the poultry business, and those who have had the experience should not be afraid to make public for the benefit of others the secrets of their success.

Where fowls are housed as described in

In my article I mentioned a plant on 97th street where six to eight hundred fowls were handled with success on a few lots. This plant is open to visitors any day in the week and the owners (Cannon & Davis) no doubt would make it interesting for those who wish to investigate.

Long established rules among poultry breeders in regard to unlimited range for fowls is responsible for the timidity displayed by most people in adopting the confinement system. Even on the farm a flock of fowls will stay all day scratching in one small space if rewarded by occasionally finding a few grains. The hug and worm diet of the unlimited range fowl is admirably improved upon by green bone and meat scrap feeding. In conclusion I wish to state that these, and many other facts I do not mention for lack of space and time, are supported by hundreds of small breeders throughout Chicago, who have but little room and lots of experience.

D. D. Cavanaugh.

Do not forget the fall fairs. Help along the poultry by showing a few of your best birds. Do not let the "huxter" win on his cull birds. Improve the county fair along poultry lines



## HOW A START WAS MADE IN RAISING PIGEONS FOR SQUABS.

Frances E. Wheeler, Chazy, N. Y.

**S**OME time ago I promised our Poultry Keeper readers to give an account and description of my first dove cote. As perhaps I told you before, a party closing out offered me the pigeons and I engaged forty pairs; but when my birds arrived there were

into winter they were no care whatever, but lived and raised their young in this little house—about twelve pairs in all—feeding on what the ducks left. It was a pretty sight—their graceful ways and flights; but their home proved ill adapted to our severe cold; so, to save their lives, we climbed up again one bitter cold

(seven feet high) for the sweet pea hedge. Then we measured of a plat of about 22x16 feet and using nine and a half feet small cedar posts, utilized the sweet pea corner and wire netted the other two sides and top. We used sixteen posts in all for the enclosure, bracing them with trimmings from the saw mill on top, bottom and middle.

For our house we took another packing box and rigged up the inside much like the previous one, only we ranged the boxes on three tiers of shelves inside and gave the pigeons an entrance at each end of the house, and we had a large door for



Shady and inviting yard for Pekin Ducks at Clovernook Duck Ranch, Chazy, N. Y., provided by means of sunflower plant and hop vines on trellises.

just eleven in all; four pair, the rest males! It was claimed that the others had been stolen. Well, the disappointment was swallowed, cheerfulness reigned, as "Despise not the day of small things" came to mind; and we set about converting a 3x3x3 packing box into this little two-story home, hoisting it onto a post, in the glen. Over both sides we fastened wire netting and placing a short ladder against the post, climbed up and thrust the birds through a small aperture and fed and watered them there for a couple of weeks, when they commenced to build nests.

We then took off the netting (this was in July) and all summer long and well

night, caught what we could and housed them in with the ducks.

### Getting Into Bigger Quarter.

Then they wintered very comfortably, but we lost quite a few by the change and they did not re-commence to lay until some time in March, by which time they escaped, most of them, from the duck house and many returned to the glen cote. Finally, in the spring, I decided to shut them up and take proper care of what was left.

Our boundary line fences are built of wire netting, two-inch mesh and five feet high, and at the road and gate angle the netting ran back about twenty-two feet

ourselves. It was built very much warmer than our first house. The entire cost of this fresh start was \$5 and we had accommodations for thirty pairs of pigeons.

### And the Ball Kept Rolling.

When we caught our birds and put them in their new home we had ten pairs. There were three pairs of half grown birds and four nests of eggs lost. The parents let the little birds starve. They would not feed them after they had been handled and moved, and so it also proved with the eggs. But after recovering from this last break-up, we sailed along beautifully smooth. In May seven pairs



were hatched, and with this encouraging start, the ball kept rolling all summer long.

**A Comparison.**

In a corner of their yard we sank a tub and kept it filled with fresh water, and under the house on a little table kept their food, grit, salt and oyster shells, and nest material. We fed them corn, buckwheat, oats, barley and red wheat, and whenever a pair of squabs left the nest it was cleaned out thoroughly. As compared with any of our other stock—chickens, turkeys, or ducks—they require very little attention.

**Working Up by Natural Increase.**

I don't know as I would recommend this way of starting in the squab busi-

ness. I felt modestly elated. It was made out of a 5x3 2-3x4 feet packing box. It had four tiers of nests (10x13 inches, with perches attached) on each side, four pairs of nests in each tier, and in the roof six more.

In each end, the width of the center aisle, we placed a large door, and over one a window. The house was double boarded, tar papered and clap-boarded, and every corner made snug and tight for winter with good ventilation for summer. It was large enough inside for food, water and a small oil stove if needed during storms. I had each yard locked, and cared for my birds myself.

**The Market Demand.**

Really, for genuine enjoyment, pigeons

but their crying fussed her so that she finally came out and while they snuggled under her, deposited the egg on the ground.

Another excitement in the cote was between a white pigeon and her young five months old daughter. The white one made a nest in the roof and hatched a pair of babies and her young daughter cuddled up beside her and laid her first two eggs. For a few days all went well, but suddenly the mother seemed to realize that another set of babies would be very inconvenient on that floor, so she hustled her off the nest and out of the door. Now perhaps that daughter and mother and their respective husbands did not have high jinks for about two weeks over that nesting business! About this time I decided that an old hen was a pretty good investment.

They also developed a great tendency to fight, until I discovered that the rows were made by two lonesome bachelors. When we provided each with a nice little sweetheart they calmed down—became respectable citizens.

Even if, as in matrimony, the glamour soon disappears, and we find our pigeons very like the rest of the poultry world, still, it does not pay to be too critical. A little study, experience and patience smooths away many awkward looking predicaments, until finally we grow to be fonder of them than if they were less interestingly bothersome.

Frances Ellen Wheeler.  
Clovernook Duck Ranch.

**INCUBATORS IN INDIAN TERRITORY.**

**Editor Poultry Keeper.**

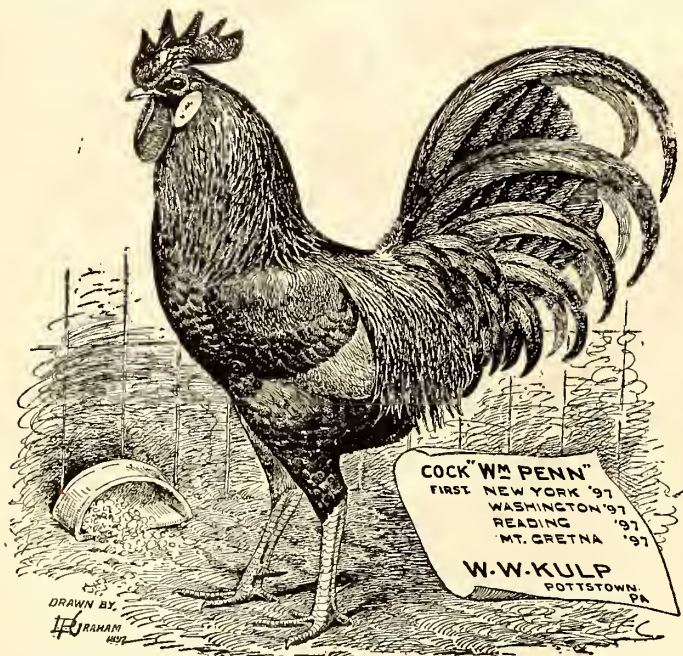
As I am very much interested in artificial incubation, I will give a little of my first experience in the Indian Territory. My first experience with incubators dates back a year ago, when I lived in the state of Tennessee. Having a desire to locate in the beautiful Indian Territory and not willing to dispense with my new "Reliable" machine, I crated it and brought it with me. I had been told that incubators would not give satisfactory results on account of the sudden changes of temperature which occur here. Notwithstanding, I placed my machine in a cellar and filled it with well selected eggs.

The machine ran the entire three weeks, the thermometer registering between 103 and 104 degrees. The result was a ninety per cent hatch of fine, healthy chicks. As the weather was very rainy during the period of incubation, the water ran in the cellar to the depth of three or four inches right under the machine and this was the condition during most of the three weeks.

I supplied moisture by putting in the moisture pans on the eighteenth day. I also ran the machine with the ventilators wide open the entire time.

My machine is a hot-air make. It takes study and experience to learn to operate an incubator successfully. Good, healthy stock and the selection of eggs are two important factors. I think any one can succeed if he will take an interest and make artificial incubation a study. Poultry journals and good books on the subject, in my opinion, are an essential feature to lead us on to success.

W. Alvin Whitlock.  
Owosso, I. Ty.



Single Comb Brown Leghorn of the famous Kulp strain. Practical value and fancy requirements considered there are no better Leghorns than those bred by W. W. Kulp, of Pottstown, Pa.

ness to others, and yet for me it had its advantages in being easy and inexpensive and affording an opportunity to study their habits and find out what I could do and what I wanted to do in building up on such a tiny and busy spot as Clovernook.

My plan was to work up the plant by natural increase to about one hundred pairs of pigeons and then sell the surplus squabs to the two large summer hotels where the ducks go, and the spot and style of house already described seemed to promise cheapest and easiest methods towards that end. If another change became necessary, we now knew enough to wait until the birds were able to feed themselves and before the parent birds had commenced on another hatch ere removing them from their homes.

But to meet the demand for thoroughbred breeding stock, I purchased two pairs of White Homers from Mr. Arthur Spiller, Beverly, Mass. They were certainly beauties; such style and grace of form and movements as were a delight to contemplate. It seemed as if we could hardly make a house quite good enough for these dainty creatures; but when our effort along this line was com-

plete I felt modestly elated. It was made out of a 5x3 2-3x4 feet packing box. It had four tiers of nests (10x13 inches, with perches attached) on each side, four pairs of nests in each tier, and in the roof six more.

In each end, the width of the center aisle, we placed a large door, and over one a window. The house was double boarded, tar papered and clap-boarded, and every corner made snug and tight for winter with good ventilation for summer. It was large enough inside for food, water and a small oil stove if needed during storms. I had each yard locked, and cared for my birds myself.

**Some Domestic "Squalls."**

Of course there are things to learn, bitter and anxious hours, as in any undertaking. At the time my beautiful pigeons let their little ones starve to death, I had an old Plymouth Rock hen "mothering" two little turkeys. She was lame and she was homely, but her maternal instinct and her patience with those "complaining whistles" was something to admire. She fixed herself in a box to lay,



## HATCHING AND RAISING BANTAMS.

### When to Hatch—Care and Feed of Young During the First Weeks— The Maturing Birds.

Pollard Bros., Rutland, Vt.

**I**F fifty per cent of the bantams that were hatched were raised about fifty per cent of the bantam breeders would have to go out of business, or we would have to resort more frequently to bantam stews and potpies. As a rule, the average breeder has no trouble in hatching out any quantity of bantam chicks, but invariably has trouble ahead when he starts to rear them.

After ten years of experience we have learned something about rearing bantams, and while we may not yet have the best system, still we believe it to be good, for we manage to rear about ninety-five per cent of the chicks which we hatch.

#### Cochin Bantams Make Best Mothers.

Our bantams are Rose Combs and these, as are the Sebrights, Games, etc., besides not being good sitters, are very poor hens to brood and rear chicks. They are too nervous, tire the chicks all out, do not brood them enough and hence allow them to catch cold. The Cochin Bantam is the ideal mother hen, always slow, patient, cool-headed and every ready to protect her chicks and brood them.

Accordingly we keep about ten Cochin Bantam hens to mother the little Rose Combs, and we do not begrudge them their year's board, so efficiently is their charge performed. After we have learned that "poultry needs care," we must then learn that bantams need more care, and bantam chicks the best possible care.

#### First, Start the Sitters Right.

In the first place, start off well with the hen. When you set her see that she has a fresh, clean nest, in a cool, shaded and rather damp place. A cellar of a barn is excellent. Dust plenty of Lambert's Death to Lice or other good insect powder into the nest and on the hen.

Never use a liquid "lice killer" around the nest, for it is liable to kill the germ in the eggs.

It is well to close the hen on the nest, letting her out for about ten minutes once a day for a dust bath and food consisting chiefly of good water, corn or corn with some wheat. About three days before the chicks are due to hatch, dust the hen thoroughly again.

#### When the Chicks Pip.

When the chicks begin to pip remove the old shells so as to give more room. Leave the chicks in the nest without food until the last hatch is twenty-four hours old, if possible to do so without making the first hatch over thirty-six hours old.

For the first feed give them hard boiled eggs chopped up with dry bread crumbs, also do not neglect the water in a shallow dish and have some coarse sand within reach. For six or eight feeds, which should be at least three and, much better, four times a day, keep them on the eggs and crumbs. Never feed raw meal. Make a baked cake or Johnny cake of sour milk and soda, corn meal and fine middlings with a little salt.

#### Feed for First Few Weeks.

Feed them on this entirely until a couple of weeks old, when they can be put on a three meal schedule with cake in the morning and pin-head oatmeal, fine cracked corn and small wheat for noon and night. Chick food, consisting of these grains with other small grains, can be obtained generally and is very convenient. A little meat must also be fed frequently. Often it is convenient to use animal meal mixed into the cake or boiled scraps ground up fine. A boiled beef's liver is cheap, easily chopped and excellent for the purpose.

Wheat should be a fair proportion of the feed when about a month old. Hulled oats and fine cracked corn are also good and should be fed proportionally. A critical point in the life of a bantam chick is the time when he gets his feathers. See that he gets plenty to eat and enough, although not too much meat at this point.

#### Some Important Points.

This I think covers the feeding in fairly good shape, but there are other important points. A chick must not catch cold, hence must not get wet and consequently must not get out in the damp morning. Keep them entirely off from the ground and on a board floor. After this allow them to take a little run in the middle of the day a short run at first, but gradually give them a longer time.

In every case always have them on a board floor at night until the sun is up in the morning. Too much run is disadvantageous, for in the first place it tends to make the chicks large and coarse and secondly the danger of cats, etc., is great. It is best to have a small yard totally enclosed with wire on top and board sides. Let them run in this most of the day with an hour or two at large.

#### Care of Maturing Stock.

When the chicks are about three months old separate the cockerels from the pullets. If at this time all the cockerels are put in a pen together they will get along without any troubles or battles for an indefinite time. This point is well worth looking after if one's coop room is limited.

#### Best Month for Hatching.

The question is often asked and discussed as to what is the best month to hatch bantams. We answer every time, June, better the first two weeks of June, no earlier, for if so the chicks grow too large, and no later than June, for the hot weather of July and August will make a sickly, peevish lot without exception.

#### The Absolute Necessities.

In closing this article we will emphasize a few points already mentioned and (Continued on Page 166.)



White and Rose Comb male Bantams. These little beauties are alert, graceful and deserving of the admiration they receive. Specimens herewith shown are New York, Boston and Pan-American winners, bred by Pollard Bros.



**GOOD EGG RECORD OF FLOCK OF WHITE WYANDOTTES.**

Rockville Centre, L. I., June 22, 1903.  
Editor Poultry Keeper.

As you request subscribers "to tell you something of their work" and state that "egg records are welcome," perhaps the enclosed record of twenty-three White Wyandottes may interest you. By way of explanation would state that No. 8 was three years old March 15th, 1903. Nos. 20, 11, 45, 48, 52 and 115 are well past two years old. No. 75 was hatched in the fall of 1901 and laid her first egg May 1st, 1902, having laid to April 30th, 1903, 231 eggs; since May 1st, 1903, to this date (June 21st, or 52 days) she has laid 41 eggs. In the year ending December 31st, 1902, No. 8 laid 204 eggs; No. 11, 245 eggs; No. 20, 164 eggs; No. 45, 179 eggs; No. 48, 167 eggs; No. 52, 201 eggs; No. 115, 240 eggs.

The balance whose numbers run from 402 to 490 are all of the hatch of 1902 and daughters of the hens enumerated above. Nos. 8, 11, 45, 48, 52, 75 and 115 have never been broody or showed any inclination to sit; Nos. 8, 11, 52 and 115 have laid continuously every month since February, 1902; Nos. 45 and 48 and 75 laid every month but one; of course they have been trap nested; all of my coops are fitted with the Ideal trap nest, which the attendant visits four times a day, namely, 9 and 12 a. m. and 2 and 4 p. m. The 12 and 4 o'clock visits are feeding time; the time consumed on each trip to the trap nests does not exceed fifteen minutes per trip.

grit. Twice a week pulverized charcoal is mixed in the mash and once a week oil meal. Beginning July first, oil meal is given three times a week to induce and assist in molting. At noon and evening Cyphers Scratch Feed is fed in the litter in the scratching pen. Each pen has a scratching pen well littered. The dropping boards are cleaned daily and fresh sand thrown over them. All coops, including scratching pens, have board floors which are kept covered with sand and cleaned twice a week (board floors and dropping boards prevent white fowls from becoming dirt begrimed and also prevent soiled eggs). The roosts are kerosened once a month and once in two months all fowls are dusted with Lambert's Death to Lice. We very rarely have a sick bird, but when one is noticed out of condition, she is penned in a coop by herself. All coops have a wire coop in the scratching shed, which is used to isolate birds not in condition and sometimes to coop an extra cock.

The twenty-three birds mentioned in the record are in two pens, the older birds with two of the oldest pullets in one, mated to two sons of 115, which are alternated in the pen every third day. The pullets are mated to a son of No. 11 and this hen is in the same coop, thus my two best layers are mated to their own sons with a view to intensifying the egg laying characteristics in their progeny.

We frequently read in poultry papers articles ridiculing the idea of the two hundred eggs per year hen, and I have wondered if the persons who wrote them stopped to consider that it only requires

knowing whether the hen whose eggs he sets laid one egg in a month or more. I believe the egg laying qualities of any fowls that are thoroughbred, by persistently choosing the eggs of the best layers as shown by their trap nest record, and mating to cocks whose mothers were persistent layers, can be improved up to a certain limit, but it requires what any and every successful business does, namely, method, care and persistency, and if these latter requisites cannot be bestowed then don't blame the hen if she is not a money maker, as a hen certainly is not if she has to be fed ten days to get four or less eggs.

Wm. H. Bates,  
Proprietor Oceanside Poultry Yards.

**EGGS SHIPPED OVER 2,000 MILES.**

Poultry Keeper is in receipt of a letter from Arthur F. Hartmann, of Nappanee, Ind., inclosing a report from one of his egg customers in British Columbia. The report shows a splendid hatch, considering the hard knocks to which the eggs were put. The letter is as follows:

Galena, B. C., May 25, 1903.

The chicks hatched on the morning of the 22nd of May. Out of the fourteen eggs I have five chicks and they are beauties—as hardy as any I ever hatched. There wasn't a chick in any of the other eggs. They were all rotten, yet I consider this a remarkable hatch, considering the eggs were nineteen days and nights on the road and were shipped from Nappanee, Ind., to Golden, British Columbia, west of the Rocky Mountains, a distance of over 2,000 miles.

After they arrived in Golden they were taken on a lumber wagon from the C. P. Ry. station to the steamboat wharf, over a mile on a rough corduroy road, and to top the climax they were not put off at my landing, but went up to Galena Landing, a distance of five miles from where I live. A kind-hearted neighbor, knowing that I was anxious to get the eggs, threw the saddle on his horse, put the basket containing the eggs on his arm, and galloped up to my place with them. Of course I thanked him, but as the Frenchman would put it, "I think dam," as horse motion is about the worst that an egg can get.

The chicks I have from those eggs are very even and uniform. I consider them as near perfection as it is possible to get them. They were strong in fertility as the chicks fairly rolled out of their shells. I inclose money for another sitting.

Thomas F. Pirie.

Get all bantam chicks hatched before the middle of August. Depend on small breeding birds to keep the size required, rather than stunt your chicks through late hatching. Birds that are not near maturity when cold days come to stay are seldom worth much for eggs or breeding.

The poultry shows next winter will be better attended than ever before and may be of help to lovers of good poultry. If you are near a local poultry association, better join and help along a good thing. Plan to show a few birds. The small score card shows will teach you something regarding your birds, if you will enter them.

| Number Hen. | Eggs Laid From June 1st to 16th 1903. | Since.         | Total Eggs Laid. | Laying Percentage. | Remarks.                                                                 |
|-------------|---------------------------------------|----------------|------------------|--------------------|--------------------------------------------------------------------------|
| 8.....      | 10                                    | Jan 26th.....  | 86               | 61 per cent.       | 62½ per cent.<br>3 years old March 15, 1903, foundation birds of strain. |
| 11.....     | 9                                     | Jan. 1st.....  | 84               | 50 per cent.       | 56½ per cent.                                                            |
| 20.....     | 11                                    | Jan. 22d.....  | 97               | 67 per cent.       | 68¾ per cent.                                                            |
| 45.....     | 12                                    | Jan. 21st..... | 95               | 65 per cent.       | 75 per cent.                                                             |
| 48.....     | 11                                    | Feb. 8th.....  | 90               | 70 per cent.       | 68¾ per cent.                                                            |
| 52.....     | 11                                    | Jan. 25th..... | 98               | 69 per cent.       | 68¾ per cent.                                                            |
| A 75.....   | 14                                    | Feb. 1st.....  | 96               | 70 per cent.       | 87½ per cent.                                                            |
| 115.....    | 13                                    | Jan. 13th..... | 97               | 62½ per cent.      | 81¾ per cent.                                                            |
| A 402.....  | 7                                     | Jan. 1st.....  | 89               | 53 per cent.       | 43¾ per cent.<br>Set for 3 weeks; chicks taken from her.                 |
| 408.....    | 12                                    | Jan. 1st.....  | 107              | 64 per cent.       | 75 per cent.                                                             |
| 410.....    | 12                                    | Feb. 1st.....  | 94               | 69 per cent.       | 75 per cent.                                                             |
| 415.....    | 13                                    | Mch. 1st.....  | 68               | 53 per cent.       | 81¾ per cent.                                                            |
| A 416.....  | 11                                    | Dec. 30th..... | 112              | 66 per cent.       | 68¾ per cent.                                                            |
| A 418.....  | 11                                    | Jan. 6th.....  | 99               | 55 per cent.       | 68¾ per cent.                                                            |
| 419.....    | 12                                    | Mch. 16th..... | 77               | 83 per cent.       | 75 per cent.                                                             |
| 424.....    | 12                                    | Mch. 1st.....  | 81               | 75 per cent.       | 75 per cent.                                                             |
| 425.....    | 12                                    | Mch. 15th..... | 69               | 73 per cent.       | 75 per cent.                                                             |
| A 435.....  | 12                                    | Mch. 25th..... | 56               | 67 per cent.       | 75 per cent.                                                             |
| A 436.....  | 13                                    | Jan. 27th..... | 86               | 61 per cent.       | 81¾ per cent.                                                            |
| A 437.....  | 12                                    | Feb. 3d.....   | 96               | 72 per cent.       | 75 per cent.                                                             |
| 442.....    | 14                                    | Feb. 1st.....  | 98               | 72 per cent.       | 87½ per cent.                                                            |
| A 460.....  | 12                                    | Nov. 25th..... | 132              | 65 per cent.       | 75 per cent.                                                             |
| A 490.....  | 11                                    | Mch. 17th..... | 58               | 63 per cent.       | 68¾ per cent.                                                            |
| .....       | 267                                   | .....          | 2056             | .....              | .....                                                                    |

Average per hen, 89 9-23; average number days per hen, 137; average number eggs per day per hen, 15-23; average laying percentage of the lot, 65 5-23 per cent; average per hen first sixteen days of June, 11 14-23; laying percentage of the lot first sixteen days of June, 69 per cent. Those marked "A" are daughters of 115; those numbered in the 400's are pullets. The figures in the left hand column show the laying percentage for the first sixteen days of June.

Now as to feed and care: Mash is fed in the morning, comprised of oat clover, H. O. poultry feed, beef scraps and fine

a hen to lay a little oftener than every other day or fifty-five per cent of the year "to do the stunt," thus leaving one hundred and sixty-five days or five and a half months for molting, weather influence and breeding.

I believe that there are more hens in this country that lay less than forty per cent than there are that lay more, but the fault is not in that hens are not constituted to lay more than forty per cent, but it is because they are not bred and cared for to do so. Too many chicks are hatched from hens with "any old record," and in most cases without the owner



# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## POULTRY BUILDINGS—MID-SUMMER WORK.

Dr. N. W. Sanborn, Bellingham, Mass.

**T**HIS is the time of year when the sound of the hammer is heard all over the land. The new poultry plant, the enlargement of the old, calls for plans for buildings. Mid-summer is the time to do building for housing hens. The summer built house gets well dried off before the shut-in days of the year cause the closing of windows and doors. Also the covered building keeps off much of the wet that otherwise would soak into the dirt floor. A dry sub-soil and well seasoned lumber will help wonderfully toward healthy winter poultry. Too many late fall built houses are breeding places for roup and "colds," sometimes diphtheria. A damp house is never safe for shut-in poultry. Get to work, then, if you intend to build this year. At least frame and roof your building, even though the inside work is put off to the fall months.

### The Plainer the Better.

The plan of house should be well considered. Too many houses have been built and then found to be unhandy, if not unhealthful. There was a time when the slant front house was quite common, but most of them have been rebuilt with straight walls that shed water. All doors and windows should be perpendicular. A window or door that is not "up and down" is always leaking and the floors under them are seldom dry.

The modern house is very plain. The less it is cut up with inside fixings the easier it is to keep clean and free from vermin. It should be high enough to get about without hitting the head against the rafters. At the same time do not make it any higher than needed. Hens like a low-down roof, but the owner should take his comfort into account. There is no house that is perfect for all seasons and all kinds of weather. Either it will be too cold in winter or too hot in summer. The best we can do is to plan for the disagreeable months of the year.

### A Tried and Proved Plan.

My experience of fifteen years in poultry building has taught me some severe lessons along housing lines. As the result of all this, I had a chance last summer to put in practice my lessons in house building. Moving to a new place where there were no poultry buildings, I had to plan for winter housing. As the results of that plan have been so satisfactory, winter and summer, I offer my

house as a good one to pattern after.

These houses are eighteen feet long and twelve feet deep, six feet high in front and four feet in rear. The roof is double, the slant up from the front is four feet to the peak, and the rear slope of the roof is twelve feet. The frame is 2x3 spruce, the covering is inch pine boards. The ends, rear and roof are made tight with two-ply tar paper roofing. The front is covered with red rope paper. This gives a house that is not only dry, but free from draughts.

### The Inside Arrangement.

The building is divided into three pens, each six by twelve feet. The partitions are boarded up three feet, with wire to the roof. All light is in the front of the house. Single sashes are used. These are made up of six (9x13) panes of glass. These sashes are placed side by side, one in the first pen, two in the middle pen and one in the third pen. There is about six inches of space between sashes to allow for framing and partitions. These sashes are hinged to swing in against the partitions. The windows are high up, only a single board being between the sash and the roof.

There is a wall of three feet below the bottom of the windows. The pens are flooded with sunshine in the cold days of winter, the windows open wide at mid-day give a scratching shed house, and closed at night make as warm a roosting room as one could ask for. In warm weather the windows are hooked back, out of the weather, and all the openings are free to let in the fresh and let out the hot air.

### The "Furnishings."

Eighteen inches from the dirt floor is the droppings board. Ten inches above this are the two roosts. Underneath the droppings board are two nests—made of orange boxes, on their side, a strip of narrow board keeping in nest material, and the open side turned to rear of the building.

The doors between pens are hung with spring hinges, closing of themselves when you have passed through. The outside door is in the east end, made as high as the building and wide enough for a wheelbarrow to go through. There is a matched door for winter and a wire door for summer weather. With the sashes all open and the wire door in use, I find the house quite comfortable in the heat of summer.

The building was set up on stones so

that it took a foot of dirt to fill up to the bottom of the flooring. This made a dry dirt floor that the birds early began to use for dusting purposes. The day droppings worked into this dirt nicely, keeping the air of the house sweet all winter. Three inches of this earth is removed each spring and spread in the garden for fertilizing purposes.

### A Self-Feeding Hopper.

A water dish of granite ware, a feed trough for mash, and a self-feeding hopper, complete the furnishings of the house. This hopper is worth a moment's consideration. It has four compartments, each holding over a quart, is made of wood, and hangs on the wall of the partition. In these compartments, I put grit, bran, meat scraps, and oyster shells. These articles are before the birds all the time and they balance up their own ration as they please. I feed a mash in the noon hour and grain at roosting time, but otherwise they eat as they please. This four compartment feed bin is a great advance in getting winter eggs and should not be left out in the building of your new house this summer.

### Materials and Capacity.

The materials you make your house of can be anything that will give you a building that is dry, warm and easy to work in. In the long run, a well-built house is most satisfactory. However, do not put any money in to "frills." A plain, simple, comfortable, well-built house is what you need. Such a house as I have been telling you about will accommodate nearly forty birds in winter. I keep in each pen twelve hens and a male and they have done good winter laying and remained in fine health.

The shut-in months call for scratching material in the pens to induce exercise, and the house is well adapted for this. Each pen has its small door into a large yard for runs. The middle pen has a yard the length of the house, while the end pens have yards beginning at the back of the house and running forward to the same line as the middle yard. This plan gives large yards, quite a help in working for a large egg yield.

The nearer you come to having a house that is made up of simple rooms, covered to keep out wet and wind, sunny yet warm, so planned as to be kept free from lice and mites, the more successful you will be in your poultry endeavors.

Whether you build a single pen house or one of twenty pens, let it be along tried and proved plans. The long house is nice for the poultryman in winter weather, but is most unsatisfactory when disease has got a start in your flock. Better three houses, of three pens each, than one house of nine pens. However, build early, build for the future, build well, and you will thank me, some time, for presenting "ideas" rather than a cast-iron plan for you to follow.

Feather pulling is one of the worst vices a hen can have. Catch the guilty ones that do the feather eating, take a sharp knife and trim the edges of the beak, and feed plenty of fresh meat. They generally begin by picking the combs and wattles of the cockerels and making them bleed: the blood gets on the feathers around the neck, and then the hens eat the feathers by plucking them from each other.



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

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Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, EDITOR. { Associate Editor, { DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR  
AND VOLUME.

JULY 15, 1903.

NUMBER 4.

## ECONOMY IN POULTRY MATTERS.

We all like to get a bargain. We all are pleased at getting a certain result at less cost than our neighbor. This is all right. At the same time we must be careful that we are really doing the best for the future. The present is short, with the future at our door.

Let us illustrate. We are tired of the mongrel birds we have been raising in past years, and decide to turn to pure-bred stock. We write to half a dozen breeders for prices on a pen of birds and buy, without any special thought, the lowest priced lot offered us. This may be a bargain, but is likely to be a hindrance in our work for better things. A good start means quick results. A little more money invested at the outset will sooner bring you to the top.

Again. You are buying wheat for your poultry. Your dealer calls your attention to some that he tells you is all right for poultry. It is a little smoky, burned, not sweet to the smell, but good for your purpose, so he tells you, and cheap! A bargain! Is it? Let us see. You can buy it for twenty cents a hundred pounds cheaper than the best white wheat. Twenty cents saved on every hundred pounds! Wait. The best wheat has fifty per cent more feeding value, and in the use of it the birds do not run the danger of sickness from spoiled grain, or have to run through them musty food. No. Cheap grain is not best, even though we are working for economy.

The same idea holds good in other articles that we have to buy for our poultry work. Cheap wire fencing, cheap because it is made of too fine wire or poorly coated material, soon wears out and is not economy. Meat meal or scraps may be cheap because they are not worth more, or low in price because only fit for fertilizer.

After all, that article is cheap only when we can see a profit in the use of it. A high priced food returning a large profit is cheaper than a lower cost article

just keeping the bird in fair working shape.

In spending our money along poultry lines, let us use thought that we may truly save money, not so much in the spending as in the larger returns from the same amount of time and effort. Labor is the great expense in poultry keeping—that is time—so let us not burden ourselves too much by economizing along lines that will bear a generous outlay.

N. W. S.

## SUCCESS WITH POULTRY.

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry will help you.

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Success With Poultry contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

Feed all birds that you are getting ready for market all the corn and cornmeal they will eat, for two weeks before killing. Do this yourself and get paid for the extra weight and better quality.

## THIS IS PRACTICAL WORK—AND IT PAYS.

Editor Poultry Keeper.

I often read in poultry magazines the advice to never put more than thirteen eggs under a sitting hen for good results, I have always put from fifteen to seventeen eggs under each hen and nearly always get good hatches.

During the spring and summer of 1902 I set nineteen hens. I gave each hen sixteen eggs and got an average hatch of eighty per cent all the way through. This year I set twenty-five hens and got a seventy-five per cent hatch for all. I use a building for my sitting hens large enough for thirty sitters at one time; keep them shut up during the hatch, and use for nest boxes, common soap boxes, uncovered except while hatching. I set them in batches of two and three, as they become broody. They often change nests while hatching, but that does no harm as far as I can discover.

I seldom ever visit them more than once each day and that after sundown, then I put in fresh water, see that they have feed, take out any chicks that may be ready to move, set other hens, etc.

My flock of one hundred Barred Plymouth Rock hens laid an average of one hundred and twenty-four eggs each, without meat or bone in 1902, only a half feed mash in morning of bran, middlings, and corn meal, with boiled potatoes sometimes added, and then plenty of ear corn chopped up, fed enough to last all day. They get plenty of green stuff at all times. They have unlimited range, all run together in one flock, with one rooster to about every fifteen hens and all roost in a 10x20 hen house, with a feed shed attached.

I use plenty of Lambert's Death to Lice Powder on the sitting hens. So with very little labor, trouble or expense I get a good profit. I keep crushed oyster shells and bran before them always. I always keep pure-bred Barred Plymouth Rock roosters. I believe I could get a much larger egg yield from this flock by giving them more expensive feed, such as cut bone, meat, and by giving them more time and labor, but the profit would be less.

J. E. Joyce.  
Annandale, Va.

## SLOBBERS IN HARES.

Editor Poultry Keeper.

I notice in the June issue of Poultry Keeper that S. S. M., Grand Junction, Colo., has trouble with slobbers in hares. In my experience some arrow root put in their drinking water is the only sure cure. I lost only three out of two hundred young this season. The great trouble is over-feeding. Green grass is all right if not given wet. Will cheerfully give full particulars in any line to any one wishing same.

J. W. Eastes.  
Galesburg, Ill.

The well-known home and fashion magazine, The Designer, published by the Standard Fashion Company of New York City, has been reduced in price from \$1 to 80 cents a year. The great aim of The Designer is to help women along all practical and beautiful lines, by gathering for them and giving them the fullest information on all fashion and domestic matters.



**BUILDING UP AN EGG FLOCK.**

**Plans That Enter Into the Work—Native Good Sense vs. Non-sense—The Egg Flock and the Breeders.**

By F. O. Wellcome.

PART III.

I HAVE purposely made these papers a little disconnected on account of the season. There is something here for any reader to apply at the very point where he may be. We should all endeavor not to make the too common mistake of thinking that our own poultry yard fence bounds the poultry universe. No two flocks, no two hens, no two poultry keepers are exactly alike. The differences are often very great. A little introductory talk about the growing chicks will be timely for the beginners and then we will skip to the breeding pen again. The question of breeding is always timely.

**The Ration.**

It is a grand good idea to plan ahead. We will give the chicks more room before they need it. We will not get the idea that everything depends upon such an exact proportion of this thing or that thing that we must fuss all day and think all right about balanced rations, etcetera, etcetera.

I have no grudge against balanced rations, or balanced methods, or balanced intellects, or balanced anything else, but to the novice I want to say: Figure out a ration, or have some experienced person—or perhaps, better yet, an expert—figure it out for you once and for all and then worry no more about it. If native good sense suggests mild modifications in the ration upon occasion change it accordingly, but don't worry about it. The chances are ten to one that when an over-anxious novice begins to monkey

with rations he will go from bad to worse until he actually succeeds in concocting a composite food formula that might in time have some effect on the birds—to their injury.

**The Harmful Sloppy Messes.**

We will not feed sloppy messes, or corn meal dough or bran slush, of course, for all the advice given in this magazine is against that. It is to be hoped that our young stock will be so maintained that they will be comfortable day and night, be busy scratching and hunting for bugs and worms part of the time and resting and wallowing in cool soil during the hottest portion of the hot days, coming out with a skip and a jump and a flapping of wings in the morning and not overly anxious to go to bed early.

**What to Do With the Runts.**

If some of them seem to take a too serious view of life and have a morbid uncertainty as to the best leg to stand on, or the best wing to put the head under, or the best place to mope in, or keep up that insistent peep, peep of distress, we will conclude that their early death will be a relief to the birds and to us and will act accordingly. It will not pay to fuss with sick or half-sick chickens or runts. They will never amount to enough to pay in eggs or vitality for the trouble of bringing them up even if they appear to come out all right.

**Get After the Lice.**

If they are "lizey," as some say in England, and all that is needed is to get

rid of the lice, we will do that; but I confess that I do not know much about lice on chicks. We intend to look out for that when setting the hens and when the chicks hatch under the hens, and let it go at that. Chicks hatched in incubators, reared in brooders, and kept away from adult birds and their quarters will not have lice.

I believe, however, that when the sitting hens and their newly hatched broods are not properly looked after there is great danger that lice will obtain the

**FOR SALE**

ROSE COMB BUFF ORPINGTON Cockerel. "Ivanhoe," winner of 1st at Saxelby, Lincoln and Bradston, England. Imported April, 1903. Buff throughout, magnificent size. Also litter Scotch Collie pups.

THOS. H. MILLS, Port Huron, Michigan.

**PERSISTENT LAYING**

Do you want a cockerel from a dam that laid 107 EGGS from January 15 to June 15 and was never broody? The sire of these cockerels is a son of Vulcan, 1st cock

...BOSTON, 1902...

**WINSLOW'S BARRED ROCKS**

Will please you if you want choice stock. My address is A. P. WINSLOW, Box 1334, Freeport, Me.

**What's Yours?**

**EGGS-KUM**

Makes the eggs come, and makes the hens moult in a hurry. Also makes the little chicks

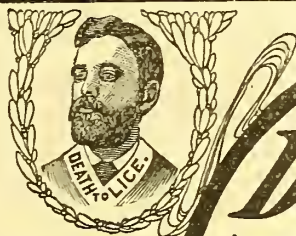
grow fast. *Positively no reactionary effect* Strongest Poultry Powder in the world. Price 25c.; by mail, 31c. Agents wanted everywhere.

ROUPINO CURES ROUP. Price 50c. Postpaid. Agents wanted everywhere. RELIABLE REMEDY CO., 188 Washington St., N. Y. City. and Union Stock Yards, Chicago.

**BARRED PLYMOUTH ROCKS**

Young birds doing well. Will have nice ones to sell soon.

RALPH BRYSON, IOWA FALLS, IOWA.



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**Lambert's Death To Lice Powder**

is one of the very few things that will kill lice and not injure the hen, eggs or little chickens. It has been on the market for twenty years and has steadily grown in favor and popularity. It must do good work or poultry keepers would not buy it year after year. It is also invaluable for lice on Horses, Cattle, Sheep, Hogs or Plants of all kinds. We have hundreds of testimonials as to its efficacy.

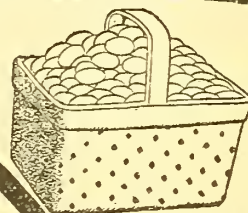
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mastery and spoil the whole business. Those who have made a special study of lice and their evil effects upon poultry probably do not over-estimate the importance of keeping the stock reasonably free from them. I have lost chicks and mature birds that I doubt not were unable to withstand the attacks of lice or mites although some of their more vigorous mates were, and ultimately developed into 200-egg hens, so-called. All practical measures for destroying lice and mites are commendable, but here, as in other matters, "an ounce of prevention is worth a pound of cure."

#### Rounding Up the Egg Flock.

We will have our winter quarters all clean and ready for use before we need them, and then get the vigorous, healthy pullets into them early so that they will feel perfectly at home before it is time for them to lay. We will get rid of the others. It will not pay to fuss with them. The cockerels were separated from the pullets before they became too troublesome, and a few of the most promising given a good chance to grow and develop into good breeders. The rest were confined and fattened and sold early for what they would bring. So much for that.

Egg flocks are usually maintained in pens of twenty-five to one hundred and fifty head. Probably fifty or sixty are about as large a number as it is advisable to pen together as a rule. I have sometimes left the doors open between the pens in a continuous house and let one hundred and fifty or more birds run together. The advantages seemed to be more than offset by the disadvantages.

#### Cost Vs. Output.

The cost of housing per head is one of the important factors to consider with an egg flock and one that egg farmers do consider; but the laying ability of each and every female that we house and feed is worthy of more consideration than some give it. The number of eggs taken out of a house for a given quantity of food taken into it is of more importance than the number of birds that we can keep in it.

I recently figured out the number of hens required to produce 1,000 eggs in one year taking for a basis two egg records given in Commercial Poultry and some of my own. They varied from eighteen and one-half hens in one case to five hens in my own pens. This is not claimed to be a fair comparison for I selected ten of my heaviest layers to put against forty-four common hens that were probably all lumped together, good

and bad; but egg production is not regularly proportional to the number of hens kept. It depends in a very great measure upon the quality of the birds and the system of breeding and maintenance employed.

#### Haphazard Methods.

Probably a very large proportion of poultry raisers, take them as they run, use their entire flock as breeders. They perhaps "force" the whole bunch for eggs during the fall and winter and then in the spring use for hatching the eggs from the general lot with no knowledge of, or regard for, the individual birds that laid them. That is haphazard breeding, if setting eggs with no regard to their exact origin can be called breeding.

If the truth were known, it is more than likely that we would find that most of the best layers and most of the best

show birds are bred on the small town and city lots, where the entire flock is small and entirely made up of select individuals. There is no sane reason under the sun why any person who keeps hens and rears chicks cannot maintain at least one special breeding pen consisting of birds specially selected for some specific purpose and fed and cared for with an eye to their use as breeders from whose eggs the entire flock shall come.

The poultry keeper who cares for, or neglects, his entire flock through the winter in such a manner that the fertility of the eggs and the stamina of the chicks is good in the spring usually fails to get as good an egg yield during the winter as he ought to get. If they are pushed for eggs and respond with a large output during the winter, the spring hatching operations are likely to be more

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or less unsatisfactory; either by reason of low fertility or low vitality and consequent loss of chicks. I believe that this rule will hold good with most ordinary operations.

The average farmer's flock gives him eggs in the spring, almost every one of which will hatch a lively chicken, but the average farmer's flock does not produce many eggs in the winter. Successfully pushing the entire flock for eggs in the winter means that the spring hatching will be accompanied by considerable loss and what strong chicks do hatch will be more than likely to come from the poorest layers that failed to respond freely to the winter forcing.

**Special Breeding Pens.**

If the entire flock is not so fed and cared for that they lay freely during the winter the consequent gain in fertility of eggs and vitality of chicks will be at considerable unnecessary expense. For these several reasons the special breeding pen or pens appear to me to be an economic necessity where an abundance of winter eggs are desired and successfully worked for. The general flock can be maintained for eggs, but the special birds should be treated in such a manner during the months immediately preceding their use as breeders that they can transmit all of their own good qualities to their offspring through a large percentage of strongly fertilized eggs.

With an adequate installation of suitable trap nests the best birds in the general flock can be discovered, a record kept of them, and they can be bred from right where they are; but all of us are not the fortunate possessors of practicable trap nests. Those who do have them can easily select the birds that they wish to breed from, after they have proved their worth, and pen them by themselves with one of more select breeding males.

Moving pullets about from pen to pen just before they are ready to lay will often, probably usually, retard laying. This is said to be one of the expedients of the fancier who does not wish certain pullets to lay until after the shows or until the breeding season. My experience has been that moving the persistent layers after they were well started in laying had no such effect, as a rule. My No. 200 laid two hundred and thirty-six eggs last year, yet she was moved into another pen with strange mates and sur-

roundings (same kind of nests) several times right in the midst of her laying, with no ill effects that I could see. I should never hesitate a moment to move my best layers at any time that it suited my convenience or objects. Of course, yards are connected with all my pens, so birds that are moved stay moved.

**Keeping Classes in Bunches.**

Separating birds of different qualities and characteristics so that each pen will comprise individuals of approximately uniform tendencies would seem to be of great importance and advantage with any large flock. They can be fed and cared for more understandingly and more economically. They can be handled better in many ways. When a certain kind of bird is wanted for market or anything else we would know just where to find it.

Another way is to select a goodly number of the most vigorous, best developed, and, if desired, best marked pullets in the fall, pen them together, test them with trap nests, or in some other way if there is another way, remove those that

do not begin to lay when fully matured—or, rather, when they ought to begin, as they do not fully mature until their second year. Also remove any that continually lay unsatisfactory eggs or develop any qualities that unfit them for our purpose.

**The Laying Period.**

We cannot, ordinarily, expect a hen to lay during more than nine months of the year, not reckoning time lost through broodiness. A little figuring will show how many eggs a pullet must average per month to give one hundred and twenty-five to one hundred and fifty eggs in nine months, to say nothing of two hundred. I can see no particular sense in keeping and feeding birds that will not be profitable either as producers or breeders, unless a certain definite number are retained especially for sitting purposes, they having shown that they possess that quality. A good sitting hen is of value and is worth the price of the eggs that she does not lay, provided she is used for incubation. Persistently broody hens

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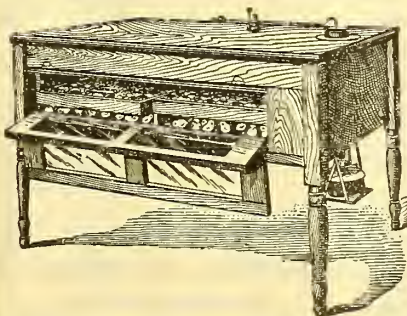
will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

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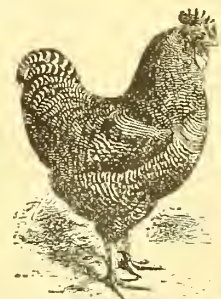
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are an unprofitable nuisance when we have no use for them.

Without calling into question the value of vigorous, well developed pullets as breeders when they have not been allowed to lay too freely during the winter, I should not be just to my subject or myself if I failed to endeavor to impress upon my readers the fact that hens in their second and third years make much better breeders than pullets, as a general rule. During her first year the pullet is on probation, so to speak. We can give her every practical opportunity to prove what she is and what she is willing to do on a rational and sufficient ration. The next winter those that have proved themselves worthy can be so treated that they will be likely to give good eggs, well fertilized and plenty of them in the breeding season. I have yet to hear of any one having any difficulty in getting plenty of good, strong chickens from vigorous hens when they were treated in this manner and properly mated.

The 200-egg pullet, when the attempt is made to breed from her in the midst of her record-breaking effort, is usually a very unsatisfactory proposition.

(Concluded in August.)

Dry feeding for chicks is proving to be a good idea. Many are following this plan, more will do so next year. It is less trouble, the death loss is less, the growth of the chicks is more rapid, and taken, altogether, is a move onward in poultry progress.

WORTH A LIFE MEMBERSHIP.

Editor Poultry Keeper.

Enclosed find money order for renewal subscription to your excellent poultry journal. The more we read it the better we like it. The May number contains the best article—"One Man Poultry Plant for a City Lot"—that I ever read upon the subject. It is very sensible, to the point, practical and thorough business throughout. That kind of advice is worth money to the beginner. To a person just going into the business the illustrations alone are worth a lifetime subscription.

C. H. Houghton.

Laketon, Pa.

Will you please tell your friends who are interested in poultry about Poultry Keeper, or better still, send us their names and addresses and let us send sample copies. Poultry Keeper claims to be the most practical and helpful paper published for those who are interested in making poultry pay.

Do good work with the breed and variety that suits you. Do not change your special variety unless it is surely best to do so. Be known as a specialty breeder. Life is too short to get a reputation as a breeder of ten varieties. Keep one variety and that the best—for you.

The liquid louse killer is a good thing. It does better work than kerosene, because its vapor kills lice when way up

among the feathers. Hens cannot do their best work when irritated by lice or bled by red mites. Vermin must be kept under control.

Look into the nests of the laying hens these summer days. Look under the nest material for breeding spots of the red-mites. Often you will find a thousand of the "red things" bunched together. If the box is badly infested, burn it with its contents. This is cheaper than lice paint, and is sure death.

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|-----------------|--------|
| 250, No. 4..... | \$1.00 |
| 500, " 4.....   | 1.25   |
| 1000, " 4.....  | 1.75   |

| ENVELOPES.       |        |
|------------------|--------|
| 250, No. 6½..... | \$1.25 |
| 500, " 6½.....   | 1.75   |
| 1000, " 6½.....  | 2.75   |
| 250, " 9.....    | 2.00   |
| 500, " 9.....    | 3.50   |
| 1000, " 9.....   | 5.00   |

| BILL HEADS.        |        |
|--------------------|--------|
| 250, Size 6x9..... | \$1.60 |
| 500, " 6x9.....    | 2.00   |
| 1000, " 6x9.....   | 2.80   |

| LETTER HEADS.        |               |              |
|----------------------|---------------|--------------|
|                      | 10-lb. Paper. | 12-lb. Paper |
| 250, Size 8½x11..... | \$1.90        | \$2.00       |
| 500, " 8½x11.....    | 2.50          | 2.75         |
| 1000, " 8½x11.....   | 3.75          | 4.25         |

| NOTE HEADS.        |              |             |
|--------------------|--------------|-------------|
|                    | 6-lb. Paper. | 7-lb. Paper |
| 250, Size 6x9..... | \$1.50       | \$1.60      |
| 500, " 6x9.....    | 1.85         | 2.00        |
| 1000, " 6x9.....   | 2.60         | 2.80        |

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## FOOD AND FOOD VALUES.

By Rev. Edgar Warren.

**R**EADERS of the poultry and agricultural press are continually coming across expressions the meaning of which they but dimly comprehend. They read of "narrow" and "wide" rations, "proteids" and "carbohydrates," "concentrates" and "coarse foods." All this in most cases is so much Greek. I have talked with many intelligent poultry keepers, but have rarely found one who could tell why he fed as he did, apart from the fact that his ration had justified itself in experience. And yet a little knowledge of the elementary principles of scientific feeding may be of great value. It will enable a man to feed more economically, as he can often substitute for a high priced food one much lower in price, and also to feed so that he can secure the results he is after without loss of time or waste in any way. It is my purpose in this paper to make the matter of foods and feeding so simple that any one can understand it.

### Proteids—Things That Build Up.

The food that is eaten has three functions to perform. The first is to build up. In the animal body a process of waste and repair is continually going on. Old tissues are breaking down and being replaced by new ones. It is evident that if an exact balance is to be preserved considerable food must be eaten.

But besides this process of waste and repair another process may be going on—that of growth and manufacture. In the chick, for instance, the frame is being built up rapidly, the feathers are coming out, and the flesh and muscles receive their daily increment. In the laying hen the egg is being formed.

Now there are certain elements in the food that is taken that go to repair the waste and build up the body; they also enter largely into the manufactured product—the milk of the cow and the egg of the hen. These elements are called proteids. They are absolutely necessary to the life and health of the animal, and must be furnished in sufficient quantities or decay and death will ensue.

### Carbohydrates—Things That Warm Up.

Besides building up food is required for another purpose—to warm up. The temperature of the human body is 98 degrees; that of the hen's body, 103 degrees. To maintain the temperature of the body food must be burned in the stomach just as coal is burned in the furnace. You have all noticed on a cold day in winter how difficult it is to keep the temperature of a room up to 70, and how much fuel is required to do it. And yet the temperature of the body must be kept 28 degrees above this, or the result

will be a chill, from which we may never recover.

There are certain elements in the food that go directly to the production of heat, and these are called carbohydrates. They include sugar, starch and gums (sometimes called "nitrogen-free extract") and the cellulose or fiber (the coarse or woody part of a plant). We sometimes read that the farmers in Kansas and Nebraska, in years when the corn crop is excessive, use ears of corn for fuel; and that is precisely what we do when we feed corn to our hens in the winter. The corn is the fuel which the hen burns to maintain the temperature of her body at 103. Such being the case, the importance of a warm, snugly-built house to keep down fuel bills becomes at once apparent.

In a well conducted manufacturing establishment here in the east the fuel that is burned serves a double purpose. It

not only generates the steam that warms the building, but it also produces the steam that drives the machinery. Perfectly analogous to this is the service rendered by the food elements that we denominate carbohydrates. They not only keep the body at a proper temperature, but they also furnish the energy by which the work is done.

### Fats—Things That Are Stored Up.

The careful and prudent head of a household is not content to "live from hand to mouth," as the saying is. He does not buy his coal from day to day, his flour a few pounds at a time, and his vegetables as he needs them to use. On the contrary, he has a well stocked cellar, in which are enough supplies to last for some time. The thrifty wage-earner does not spend quite all he earns, but saves a certain amount each week which he deposits in a savings bank or invests in life insurance. Nature, our thrifty mother, is not content that her children should live from day by day; so she lays by a reserve from which they can draw in time of need. This reserve is the fat which she wraps around the tis-

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TABLE SHOWING COMPOSITION AND VALUATION OF PRINCIPAL FOODS.

| FOOD STUFFS.                    | COMPOSITION. |      |          |        |                        |      | Valuation. |
|---------------------------------|--------------|------|----------|--------|------------------------|------|------------|
|                                 | Water.       | Ash. | Protein. | Fiber. | Nitrogen—free Extract. | Fat. |            |
| <b>PROTEIN FOODS.</b>           |              |      |          |        |                        |      |            |
| Cottonseed Meal.....            | 7.0          | 6.5  | 45.4     | 6.1    | 24.5                   | 10.5 | 1:1.0      |
| Cleveland Flax Meal.....        | 9.0          | 5.3  | 38.3     | 8.8    | 36.2                   | 2.4  | 1:1.1      |
| Linseed Meal (new process)..... | 9.0          | 5.5  | 36.9     | 8.9    | 37.2                   | 2.5  | 1:1.1      |
| Linseed Meal (old process)..... | 8.5          | 5.2  | 34.6     | 8.6    | 36.8                   | 6.3  | 1:1.5      |
| Chicago Gluten Meal.....        | 9.5          | 1.0  | 37.2     | 2.2    | 47.9                   | 2.2  | 1:1.4      |
| Cream Gluten Meal.....          | 9.0          | 0.9  | 34.3     | 2.2    | 51.6                   | 2.0  | 1:1.6      |
| Biles XXXX Grains.....          | 8.0          | 1.8  | 34.7     | 13.6   | 31.4                   | 10.5 | 1:1.6      |
| Malt Sprouts.....               | 11.0         | 5.8  | 27.1     | 11.9   | 42.6                   | 1.6  | 1:1.7      |
| Dried Brewers Grains.....       | 8.0          | 3.8  | 23.1     | 10.8   | 49.4                   | 4.9  | 1:2.1      |
| Wheat Middlings (flour).....    | 10.0         | 3.2  | 19.4     | 3.2    | 59.4                   | 4.8  | 1:3.1      |
| Wheat Middlings (standard)..... | 10.0         | 4.3  | 18.1     | 7.0    | 55.6                   | 5.0  | 1:3.7      |
| Mixed Feed.....                 | 10.0         | 5.3  | 17.1     | 8.4    | 54.6                   | 4.6  | 1:3.8      |
| Wheat Bran.....                 | 10.0         | 6.2  | 16.2     | 10.1   | 53.1                   | 4.4  | 1:3.9      |
| H-O Dairy Feed.....             | 8.0          | 3.6  | 18.3     | 12.7   | 53.4                   | 4.0  | 1:3.4      |
| <b>ANIMAL FOODS.</b>            |              |      |          |        |                        |      |            |
| Beef Scrap.....                 | 1.3          | 8.0  | 58.0     |        |                        | 32.9 | 1:1.3      |
| Pork Scrap.....                 | 0.8          | 2.2  | 57.4     |        |                        | 39.6 | 1:1.6      |
| Dried Blood.....                | 6.7          | 6.6  | 65.1     |        | 5.3                    | 16.3 | 1:0.6      |
| Green Bone.....                 | 6.9          | 24.5 | 22.3     |        |                        | 16.5 | 1:1.6      |
| <b>STARCHY FOODS.</b>           |              |      |          |        |                        |      |            |
| Corn Meal.....                  | 14.0         | 1.4  | 9.5      | 1.9    | 69.9                   | 3.3  | 1:8.1      |
| Corn and Cob Meal.....          | 11.0         | 1.4  | 8.9      | 6.7    | 68.4                   | 3.6  | 1:8.5      |
| Hominy Meal.....                | 9.0          | 2.6  | 11.2     | 4.2    | 64.2                   | 8.5  | 1:7.4      |
| Ground Oats.....                | 12.0         | 3.3  | 11.4     | 8.7    | 60.8                   | 3.8  | 1:6.1      |
| Ground Barley.....              | 13.0         | 2.3  | 11.3     | 5.7    | 65.8                   | 1.9  | 1:6.2      |
| Corn and Oat Feed.....          | 10.0         | 3.0  | 9.1      | 10.0   | 64.7                   | 3.2  | 1:7.9      |
| Victor Corn and Oat Feed.....   | 10.0         | 3.5  | 8.7      | 11.0   | 63.1                   | 3.7  | 1:8.2      |
| H-O Horse Feed.....             | 9.0          | 3.2  | 12.5     | 9.8    | 62.1                   | 3.4  | 1:5.6      |
| Quaker Dairy Feed.....          | 8.0          | 4.6  | 13.2     | 16.8   | 54.3                   | 3.1  | 1:4.6      |
| Shumacher's Stock Feed.....     | 8.0          | 4.1  | 11.5     | 11.4   | 60.4                   | 4.6  | 1:6.1      |
| Oat Feed (average).....         | 7.0          | 5.3  | 7.8      | 21.8   | 55.3                   | 2.8  | 1:8.0      |

\*These tables are adapted from Bulletin No. 85 of the Massachusetts Experiment Station.

sues and with which she encases some of the organs.

There is one very curious thing that is true of the different food elements—they can take the place of each other, to some extent. This is not true of the proteids. Nothing can take their place. But it is true of the carbohydrates and the fats. At the New York State Experiment Station a cow was fed for 95 days upon food from which the fat had been extracted as thoroughly as possible. In spite of this absence of food fat the cow continued to secrete milk similar to that produced on a normal ration. Nearly sixty-three pounds of fat were yielded in the milk during the ninety-five days, and the cow gained forty-seven pounds during the time, being judged a much fatter cow at the end than at the beginning. This experiment would seem to be conclusive that the milk fat was produced quite largely, if not entirely, from the carbohydrates of the food. On the other hand, so well is it settled that fat may be converted into carbohydrates that it is the common practice to multiply the fat by 2.25 to get its equivalent in carbohydrates in making up an equation.

Besides these three principal food elements which I have enumerated there are subordinate food elements as follows: Ash, representing the mineral ingredients after a food is burned. These ashes consist of lime, potash, soda, magnesia, iron, phosphoric acid and sulphuric acid; fiber or cellulose, the coarse or woody part of a plant—indigestible. Water is also present in all foods to some extent.


**A Balanced Ration. Wide and Narrow Rations.**

We are now in a position to frame our

definitions. A balanced ration is a ration in which all the elements required to meet the needs of the animal for the time being are present in right proportion. It will be seen by this definition that a balanced ration is not a fixed and invariable thing. A ration that is correctly balanced for chicks is not balanced for laying stock, and a ration that is balanced for laying stock is not balanced for birds that are being fattened for market. It has been found by experience that the ration 1:2 (one part protein to two parts carbohydrates) is about right for chicks; the ration 1:4 is about right for laying

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**YOUNG CHICKS**  
 Just hatched from Barred and Buff Rocks and S. C. W. Leghorns, at 8 1/2 c. to 15c. apiece. Distance no objection. Send for circular and be sure to mention Poultry Keeper. 2-7  
**JOS. D. WILSON, Stockton, N. J.**



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**The Neversink Incubator**  
 hatches a larger percentage of healthy chicks because of the pure air admitted into the egg chamber. The thermostat controls the ventilator and removes the foul air from the egg chamber, instead of simply regulating the lamp. You should investigate this. Lewis Bros., Reading, Pa., say: "The chicks from your machines come out much stronger and healthier. Your ventilated egg chamber shows what causes the great loss of good eggs in other incubators."  
 Our Neversink Hot Water Brooder has the entrance on a level with the floor. No incline to confuse and worry young chicks. You'll appreciate this. You have seen chicks that would freeze before they would walk up the incline of an ordinary brooder. Write for illustrated catalogue of incubators, brooders and brooding systems, free if you mention Poultry Keeper.  
**Neversink Incubator and Brooder Co.,**  
 Box 127. 11-12 Mahan, Pa.



TABLE SHOWING PRINCIPAL PROTEIN FOODS AND CARBOHYDRATES.

| DIVISION I. PROTEIN FOODS.                                                                                                         |                                                                                                                                     |                                                                                                     | DIVISION II. STARCHY (CARBOHYDRATE) FOODS                                                                          |                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| CLASS I.                                                                                                                           | CLASS II.                                                                                                                           | CLASS III.                                                                                          | CLASS IV.                                                                                                          | CLASS V.                                                                                     |
| 30 to 45 per cent protein.<br>50 to 60 per cent carbohydrates.*<br>75 to 90 per cent digestible.                                   | 20 to 30 per cent protein.<br>60 to 70 per cent carbohydrates.*<br>65 to 85 per cent digestible.                                    | 15 to 20 per cent protein.<br>70 to 75 per cent carbohydrates.*<br>60 to 75 per cent digestible.    | 8 to 14 per cent protein.<br>75 to 85 per cent carbohydrates.*<br>60 to 90 per cent digestible.                    | 8 per cent and less protein.<br>85 per cent carbohydrates.*<br>35 to 60 per cent digestible. |
| Cottonseed Meal.<br>N. P. & O. P. Linseed Meals.<br>Chicago, Cream and King Gluten meals<br>Atlas & Biles XXXX Distillers' Grains. | Buffalo, Globe, Pekin Queen, Waukegan and other standard Gluten Feeds.<br>Germ Oil Meal.<br>Malt Sprouts and Dried Brewers' Grains. | Flour and Standard Wheat Middlings, Mixed Feed and Wheat Bran.<br>H-O Dairy Feed.<br>Oat Middlings. | Wheat, Rye, Barley, Oat, Corn and Hominy Meals.<br>Corn and Oat, Horse, Quaker Dairy and Schumacher's Stock Feeds. | Corn Cobs.<br>Oat Feed.<br>Peanut Feed.                                                      |

\*Including fat reduced to carbohydrates.

stock, and the ration 1:6 is about right for fattening. In making up the ration the ingredients are weighed, not measured, and the fat is multiplied by 2.25 (or 2 1/4) to reduce it to carbohydrates.

A wide ration is one in which the protein is largely exceeded by the carbohydrates; a narrow ration is one in which the protein and carbohydrates are more nearly equal. As a matter of fact, anything exceeding 1:6 would be called a wide ration, and anything under it a narrow one.

Some Things to Bear in Mind.

The reader who has followed me carefully will see how absolutely impossible it is to feed a flock of hens by rule. Common sense must come in. A ration that would be correctly balanced for one day would not be balanced for the next. For instance, on a very cold day in winter we burn twice as much coal to keep warm as on a mild day; and on the same day the flock would require a much wider ration (more carbohydrates or warming up food) than on a mild day or in midsummer.

Fortunately the hen has considerable power of adjustment, and so survives our well meaning but bungling and imperfect efforts to feed her scientifically. If we do not feed enough, she draws upon her reserve; and if we feed too much she has the power of passing the excess through the body undigested. It is for this reason that I advocate feeding generously. Nature can take care of a surplus if it is not too great, but the only way in which she can meet a deficit is by drawing on her reserve.

The reader, too, will now see why it is that one poultryman feeds one way and another another, and both have good results. The principal thing is to get into your ration succulent, nutritious food; and if you do this your hens are sure to respond with a goodly output of eggs.

Green Food.

What is the value of green food in the daily ration? Its great value is that it makes it more digestible. Take a kettleful of dry Indian meal and pour into it boiling water, at the same time trying to knead it into a light crumbly mass. How difficult it is! How apt to become sodden and sticky! Now make another attempt with a kettleful of meal mixed with equal bulk of cut clover or sliced vegetables and note the result. It is not half so difficult to knead the mass

and get it just the right consistency, as it was before.

Green food lightens up the ration and makes it possible for the gastric juice to permeate every particle. Then, too, green food often contains certain mineral salts that the birds need, in a soluble and digestible form. Green food should form a portion of the daily bill of fare, either in the mash or separately. In the winter and early spring months, mangel-wurzels, if properly kept, may be fed to good advantage. In feeding these beets to flocks of hens a very good practice is simply to split the root lengthwise with a large knife. The fowls will then be able to pick out all the fresh, crisp food from the exposed cut surface.

Clover is the green food, par excellence. Second-crop clover is best. It should be cut just as it is coming into bloom, or a little before, when there is a profusion of tender green leaves and the stalks have not become woody and dry. Great care should be taken in curing

**200 Egg Incubator**  
For \$12.80

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**SINGLE COMB WHITE LEGHORNS**  
(Blanchard's). Eggs 3 cents each. Laying strain. Cockerels.  
H. C. BEEBE, - BANNER, ILLINOIS.

**Gilliland's Buff Rocks** are noted for their great laying qualities, vigor and color. Eggs \$2 per 15; \$5 per 45; \$10 per 100; after July 1st, half price. GOLDEN NUGGET POULTRY FARM, MRS. F. E. GILLILAND, Hope, Indiana. 11-12

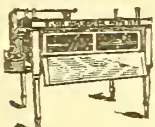
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This **Lightning Lice Killing Machine** kills all lice and mites. No injury to birds or feathers. Handles any fowl, smallest chick to largest pouter. Made in three sizes. Pays for itself first season. Also Lightning Lice Killing Powder. Poultry Lice, Lice Murder, etc. We secure special low express rates. Catalogue mailed free. Write for it. CHARLES SCHILD, Ionia, Mich.



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A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper. 11-12  
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You can get the best incubator on earth, \$6.50 up, all the latest improvements, no night watching, because we use our Five-inch Double Wafer Regulator. 30 days' trial. Send it back if you want to. Catalogue free. We pay freight.  
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**TRIBBY'S White Wyandottes**  
...AND...  
**S. C. W. Leghorns.**  
Eggs for hatching. Write for prices and please mention Poultry Keeper.  
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ALL.....\$1.95  
This is one of the best offers ever made to poultry keepers. It gives the cream of poultry literature and best fruit journal. Address,  
Poultry Keeper Pub. Co.,  
QUINCY, ILL.



the crop Clover for hens should be cut into short lengths, say one-fourth of an inch, and may be fed alone at noon. Or it may be mixed in the morning mash with boiling water. It is not necessary to steep it over night as some do. Clover meal is excellent, but somewhat expensive.

"Cabbages can be grown cheaply in many localities and make excellent green food so long as they can be kept fresh and crisp. Kale and beet leaves are equally as good and are readily eaten. Sweet apples are also suitable, and, in fact, almost any crisp, fresh, green food can be fed with profit. The green food, in many instances, may be cut fine and fed with the soft food, but, as a rule, it is better to feed separately during the middle of the day, in such quantities that the fowls have about all they can eat at one time."

**Cramming Machines for Fattening Poultry.**

Among a lot of strong testimonials that were sent us regarding the cramming machine made by Wm. H. Allen, Jr., Arlington, Mass., (see ad on page 166) was the following from the proprietor of the largest poultry farm in western Pennsylvania:

Branch, Pa., Feb 16, 1903.

W. H. Allen, Jr.  
After using your cramming machine for a long time I can say I am highly pleased with it. In fact I doubt if it could be better made in my respect. Previous to buying yours I purchased a much advertised cramming machine and used it some time. I returned it, however, with my compliments after trying yours. If this letter will help some prospective purchasers of a cramming machine you are at liberty to use it. I know that poultrymen begrudge paying out money for comparatively worthless goods.  
R. E. Adams.

Locust Grove Farm.  
The fattening of poultry by cramming is a branch of the poultry business that every market poultry raiser should investigate. For particulars write to Mr. Allen. Interesting matter will be sent free if you mention P. K.

The strongest team of practical poultry papers is Farm Poultry, the great semi-monthly of the east, price \$1, and the Poultry Keeper, price 50 cents. Both papers may be had in a club for \$1.10. Address orders to Poultry Keeper Pub. Co., Quincy, Ill. Offer good on renewals as well as new subscriptions.

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The Poultry Keeper invites every reader to write and ask questions. Get your money's worth while you have the opportunity. Also, give your experience, whether good or bad.


Eat some of your young cockerels. It is good meat, it is cheaper than beef, and you are entitled to the best that there is. Do not sell all your young birds, but enjoy better living.

The extreme heat furnishes the best conditions for lice at this season, and no matter what may appear to ail the chickens we suggest that the poultryman carefully examine the skin of the heads and necks, under the wings and round the vent of the droppy fowls. Anoint with a few drops of melted lard, but what is better, use the advertised lice killers. It is not the little mites to which we refer, but the large body lice. Whenever a chick is stupid or sleepy look for lice.

Save two of the April cockerels for next spring's breeding. Some people always sell all the early birds and depend on late hatched, stunted birds for next year's work. This is poor judgment and we trust none of our readers are guilty of such practice. Never sell your best. It is worth most to you.

Don't permit the chicks of different ages to run together, especially at feeding time. Don't permit the male birds to run with the females after the breeding season. Don't be afraid of culling too closely.

**New Model No. 7**  
**Stearns Bone Cutter**  
Is admittedly the best. Only one that cuts fine enough for chicks. No splinters nor chunks. Ball bearings; automatic feed.  
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Send for free book and special trial offer.  
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Box 48, Syracuse, N. Y.

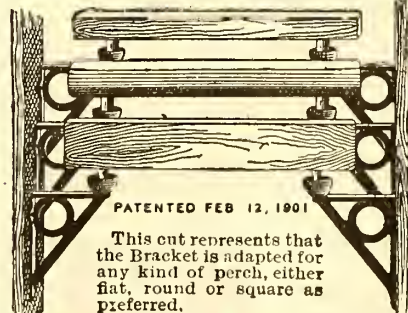


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**POULTRY KEEPER PUB. CO.,**  
QUINCY, ILL.



**FRUIT FARMS AND POULTRY.**

A fruit farm upon which is grown small fruit may not, at first thought offer very tempting inducements in the way of keeping poultry, but when it is considered that only a limited period of the year is devoted to the bearing and ripening of fruit, while quite a long interval intervenes from the ending of one season to the beginning of another, then it will be seen that this interval opens the way for the occupancy of the ground by poultry. It is true that poultry will completely destroy the blossoms and ripening fruit that they can reach. At such periods the range to them of the fruit patches is not available, and the matter should therefore be systemized a little.

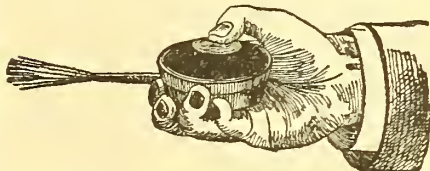
Let us examine a fruit farm upon which are grown strawberries, raspberries, blackberries, apples, peaches pears, grapes or any other fruit. In the first place, no sensible fruit grower will expect good results unless he has his orchards of standard trees free from the intrusion of small varieties. The orchard is therefore vacant, as far as the land is concerned; that is, it is occupied only above the reach of fowls. If partition fences be made, which can be cheaply done of laths, fowls can have the run of the orchards without hindrance in any manner to the growing fruit. The fowls are beneficial rather than injurious. Strawberries come into bearing sooner than other fruits and therefore are soonest gathered. When the crop is off let the poultry in. This gives them a fresh range. Cultivation of the berries may still be done for the freshly turned earth will be only the more inviting. Next in season will be raspberries, then blackberries. Into each field, in turn, the fowls may be allowed to go, and the occasional change from one field to another will be the means of securing more eggs and healthier poultry. The orchard is then ready for them at any time, and by taking advantage of all the circumstances a poultry and fruit farm may be combined.

No business man who is in possession of two or more floors of a building thinks for a moment of losing the space gained from the upper stories, nor should a fruit grower allow the land to be useless while the trees are bearing or idle. Fowls do not deprive the land of anything nor do they require any more care in the orchard than when located elsewhere, but they keep at work industriously in the endeavor to catch insects, both on the trunks of the trees, among the vines, from the cultivated ground, and amid the grass and stubble. Nor is this all. Their droppings serve as manure, enriching the soil and feeding the growing trees, the distribution of the manure being done by the fowls themselves during their constant ramblings. The proper utilization of fruit farms may be carried further, for bees should be included. They would not only secure and store away honey, but assist in the matter of fertilizing the

blossoms. It is to the economical application of every pursuit possible on a fruit farm to which we desire to attract attention. Fruit, poultry, eggs and honey may be produced without any of them being brought in conflict with another. A good, well-managed flock of fowls will easily pay all expenses incurred in an orchard, and considering that they require no extra space, are sure to prove profitable.

**Poultry Keeper Insect Bellows.**

For use in dusting insect powder of any kind of fowls, old or young. Will work a saving of 25 per cent in the insect pow-



der used. There is no need to waste any powder if you use these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

"Experts" differ as to when the mash should be fed. The fact remains that the mash is a good thing and you should feed it once a day. In no other way can you get into your birds so great a variety of materials, and so cheap, as in the mash. Feed a well cooked mash!

**200 EGG INCUBATOR \$6**  
 By our new plan you can secure our NEW IDEA INCUBATOR at nominal cost. Double Walls, Removable Trays, Nursery, Copper Basket, Improved Tucks, Safety Lamp, Regulator. We Can Save You Money Write for FREE Circular Address NEW IDEA INCUBATOR, Box 19 QUINCY, ILL.

**PARTRIDGE WYANDOTTES**

HILERIAN STRAIN.

Winners wherever shown. Eggs, \$3 per 15; \$5 per 30. Some fine S. C. W. Leghorns, high quality. Leghorn eggs, \$1 and \$2 per 15. Stock both kind for sale all times. Catalogue free.

HILER BROS., Box 6, Prattsburg, N. Y.

**A POULTRY COURSE FOR 50c.**

**135** } These figures represent results obtained by a man in Maine, who followed out the suggestions in my book, "200 Eggs a Year Per Hen—How to Get Them," given in the chapter, "The Law of Sex," 135 chicks were hatched—of these 28 were males and 107 females. The chapter on "The Law of Sex" is only one out of many in this remarkable little book. A chapter of timely interest just now is the one called "Fertile Eggs and How to Get Them." The book tells how to make one of the best trap nests ever invented; how to rear chicks; how to feed for 200 eggs a year; how to lay down eggs in the spring so that they will be perfectly fresh at Thanksgiving; and many other useful and interesting things. The book is made up of nuggets of wisdom dug out of the best rock of experience. One enthusiastic lady in Maine writes: "I place your book next to the Bible." Says Dr. Wm. R. Fisher of Swiftwater, Pa.: "Nothing that I have read approaches your book in clearness of expression and fullness of detail. It has given me more information about practical points than all the rest put together." Mr. Chas. H. Dunning of Auburn, New York writes: "I follow your method of feeding and get splendid results." Price of single book, 50c; three for \$1. Liberal terms to agents. Please mention Poultry Keeper.

EDGAR WARREN, Hampton, N. H.

**GREAT REDUCTION**

It is not too late to set eggs from my famous LEGHORNS (Rose and Single Comb, Brown and White), WHITE and BUFF WYANDOTTES, BARRED and BUFF P. ROCKS, SILVER SEBRIGHT BANTAMS. Eggs, \$1 per 15 only; Bantams, \$2 for 13. COLLIE PUPPIES. 1903 breeding pens for sale now. Catalogue.

W. W. KULP, Box 30, Pottstown, Pa.

**...13 White Wyandottes in 110 Days Laid Over 880 Eggs...**

So says W. D. Williams of Allston, Mass., who Breeds the

**Exmoor Stay White Wyandottes.**

Our PARTRIDGE ROCKS laid: 16 birds, 121 days to date 1739 eggs. We breed birds to lay and pay. Eggs reasonable. Send stamp for 42-page illustrated guide. Please mention P. K.

EXMOOR FARMS, Lebanon, Pa., The Home of Gold Force Buff Rocks.

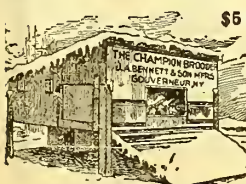
**POULTRY SUPPLIES** of every description, Prairie State Incubators and Brooders. Prize and Champion Brooders, Bone Cutters, Clover Cutters, Feed Cookers, Wire Netting and everything necessary for poultry and Pet Stock. Our Immense Catalogue FREE if you mention Poultry Keeper. Send for one.

Excelsior Wire and Poultry Supply Co., Dept. K.  
 W. V. RUSS, Prop. 26 and 28 Vesey St., New York City.

**OUR BEST CLUBBING OFFER. FARM POULTRY, \$1.00 BOTH \$1 POULTRY KEEPER, 50c.**

Farm Poultry is the great semi-monthly poultry paper of the east, and taken in connection with Poultry Keeper makes the strongest combination to be had for the money. Offer is good for renewals as well as new subscribers. Order at once. Offer is temporary. Address,

POULTRY KEEPER PUBLISHING CO., Quincy, Ill.



**\$5 CHAMPION BROODER.**

If you are in the poultry business either for pleasure or profit, you wish the best. If you buy a Champion Brooder you are sure of having the best and one which is "known the world over by its works." We are the largest manufacturers in the world. Cat. free. J. A. BENNETT & SON, Gouverneur, N. Y.



**HINTS FOR HOT WEATHER.**

Give the fowls a run in the orchard. Every neglect in poultry raising has its cost.

Market the surplus cockerels as soon as possible.

Don't trust the hired man to look after the poultry.

The poultry business is no "cinch" for a lazy man.

Sidetrack care means a switch off profit with poultry.

Chickens should have ground bone (green) three times a week.

Good feeding means a greatly varied diet of clean, wholesome feed.

Save all the small potatoes to use with the mixed feed later on.

A sleepy or drowsy chicken is pretty sure indication of vermin.

Keep the walls of the hen house white by repeated whitewashing.

Clean water in clean drinking vessels is strictly necessary at all times.

Always keep the best for breeders—it is the true way to improve your flock.

Don't send dirty or stained eggs to market, and be sure all are good and fresh.

There should be more brooms worn out in the poultry yard than there are.

Skim milk given to poultry will bring better returns than when fed to the pigs.

It is good time to scatter air-slacked lime in the yards the evening after a rain.

Let the growing cockerels and pullets have plenty of cracked corn every other day.

Good care of the hens and pullets now will insure a good yield of eggs next fall and winter.

Save all the headless cabbage; leave them in the ground and let them grow for the poultry.

Be kind and gentle with the poultry. Tame fowls are more profitable than "scary" ones.

Separate the sexes now; they will thrive better. Keep them apart until the breeding season.

When cooler nights prevail, the chicks will grow faster if they are not too much crowded.

Dispose of hens that are over two and a half years old unless they are of especial value for stock purposes.

A chick once stunted for lack of proper care or feeding will never attain the size or thrift of the others.

Cleanliness in the poultry yard and houses is the key to success; the lack of it invites all kinds of diseases.

See that fowls and chicks have good, freshly turned up and finely pulverized earth dust baths in shady places.

Poultry shows are a good thing provided one is willing to learn. A prejudiced man cannot read between the lines.

Poultry culture is made up of a chain of little things; one thing out of place makes a bad kink in the whole chain.

The poultry raiser who is constantly

complaining about "bad luck" is advertising the fact that his methods are at fault.

Keep the shotgun loaded for rats and do not rest until you are sure you have killed the last one on the poultry premises.

Continue the preventive methods to keep down vermin; no matter how favorable the indications may be they are not there.

Don't forget to add a tablespoonful of linseed meal to the mixed feed three times a week now. It will help the molting birds.

If cleanliness, good care and proper feeding are properly observed there will be little chance to "doctor" fowls.

Do not allow ducks to run in the same yard with chickens; they will befoul the drinking water and cause trouble in other ways also.

Why not let the poultry have the liberty of the farm now and plant their yards in crimson clover? This will give a chance for good winter pasturage.

If you intend to increase your flock the coming business season it is in order now to make preparations to increase accommodations accordingly.

Why not make an effort to secure regular near by customers to sell eggs and poultry to? Do so, and make the middlemen and retailers' profits.

Management has as much to do with success as good stock, houses and proper feeding. Management is the regulator or safety valve of any business.

Do not wait until the cold fall rains

**DON'T SET HENS** (the same old way while A 200 Egg Natural Hen Incubator Costs But \$3, other also equally as low. Over 125,000 in use. Inadaptable to anyone who keeps a hen. Our Patent protected against infringement. Agents wanted everywhere, either sex, no experience necessary. Catalogue telling all about and 25c Lize Formula FREE if you write today. **NATURAL HEN INCUBATOR CO., 51, Columbus, Nebraska.**



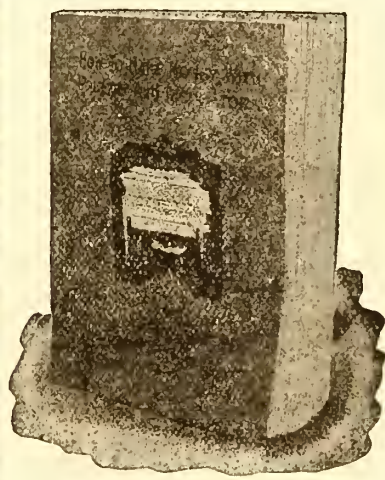
**IDEAL ALUMINUM LEG BAND,**  
To Mark Chickens.  
**CHEAPEST AND BEST.**  
12 for 15c. 25 for 30c., 60 for 50c., 100 for 75c.  
**Frank Myers, Mfr, Freeport, Ill.**

**OAKES** Water Thermostat and Improved Regulator give certain uniformity of heat in incubators. Our **HYDRO-SAFETY LAMP** never smokes, soots or fumes. Old machines made better than new with high service device. Free catalogue and prices for asking.  
**WE MAKE THEM HATCH**  
**OAKES MFG. CO., No. 8 6th St., Bloomington, Indiana.**

**Counting Chicks Before Hatching**  
is not safe unless you have an  
**IOWA ROUND INCUBATOR**  
R. C. Bauermeister, Norwood, Minn., got 493 chicks from 503 eggs. He followed directions, the machine did the work, because it was built on right principles and by good workmen. The IOWA has fiber-board case, does not shrink, swell, warp or crack. Regulation and ventilation perfect. Our free book gives more testimonials and full particulars. Everything about incubation free.  
**IOWA INCUBATOR COMPANY, BOX 179, DES MOINES, IOWA**

**How to Make Money with Poultry and Incubators**

Is the title of the Cyphers Incubator Company's Complete Catalogue and Poultryman's Guide for 1903, which thousands of people have pronounced to be the finest and most valuable Year Book we have issued thus far, and we have been pace setters in the production of Valuable Poultry and Incubator Literature. This book consists of 196 pages, 8x11 inches in size, is profusely illustrated with over 300 half-tones made from photographs, showing the Largest and Most Successful Poultry Plants in the United States, Canada, England, New Zealand, South America, etc., and contains Twelve Special Chapters, covering all branches of profitable poultry keeping, Each Written by an Expert expressly for this book, as follows:



- I Starting with an Incubator
- II Handling Chicks in a Brooder
- III Feeding the Chicks
- IV Duck Producing on a Large Scale
- V Broiler Raising
- VI Profitable Egg Farming
- VII The Egg and Poultry Combination
- VIII Egg and Fruit Farming
- IX Scratching Shed House Plans
- X Incubator Cellar and Brooding House Plans
- XI Feeding for Eggs
- XII Standard Bred Poultry

**This Book is Free,**

But we respectfully ask you to send ten cents in stamps or silver to pay postage. Positively and emphatically, it should be worth Ten Dollars to every earnest man or woman who wishes to do well in the poultry business. If we did not mean this, or did not believe you would agree with us on examining the book, we could not afford to say it, for we depend on this Guide and Catalogue to win your friendship

for our line of manufactures. Send ten cents for book No. 28 with this understanding and we will abide by your decision.

**Separate Poultry Supply Catalogue for 1903, Free,**

postpaid, to any address. 64 pages, 8x11 inches. Illustrates and describes "Everything for the Poultryman"—120 standard articles, including Poultry Foods, Clover Products, Insecticides, Bone Cutters, Food Cookers, Latest and Best Poultry Books, etc.

Write to-day for both of these instructive publications. They will help you succeed in your poultry work. Kindly mention this paper and address our nearest office.

**CYPHERS INCUBATOR COMPANY,**

- BUFFALO, N. Y.** Factory and Home Office.
- CHICAGO, ILL.** 310 Fifth Avenue.
- BOSTON, MASS.** 34 Merchants' Row.
- NEW YORK, N. Y.** 23 Barclay St.

**The Automatic SURE HATCH,**  
with a new regulator that really regulates—the greatest improvement in 10 years. Get one on 30 days free trial and decide for yourself. Large catalog and poultry book free.  
**SURE HATCH INCB. CO.,**  
Clay Center, Neb., or Columbus, Ohio.  
**30 Days Free Trial.**



come to make repairs needed in roofs and sides of chicken houses. Do it now and be ready for emergencies.

Send eggs of uniform size to market, keep out the abnormally large or small ones and do not mix white and brown shelled eggs in the same basket.

Take pride in having clean, nice quarters for your flocks, and keeping nothing but pure-bred fowls will greatly add to your pride, satisfaction and profit.

The importance of charcoal is not appreciated as it should be in feeding to poultry. Corn charred on the cob, or shelled corn charred in the stove oven answers the purpose. Place it twice a week where the poultry can have access to it.

There are some people who have been in the poultry raising business a whole year and imagine they are fit to graduate and give advice to experts. Before the second year comes around they realize what they didn't know about the business is the most. Veterans who have spent a quarter of a century closely identified with poultry interests freely admit they have yet lessons to learn.

Do not allow a lot of hens that persist in sitting after it is too late in the season to occupy the nests in the chicken houses. They will succeed in hatching a brood of vermin, no matter how clean the premises. A Few Hens says, "When a hen sits it is her vacation"—better make them spend the time in a shady back yard, where there are no nests to get into, and let a cockerel keep company with them.

**P. K. Poultry Marker.**

There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the

web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, postpaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

**ROSE COMB BROWN LEGHORNS.**  
a specialty, also S. C. Blacks. Eggs from winners scoring 90 to 96%, \$1.50 per 15; \$2.50 per 30. From free range flocks of Rose Combs, \$4.50 per 100. Circular free. 5-12  
J. L. RANDOLPH, Box A, Cutler, Ohio.

**KEEP POSTED**

as to what is going on in the east. You can get the leading monthly poultry paper of New England from now until April 1, 1904 for only 10 cents by mentioning where you saw this adv.

POULTRY STANDARD, STAMFORD, CONN.

From now until September 1st, Mr. U. R. Fishel the White Plymouth Rock specialist, of Hope Ind., will have a special sale to dispose of breeders. These birds must be sold and will be disposed of in pens, trios, pairs or single birds, in lots of twenty-five, fifty or one hundred. By September the room must be given over to the young stock and the buyer gets the benefit. Better write to Mr. Fishel. "Do it now."

If the birds are now on a grass range they cannot need as much attention as last winter. See that they are fed enough to keep up in weight. Most grass ranges lack in animal life. Keep a hopper of beef scraps where the birds can find it.

**A Good Heave Remedy.**

Every one knows that a horse with the heaves is depreciated from \$25 to \$50, and some people would not take a horse with the heaves as a gift. Heaves is a disease which is liable to attack even the most valuable and best conditioned horse. It is well to have a known effective remedy on hand. Such a remedy is undoubtedly to be found in the Prussian Heave Powders, manufactured by the Prussian Stock Food and Remedy Company, St. Paul, Minn., whose ad appears on page 166. It is one of a number of valuable preparations by the same company, which includes Prussian Stock Food, Poultry Food, Lice Powders, Lice Killers, Cough and Distemper Cure, Etc. A good book explaining all the above is the 63-page Farmer's and Stockman's Manual, which as indicated in the advertisement, is mailed free if you write the company how many head of stock you have and mention P. K.

**\$5.00 BUYS 100 EGGS.** \$1.25, 1 sitting, either Brown or White Leghorn, Barred or White Rocks, Black Minorca and White Wyandottes Pit Game and M. B. Turkey Eggs, 25c. each. Choice stock for sale. Circular free. E. W. GEER, Box 104, Farmington, Mo.

**BUILD YOUR OWN INCUBATOR.**  
We sell complete illustrated plans by which a 200 EGG HOT WATER INCUBATOR can be built for about \$8. We furnish Lamps, Tanks, Regulators, etc., at cost. Big money making and selling them. Write today for particulars and FREE circular "How to Make and Save Money with an Incubator." Channon, Snow & Co., Dept. D Quincy, Ill.

**WHITE WYANDOTTES NONE BETTER.**

As white and good as the best. Fine birds, good form, strong laying qualities. EGGS REDUCED balance of season; \$1. per 13. Stock for sale. D. C. ADAMS & SON, Box K, North Haven, Conn.

**White, Golden, Silver Wyandottes,**

B. and W. Rocks; White, Brown Leg; Black Hamburgs, Light Brah; Leghorns; R. C. B. Bants; Bronze, White, Narra; Turkeys; Geese, Ducks, Scotch Collie Shepherd Dogs. Prices reasonable. Best quality. Prompt service. Low express rates. Satisfaction guaranteed. Chas. McClave, Box 700, New London, O.

**BRADLEY BROS., LEE, MASS. EXHIBITION BARRED PLY. ROCKS**

More First Prizes at last Fourteen New York Shows have been won by Birds we Bred and Raised than any other exhibitor has won on any stock. Write for free circular of "America's Best, Illustrated," giving 22 pictures of recent New York winners and showing how our lines excel all others. Our 1903 breeding yards now for sale.

**Few people know just what to do for MOULTING FOWLS.**  
We were a long time finding out just what was best. We know now; so does everyone else who has ever tried  
**STAR MOULTINE**  
Like all other Star Products it works to perfection when moulting time comes. Star Moulting makes chickens get down to business, finish moulting, and get back promptly to their fall work of laying eggs. Try it just once and you never again will be without it. Money back if not satisfied. Price 25c. per lb., by mail, 40c. If you keep fowls send us your address and we will send you our catalogue of Incubators, Brooders and Supplies. There are things in it you need.  
**STAR INCUBATOR & BROODER CO., Bound Brook, N. J.**  
New York; 216 Fulton St.

**NO SECRET**  
about getting perfect hatches if your incubator has the proper lamp and regulator.  
Put on the **Acme Regulator & Acme Lamp** and every fertile egg will hatch. Acme means "the top," and these goods are way above all others in practical advantages.  
**THE ACME COMPOUND REGULATOR** is the simplest and most sensitive regulator on the market. Will improve the work of any machine. Works well anywhere, but gives best results with this new **ACME AUTOMATIC SAFETY LAMP**, positively the latest and most improved lamp made. Large oil tank with automatic air feed to burner. It supplies the oil as needed and no faster. Can't get out of order. Water jacket around burner. Indestructible wick, needs no trimming. Produces steadiest flame and evenest heat. Keep in touch with the newest and best thing in this line.  
**H. M. SHEER CO., Box 18 QUINCY, ILL.**  
Manufacturers Regulators, Lamps, Tanks, Poultry Markers, Leg Bands, etc.

**Standard of Perfection Free.**

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. THIS OFFER IS GIVING \$3 OF VALUE FOR \$2. A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

**Poultry Keeper Publishing Co., Quincy, Ill.**



## SORTING YOUNG STOCK.

Dividing Chicks Into Three Classes—  
Market, Breeders and Winter Layers  
—And Care and Feeding Suited  
to Each Class.

By L. E. Keyser.

When the chicks are old enough to leave the brooder or the hen we should decide what their ultimate destination is to be. I divide my chicks into three classes, placing them in small weaning coops containing from fifteen to twenty-five each. These coops are cheap concerns, made of dry goods boxes or anything that comes handy. The first-class consists of those designed for breeders; the second for winter layers, and the third, those that are to be ripened for market. In the first class I include the finest marked and best shaped pullets from my most prolific laying hens, and a few of the best cockerels from my male line, always cooping the cockerels and pullets separately. For winter layers I select the earliest pullets, but those whose shape and markings are such as to exclude them from being desirable breeding fowls.

The third class composes the poorly marked cockerels from the male line, all the cockerels from the female line, and the late hatched pullets. This class I keep confined and force them as rapidly as possible, but do not dispose of them until they have reached a weight of from three to five pounds, as in this market such fowls are more in demand and bring fully as good a price as broilers, especially at the season when they could be disposed of. Corn forms a considerable portion of the diet of these fowls, and with the Plymouth Rock it gives a plump, round yellow skinned carcass, such as cannot be obtained by a diet of other grains, presenting a most attractive appearance in the market and always commanding the highest price.

The second, or winter laying class, are given a small range and are fed for rapid maturity, it being the object to have them all producing eggs by November 1, and as some of these are hatched as late as the middle of May it is necessary to force them as rapidly as possible. Their range being sown to rape affords ample green food and the remainder of their diet consists of wheat, corn and a liberal supply of green bone and animal meal. Birds raised in this manner do not produce as many eggs in a year as those that are allowed to mature more slowly, but they do produce them at a time when the price more than recompenses for their decrease in the spring when eggs are cheap.

To the chicks desired for breeding fowls every care should be given. They are placed in roomy coops in small colonies of ten to fifteen each, and allowed free range, but are never over-fed. In fact they are allowed to hunt the greater part of their living, but as they are mostly early hatched, they usually come into laying in November, and are given a year's test before being placed in the breeding pen.

In following this course of breeding I find it necessary to have a systematic method of marking the chicks, so that the different classes and hatches can

readily be distinguished, and after a system has been adopted and you become familiar with it, there is no trouble in keeping an accurate record. Careful breeding and thorough business methods are necessary to make poultry pay, and the ration, while liberal, should be economical, and such as will bring the fowls to the condition desired in the shortest possible time—be it egg production or a ripe carcass for the market.

## WE NEED YOUR HELP.

We are eager to get all the helpful matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each a year is no information, but when you tell how you made the hens lay then you tell something of value.

The third annual exhibition of the North Carolina Poultry Association will be held in High Point, N. C., December 29, 1903, to January 1, 1904. Judges: G. O. Brown and Ben S. Meyers. John W. L. Thompson, secretary, Burlington, N. C.

Why is not the Buff turkey more common? It is hardy, handsome, and a favorite in Kentucky and Virginia. There are some inquiries for this bird and an advertisement in our classified department would bring results.

**BEAUTIFUL BUFF PLYMOUTH ROCKS.** Hens lay. Eggs hatch. 15 eggs \$2. Females \$2.50; males \$3.50; trios \$3. Poultry supplies. Poultry Printing that gives satisfaction. Catalogue free. Prompt and honorable treatment.  
**LEWIS E. TRESKOTT, Conesus, N. Y.**

**EGGS HALF PRICE** \$1 per sitting; Black Cochins, Black Langshans, White Rocks, White Holland Turkeys. Some bargains in stock. Write for prices.  
**L. GILLON, Hales Corners, Wisconsin.**

**BIG MONEY IN LIGHT BRAHMAS** if you go at it right. Buy fowls or eggs of me and you will have the best. Fowls in my yards are worth \$1.25 per head on market; pretty near as large as turkeys. Give me a trial order and I will please you  
**AARON J. FELTHOUSE, Box 203, Elkhart, Ind.**

**IRON AGE BOOK—FREE** Seed Drills. Wheel Hoes, Potato Planters, Riding Cultivators, etc.  
**BATEMAN MFG. CO., Box 25, Greentown, N. J.**

**S. C. White Leghorns.** Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct., 1902, Charlotte, N. C., Jan. 1903. Yards now mated that will produce for you, show winners in any company. Write at once for circular describing matings and low prices for **EGGS FOR HATCHING.** Satisfaction our motto.  
**WILBER BROS., Box E, Petros, Tennessee.**

**PLYMOUTH ROCKS, WYANDOTTIES, LEGHORNS, MINORCAS, COCHINS, LANGSHANS, BRAHMAS, INDIAN GAMES, ANDALUSIANS, BANTAMS, BLACK SPANISH, ETC., RED CAPS, AND W. C. B. POLISH.**  
Standard-bred. **EGGS FOR SALE.**  
Northwestern Poultry and Fruit Farm, Walter Seidel, Box K, Elroy, Ill.

## The Belgian Hare Guide

This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Orating and Shipping, Caponizing, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.  
**PRICE, 25 CENTS.**

A year's subscription to Poultry Keeper (50c) and a copy of Belgian Hare Guide (25c) Address Poultry Keeper Publishing Company, Quincy, Illinois.

**GET RID OF LICE** Use **AVENARIUS CARBOLINEUM** Registered. It is acknowledged to be the best and most convenient Radical Remedy against Chicken-Lice and Mites. It does away with dusting, dipping, kerosening, whitewashing and insect powder. Easily applied with a brush. Shipped freight prepaid.  
**Carbolineum Wood Preserving Co., Milwaukee, Wis.**  
Beware of Fraudulent Imitations. Circulars Free.

## AT BOSTON 1903

Our birds won 26 premiums with 25 entries. Our Buff Rocks making the best record ever made at this great Show, and clearly placing us at the top with this variety. 1st, 2 and 3d cock; 1st, 3d, 4th and 5th hen; 1st and 4th cockerel; 2d and 3d pullet, and every special offered make a record of which we are proud. Our Buff Wyandottes and Banded Rocks were also among the winners. **WE SOLD OUR 1st BUFF ROCK COCKEREL FOR \$300 AND FOUR HENS FOR \$200.** These are the **RECORD PRICES FOR THIS COUNTRY AND EMPHASIZE THE QUALITY** of our birds. Our free catalogue and mating list gives description of matings and guarantee, and price on eggs from our winners. You will hatch winners from our eggs, and stand the same chance that we do to produce the Champion of 1904.  
2-12

**MILLVILLE POULTRY FARM, Box 1, M. F. Delano, President, Millville, New Jersey.**



**RAPE FOR POULTRY.**

Well, what is rape? We might reply "bushy cabbage," for it belongs to the cabbage family. Mr. C. E. Page, of Virginia, wants to know something about it and wants our readers to know. He writes as follows:

"Please tell us something about rape for poultry. When is it seeded, and how? How many crops will it give? When is it harvested—if at all? Is it good green food? Can it be grown at less cost than cabbage? Lots of readers want to know about rape."

Rape may be seeded early in spring and as late as July or August for poultry. It can be seeded in rows or broadcasted over the surface of the ground and "brushed in."

It should be grown on rich ground that has been deeply plowed and harrowed fine.

It gives several crops, as it grows out again after being cut.

Being hardy it can endure frost to a certain extent and therefore last well into winter.

It may be grown in a poultry yard as a green crop and the hens turned on it.

The hens may be allowed on it as soon as it is high enough, but of course they will then destroy it. If left to grow it reaches two or three feet, and as fast eaten off comes out again. As much as ten tons of the green rape can be grown on an acre of rich land.

If allowed to go to seed it will give the well known "rape seed" which will be found useful for chicks.

A patch 100 feet square, cut and carried to the fowls, will supply an abundance of green food for a large flock.

The Dwarf Essex is the best variety, and the seed is much cheaper than that of cabbage

Sow rape now and sow crimson clover in August and rye in September or October.

**Egg Box With Nest Attached.**

As a matter of convenience poultry raisers who cater to select trade in marketing eggs will find the Vernon Egg Box with nest attached the best thing in this line that has been devised. From a personal inspection of this egg box we are in a position to give it a strong recommendation. The dividing partitions, which make the "nest," are attached to the box in a simple but secure way, so that the parts cannot come apart and be lost. The prices are so moderate that the use of the box is within the means of the egg producer. See illustration and price list in ad of F. R. & F. J. Vernon, 1013 Grand St., Brooklyn, N. Y., on page 167.

July, August and September are the months for caponizing. The instruments we offer for sale are the best made—Pilling's. With every set is sent a book of complete instructions. In the front pages of this issue is an especially valuable article giving details of the work. The Pilling instruments cost \$2.50 per set, express prepaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

C. B. Huff, Delaware, N. J., has cut prices on stock and eggs (see ad on page 167). His varieties are Barred Rocks, W. Wyandottes, S. C. W. and R. C. B. Leghorns and S. C. R. I. Reds.

**ADDING TO THE WEIGHT.**

The hens that cease laying and which are intended for market need not be sold at a loss. Just before selling them let them be confined for ten days or two weeks, and give them all the wheat in the morning and all the corn at night that they can eat, with a mixed ration at noon. Do not confine them in coops, but put a number together in a yard. They will, if made fat, not only be a pound or two heavier, but bring more than the market price per pound. A fowl weighing six pounds, if of large frame can be made to weigh eight pounds if made very fat. The gain of two pounds is equivalent to the gain of an extra fowl in four. The fat fowls will also bring at least three cents a pound more in market, which means twenty-four cents gain. The value of the extra food required to gain the two pounds will not exceed eight cents, leaving a clear profit of fourteen cents a fowl, which will be quite a sum for a large flock, which otherwise would have to be sacrificed if marketed in inferior conditions.

**The Standard of Perfection.**

The authorized guide to correct poultry breeding is the Standard of Perfection, issued by the American Poultry Association. Describes all standard breeds and varieties of thoroughbred chickens, turkeys, ducks and geese. Used by judges in show room and by breeders in mating up their stock. It is durably bound in cloth and consists of 225 pages. Price \$1; or in combination with a subscription to Poultry Keeper the two are furnished at the special price of \$1.25. Orders sent this office promptly filled. Address, Subscription Dept., Poultry Keeper Pub. Co., Quincy, Ill.

It will help everybody concerned if you will remember always when writing to our advertisers to say, "Saw your ad in Poultry Keeper."

**WHITE PLYMOUTH ROCKS**

We heed for quality, not quantity. When you want anything, write. 3-10  
**PEARL LAWSON, STAUNTON, IND.**

**BUFF ORPINGTON SALE.** After June 15th I will sell my Breeding Stock at almost "Give Away" prices. Write now if you want a bargain. CHAS. J. MINNS, Box D, Millington, Michigan.

**Barred, Buff, White Plymouth Rocks.** Prize winners from best strains. Eggs half price after June 1st. Get our special price on incubator eggs. Brookside Poultry Farm, C. H. BARNES, Prop., Kalamazoo, Mich. Men in P. K. 3 12

**BLACK LANGSHANS**

A few fine cockerels at \$5 each. Brood brothers to my Boston winners.

**HENRY L. ALLEN, - Alden, New York.**

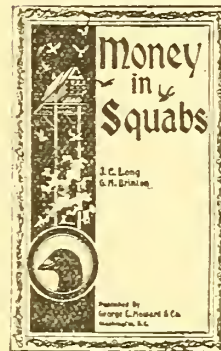
**INCUBATOR**

Plan, simplest and best hatcher in the world, any size, make it some rainy day—perfect plan \$1.00. Brooder plan, 20c; Chick Food recipe, 20c; Egg Maker recipe, 20c; Lice Killer recipe, 20c; Beginner's Directions for Brooder Chicks, 20c. All of above in one order for \$1.00.

**QUAKER SUPPLY COMPANY, Box K, Omaha, Nebraska.**

**Money in Squabs.**

**A Practical Treatise on Raising Squabs for Profit.**



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

A year's subscription to Poultry Keeper (50c and a copy of Money in Squabs (50c) for 75c. Or we will furnish Money in Squabs free as a premium for 2 subscriptions to Poultry Keeper at 50c each. Address,

**Poultry Keeper Publishing Co., Quincy, Illinois.**

**Incubator Eggs Our "Drive"**

Guaranteed fertile. From 30 varieties of thoroughbred fowls. Each kept on a SEPARATE FARM. Catalogue in colors FREE, if you mention Poultry Keeper,

**HARRIS-PATRICK POULTRY CO., Clay Center, Neb.**

**500 Wyandottes Half Price 500**

We offer for immediate sale 500 of our this year's breeders at less than one-half price; will sell in breeding pens of 6 hens and 1 male or in number to suit, at all the way from \$1.50 each up to \$5 each. Every bird of special merit. 100 grand cock birds among them. Every bird line-bred and from our noted New York, Chicago and Columbus winners. The finest blood in the world. This strain of White and Golden Wyandottes have won more first prizes at American and European great shows than any other strain. Eggs from our grand matings the rest of the season for \$1.50 per sitting; lower by the 100. Extra fine imported Belgian Hares at lowest prices ever offered for quality. Large circular showing 40 of our winners and describing America's largest Wyandotte farm. Don't delay, but order at once and get in before the rush. **IRA C. KELLER, BROOKSIDE FARM, Box 10, Prospect, Ohio.**



**THE MANURE FROM POULTRY.**

The preservation of the droppings in summer is difficult, as poultry manure rapidly decomposes and gives the poultry house a very unpleasant odor. This cannot well be avoided, even when the house is daily cleaned, but it can be so treated as not only to be of greater value, but also to lessen the disagreeable odor, to a certain extent. The roosts, of course, should be so arranged that the droppings will all fall on the platform. Keep the platform well covered with sifted dirt, half an inch thick. To do this is to first scatter the dirt, and then over the dirt scatter a handful of kaint (German potash salts), which will arrest the escape of the ammonia when decomposition begins. Two or three times a week (daily is better) sweep the platform with a broom, and after it is done sprinkle the platform and floor with a solution of a tablespoonful of carbolic acid in a gallon of water, and then scatter the dry dirt on the platform. The well-known Douglas mixture, composed of one pound of copperas, two gallons of water, and one ounce of sulphuric acid, is also an excellent disinfectant, and a very cheap compound, that can be used freely. Nothing parts with ammonia sooner than poultry manure, and only a short period is necessary for the manure to deteriorate. In the process of drying, the evaporating moisture hastens the loss of volatile matter. The fat acids are capable of forming compounds, which results where the droppings are kept moist with soap-suds (for they must never be allowed to become dry) and during the time the changes are occurring in the mass the insoluble portions are reduced and the whole rendered more available as a plant food, as well as retaining its value as a fertilizing agent. Plaster, muck, fine dirt, and sifted coal ashes may be used as absorbent materials.

**POULTRY AND EGG PRODUCT.**

The Agricultural Department furnishes the following, based on the figures of the last census report:

The grand total value of the annual output of eggs is now \$145,000,000, while that of poultry aggregates \$139,000,000. Iowa leads the states in the production of eggs, the yearly product of that state being 100,000,000 dozen. Ohio comes next with 91,000,000 dozen, Illinois is third with 86,000,000 dozen and Missouri fourth with 85,000,000 dozen. With the exception of Alaska and Hawaii, Montana pays the highest price for eggs, the average price being 20 cents a dozen. They are cheapest in Texas, where the average price last year was 7½ cents a dozen. The average price for the 16,000,000,000 eggs which were marketed in the United States last year was 11.15 cents a dozen.

"Pocket Book Pointers" is one of the most widely known poultry books issued. If you have not yet received the new edition for 1903, write for one to D. J. Lambert, Box P. Apponaug, R. I. Mailed free.

Have plenty of shade, over good melon earth—berry bushes, grape vines, a patch of corn or sunflowers. Keep the earth loosened so the chicks can wallow in the shade and dust during the heat of the day.

The Dallas County Poultry and Pet Stock Association will hold its annual show December 22-25, at Redfield, Iowa, with W. G. Warnock judge. Secretary, L. J. Ober.

**BREEDERS' CARDS****TOO LATE TO CLASSIFY.**

1,000 PHEASANTS, 20 varieties. Reeve Pheasants, \$15 pair. 2,000 Belgian Homers, 90c pair. Indian Runner Ducks, Cochins, Sebright Bantams, Silkies, Anconas, etc., 90c sitting. Fancy show Pigeons, Fantails, all colors, \$2 pair. Ring Doves, Quail, Mandarin, Wood Ducks, Swans, Turkeys, Peafowls, Roebuck, pedigreed Collies, Angora Goats, Deer, Belgian Hares, etc. Pamphlet illustrating all breeds. colored plates, valuable recipes, points on breeding, discount, exchanges, 10c. Reply stamp only. United States Pheasantry, Amityville, N. Y.

WYCKOFF, BLANCHARD, SINGLE Comb White Leghorns. Breeding stock from above parties last fall. No other fowls on farm. 300 choice cockerels; large, vigorous, high-scoring. Good enough to head the best pen in America, \$1 to \$5, as to quality and number wanted. Pullets, fine as silk. Write for particulars. C. N. Reynolds, Canton, Pa. 7-3

**FEED FOR 50 HENS \$1 PREPAID**  
FOR 60 DAYS  
Send for our FREE proposition. Booklet and Egg Record for the asking. THE FRED S. PECK CO., 218 West Mitchell St., Petoskey, Mich.

**WHITE AND BARRED P. ROCKS  
BLACK MINORCAS.**

First prize winners everywhere shown, scoring from 94 to 96½ points.

**STOCK AND EGGS FOR SALE.**

We can please you. Be sure to mention Poultry Keeper.

ANTHRACITE POULTRY YARDS, STOCKTON, PA.

MAPES' Scientific Incubator, Nurseries and Brooders. Prices F. O. B. Net. 60-Egg Incubator, \$8; 112-Egg Incubator, \$12; 224-Egg Incubator, \$18; 100-Chick Nursery Out Door, \$25; 100 Chick Nursery In Door, \$15; 50-Chick Out Door Brooder, \$22; 50-Chick In Door Brooder, \$15. Perfect Regulator and Ventilation. Best, Handiest, Surest of all. New principle. Catalogue. Send 3c for same and mention Poultry Keeper.

J. MAPES, CORNWALL, NEW YORK.

**HAVE YOU SUBSCRIBED TO****The Pan-American  
Poultry Magazine?**

If not do so at once and receive the first number. The first number will be published soon. It is entirely different from any other poultry paper. Get our catalogue of club offers; free if you mention P. K. Here is a sample of my club offers:

|                                |        |
|--------------------------------|--------|
| Poultry Success, - - -         | \$ .50 |
| Poultry Keeper, - - -          | .50    |
| Western Poultry Journal, - - - | .50    |
| Pan-Am. Poultry Magazine - - - | 1.00   |
| My Price for all four - - -    | 1.25   |

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**Success**

with

**Poultry**

Contains **MORE** and **BETTER** Practical, Reliable Information on the general subject of

**POULTRY FOR PROFIT**

Than any other book published. It treats of every branch of

**Practical Money Making Poultry**

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains **118 Pages** (9x12 inches in size) and **Cover and is The Best Poultry Book Yet Published.** Contents (briefly stated) are as follows:

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**Practical Poultry Houses (Plans).**

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**Model Brooding Houses (Plans).**

**Care of Adult Fowls.**

**Feeding for Eggs.**

**A Hen Catechism.**

**Feeding Young Chickens.**

**Care of Growing Stock.**

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The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

POULTRY KEEPER PUB. CO.,

QUINCY, ILL.



# QUESTIONS & ANSWERS

[In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

## DUCK AILMENTS.

Please tell me how to raise ducks. I have a few and after May they scratch their heads and in a few days they are weak and die. I wish you could tell me what the matter is with them.

A. P., Elizabethtown, N. Y.

Possibly your ducks have lice on their heads. If hatched and cared for by hens, this is quite probable. Examine carefully and put a little bit of lard on head and under each wing and sift with Cyphers Lice Powder. Also doctor hens same way.

Again, their nostrils may be clogged and they smother. Take a pin and clean them out thoroughly. A small hand syringe assists. You can easily get the hang of it. Have their drinking fountains so as to wholly immerse the bill. Keep them dry and clean.

F. E. Wheeler,  
Clovernook Duck Ranch.

## LOSING FEATHERS—AILMENT OF OVIDUCT.

1—The feathers on the backs of my White Wyandottes are breaking off little by little till they are gone completely. Please let me know the cause and cure of the trouble. I have a large, vigorous cockerel. Can it be his claws? I have cut the sharp ends off. Do you think it is some kind of disease?

2—One of my hens sits around and seldom moves except when picking some kind of white matter from the egg passage. Is she egg bound? The passage becomes sore from constant picking, so I cut off their heads. This one is the fourth case of this kind. Can you tell me what is the matter with them?

G. W. D., Omaha, Neb.

1—Probably the male is to blame, but

such conditions may be caused by lice or parasites. In such cases the head is usually attacked first. If there are little scabs or scales on the skin where the feathers are out bathe the nude parts with creoline one part to water thirty parts.

2—The hen may be egg-bound or may be suffering from inflammation of the oviduct. If the former, you can easily feel the egg in the colaca by pressure from the outside. If such is the case, lay her on her back, anoint the vent with vaseline, and expel the egg by pressing above the egg through the abdominal walls. If the egg is broken it must be removed, shell and all with the fingers or a pair of forceps. Then inject sweet oil in the passage. If no egg is found, the hen is suffering from inflammation of the oviduct. The treatment of this disease is not very satisfactory. It consists in injecting a weak solution of tannic acid (1 part to 100) to which a small quantity of chlorate of potash (2 parts to 100) has been added. The fluid should be made warm before it is injected and it should be administered carefully and in small quantities with a rubber syringe. Laxatives, such as castor oil or calomel should be given in sufficient quantities to keep the bowels loose. Feed sparingly.

## PILL KILLED THE CHICKS—FLOWERS—GAMES.

1—1 noticed a prescription in your last month's issue of a pill which I had made up. I found that the young chicks

cannot stand the pill. It killed every one that has taken them. Now, if you can give me any advice in regard to giving pill I would be only too glad to hear from you. Perhaps that prescription was not for young chicks.

2—Have you any book that will teach when to plant all kinds of flowers and how to treat during the blooming season. If so, please state price.

3—Have you a book that will teach the law on Game chickens, that is, the cockpit law? G. B., Baltimore, Md.

1—The pill for leg weakness given in May P. K. is certainly most reliable and can be given to half grown chicks without injury. There must have been some mistake in its preparation.

2—There are so many books on the culture of flowers that we hardly know which to recommend. We do not carry these books.

3—"Rules of the Cockpit" is the acknowledged standard on cocking rules. Price 25 cents.

## WATER FOR YOUNG CHICKS.

Will it do young chicks any harm to be allowed all the water they wish (providing it is fresh) from the time they are two days old until grown?

F. H. B., Watertown Arsenal, Mass.

No, give them all they want and do not let the fount get empty.

## CHICKS EAT NAILS, STICKS AND WIRE STAPLES.

Having had an experience to-day that is brand new to me, I take the liberty of asking space in P. K. to dictate it. As a preface, let me say that the flock—400 in number—in which this occurred is as fine a lot of eight weeks (and some seven weeks) old birds, Brown Leghorns, that one wants to see. They occupy six brooders in a fenced enclosure of about an acre, good grass, good, clean sand land, with a gentle slope south and west, clean water, beef scraps, grit and charcoal always before them, and a scant feed of cracked corn and wheat at 7 a. m. and 12 m. and a liberal feed at 6 p. m. To-day I began picking up dead chickens. Always the best and biggest. The number got so numerous that I determined to hold a post-mortem to discover the cause. Imagine my surprise when in the gizzard of the first chick I found a stick one and a quarter inches long! The second and fourth had the same. The third a three cornered piece of ground glass. The fifth a shingle nail. Then about ten with wire

## The Way to Make Your Poultry Pay

is to take a correspondence course with

# The Columbia School of Poultry Culture.

This splendidly equipped school is successfully teaching students in every walk of life the art of profitable poultry raising. At its head is Dr. A. A. Brigham, who is acknowledged one of to-day's foremost men in the poultry field, both as a practical poultryman and successful and inspiring teacher. Its faculty is composed of men of highest rank among poultry authorities and most successful breeders in the country.

All their valuable experience is yours for a very small fee. The course will pay for itself in practical suggestions the very first month. It is practical, individual and personal—being specially adapted to the needs and conditions of each individual student.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers and others who love poultry for their own sake, apart from financial considerations, can learn how to keep their pets in the best possible way and obtain the very best results from a fancier's standpoint.

Students are assisted to lucrative positions as managers of poultry plants and the demand for men far exceeds the supply.

A course will fit you to fill a good position at a handsome salary.

*Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.*

**THE COLUMBIA SCHOOL OF POULTRY CULTURE, BOX 102, WATERVILLE, N.J.**

**SPECIAL NOTE.**—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.



staples. One would think I was raising goats—not chickens—on a public dump. Now, how can I stop this? Must I pick up every stick one and a quarter inches long? D. W. G., Fortsville, N. Y.

There is no remedy to prevent chickens from eating nails, wire staples and sticks. You should bring them up better. If they had had a mother's gentle care perhaps they would have known better, but there is no telling what incubator chickens will do. Sharp grit might enable them to digest the sticks, but the nails and staples there is no help for.

**CONCRETE POULTRY HOUSES.**

Please tell in Poultry Keeper if concrete chicken houses would be better than lumber. I can erect concrete houses cheaper than lumber. There should be no fear from dampness in this dry climate. Would like to hear the experience of others. D. R., Woods Cross, Utah.

Concrete makes an excellent poultry house. There is no reason why such houses should be damper than a wooden house, if they are supplied with plenty of windows that can be opened. The writer knows of a concrete or grout poultry house that has been in use over ten years and is apparently as good as ever.

**THE BEST ALL-ROUND BREED.**

I am a young poultry enthusiast twelve years old, and have been raising chickens of a good breed for about two years.

1—I would like to know what breed of chickens you would recommend, for the best laying qualities, the best eating, the best sitting, and the least care, or, in fact, the best all-round hen. Of course, some breeds may excel it in some respect.

2—What is the matter with little chickens about a day old when they throw

their heads on their backs and are not able to stand? I have lost some that way. "Subscriber," Seattle, Wash.

1—One of the varieties of Plymouth Rocks or Wyandottes would probably suit you.

2—Probably not perfectly hatched or lack of vitality traceable to the breeding stock.

**PROBABLY INDIGESTION.**

Can you or some of your correspondents tell me what is the trouble with my chicks? Between three and six weeks old they become swollen in the lower and back parts of body, wings hang down and outward. They mope around three or four days and die. Eat a little all the time. I feed them rolled oats, whole wheat and scraps from the table, besides grass and garden truck. They have plenty of river sand and oyster shell. On opening one I found the gizzard twice the usual size. A. B. C., Marshalltown, Iowa.

Your chicks probably have indigestion. This may be caused by too rich food given in large quantities, sudden changes of weather or unsanitary conditions. Charcoal is an excellent preventive of this condition and will aid in a cure. Hydrochloric acid is highly recommended, but it must be freely diluted with water. One drop is a dose for three half grown chicks, and can be diluted with about three teaspoonfuls of

water. Pills of black pepper are good, as is also chopped onion in the food.

**WHY CHICKS DIE IN THE SHELL.**

Will you please state why chicks die in the shell in your next issue? Some die on the eighteenth day, others on nineteenth and twentieth. Many break the shell, but do not get out (shell full of chick). I have reference to the incubator. I have hatched over six hundred in the past nine weeks. M. A. S., Williamstown, Pa.

There are many ascribed causes for chicks dying in the shell, such as too much or too little heat, lack of ventilation, lack of moisture, too much moisture, etc. Whatever the predisposing cause the immediate cause is that they have failed to grow and when the time comes for them to leave the shell they are unprepared for the change, the allantois ceases to perform the function of supplying oxygen and the chick perishes. See article, "Good Incubator Hatching," on page 117, June P. K.

**MALT SPROUTS—LEGHORN BREEDERS.**

1—What is the feeding value of malt sprouts? In what proportion should they be fed to Leghorns?

2—If housed warmly and fed properly, are White Leghorns (Single Comb) as

**\$ 2.50 FOR \$ 1.00**

We will send each of the following monthly publications to any address for one dollar.

- WESTERN POULTRY WORLD..... 50c
- OKLAHOMA FANCIER'S JOURNAL..... 50c
- MID-WEST FANCIER..... 50c
- WESTERN POULTRY JOURNAL..... 50c
- FANCY FOWLS..... 50c

Publishers Price..... \$2.50

Send for our circular giving one 5000 combinations if this one does not please you. Circular free.

60 varieties of fancy fowls growing for the fall trade.

**OMEGA POULTRY YARD,**

Box K. Omega, Oklahoma.

**Make Your Poultry Pay**

by learning how to run the business. You are doomed to failure unless you are prepared to do your part. The way is made plain by taking a course in

**The American Poultry Institute.**

The only exclusive poultry culture institution in the world. Without leaving your home or business or incurring any considerable expense you can perfectly fit yourself for the business under our correspondence system of instruction. Every phase of the business completely covered.

**FACULTY OF 50 INSTRUCTORS,**

every one a poultry specialist. You get the right theories at first hand from practical men who have made a success of the work. Write for **Free Prospectus**. It makes plain our plan, gives names of instructors, terms, etc.

**THE AMERICAN POULTRY INSTITUTE, Dept. P-13, Powers Block, Rochester, N. Y.**

**NOW IS THE TIME TO USE SUREKIL Lice Paint.**

The Standard Remedy for all Kinds of Poultry Vermin. Kills Lice and Mites. Saves Money and Trouble.

Lice breed more rapidly in the summer months than at any other time—they injure the growing chicks, retard their growth and even kill them. Fowls suffer so much from the vermin that when fall comes they are not in fit condition to molt properly. Some die and others prove a disappointment in the breeding pen. Surekil Lice Paint prevents this. It is easy and safe to use, destroys vermin on poultry and all domestic animals. The fumes do the work; it is not necessary to handle the birds. Keeps destructive insects from attacking fruit trees and plants. As an insecticide it has no equal.

PRICES:—1 qt. cans, each 35c; 2 qt. cans, each 60c; 1 gal. cans, each \$1; 5 gal. cans, each \$4. Insist on your dealer supplying Surekil; accept no substitute as being "just as good." Agents wanted. (For agency, apply to Home Office, Buffalo, N. Y.)

**CYPHERS INCUBATOR COMPANY,**

BUFFALO, N. Y., Factory and Home Office. BOSTON, MASS., 34 Merchants Row. CHICAGO, ILL., 310 Fifth Avenue. NEW YORK, N. Y., 23 Barclay Street.





good winter layers as the larger breeds?

3-Which are the largest or heaviest, the Brown, Buff or White Leghorns?

4-We often hear that hens raised by artificial incubation do not make as good breeding stock as those raised by the natural methods. Is there any truth in this?

5-It is often said the occurrence of heavy thunderstorms just at the time chicks are to come out of the shell is very often destructive to them. Is this so? H. M. W., Pt. Washington, Wis.

1-The nutritive ratio of the digestible matter in malt sprouts is 1:2.2. The average analyses shows protein, 22.2 per cent; nitrogen-free extract, 48.5 per cent; fat-1.7 per cent. It can be fed in quantity of one-third to one-half ounce per hen each day.

2-Some strains are.

3-There should be no difference, but we believe there are more large Buff Leghorns than of the others.

4-We have never been able to discover any difference.

5-No.

**SORE HEAD—LOSS OF VOICE.**

1-Will you kindly give me a remedy for sore head? It is mostly among young chicks. They have free range and are fed principally on corn meal—quarters are clean

2-I have a fine Barred Rock cock on free range which has lost its voice. Seems well, except makes a hissing noise and can't crow at all.

C. A. McF., Manning, S. C.

1-Carbolic acid, 5 grains; powdered gum camphor, 20 grains; powdered menthol, 10 grains; thymol, 10 grains; vaseline, 2 ounces. Mix thoroughly and rub on head and around eyes.

2-The trouble with the cock is prob-

ably caused by minute parasites in the air passages and windpipe. The inhalation of the vapor of tar or of burning sulphur is as promising as anything.

**CAPONIZING—BEST FOOD FOR CHICKS.**

1-Is the Poultry Keeper Published in German?

2-What is meant by caponizing? How is it done and for what reasons?

3-What is the best food for chicks just hatched? A. J. S., Cleveland, Ohio.

1-No.

2-Caponizing is to castrate cockerels. It is done by cutting a hole in the sides of the bird and removing the testicles. The object is to improve the quality of the flesh, make the bird more quiet and promote growth. See article elsewhere in this issue.

3-There is no "best" food for little chicks. Oat flakes, cracked grain and millet seed are as good as anything. When a week old add beef scraps.

**FIRST FEED FOR DUCKS.**

I am trying to raise a few ducks. What do you think would be the best feed for them the first three weeks? They are White Pekin ducks.

L. S., Kennebunk, Me.

For the first week feed equal parts of corn meal, bran, N. 2 flour and about ten per cent of coarse sand or grit thoroughly mixed with enough water to make it moist and crumbly. Feed four times a day. For second and third weeks add eight per cent beef scraps and if tender, green grass or lettuce can be had make

the feed about one-fourth of this- cut fine. Unless the grass is tender do not use it. After the fourth week it is only necessary to feed three times a day.

**WANTS TO HEAR FROM BLACK JAVA BREEDERS.**

Would like to have an article in Poultry Keeper from some one who is posted on Black Javas. S. O. W., Buffalo, N. Y.

The Black Java is an excellent fowl and deserving of popularity. At one time they were considered the most profitable of all breeds. In size they are about the same as the Plymouth Rocks. Let some of the breeders of Black Javas tell the readers of P. K. of their many good qualities.

**HOUSE, YARDS AND FEED.**

1-I have a house 20x20 feet, divided into four compartments, two on each side, and hall in middle (four feet), making each pen 8x10 feet. How many hens can I keep in each one of these pens?

2-I have yards 60x60, shaded by peach trees and planted in barley, and when the hens are at the end of the run you

**Lee of Omaha**



makes the best lice and mite killer for poultry—Lee's Lice Killer. A liquid—simply spray or sprinkle on the roosts. No handling of fowls. No labor or bother. Kills both body-lice and mites. Sold in every state at 35 cts. per qt., 81 per gal. Send for free catalogue, poultry booklet and calendar, list of 3,000 agencies, etc. GEO. H. LEE CO., Omaha, Neb.

**White.:.Plymouth.:.Rocks**

are now justly conceded to be the **Best General Purpose Fowl** in existence. As **Egg Producers They Excel Everything**. As a **Table Fowl** There is **No Breed Their Equal**. As a **Fancier's Pet** None so **Beautiful**. Then, dear, reader, why ponder over what breed to buy or where to buy it when . . . . .

**=U. R. FISHEL'S=**

36-page CATALOG tells you all about his famous White Plymouth Rocks. This Catalogue is free and all we ask is a 2 cent stamp to pay the postage. Information worth hundreds of dollars to any White Rock Breeder contained within its leaves. I have now over five thousand chicks and need room for them, therefore am offering at . . . . .

**==SPECIAL SALE==**

The grandest lot of White Rocks (fowls, no chicks for sale until after Sept. 1) ever sold by any breeder. Choice breeding Pens, Trios, Pairs and Single Birds. Egg Producers in lots of 25, 50 or 100. These birds must be sold, therefore if you are contemplating buying poultry within the next year it will surely pay you to get my prices. You know the quality of the FISHEL White Rocks is unexcelled and my prices are as low as quality is high. Do not delay but write me your wants and I assure you I can please you. Remember the Fishel's White Rocks are . . . . .

**THE BEST IN THE WORLD**

**U. R. FISHEL, BOX K, HOPE, IND.**





can't see them. Do you think this is a good run and how many hens can I keep in it?

3-If I cut it half in two can I keep twenty-five Plymouth Rocks in each?

4-I feed one ounce of corn meal and bran in morning to each fowl; and corn, millet and oats at night. Do you think this could be improved any way?

5-Can I run breeding pen on up to the molting time and get nice chicks from them? L. H. Waverly, Ala.

1-Ten or twelve.

2-It would be a good run for twenty-five hens.

3-Yards 30x60 are sufficient for twenty-five fowls if kept in grass or green crops.

4-Your ration would be improved by adding one-fourth ounce of beef scraps or meat meal to the mash, or the scraps could be fed at night with the grain.

5-Yes, but chicks do not do as well in hot weather unless given extra care.

**BOWEL TROUBLE—BEEF SCRAPS.**

1-Will you tell me through your paper what is the matter with my chicks? They eat all right, but the droppings collect on the body and finally the back part is plastered all over and then they die. Have used both dry and wet feed.

2-How much dried beef scraps would you feed to one hundred Barred Rock chicks averaging one-half pound? L. M. C., Midland P. O., Mo.

1-Your chicks have bowel trouble. Give them a feed of rice boiled in milk, to which add a small quantity of venetian red or cinnamon, once a day until trouble ceases. Keep charcoal before the chicks or mix it in the feed as a preventive.

2-About half a pint once a day.

**BUFF ORPINGTONS.**

I bought a trio of Buff Orpingtons this spring, costing me \$12. I thought I was paying enough to get good birds, but I find many of the chicks are feathered to the toes. Is that as it should be? Will it do to breed from such? Mrs. L. E. S., Norden, Neb.

This is a quite common fault. We would not breed from those having feathers on the shanks.

**CAUSED BY PARASITES.**

Have been a constant reader and ardent admirer of your publication for more than a year. Will ask your valued advice with regard to a disease that seems to be spreading among my flock of chickens. I first noticed it in my White Plymouth Rock hens, then my White Leghorns and now it is epidemic with my young stock, affecting more the white kinds than the Barred Rocks. It is a skin trouble and seems to be a kind of scurf and finally the skin sloughs off. I have lost two of the young ones. They first look pale, refuse food and pick at the affected parts a great deal. The feathers, of course, shed wherever the disease appears. I have no mites among them so don't know what causes it. I feed three times a day, the young stock a mixture of cracked corn and wheat bran. Have plentiful supply of grit and fresh water and are well housed. Any assistance will be greatly appreciated. Mrs. J. B. T., Gadsden, Ala.

The trouble is caused by parasites. Disinfect the premises the fowls have occupied very thoroughly. For individual treatment apply Balsam of Peru dissolved in alcohol (1 part to 5). This can be applied with a sponge or soft brush. Another efficient application is sulphur ointment.

**SMALL EGGS.**


I will state an occurrence which fell to my lot while breeding poultry. I first

started to breed Buff Leghorns, but discarded them for Buff Wyandottes, which I have bred for some years back. As my pullets began to lay, one fall, I noticed a small egg in the nest every day or so, and sometimes on the floor. I first thought it the first or last egg of a litter, but by watching I found it was an early pullet. I kept close watch and found some fourteen or fifteen eggs, all nearly alike—near enough to satisfy me they were from this same pullet. I kept these eggs a long time until this pullet became broody, then broke some of them and found they had no yolk. I let her lay for some time and then killed her. Perhaps some of P. K.'s readers can explain this. G. E. C., Fulton, N. Y.

The trouble was doubtless due to a malformation or diseased condition of the ovary or oviduct. We have known of numerous cases of this kind. She might have outgrown it in time, but it is rather doubtful.

Croley's Egg Record is a neat and handy little book with ruled, ready-to-use pages for keeping egg records. Send 10c in stamps for book to Poultry Keeper office.

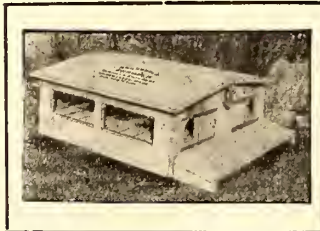
**A Hundred Per Cent**  
is no uncommon hatch for Petaluma Incubators. They are the oldest and most reliable machines on the market. Results are uniform and always high. Redwood and copper materials. Devices purely automatic and pure. Write for free catalogue.  
**PETALUMA INCUBATOR CO.**  
Box 147 Petaluma, Cal. Box 147 Indianapolis, Ind.



**IS THERE ANY REASON** why you should pay the dealer a large profit for selling you fence when you can buy the **ADVANCE FENCE** direct from our factory at manufacturer's prices? There is no better farm fence made. Entirely interwoven—no ends to get loose and injure stock or ravel out. Many heights. Circulars and special discounts free.  
**ADVANCE FENCE CO., 140 E. St., Peoria, Ill.**



**TRY AN IDEAL.**  
J. W. Miller's incubator—made by the man who knows. It is really self-regulating.  
**30 DAYS FREE TRIAL**  
We get no money until you are perfectly satisfied. Poultry Book Free.  
**J. W. MILLER CO.,** Freeport, Ill.  
Box 19, (Poultry supplies and thoroughbred fowls.)

**The Branhholm Brooder..**

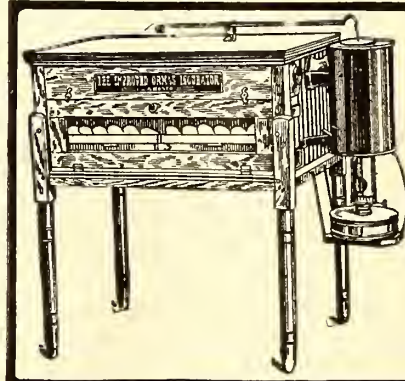
Excels all others, is the nearest to nature.

Absolutely safe, most simple, durable, economical and the only combination brooder manufactured.

For prices and particulars address,

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and be sure to mention Poultry Keeper. 12-2



**INCUBATORS**

From \$8 up

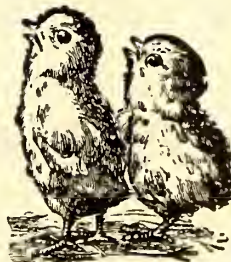
**BROODERS**

From \$4 up

Self Regulators, Self Ventilators, No Supplied Moisture. Made of best California Redwood. Easy to operate. Fully guaranteed. Automatic Brass Regulator Automatic Ventilation. Send for Free Catalog.

**L. A. BANTA, Ligonier, Ind.**

**LITTLE CHICKS**



Is the title of a new book edited by M. K. BOYER, editor of Farm, Garden and Poultry. It contains special articles on Feed and Care, Raising Chicks in Brooders, Raising Chicks with Brooders and Hens, General Management, Natural and Artificial Methods, Colors of Young Chicks, Time to Hatch, Diseases, Houdan Chicks, Lice, etc.

**Thirty-four Different Methods of Feeding Chicks.**

The contributors of this book are M. K. Boyer, A. F. Cooper, W. W. Kulp, G. W. Nones, A. G. Duston, P. H. Jacobs, M. V. Norys, and other prominent writers. Everybody should have a copy of this book for reference, as it is the only one published in the interest of little chicks. Over 150 pages. Price 50c. postpaid.

**POULTRY KEEPER PUBLISHING CO.,**  
**QUINCY, ILLINOIS.**



## INFERTILE EGGS—CAUSES—WHY HAVE THEM ?

Henry M. Hacker, Lynn, Mass.

**F**IND from close observation and practical experience that there are no good reasons why eggs should not be fertile if the stock is healthy and kept vigorous—which means that work which should be done to-day must not be put off until to-morrow. And this is the price of success in any undertaking or business. Good eggs for hatching, with a high percentage of fertility, can always be obtained if conditions are right to start with and are continued right. This is the secret, if there be any, of getting a good lot of eggs early and regularly all the time except during the resting or molting season.

The hen business means work. There is always something to be done about the plant, be it large or small, and to insure success it must be done right and well done. People often ask these questions: Does it pay to keep hens? Can I make any profit? Most assuredly you can get good returns for money invested. Good hens, properly fed and housed, will lay steadily right along, and you can't stop them unless you neglect them.

And for the same reasons, hens which are not laying can be put in laying condition with proper handling, and this is the foundation of getting good sound fertile eggs for hatching. Vigorous, good stock is not raised (except the eggs are bought) in a few weeks or months, and eggs that hatch well come from stock that is in prime condition in November, December, January and February—long before the time of caring for the chickens.

Too many people look in vain for fertile eggs that will hatch out well from

poor, ill housed, under-conditioned fowl. When they purchase eggs they don't investigate and properly look into the conditions and surroundings of stock from which the eggs have come, and they know nothing of the breeder from whom they get eggs for hatching. If the egg hatching trade is to keep up and increase, the condition of the fowl must be better and more care must be exercised to send only good eggs than is generally given by parties selling eggs for hatching. This careless way of doing has hurt the sale of eggs for hatching very much.

If fowl are well housed, kept strictly clean, supplied with fresh water, sharp grit and plenty of oyster shell, and rightly fed, with proper exercise, so they must work, no condition powders will be needed. There should be one good male to eight or ten fowls to pen, not over ten or twelve hens, except under some particular conditions (very vigorous male), and then you begin to take chances of infertile eggs and weak chickens.

I find in looking into this matter carefully that the keeping of too many hens crowded together, with one male, is one of the main causes of infertile eggs and weak chickens. It costs money and time to acquire first-class males, and to house and feed them in season and keep when not breeding from them.

Until buyers insist on good, vigorous stock, well kept, well housed and small pens, and demand and pay for fresh eggs, newly laid, unless care is exercised in purchasing, just so long will they get poor results. There is no need of having poor hatches or weak stock if the stock

is good and the conditions are right. Eggs should not be sold or accepted for hatching unless they are strictly fresh. You can't get any or good chickens from stale eggs.

How many hens are set, how many incubators are filled up with old poor eggs, because they are cheap. Now it is in season to blame the incubator, heat, ventilation, moisture, etc., when in reality the trouble is with the eggs. Pay fair price, and insist on fresh, new-laid eggs. If you exercise proper care in hatching, and do your part well, you will invariably get good percentage of healthy chickens.

If you purchase eggs for hatching and they do not hatch out well, don't be afraid to let the parties of whom you bought the eggs know it. It won't cost much, and will do you good, and it may be a benefit to you, and others also. Parties selling eggs for hatching usually get good money and should be willing to give good value. My experience is, people as a general thing, get what they pay for.

## WHITE WYANDOTTES

Short Braks, Short Legs, Red Fyes, Short Necks, Yellow Braks, Full Breasts, Short Backs, Yellow Legs, Correct Cmbs. White all over.

E. H. SMITH, Board of Trade, Duluth, Minn.

**CLIMAX LEG BANDS**  
THE OLD RELIABLE

Easy-to-Put-On and Stay-On Kind  
Still Lead The World. Write For  
Samples and You'll Know Why.

Prices Packed, 12 for 25c; 25, 40c; 50, 75c;  
75, \$1.00; 100, \$1.35. Give Size Wanted.

THE KEYES-DAVIS CO., Ltd., Mfgs.  
Battle Creek, Mich.

**POCKET  
MONEY  
HENS.....**

Eggs from all my Buff Wyandottes, for \$1 per sitting. This includes Eggs from my \$5 matings. I am also ready to sell part of my 1903 breeders at low prices for the quality of record **BUFF WYANDOTTES** I have. Yearling hens from \$2 to \$4; Cocks from \$4 to \$10. Tell me what you need. Boston and New York winning stock bred to great egg work.

**DR. N. W. SANBORN, Box 66, Bellingham, Mass.**

# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected. Bred over 20 years. **GREATEST EGG LAYING STRAIN IN EXISTENCE. LARGE, PURE WHITE, FANCY MARKET EGGS. STANDARD QUALITIES. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME.** Unexcelled for **INTRODUCING BLOOD** or as **FOUNDATION STOCK. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. EGGS FOR HATCHING A SPECIALTY.** \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Illustrated circular free if you mention Poultry Keeper.

**H. J. BLANCHARD, GROTON, NEW YORK.**



## Trade- **NAPCREOL** -Mark

**A FLUID DISINFECTANT.**

**KILLS GERMS, DESTROYS ODORS, PREVENTS DISEASE.**

Cyphers Incubator Co., Buffalo, N. Y.

Andover, Mass., Feb. 7th, 1903.

I can strongly recommend your "Napcreol"; it is indeed all you claim for it. I have given it a severe test as a mite destroyer and it did the work to my entire satisfaction. In cases of scaly legs, it is a sure cure. For sweetening poultry houses, brooders and drinking fountains, it is the most reliable disinfectant I have yet used. Very truly yours, C. BRICAULT, M. D. V.

**Prices:** Half-gallon can, 85c. Gallon can, \$1.50. Ask your dealer for Napcreol. Agents Wanted. (For agency apply to home office, Buffalo, N. Y.)

**CYPHERS INCUBATOR COMPANY,**

**BUFFALO, N. Y.,**  
Factory and Home Office.

**BOSTON, MASS.,**  
34 Merchants Row.

**CHICAGO, ILL.,**  
310 Fifth Avenue.

**NEW YORK, N. Y.,**  
23 Barclay Street.



**HATCHING AND RAISING BANTAMS.**

(Continued from Page 143.)

we consider it an absolute necessity to regard them. Keep before the chicks at all times fine sharp grit and clean fresh water. Feed often cooked meat in small quantities and provide plenty of green food. Have a shelter from the sun as well as from rain, and have a tight box with ventilation for night quarters, or rather have a box open only on one side and not too much open at that for ventilation. Use a good liquid lice killer around the boxes and keep the floor clean by means of a layer of sand or dry dirt spread upon it. In short, keep your chicks clean, free from lice and give them a good amount of time. You will not regret it in the fall.

**AMERICAN INCUBATORS AND BROODERS ABROAD.**

Concerning the magnificent business done by their agents in foreign countries, the Prairie State Incubator Co., of Homer City, Pa, make the following report:

The demand from these two agents (Robt. A. Colt, Lim't'd, agent for the British Isles, France, German, Belgium, Spain, Switzerland, Holland, Sweden, Norway, Denmark, Portugal and Italy; and Wm. E. Peck & Co., agent for So. Africa, Australia, New Zealand and Brazil) has been gratifying and astonished all parties concerned. The demand from England was beyond the capacity of the Prairie State Inc. Co. to meet and doubtless one-half more machines could have been sold there had the factory been able to turn them out.

To prevent any such shortage next season and anticipating a very much larger demand, Mr. Colt, on his recent visit to America placed an orders with the Prairie State Incubator Co. for 4,100 incubators and brooders, which is undoubtedly the largest single order ever given an incubator manufacturer. The Messrs. Peck & Co also placed an order with Mr. Cooper the same day for from 1,000 to 1,200 machines. The total amount involved in the two orders is about \$71,000.

The Prairie State Incubator Co. had already decided to increase the output of its factory and to keep it running full capacity all through the summer months, putting in a new 30 h. p. gas engine as supplementary power and more machinery in the iron working department to facilitate the work and lessen hand labor and expense.

The future looks extremely bright for the Prairie State Incubator Co. and it will not only have to "get busy," but keep busy, as the home demand is also increasing largely every year.

**Raised Over a Thousand Chicks.**

W. F. Chamberlain, Esq.

Colchester, Ill., June 16, 1903.  
Enclosed please find my check for \$2.50 for 100 pounds Chamberlain's Perfect Chick Feed. I have raised over one thousand R. C. and S. C. Brown Leghorn chicks on your feed this year and it gives the chicks just what they want.

I put 101 chicks in one brooder of my own make and in six weeks had 100 chicks in the colony house, one having been killed by accident, all well and strong. If you know of a better feed for chicks that will produce better results with my brooder, I should like to have it.

Please send this order by freight as

soon as possible, and next year shall want you to give me figures on ton lots. Very truly yours,  
Charles M. Johnson.  
(See back cover for ad of "Chamberlain's Perfect Chick Feed".)

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical



instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**WHEAT KEY INCUBATOR CO.**  
SPRINGFIELD, OHIO  
\$5.00 50 EGG SIZES \$450.00 PREMIUMS CATALOGUE 2 CTS  
\$9.50 100 EGG SIZES  
\$15.00 200 EGG SIZES  
REGULATING VALVE TRIAL AUTOMATIC MOISTURE

**WANT EGGS?**  
**The HUMPHREY**  
Open Hopper  
**GREEN BONE and VEGETABLE CUTTER**  
doubles egg yield, cuts feed bill in half. Guaranteed to cut more bone in less time, with less labor than any other. Send for special trial offer and handsome catalogue.  
**HUMPHREY & SONS,**  
Box 26, Joliet, Illinois.

**EGGS** Eggs by sitting or hundred guaranteed fertile and of prize stock. I breed 23 varieties of land and water fowls, all of prize winning kind. It's worth while to get the best. Prices are right. Special discounts on eggs after May 1st. Write for free catalogue.  
**D. A. MOUNT,**  
Box L, Jamesburg, N. J.  
The Plee Tree Farm.

**BIRDS**

**Tell all Poultry Troubles** to us. Our poultry specialists will answer and advise you free of charge. We carry a  
**FULL LINE OF SUPPLIES**  
Everything the best of its kind, from markers to incubators. Our catalogue will interest and profit you. Mailed free; ask for Catalogue G.  
**W. J. GIBSON & CO., (Inc.) UNION STOCK YARDS, CHICAGO.**  
Dept. Mgr., H. M. Horton, Director Nat'l Poultry Association.

**SWAN'S FELT ROOFING**  
**EXTRA HEAVY**  
In use by thousands of poultrymen. For samples, circulars and prices f. o. b. Chicago or New York, address  
**THE A. F. SWAN COMPANY, 116 Nassau Street, New York.**

**KILLED BY THE FUMES.**  
You must kill the lice on the fowls some way. If you don't care to handle them singly, use our liquid  
**PRUSSIAN LICE KILLER.**  
Simply paint the roosts and drop boards with it. The fumes arise and kill the lice on fowl and pen. It catches them all to the last mite, and it takes the nit as soon as it comes to life. The fumes do the work. It is the perfect, easy method of protection and cure. But if you like the powder treatment better, don't forget the old reliable **Prussian Lice Powder.**  
Enclosed please find 40 cents for another can of lice powder. We were well pleased with the first can, but we need and must have more.—H. F. Lake, Yankton, S. D.  
**Prices: Lice Killer, 50c and \$1.00; 5 gallon can, \$4.00. Lice Powder, 25c; by mail 40c.** Remember also our famous **Prussian Poultry Food.** Get either of these from your dealer. If you don't find them write us at once. We will supply you and send you also our 68-page book.  
**PRUSSIAN STOCK FOOD & REMEDY CO., ST. PAUL, MINN.**  
Special Agents: Portland Seed Co., Portland, Oregon. H. W. Williams & Co., Ft. Worth, Texas.

Agents, Vaughn Seed Store, Chicago, Ill., J. W. Wilder & Co., Cincinnati, Ohio.



**Who Said They Were't King Crammering Machines?**  
Printed instructions free of great value. Cost of food to be fed. \$26 per ton from your grain dealer.

"MARY L." The Largest Poultry Plant in the World.  
SIDNEY, OHIO., Dec. 1, 1902.

W. H. Allen, Arlington, Mass.  
Dear Sir: In reply to your favor of the 29th inst., would say; I am using 12 of your stuffing machines, with entire satisfaction.  
Respectfully Yours,  
(Signed) JOHN LOUGHLIN.

CLEVELAND, OHIO, April 11, 1903.  
Mr. Wm. H. Allen, Jr., Arlington, Mass.

Dear Sir: Your kind letter is at hand. The machine is in good working order and we like it very well. We have seen some other makes and are free to say that yours is the most practical and substantial of them all. Our work has been largely experimental, but the results are entirely satisfactory.  
Cordially Yours,

(Signed) HENRY M. LADD, Prop. Crescent Farm.  
Send for testimonials. Please mention P. K. when writing.  
**W. H. ALLEN, JR., ARLINGTON, MASS.**



**A COMPACT POULTRY PLANT.**

Editor Poultry Keeper.

I have just completed a new chicken yard and houses for my flock of White Wyandottes. I live in town and have a piece of ground 132 feet square. On this are built my house and a brooder house, granary and chicken house. The entire plat is fenced chicken tight with 50-inch wire fence, and inside the outer fence is a chicken yard 75x54 feet. Fruit trees (plums and cherries) have been planted in all parts of the grounds, including the chicken yard. My plums are ten feet apart and cherries fifteen. In the evening my chickens are allowed to run over the outer yard for a couple of hours.

My chicken house is 14x18 and is well built. My roosts are placed thirty-six inches from the floor and have a solid dropping board six inches below the roosts. The roosting platform is ten feet square and is hinged on one side and stands on legs at the other. All roosts and supports are movable.

An open space runs around three sides of the roosting platform and in cold weather this platform will be surrounded by a canvas curtain extending from the ceiling to the dropping board, practically making a canvas tent inside the chicken house for the roosting room. The floor space beneath the roosting platform is unoccupied and gives the hens plenty of exercise room. Nest boxes are arranged along the wall on the floor. In the winter time I remove all roosters and cockerels from this place to another built expressly for them. I expect to keep seventy-five hens in this house this winter.

My brooder house may seem novel to a majority of poultry keepers. The building is six by ten feet in size and built double of matched lumber both inside and out. It stands north and south. The door is in the south end and there are two double sash windows in the east side. I have a cinder floor six inches thick and this is covered with a coat of cement and cinders, making it perfectly dry and rat proof, as well as easily flushed with the hose attached to a force pump.

In the southwest corner of the house is built a galvanized iron box about two feet square for a lamp. From this box a four-inch galvanized iron pipe (such as is used in piping water from roofs to cisterns) extends to the north end of the building, thence to the east wall, thence south to the southeast corner of the room where it leaves the building and allows the gas to escape to the outside. This pipe, or hot air tube, is fixed about twelve inches from the floor and about eight inches from the walls of the room. It is covered by a 12-inch board along each edge of which is attached a strip of canvas slit every two inches, thus forming a hover or heated tent for the chicks.

The space in the center of the room affords a splendid exercise room and is sufficiently heated from escaped heat from the heating pipe to make it comfortable at all times. Of course, it is much warmer beneath the hover. One of the windows is open from the top at all times, the size of the opening being regulated by the condition of the weather. The floor is kept covered with chaff taken from the bottom of the manger in the barn.

The chicks are taken directly from the incubator to this building and fed dry

feed and plenty of water. The first feed is dry oatmeal and hard boiled eggs. In a few days their ration consists of wheat screenings and table scraps. A box of clean, sharp sand and small grit is kept in the house. I also feed bran and middlings, equal parts, mixed dry. This is fed in a trough and is relished greatly. No wet food of any sort is fed.

After the chicks leave this house (in about four weeks) they are cared for under cold hovers made by taking a twelve-inch board about six feet long and nailing strips of woolen cloth on the under side, covering the entire bottom of the board, the strips being nailed about three inches apart and slit every three inches. End pieces are then nailed to the board to keep it at proper height from the floor and the pieces of woolen cloth reach just to the floor and afford a splendid hover for three to six weeks old chicks.

I "break up" my sitting hens by placing them in a small coop in the chicken yard. The coops are two feet square and two feet high, with a gable roof. Beneath the roof is a roost and the hen usually takes to the roost the second night out. I feed dry feed exclusively and have never had a sick chicken.

J. J. Eimers.

South Sioux City, Neb.



Nothing on Earth will do it like Sheridan's Powder.

Thousands of successful Poultry-Keeper's all over the country owe no small portion of their success to the practice of mixing with the mash food given to their poultry every day, a small quantity of SHERIDAN'S CONDITION POWDER. It has been used and indorsed by Poultry-Raisers over thirty years, and for all kinds of poultry.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$5. Sample copy best Poultry paper free. I. S. JOHNSON & CO., Boston, Mass.

**STEINMESCH'S FEEDS**

|                                 | Per 100 lbs |
|---------------------------------|-------------|
| Extra Quality Chick Feed.....   | \$2.50      |
| Extra Quality Chicken Feed..... | 2.00        |
| Extra Quality Pigeon Feed.....  | 2.00        |
| Early Breakfast Mash.....       | 2.50        |
| Cut Clover Hay.....             | 2.00        |
| Red Clover Meal.....            | 2.00        |
| Best Winter Wheat Bran.....     | 1.00        |
| Select Kaffir Corn.....         | 1.10        |
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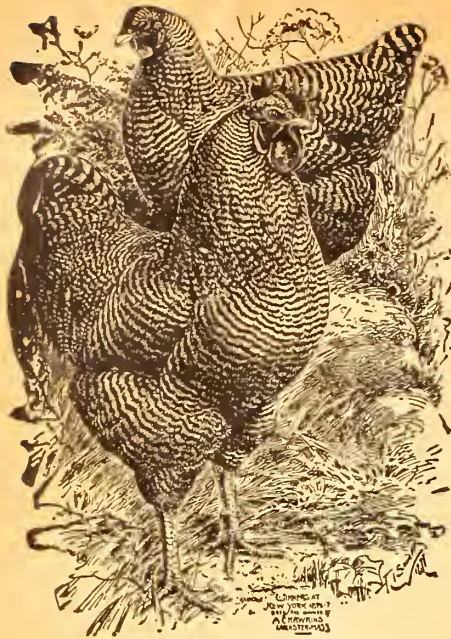
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No. 5.

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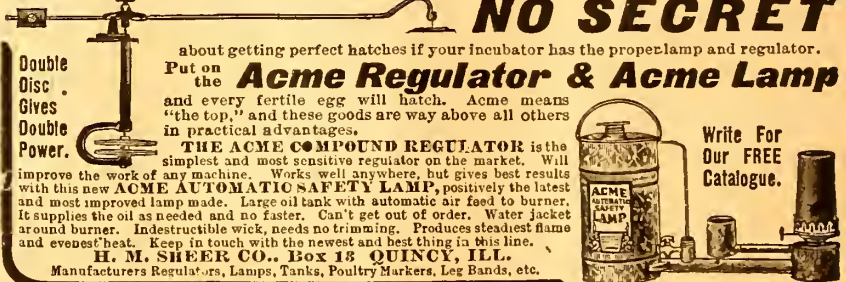
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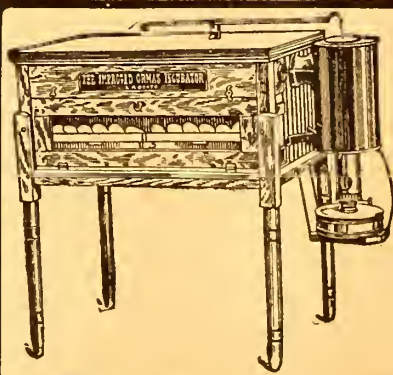
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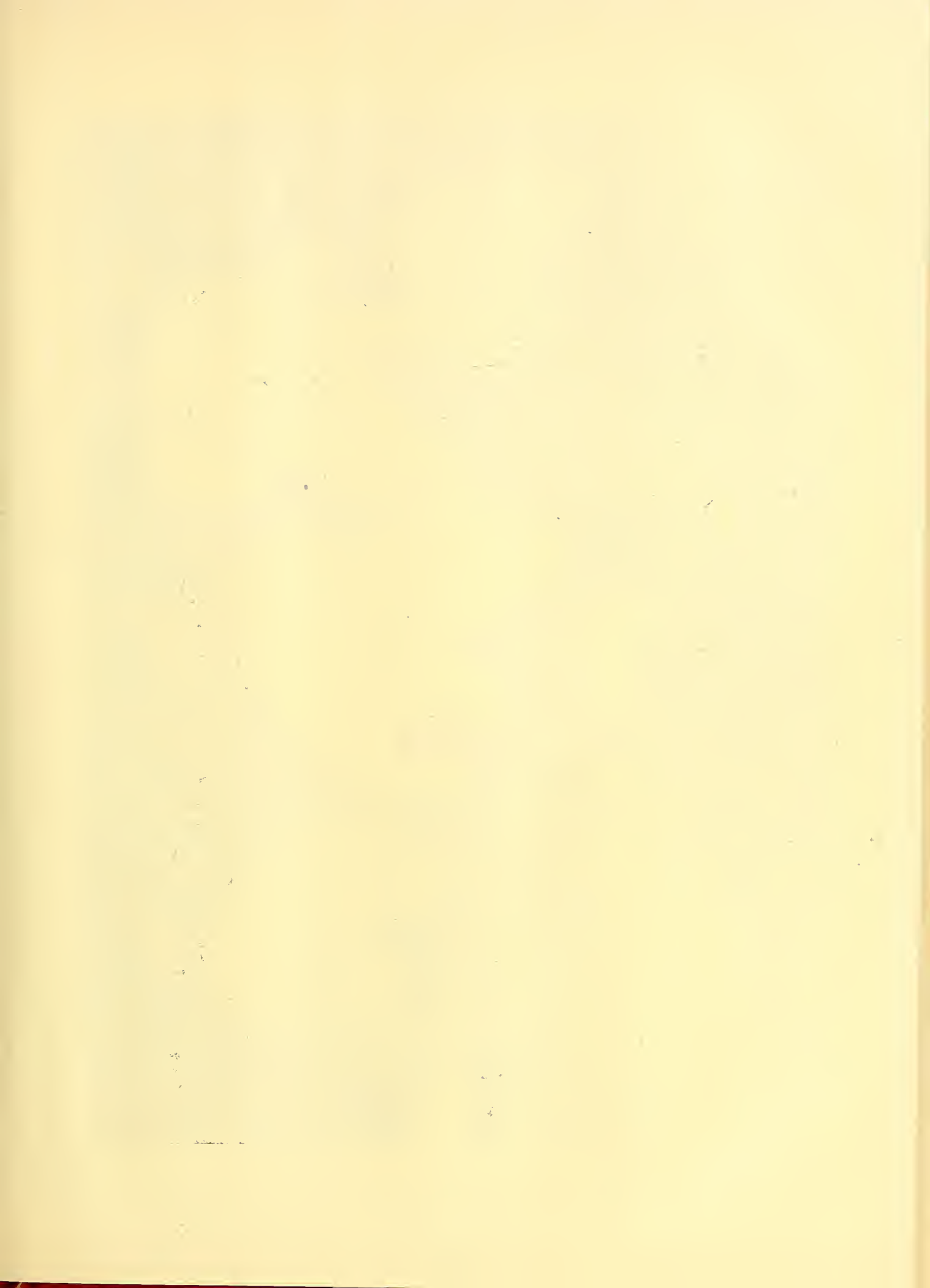


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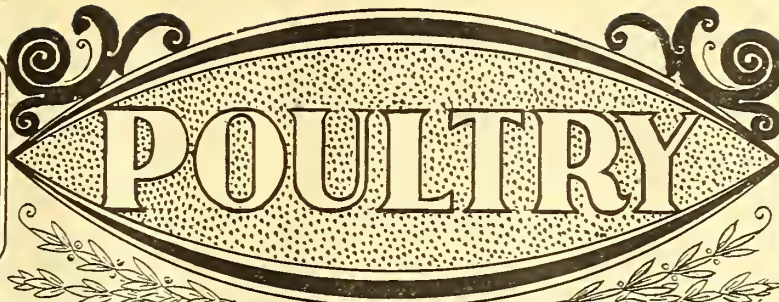




FIRST PRIZE PEN OF WHITE WYANDOTTES AT INDIANAPOLIS, SEASON 1902.  
Owned by J. C. Fishel & Son, Hope, Ind. From Life by Burt N. Pierce.



# THE



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# KEEPER

IN MAKING  
POULTRY,  
PAY

Vol. XX.

QUINCY, ILLINOIS, AUGUST 15, 1903.

No. 5.

## THE WYANDOTTES; ORIGIN AND PRESENT WORTH.

One of our Foremost Fancy and Market Fowls—The Breeding of the Silver and White Varieties.

By J. C. Fishel, of Hope, Ind

**T**HE origin of our Wyandottes is shrouded in mystery. Many claims have been made as to how and when the breed originated, but so far all claims have been proved groundless when the searchlight of investigation was turned on them. The best, in fact the only reliable authority that I can obtain gives New York state as their home, where as far back as thirty years ago the Silver Wyandottes, or at least the breed from which our beautiful Silvers of to-day were bred, were found among the farmers. No one seemed to know just what crosses were used to produce them, but their general make-up at that time showed clearly that at least two of our oldest varieties, the Dark Brahas and Silver Spangled Hamburgs entered largely in the combination.

That some other variety was used was proved when the first two named varieties were bred together in an effort to secure new blood. The progeny of this Dark Brahma and Hamburg cross, while showing some of the Wyandotte characteristics did not equal them in either shape or color, in fact they were so inferior that it was never considered wise to use them, and the Silvers as found then were bred in line with the best that could be obtained. And to this, perhaps, as much as anything else we can give credit for the remarkably fine shape of this breed.

The line breeding that was practiced year after year fixed a type that for shape has no superior in our American fowls. This shape referred to was before all sorts of crosses were resorted to in order to get the big open centers in the Silver females. And fortunately the White sports, from which the most popular of all the Wyandotte family came, sported at a time when the Silvers were bred in their purity, and when their shape far excelled the winners of this variety at the present time.

While the origin of the Silvers, will always remain in doubt, there is no guess-

ing about the origin of the White variety. They were pure albinos, or white sports from the Silvers, and came without resorting to any of the outside crosses, which were necessary to produce the other sub-varieties of this most popular of all American breeds. Strange as it may seem, the darkest strains of Silvers were the ones that sported the whitest chicks, and enough of them were found in different parts of the country to allow the breeders to secure all the new blood required to keep size, vigor and correct shape from the start.

**Their Popularity as a Market Fowl.**

It is a fact that the White Wyandottes of to-day lead all varieties of this popu-



Adjustable Hinged Front Piano Box Poultry House.

lar breed in shape and in the majority of cases surpass them as layers and in quick growth. Their value as a market fowl surpasses that of any variety or any breed, and such careful attention has been given them by the big market breeders that they command the highest prices in the poultry market of the world. As

layers of large, well shaped, handsomely colored eggs, they have no superior even among the non-sitters. As for broilers, they will finish to two pounds with as little feed and less care than any breed or variety.

**Their Worth From a Fancy Standpoint.**

As a fancy fowl they command as high prices as were ever paid for any breed, \$100 being no uncommon price for a single specimen, and more than twice this amount for some of the choicest exhibition specimens has been paid. One dollar each for eggs has been asked and received, and I can truthfully say that the cheapest birds I ever bought came from one dollar eggs. If you want the best you must pay for it. This rule holds good in every business, and fancy poultry is no exception. You will find it is cheaper in the end to start right.

**A PIANO-BOX POULTRY HOUSE.**

Did you ever think of the possibilities there are in two piano cases, which can be bought in the nearest city for fifty cents apiece?

On a level place lay down two joists eight feet long. Take your boxes and carefully remove the boards on the tallest side. Spike the boxes to the joists, so that the open ends will face each other. With the boards you have taken out close up the gap between the boxes on the back and roof. Put a door in front, a pane of glass on either side of the door, complete laying the floor, put in a roost, cover the building with a good roofing paper, and you have a house that will accommodate a dozen hens, at a cost of not over three dollars.

In these poultry houses crude as they may look, I have cared for three hundred old stock and chickens, and have raised some as fine fowls as could be raised with a farm range. I preferred first to make a success with my birds, hoping to produce a line of birds that would equal the best, and then if I could sell stock and eggs for hatching purposes at a fair price, and thereby make a little profit for myself, from the profits derived I would build poultry houses as I could. My boxes have been so successful that had I much money to expend in houses I should yet continue to use them for summer houses, as they fill every requirement. Of course I have large yards connected with each of my six houses.

Parke G. Dingley, Maine.



## AT BUSY CLOVERNOOK; ITS FOWLS, BEES AND FRUIT.

### The Work That Keeps the Varied Branches in Order and Thriving Needs Good System—From Sun-up to Sun-down Things Must "Keep Moving."

Francis Ellen Wheeler, Clovernook Duck Ranch, Chazy, N. Y.

**I**N response to many inquiries about our work at Clovernook, and at the suggestion of our editor that a description of our methods would "be helpful and interesting to our readers," I will try to explain somewhat how we manage to deal fairly by ourselves, our bees, ducks, pigeons, turkeys, chickens and home. When one stops to think about it, we find such a network

of interests, and the threads of our labors so interwoven, that it is hard to trace through even a single day the weavings of one of them.

In a general way "Faithful Pete" has charge of the grounds, the fruit and the bees. My special work is caring for the baby ducks during their first week; the pigeons, turkeys, chicks; ordering of supplies, correspondence and attending to

eggs and incubators. My young assistant has all the lamps (14), fires, brooders and the ducks to feed and look after. Pete's hours are from 7 a. m. to 6 p. m.; ours are from 5:30 a. m. to 6 p. m.

But we all interchange our work when any one spot needs extra help. At the same time each one is "boss" in his own department and has the responsibility and credit of success in it; and every year we have, besides this regular work, put in one kind or another of quite extensive improvements, which have filled in the spare time.

This year, owing to the long, dry term, in which the bees just gathered sufficient nectar for their daily needs, as we could not do our usual work in the yard, for fear of starting them robbing, we accomplished quite a little building—four fattening-sheds (each 13x13x4x7); a new



Ideal Mid-Summer Quarters for the Pekin Ducks on the Clovernook Duck Ranch, Chazy, N. Y.



## FATTENING POULTRY BY CRAMMING.

Process by Which Is Produced Highest Grade of Edible Meat—  
Practiced for Many Years in Old Countries, But  
New to the United States.

By W. H. Allen, Jr., Arlington, Mass.

dove cote and yard, are putting in a hydraulic ram, down by the river to force the water uphill and through troughs in the duck yards. If it works as we hope, it will be a great convenience and saving.

The order of our day is somewhat after the following fashion: I rise at 5:30 a. m and call Robert. He opens up the buildings and feeds the ducks while I run out, take a look at the incubator, see that my babies are warm; then return to prepare our breakfast. Afterwards I feed all my feathered family, wash the eggs, turn them, tidy up, attend to mail, etc. Robert fills the lamps, attends to necessary cleaning up of brooders and so on, while Pete helps him or does all sorts of odds and ends.

At 9:30 we feed and water all around, and again at 1 and 5; when the lamps are lit, the fires fixed and everything prepared for a safe and comfortable night. So long as the weather is cool we close up at six o'clock. When it is hot, the birds are left in their yards till after our supper. Each feed takes one person about an hour, though the first and the last ones require a little more time. The food is mixed in bulk and kept in bins and is wet up as required.

These Pekin ducks of ours have thrived unusually well this season. After the first few days of their lives our loss has not been one per cent. They are extra large, strong and healthy.

Of course, I try to arrange the work and to produce only what can be handled to good advantage. I have five incubators and a "tender." Three are Cyphers and hold three hundred and twenty-four duck eggs each. The two others hold one hundred and eighty each. We have brooders, and so on, to accommodate comfortably about two thousand ducks, and are not disposed to increase this output. As we have peculiar facilities for raising choice breeding stock, I am giving my attention particularly to that line of the business, sparing no expense or trouble to turn out the finest article procurable in this country. The residue of our ducks are fattened and sold for table purposes.

In the bee yard we usually find favorable weather for work in about one day out of ten except during a honey burst, which generally lasts almost two weeks. In fact, during the entire season, but some forty days are spent on our bees; though when the atmosphere is favorable everything has to give way to the apiary. We run about eighty colonies.

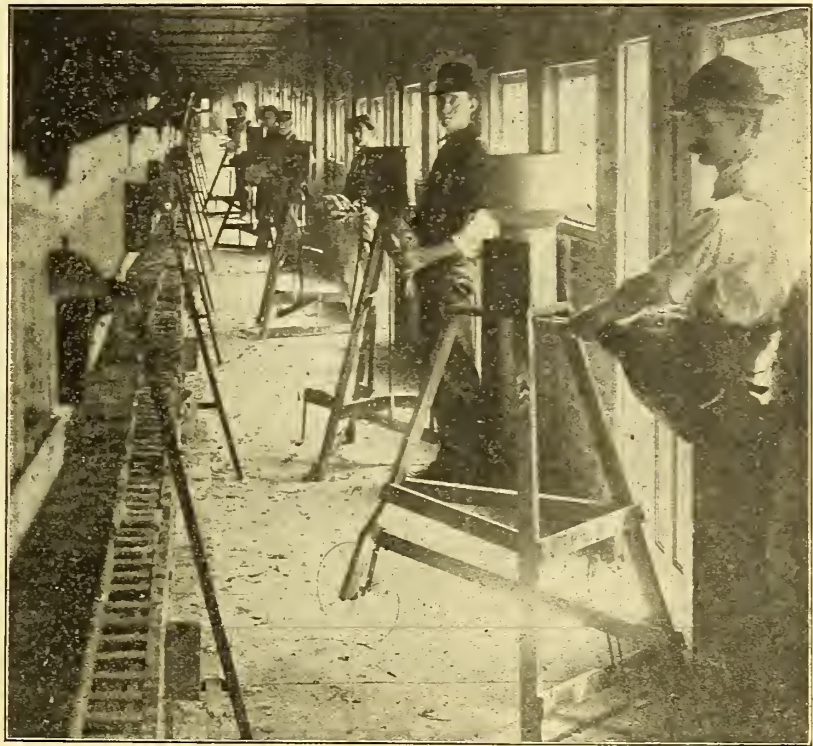
For our currant orchard of some one thousand bushes in the fall we prune, spade up, mulch and tie the bushes to stakes, which prevents the limbs breaking under our heavy falls of snow. In the early spring they are well dug around twice, thoroughly weeded, heavily mulched with straw (so the fruit is kept clean on the lower limbs) and the cords removed.

About May 1st we "paris green" at the roots and young shoots, which usually suffice for worms. We pick in one pound berry baskets and butter tubs. Only perfect bunches go in the baskets, which, when weighed, crated and shipped, bring thirteen to fifteen cents per basket. The imperfect bunches we use, or sell for jelly at about eleven cents per pound. Our currants are the Fay's Pro-

(Continued on Page 192.)

IT IS almost impossible to look into the future with decided certainty and see what is to be, but one can oftentimes tell very nearly what will take place in the future by carefully considering what has happened in the past. Being in close touch with a great many who have used cramming machines for fattening and taking their statements as to the results obtained I feel that I can safely predict not only a gradual increase in the number used, but at no

United States it has very recently been taken up and though the users of the cramming machine at the present may be scattered over a somewhat large territory the sum total of cramming machines used will aggregate a very large number. There is a poultryman in Ohio who uses twelve, a party in Iowa ten, a party in Illinois who fattens on a very large scale, fattening thousands yearly, and there is a party who supplies the White Star Line with fattened poultry



The "Cramming" House at the Loughlin Poultry Plant in Ohio, where Twelve of the Allen Cramming Machines are in constant Use.

distant date that number will increase by leaps and bounds until the cramming machine will be a common adjunct to the poultry farm.

Those who do use it will produce birds so much better than the one who doesn't that the one who doesn't use it will see that to command the price for the birds of the one who does use it that he must use it himself. If such increase in the use of the cramming machine is bound to come there must be reasons others than sentiment and that reason must be based upon the almighty dollar—in other words "results."

Fattening has been carried on for years, to some extent, by the ancient Egyptians and in more recent times in England, Belgium and France. In the

and I am informed that they take all he can supply.

I could go on and mention a great many more who use the cramming machine on a greater or less scale but these are enough. If there are so many who are successful what must be the opinion of others on the matter? "Facts remain facts." There are people who are skeptical; there will always be some. Those who dared and persevered—they are the ones who are benefiting by using the cramming machine.

When chickens, especially cockerels, run at large while their appetites are good they lead too gay a life to lay on much flesh. If they are cooped up and fed from troughs they are not active enough to create much of an appetite



and as they have previously led an active life they are not contented at being confined, consequently they eat little comparatively. Now when the cramming machine is used it matters not whether



The plump, well rounded appearance of a machine fed fowl. The texture is not coarse meat and thick layers of fat, but smooth-grained, edible meat.

the bird has an appetite. That bird is fed, and if fed properly, is given all it can assimilate in a space of ten hours. There should be a space of two hours when the crop is empty between meals.

The food should be so prepared that the fowl can assimilate it with the least possible exertion on the part of the digestive organs and in the least possible time—in other words, partly predigested. When this is done and followed closely for three weeks the bird has assimilated so much more food than when fed otherwise that it is in much more flesh, it commands a much better price and so leaves a profit that well repays for the extra work of feeding each bird by machine.

Since I have been shown the merits of the cramming machine and prospecting upon its use in the future, I will make a comparison between the cramming machine and the incubator. Some twenty years ago there were comparatively few who were successful with the incubator. There were probably fewer who then realized what an enormous industry would be made possible by the success

of the incubator. In a great measure this is due to improvements made in the incubator, but not wholly, for there are incubators in use to-day which were made before the modern ones were heard of and are doing unusually good work.

There are those who absolutely refused to trust their eggs to an incubator a few years ago. There are those who are so wanting in good judgment that they are to-day decidedly prejudiced against them. Why has this change come about in some twenty years? Because (aside from the fact that there are more good incubators on the market and more easy to run) there has been much more written about it in the poultry papers. Opinions of different people have been written and re-written; the wheat sifted from the chaff, until to-day there are generally recognized rules which if followed are reasonably sure to bring good results and so much good done in helping towards the desired goal. I feel safe in predicting that history will repeat itself only in respect to the cramming machine.

There was a time when I thought a bird could be fattened with cramming machines indefinitely, but I do not adhere strictly to that opinion now. Not with such a highly fleshening food as is now used. The birds will stand it alright for a certain length of time and in that time will take on a surprising amount of flesh, but there comes a time if kept up when the reaction seems to set in and the trick is to get those birds off to market before that time, or before the reaction has set in so far as to have done any harm.

This is generally known and understood when ducks are fattened in large quantities. The length of time poultry can be fattened with cramming machines seems to vary from two to four weeks and in some instances a little longer. While I would put the time at three weeks as about the right time, I would say that while one can learn much from reading of others' experiences, there is nothing so valuable as getting one's own experience. After one has thoroughly mastered the process he would no sooner be without a cramming machine than a man who hatches thousands of poultry yearly would think of being without an incubator.

[Editor's Note—As Mr. Allen is an expert on the subject of fattening poultry for market, we call special attention to the value of his article. In a near issue, probably the September number, we hope to publish something further in this line. Mr. Allen writes when sending in this month's manuscript: "This is by no means a complete treatise on the subject of fattening by cramming, but as an article of short length, I hope it will meet with your approval. If it is desired, I will write an article, going into detail, regarding the process of fattening—such an article as I trust would more deeply interest those who are contemplating taking up fattening by cramming."

Mr. Allen manufactures cramming machines used in this work and has instructive pamphlet that will be sent free to P. K. readers by addressing W. H. Allen, Jr., Arlington, Mass.

Sell all culls and surplus birds as soon as you can. The prices will not be any higher and you will find that as you gain

in the weight of your birds you will lose in the price per pound.

When young grass, rye or oats are cut before making much growth they are watery and contain but little nutrition, too much of such food causing the fowls to have "scours." Many persons have been disappointed in confining their hens on young rye in the fall and spring as an exclusive food. It is excellent as a dietary food, but all very young grass is mostly water. It is not best to cut such for winter use, and if oats are grown and the crop cut when the grain is in the milky stage, the nutritive matter, on its way to fill out the grain, will be arrested in the stalk so that when cured, the whole stalk (with grain) stored in the barn, and cut fine with a cutter, will make excellent food for the hens in winter. The oats should be cut green just as the seed heads begin to form.

Utilize the weeds in the fence corners for feeding the yarded birds. It is a surprise to many to see how much green matter a hen can make way with. Feed all these weeds before the seeds mature.



Tiers of Coops Full of Birds for Fattening. The feeder with machine moves along the aisle as he works.

Get a supply every morning and throw into all the yards. Later in the year there will be waste sweet corn and cabbage, but during August and September feed weeds freely.



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**A Plant That Is Unique in That It Is Famous For High Quality as Well as Great Numbers—An Output of 30,000 Ducks and Broilers—\$300 for a Single Exhibition Bird.**

**A**BOUT two miles north from the railway station at Millville, N. J., is located one of the best planned, best managed, well stocked and most profitable poultry plants of the entire country, namely, the Millville Poultry Farm, of which Mr. Maurice F. Delano is proprietor. This farm is ideally located on a

market poultry. The kinds of stock bred are Buff and Barred Rocks, Buff and White Wyandottes, Pekin Ducks, White and Buff Cochon Bantams and Golden and Silver Sebright Bantams. So far as quality is concerned, it is of the best. Poultry Keeper readers will remember the notice of sale made last January when Mr. Delano broke the record of

have made a success. Of course poultry culture received a boom. The failures have been, in nearly every case, of people inexperienced in a line that requires hard work, patience and some capital.

"While Hammonton, N. J., was attracting many people, there was in a New England school a lad named Maurice F. Delano. He became interested in poultry culture at that time. When school and college days were over this lad, now a man, brought his bride to Millville, N. J. His object was to establish a poultry plant, that once established, would pay. A large tract of land was secured. The location is first class. A large natural lake affords abundant water for the ducks; also the temperature is improved by such a volume of water so near. A large number of build-



Views on the Millville Poultry Farm, Millville, N. J. The houses shown in upper view are: laying houses, nursery brooder, feed house, brooding house and duck house. The lower views show the double brooder house and duck house.

forty-acre tract of land having a gentle southwesterly slope to the shore of Union Lake. This large natural lake affords abundant water for the ducks (Pekins are raised by the thousands on the Millville Farm), and also makes possible a splendid water supply system for the farm.

Millville farm is Mr. Delano's home and every building on the place, from his residence to the smallest chicken house, is kept in ship-shape order. The equipments of the farm are almost ideal, accommodating over two thousand head of breeders and about thirty thousand ducks and broilers. For the breeding stock three large laying houses are required. Mr. Delano makes a specialty of breeding fancy stock for exhibition, and is combining with this the production of

high prices by selling a single bird (one of his Buff Plymouth Rock winners at the Boston show—a cockerel) for \$300. With this sale were four hens at \$50 each, making \$500 for the five birds.

Several months ago the New York Tribune-Farmer, published a description of the Millville plant, from which we take the following as relating especially to the broiler or market branch of the farm:

"A few years ago the entire country went wild over the production of broilers. Broiler plants grew like mushrooms; but when it was found that every egg did not hatch, that the half hatched chicks would not eat, but would peep-peep day and night, only to be relieved by death, many a fortune was lost; but a few breeders clung to the business. They

were constructed the first year. These houses are 160 by 12 feet and 168 by 12 feet. They contain the layers. A rooster and ten hens occupy a pen 14 by 12 feet, with a yard 150 by 13 feet. The soil being very sandy, the sun becomes too warm in the summer for the fowls, so shade is provided.

"The duck house is 112 by 14 feet. Being divided into eight pens, the 240 laying ducks have ample room. The brooder house, while a continuous building, might easily be divided into two sections. The northern end is 100 by 14 feet and contains twenty-five pens. Each compartment has a lamp brooder. In these machines the chicks are placed when they leave the incubators. After the youngsters pass the danger period they are placed under the pipe system.





210x20 ft. Laying House on the Millville Poultry Farm, Millville, N. J. This building comprises 20 pens, 10x11½ ft; 40 pens, 5x5 ft; and a feed room, 10x20 ft.

An even temperature of nearly 85 degrees is maintained here. After a few weeks in these brooders the chicks go to the south side of the building, which is 102 by 24. The four foot aisle divides the building. The chicks remain here until they are ready for market. Connecting the north and south wings is a building 24 by 16 feet. The basement contains four large heaters. The first floor is the feed room, while the loft is a storage room for the feed.

"These buildings would not meet the requirements, so two more were added. A laying house 210 by 20 feet was constructed. It contains on the east side twenty pens, each with a yard 150 by 10 feet. The western part has forty compartments, 5 by 5 feet. A three and a half foot alleyway divides them. Under the southern portion of this building is a large cellar for the storage of roots suitable for poultry food. Large windows

admit light, while the ventilation has been well looked after. The other new building is the incubator cellar. It is 50 by 16 feet. One-half is underground, so as to give an even temperature. Twenty of the latest and best Cyphers machines are used. They have been very successful, having hatched both duck and hen eggs very well. In one corner of this cellar is a storage and testing room. Here the attendant can take a tray of eggs, and, as the room is dark, he can easily and quickly test out the infertile ones.

"With all these buildings one would suppose Mr. Delano could accommodate all his product, but such is not the case. Twenty outdoor brooders and the same number of roosting coops are required. While the primary object is to produce market stock, almost as much time is given to the raising of thoroughbred poultry. Some of the best Barred and

White Plymouth Rocks, Buff and White Wyandottes, Pekin ducks and several varieties of bantams are yearly produced on Millville Farm. At each of the great shows many prizes have been won. This only proves that the farmer can raise



FIG. 1.—A Fishel White Rock that five years ago was the peer of his class.



FIG. 2—The Fishel White Rock that won 1st at Chicago four years ago.

fancy poultry valuable for the production of eggs and chicks that reach the top market prices. If the right breeding stock, such as bred at Millville Farm, is used, results are certain.

"Millville Farm has a capacity of five thousand chicks. The incubators are run nearly the year around. During the winter months squab broilers weighing about fourteen ounces are sold at \$1.10 per pair. The chicks hatched in November were sold as broilers, weighing two pounds each, at 40 cents per pound. Those that are larger are marketed as roasters, bringing a much larger price. An exclusive private trade is commanded in the three large cities of the east. Later in the season the duck business will receive more attention. A very superior quality of ducklings is produced. While large quantities are not marketed, yet this department of the farm is very care-

(Continued on Page 191.)



## WHAT IS MEANT BY LINE BRED BIRDS OR LINE BREEDING?

Concise and Easily Understood Explanation of These Terms As  
Made By One of the Best Line Breeders.

By U R. Fishel, Hope, Ind.

“**W**HAT is meant by line-bred birds or line breeding?” is a question asked me very often quite recently.

What is meant by line breeding, is where the same strain or family of fowls is bred continually for years without injury to the vigor or stamina of the flock or individual specimens. Your readers will pardon me for taking as an illustration my own strain of fowls (the Fishel White Plymouth Rocks), but I feel I can better explain the matter by doing this than by taking some other line-bred strain with which I am not well acquainted.

Several great advantages are gained by buying line-bred birds for your foundation for a flock of fowls, among these being, first, you can expect them to produce better offspring than the parent stock. Second, you will get excellent layers in line-bred birds, for no breeder would think of breeding hens that were not good, I will say, exceptionally good, layers. Still another good reason for buying line-bred birds is that the results of a mating are easier controlled than in specimens bred in the old haphazard way.

To start breeding in line, or better, to start a line-bred flock, you must secure the best birds which you can possibly afford, and if possible secure for your foundation stock birds that you know are line bred. For example, we will say you have bought a breeding pen of ten females and one male for your foundation stock of Mr. A., who has practiced line breeding for years. You rear this season from this pen several hundred very choice pullets and cockerels. After the birds have matured and you are ready to make up your yards for the coming season select from the lot your very best cockerel and mate him to your hens. Select your very best pullets and mate to the cock bird. Reserve some of the remaining cockerels and pullets for fear of your losing some of your breeders, also for fear the following season you will want several yards, in that case you will need more females than you now have in your yards, as also a few male birds. In selecting your breeders always look well to standard requirements so as to keep improving your flock as you progress.

The coming season I would suggest, as a cheap way to infuse new, but not foreign blood, ordering a sitting of eggs from whom you got your first pen. The chicks from these eggs being bred in line with the birds you already have, will produce both male and females which you can use the following season in refreshing your flock or building up certain defects which you may wish improved. If you feel you need no help from the parent stock of your flock, do not get the eggs, but take the progeny from the two pens and mate them—the cock bird to the offspring of the cockerel and hens, and the two-year-old cock to the progeny of the cock and pullets, while the young birds

can be mated up as the previous season the following year. The progeny of the old cock bird (this being the last season you can use the old bird owing to age) will mate nicely with anything you have in the flock.

By following up this system of line-breeding and mating you can soon have your birds under perfect control so that in one season you can breed low combs, or any

whom you bought your first pen it is not necessary to follow this plan for the birds are already line bred and will nick much better with your flock, improving it at once.

I present herewith some half-tones and drawings showing the great improvements which can be made by line breeding. This was accomplished in five years, which proves the system as described is successful. Figure 1 shows a cockerel winner of first Indiana State Show, 1898. At that time this bird was considered a wonder. Figure 2 shows the first prize cockerel at Chicago, 1899, an easy winner in one of the best White Rock classes ever brought together up to that time. Figure 3 shows the second prize cockerel at Chicago, 1901, and figure 4 shows a 96½ point cock, winner of first prize at Indianapolis, 1902, by which you can read-

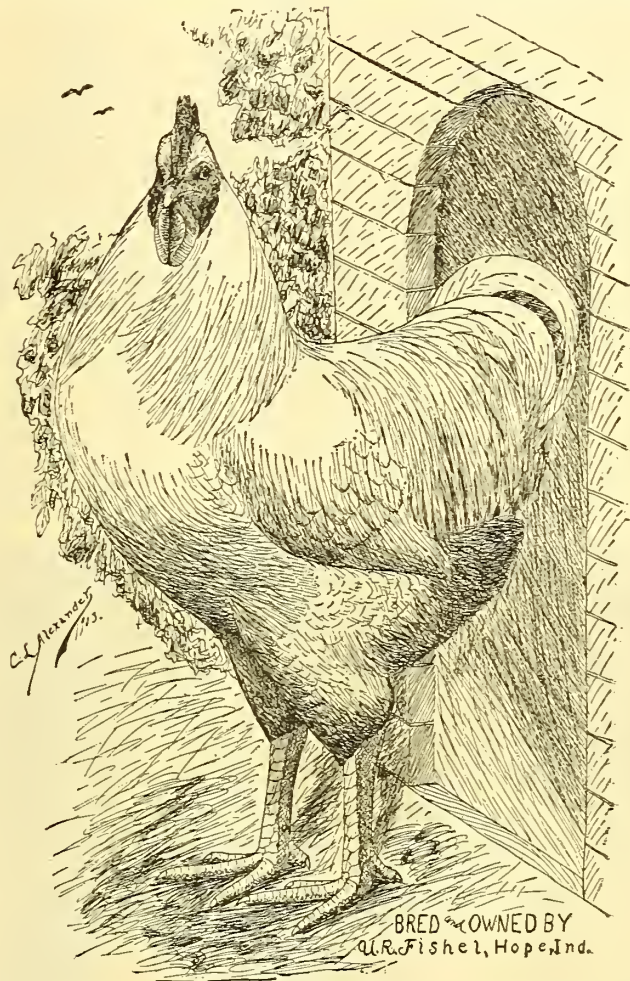


FIG. 4.—Fishel's noted cock bird, "Edward B, Jr.," Score 96½.

other special point you desire. Never introduce extreme foreign blood in a line-bred flock. If you feel you must have some foreign blood in the flock (but I am sure you will not find this required if you follow the system of line breeding as laid down here), buy a male bird and mate him to a few very select hens, selecting a male the coming season from this mating for another special mating, and the third year the offspring will contain enough pure line-bred blood in him to not tear down any work you have accomplished in building up your flock. If you buy new blood of the party from

ily see the great and rapid improvements made by line breeding. May I ask what better proof do you want than this that the plan or system is right and will bring you the desired results?

Find a market for all the old hens you intend to sell this fall. As they begin to shed their feathers sell them before they lose weight. As they will be two months going through the molting process, the quicker they are eaten the better. Grain will be high this fall and unproductive stock should be sold early.



## BUILDING UP AN EGG FLOCK.

By F. O. Wellcome.

### PART IV.

**T**HERE are a great many P. K. readers who are so situated that, although they like to keep hens, they cannot devote so much time to them as they would like, or as much time as market poultrymen and professional fanciers are obliged to spend with their birds.

While they are not always able to use trap nests, as traps, all of the time, they can get a great deal of benefit from their occasional use as traps, using them as excellent open nests (if they are the practical kind) the rest of the time.

There is no way to learn of the product of the individual hens so surely, so easily, and with so little expenditure of time as can be done with the nest that shows the hen that laid the egg. All opinions of uninformed people, and people with hostile interests, to the contrary notwithstanding.

I believe it to be true that many amateurs keep too many hens, as well as many professionals.

The ambition to raise all the chicks possible is not so bad, if they can have room and care enough, for the larger the number of chicks the better chance we have to get good specimens when selecting the number that our circumstances will justify us in retaining.

It costs from five to ten cents per pound in food alone, according to breed and situation, to raise pullets to laying maturity. Unless the individual pullet lays sufficient eggs to pay her way after that,

and a profit besides, it were better that she had been sold for what she would bring. The best we can do, however, with the healthy specimens is to get rid of them as soon as they show that they are not profitable layers, retaining birds of promise only. They must be fed and cared for properly of course.

As far as general stock purposes are concerned, it is a pretty good pullet that is worth more than fifty cents to her owner in the fall.

The rational ambition then is not "how many birds can I keep," but how good. I have been getting one hundred eggs a day when persons whom I knew had nearly twice as many birds were getting less. And I had quite a number of poor layers, too, that I kept for study.

One great trouble with many farmers is that they have too many acres and too much stock. We have all heard the expression "land poor." Well, some people are hen poor. Many poultry keepers have too many hens. They may raise chickens and keep them with more or less profit, but they have not all learned the greater art of culling.

Sentiment is a poor working tool in the poultry yard. Destroying unpromising chicks and marketing healthy but unprolific stock should be a very important part of the business. Hoping that they will do better by and bye is often a delusion and a snare.

The poet Emerson said: "Hitch your wagon to a star." A Chicago fancier

with a more practical turn said: "Aim high, but pull the trigger before you get wabby."

I can perhaps illustrate a combination of high aims and practical business sense by quoting from a letter received from a customer a while ago. The writer said: "I have more orders for eggs for hatching than I care to fill this season." "It is my desire to keep on breeding Wyandottes to lay until eventually I shall have a flock, or rather a number of flocks, to the amount of about five thousand individuals any one of which can be depended upon to lay two hundred eggs or more in their first year." "You may depend upon it, I will do it."

The reader can see that he has his wagon hitched to a star all right. But he explains how he pulls the trigger with a steady hand while aiming high. He says:

"I have never in four years used either males or females in breeding that ever felt 'under the weather' for one minute to my knowledge." "All chicks that show any weakness when hatched are killed." "I don't wait but 21 days for them to come out of the shell." "Any taking longer than that go into the fire." "In four generations I have not set an egg but was laid by a hen with a 200-egg record and fertilized by a male whose dam had such a record." He then gives figures showing that hens with records of over 200 eggs produced pullets that laid even better than their dams. This gentleman probably has one of the best laying flocks in the country. While his ambition is very great it seems to be tempered with good sense, for he culls out all poor stock from the shell up and whatever he retains is good. That is building from the foundation up with good material. Poor material is not used for the sake of getting a certain number of birds; unsuitable material is not incorporated into the structure with the foolish idea that in some mysterious way it will be better some time, but the flock grows only so fast as good birds are available.

It would hardly be possible to describe the great progress that has been made in developing the egg producing qualities of fowls by careful, skillful, painstaking observation, selection, and hard work without the aid of trap nests.

In many very small flocks, especially where the blood is a mixture of several breeds, or several families of one breed, the different hens lay eggs possessing a strong individual type. That is, the eggs of each hen will differ so much in appearance from the eggs laid by the others that the care-taker can, with practice, tell by the appearance of the egg which hen laid it; provided, of course, that he has watched the flock long enough and closely enough to make the initial connection between the birds and their eggs, and knows each bird well enough to identify her in some way.

The best way to identify the different hens is to band them with numbered leg bands that will not lose off. The easiest and best way to connect each hen with her special type of egg is to trap-nest her; but whether this method is adopted or reliance is placed upon observation alone the principles set forth in these articles are the same.

Having obtained a sample egg from each laying bird in the breeding pen they



FIG. 3.—A commanding bird in the White Rock class at Chicago, 1901.



can be "blown" and the empty shells preserved as models with which to compare the eggs each night, if the breeder is so situated that he cannot use trap nests as traps continuously.

With large flocks and with the majority of small flocks of pure-bred stock, especially line-bred stock, many of the eggs from different hens resemble each other so closely that reliable identification by comparison is practically impossible.

The size, shape and grade of color changes a great deal with many hen's eggs as laying progresses. When a poultry

keeper or some interested member of his family is on the place most of the time during the day trap nests can be used as traps all of the time and full advantage taken of their valuable assistance.

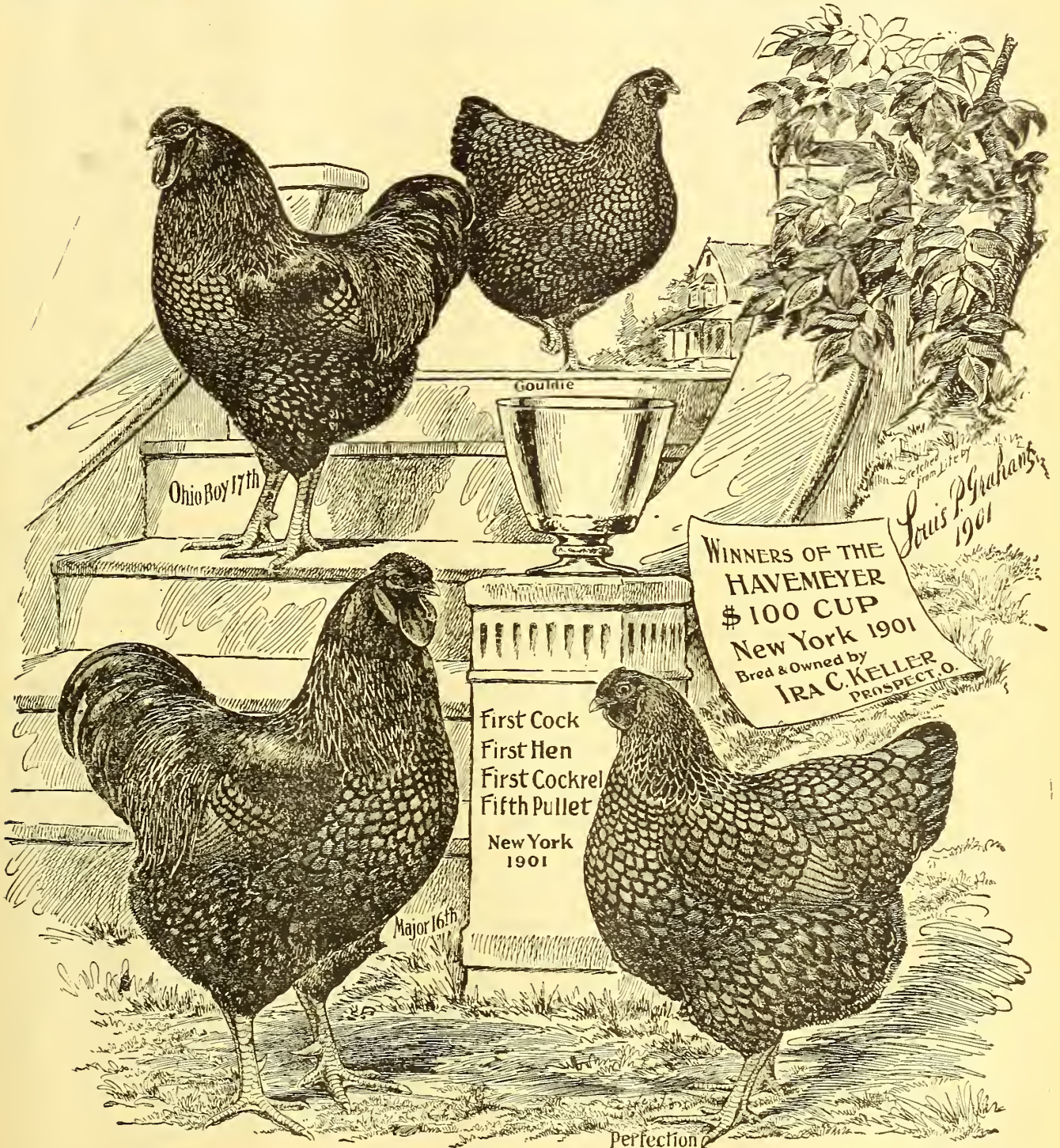
It will appear to many to be a great task to keep track of their individual birds, and indeed it is when compared with hit or miss poultry keeping that keeps track of nothing and knows but little.

I called on an old acquaintance one time who seemed to be doing quite well with 65 Rhode Island Reds. He sold eggs for hatching and took much interest

in his flock. He pointed out a number of individual birds. "This one is a good layer"; "that one and that one came from eggs bought of Cushman"; "that one lays a big, dark brown egg"; "that one is from so-and-so's strain," and so on.

(Continued in September.)

It is none too soon to be looking for that new cockerel for next years breeding. If you want to get the best results from poultry avoid much inbreeding. A few dollars spent in a good cockerel is money well invested and will give you pleasure as well as profit.



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TWENTIETH YEAR  
AND VOLUME.

AUGUST 15, 1903.

NUMBER 5.

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## AS OTHERS SEE US.

From one of our exchanges—Farm Poultry—we clip the following, which is credited to the "Worcestershire Poultry Farm" (England).

"In utility poultry farming the crux of the whole question (laying) seems to us to be this: the quantity of eggs laid per hen. A 20-egg hen is of no use at all to the utility poultry keeper, because she will not pay for her keep and attention. The 150-egg hen is very little better because she will perhaps only just do it; but the 200-egg and upwards hen is everything, because every egg laid after she has paid for her keep and attention is all profit. In America the 200-egg hen has been an accomplished fact for years."

It is unavoidable that some poultry keepers and others in England and in other countries should entertain some exaggerated ideas regarding our supremacy in poultry matters as well as in other things. Some of us here in America view our English cousins and our fellow-men in other lands through the same hazy atmosphere (to use a figure of speech), overhanging the expanses of sea and land which separate us, that interfere with their view of us. They doubtless get as clear an idea of us and our work as we do of them and theirs.

What mild exaggeration (probably unconscious) there is in the opinions of an

English poultry farmer as quoted above appears to us to be disclosed in the closing sentence and not in what he terms "the crux of the whole question"; we regard that as being all too true—in America, so far as careful analysis of reports to the contrary, as applied to general poultry keeping by the rank and file of average poultry keepers is concerned.

The correctness of the closing sentence in the quotation: "In America the 200-egg hen has been an accomplished fact for years," depends upon its interpretation. If the 200-egg hen as an individual is meant (and there is nothing to indicate that such is not the case) the statement is literally, exactly true and no fault can be found with it. If the writer intended to give the impression that business flocks that averaged 200 eggs per hen per year have been an accomplished fact in this country for years his statement would be open to reasonable question.

In view of the probable fact that a great many poultry farmers (perhaps the majority) do not know how many eggs per hen they have ever averaged in any year we cannot say that flocks averaging 200 eggs per hen per year do not exist or have not existed for many years, but we never knew any one to claim that he has or that flocks of 200-egg hens are a common every-day affair with American poultry keepers. Two hundred egg hens as individuals are being discovered in ever increasing numbers from year to year as means for detecting them are being more generally adopted, and reports concerning them are no doubt often misconstrued by careless readers through no fault of the writers of the reports.

The greater part of all claims for flocks of hens, as flocks, whether in regard to breeding, appearance, performance, or maintenance throughout the year cannot by any possibility be substantiated except by evidence that in whole, or at best in a large part, is merely the word and the figures of persons interested in the flocks or their owners.

As yet there has been no condition in this country that should cause these peo-

ple to be any more likely to inflate the egg records of individual birds or of flocks than they would to overrate their laying ability with familiar terms of qualification, or to overestimate their other qualities of merit. Of this there is not the slightest room for doubt.

"One swallow does not make a summer"; one 200-egg hen in a flock does not make a flock of 200-egg hens, or a flock of "good layers"; one flock that has averaged 200 eggs per year per hen does not make a 200-egg "strain." One bird (bred or purchased) that wins a blue ribbon does not make a prize-winning, or even a standard-bred flock; a number of prize winners (bought or bred) does not make a "strain" of prize-winners, or a "strain" of anything else.

The claims: "A heavy-laying strain," "a prolific strain," "a 200-egg strain," or merely "good layers," are all equal so far as it is possible at the present time for them to mean anything at all to the general public, and they are equally subject, on their face, to either credit or discredit as judgment may dictate. A specimen pullet taken at random from almost any flock characterized by any of the above general descriptions would be likely to lay anywhere from thirty eggs in a year to two hundred and fifty, according to her actual breeding, her individual peculiarity, and the way she was kept.

Many breeders here in America have bred very prolific hens and very fine exhibition birds. Many of them are working for 200-egg strains and many for exhibition strains. When they get them they let us know in one way or another and we have to take their figures and their word for it, just as we have always done and as we will always have to do.

Much in the poultry business has to be taken on faith, for there is often no other way, and reliable breeders know that it would not pay in the long run to break faith with either the poultry press or the public. W.

## RELIABILITY OF POULTRYMEN.

Poultrymen, as a class, stand high in the business world. Their word is taken as sufficient guarantee, where many an ordinary business firm requires every known safeguard. Poultrymen, as a whole, rank high in character. They want to please. They often do better than they promise. Not long ago a breeder of Andalusians sold to a lady in Michigan some of his best birds. Immediately on getting them she wrote him a letter, saying, that she was disappointed in them and that she had gained some "valuable knowledge" in her dealing with him. This man, who had used her better than she dreamed of, wrote to her at once, telling of the quality of the birds she had, remarking "that he did not want her to learn anything bitter through her dealings with him," and said that if she would state what she thought right he would do it. She soon saw things in a different light. Lo! two pleased poultrymen.

At the time of the flood in Texas, not long ago, several poultrymen lost all their fine birds, and most of their property. One man, writing to a fancier in northern New York inquiring what he could replace his birds for, told his story



and remarked that a neighbor had lost not only all his birds, but every scrap of property in the world. Both these men had had dealings with this fancier. What did this man reply? "If you will pay the express I will ship you twelve birds, and you can divide with your neighbor, and I give you the birds."

One poultryman, in the fancy for twenty years, has trusted many a time the promise to pay at a future date for birds sent by express, and states that in that time he has lost only four dollars—and that not through any dishonesty on the part of the buyer.

Poultrymen are inclined to trust the statements of others when buying birds or eggs. They seldom are sorry for doing so.

It is one of the pleasant sides of fancy poultry keeping that we do not have to be on the outlook all the time for knaves. We do not wish it to be understood that every poultryman gives full value for money sent. Many a man in the beginning of his fancy poultry work does not know the value of the birds he has, and makes many a mistake in the sending of birds to fill orders. It is through ignorance, not dishonesty, that he falls short.

We look with respect to the poultrymen of this broad field of ours. May they increase!  
N. W. S.

**SUNFLOWER SEEDS.**

How do you prepare sunflowers and when are they ready to use?—E. K., Carthage, Ill.

They require no preparation. Simply give them to the fowls. If the heads are broken, or chopped up with a hatchet, the fowls will get the seeds off.

**AN EXPLANATION OF FOODS.**

All farmers feed corn and wheat liberally to fowls that are to be fattened for market. It is well understood that in order to secure fat in a carcass the use of what are termed "carbonaceous" foods must be resorted to. For laying hens the food is nitrogenous; that is it contains more of the albuminous matter. For instance, meat, skimmed milk, the white of eggs and the gluten of wheat are nitrogenous. Fat, starch and sugar are carbonaceous. By keeping these facts in view the subject will be better understood.

The supposition that corn is best for fattening fowls in confinement or otherwise is not supported by investigation. The edible portions of a fowl (taking the average of analysis) consist of about twenty-four and one-half per cent of the nitrogenous elements and only two per cent of fat. Of course, there are other portions of a fowl that are not edible and in which there is more fat, but enough is known to affirm that in order to secure the largest increase in weight, when a fowl is being fattened for market, it must have a ration containing more of the nitrogenous materials than is found in grain, corn containing only about eleven per cent of nitrogenous matter and wheat about twelve per cent.

Young fowls that are growing will increase more rapidly than the adults, hence corn will give better results with fowls than with chicks; but there is an advantage in the mixed ration whether the fowl is old or young. Eggs are more nearly balanced than the flesh of the fowl in nitrogenous and carbonaceous matter, as an egg contains about fifteen per cent of the nitrogenous (classed as "protein")

to ten and one-half of the carbonaceous. Then there is the mineral matter (bone, etc.), of which one and one-half per cent is found in the edible portion of the fowl and about eight-tenths of one per cent in the edible portion of the egg. Hence the food must be of a character to



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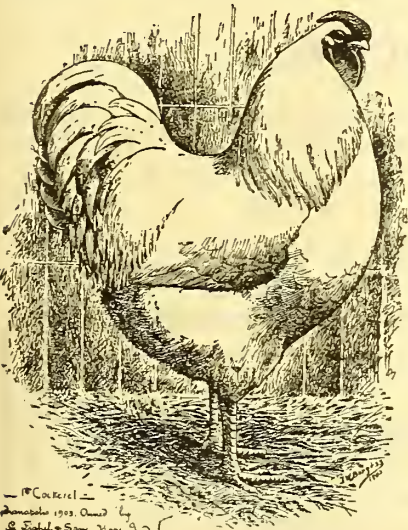
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**J. C. FISHEL & SON**

Have without a doubt the finest collection of White Wyandottes in the west, if not the entire world. We have spared nothing to bring our birds to the high state of perfection they now hold. Winners at **CHICAGO, INDIANAPOLIS, CLEVELAND**. What better proof could you want as to the quality we offer you? Some special bargains just now in breeders, for want of room. **SHOW BIRDS** to kill; in fact, no matter what you want in **White Wyandottes** line, we want to figure with you about it. Write us.

**J. C. FISHEL & SON,**

**Box K, Hope, Indiana.**

Copyright 1903 by J. C. Fishel & Son, Hope, Ind.



supply every substance required by the fowl.

Again, much carbonaceous matter is used by the fowl to supply bodily warmth in winter. Grain is really consumed like fuel, the body being the stove, and the heat created. If grain is given largely in summer the fowl will not require it, because it does not need heat at that season. It is easily seen, therefore, that corn and wheat may be excellent foods when the weather is cold, but very injurious in summer, an excess of grain resulting in the storage of the surplus heat of the body of the fowl in a latent form, and which is known to us as "fat." Corn is cheap only when it is required. If it is not needed it is very expensive. If nothing but corn is given a fowl it can starve in the midst of plenty. It dies because it has a full supply of carbonaceous matter and needs nitrogenous. It cannot supply the waste of bone and tissue, yet the body of the fowl may be weighted with fat. The bird becomes debilitated, weak, its legs fail, and disease carries it off.

In addition to the grain, therefore, other foods should be used, such as cut clover, bran, cut bone, meat, linseed meal, blood, animal meal, cabbage, potatoes, skim milk, or any other kind of food, but do not confine the fowl exclusively to a grain diet. Give laying hens a ration about equally balanced in the nitrogenous and carbonaceous foods, and the same for growing fowls. When fattening adult fowls add linseed meal and meat to the grain ration, as the carcass, though complete, may require more fat; but never feed a ration to any class of fowls if the food is not of a kind to contain some nitrogen, as corn and wheat exclusively will not give the best results.

Poultry people the country over, middle and western states especially, know of M. M. Johnson, of Clay Center, Neb., who during the past five years has come into prominence on account of his "Sure Hatch" incubator. Mr. Johnson established a splendid business and has made lots of friends. The following letter from Mr. Johnson, written to Poultry Keeper under date of July 8, will be of interest to many: "I have sold my interest in the Sure Hatch Incubator Company to my partners and started this morning to build a new factory of my own. It will not be as large as the old factory, but it will be sufficiently large for me to do a lot of business in. Will mention here that I succeeded in selling twenty thousand incubators and brooders for the Sure Hatch Incubator Company this sea-

son. The machines that I will put on market on my own account will be a great improvement over anything we have ever turned out."

There will be "something doing" in incubator manufacturing at Clay Center when Mr. Johnson gets his new plant under way. Success to him.

#### SUMMER CARE.

By F. O. Wellcome, Yarmouth, Me.

At no time is the absolute necessity of cleanliness and good care more imperative than during the summer and early fall months. With a great many of us these are the months when the pressure of other duties and the natural disinclination for work that come with the advent of hot weather makes the labor involved in properly caring for our fowls doubly disagreeable.

With all our pet theories about winter eggs and how to get them by supplying so-called summer conditions in winter we are more or less prone to underestimate the actual effect of unfavorable summer conditions upon the future condition of our birds.

Rugged, vigorous, profitable hen life depends in a very great measure upon uninterrupted well being from the shell to the block, and this means that every season, every month of the year furnishes special demands upon us in the interest of our stock.

With hot weather come lice, mites and germs of disease in infinite numbers and at a time when the intense heat weakens the powers of resistance of the heavily feathered birds to withstand their attacks.

Fortunate indeed are those birds that are so situated that they can wallow in cool, moist soil in a heavy shade during the heat of the day, and go to roost at night in a clean shed where they will get the full benefit of the cool night air, and rest undisturbed by the attacks of mites or blood-sucking spider lice and unpoisoned by the reeking emanations from rotting accumulations of excrement.

Still more fortunate are they if those

who are responsible for their well being realize that corn and wheat in abundance belong to the winter months and that the cooling juices contained in vegetables, fruits and other green stuff, and a moderate amount of perfectly sweet animal food and perfectly sound grain, are best adapted to summer conditions. It is true that we cannot always obtain just the kinds of food that the fowls ought to have at a price that will justify us in feeding them but the excessive use of the heavy grains and meat is never economical and this is especially true during the hot months.

The spending of money for special foods, for disinfectants, for lice killers, as well as for a host of other poultry supplies is extravagance pure and simple unless what is bought is needed and the purchaser is able to put it to profitable use. But there is no form of poultry extravagance that is more common or more senseless than that which withholds the necessities of the business during the summer and fall and then seeks to make amends by supplying them, often at greater cost, late in the season when it is too late.

Hens suffer more from heat in summer than they do from cold in winter, as a general thing, and as a general thing poultry keepers fail to realize it. If we want eggs next fall and winter we should do our duty by all stock that we propose to hold young or old, now during the summer months.

"Please note change in ad (see front cover)," requests J. C. Clipp, Saltillo, Ind., "and advise your readers that we have some real bargains now, in order to make room for our large crop of youngsters, that are the best uniform lot we ever produced." Mr. Clipp breeds Buff Rocks and Bronze Turkeys.

Do you intend to exhibit your stock at the fall fairs? We can offer you an easy way of earning your expenses, and more, too. Write to-day for full particulars. Poultry Keeper Pub. Co., Quincy, Ill.

### .....RAYMOND.....

Will sell **YOUNG STOCK** after **SEPTEMBER 1st**, from a **200-EGG STRAIN** of **BARRED PLYMOUTH ROCKS, ROSE** and **SINGLE COMB RHODE ISLAND REDS**. Show birds that will win in any competition. Business birds at business prices. Catalogue free.

**D. C. RAYMOND, Lock Box 955, So. Framingham, Mass.**

**About This Time  
Order Eggs  
For Hatching.**

Send for our 1903  
Price List.

We have turned over a new leaf in prices, and can supply eggs from our

### White Wyandottes and White Plymouth Rocks

at \$1.50 to \$3 per sitting; \$6 to \$10 per 100. Discount on large numbers. There is not a better or bigger flock in the country. We want your trade. Give us a chance to quote qualities and prices and we will have it. A little 50-page book about raising and handling poultry mailed for 6c in stamps. Please mention Poultry Keeper.

**POLLARD'S POULTRY FARM,**  
Attleboro, Mass.



**WHY I BREED LIGHT BRAHMAS.**

First, they are pleasing to the eye and a flock looks fine in a pen or well in a picture. Some will say this is of no account. But if a breed does not attract you in any way when you look at it you pass it by. And you go to some breed that does please you. About sixteen years ago this breed pleased me when I looked at it, and I said, "A thing of beauty is a joy forever." So I reasoned that which pleases me I will take most pains with and will be likely to succeed.

After trying a few eggs for hatching and not getting what I wanted, I sent to a reliable breeder for a pair of Light Brahma fowls, which cost me \$10; my neighbors thought me foolish to pay so much for two chickens. I gave them good care and the hen laid about the whole year. I set the eggs she laid under common hens and about all the eggs were fertile, so I had good hatches and raised most of the chickens to maturity. In about eighteen months' time I sold about \$75 worth of choice cockerels to these same neighbors who thought I had "paid too much for my fowls."

Second, if properly fed and cared for, they are as profitable as any breed. I have found the hens to lay one hundred and seventy-five eggs per annum and most eggs are laid from November till June, which is the time of year that market eggs bring the best prices. Then all fowls raised that are not wanted for breeders bring a good price, ranging from ninety cents to one dollar each, as they weigh about twice what the small breeds do.

They are also a pleasure to keep when it comes to fencing them, as a fence three feet high will turn most of them. This saves many ruffled tempers and running after chickens in the garden. They are almost omniverous, eating all kinds of grain, vegetables, grasses, grit, little stones, jewelry or anything that comes within their reach.

When winter comes they will stand more cold and enjoy it more than anything I know except the American turkey. Never to my knowledge have I had a Brahma to freeze its comb. While growing as chicks they eat about as much feed as three Brahmas to five Leghorns, but when grown they eat no more than Leghorns, as I feed both the same ration. Last but not least, they are as fine fowl for the Sunday dinner as grows—flesh sweet and tender.

Yours for success with the Brahma,  
A. J. Felthouse, Elkhart Ind.

Since the article describing the Millville Poultry Farm was put in type we have received a letter from Mr. Maurice F. Delano, giving some further facts that we know will interest P. K. readers. He writes: "We have lately built a two-story feed and slaughter house 20x32 feet; an engine house 12x20 feet, containing a gasoline engine for pumping and to run our corn shredder, etc., and fifteen duck sheds, each 16x16 feet for shelter for older ducks preparing for market, after they come from the brooder house.

"Our farm is being run for fancy poultry and market ducks. We hatch about four thousand chicks each year from our best pens, and market all culls at broiler age. Cull closely again later on, and then

have about two thousand extra good ones to supply our customers. This year we have reserved but fifteen hundred, but they are far and away the best lot we ever raised, and there are scores among them that will win at fall and winter shows in our hands and in those of our customers.

"From the market end of our plant we will ship about eight thousand ducks this year, and some two thousand chicks culled from our fancy flock. Next year we expect to market twenty thousand ducks. August first we put all hens on free range until they are through their molt. To make room, we offer about two hundred fine hens at very low prices this month, and they will be from our 1903 matings."

Plants are natural home companions, bright and cheery ones indeed, and the sudden transition from winter's snow and ice to the bright picture of verdure and bloom within lends the impression of perpetual summer. However, not all plants will convert a conservatory or window into a bower of blooming beauty. A number of choice plants for winter are given in the August Delineator, with direction for culture. New and striking varieties of abutilions, begonias and azaleas are illustrated and advised as ideal window plants.

A clean coop is called for from now on to the time the chicks go into winter quarters. This will reduce the amount of

sickness in your poultry plant as well as further the raising of profitable birds.

**How to Get Eggs in Cold Weather.**

Mr. W. F. Chamberlain,  
Kirkwood, Mo.

Last season about the first of August, I commenced feeding "Chamberlain's Perfect Mash Egg Feed" to about 500 Leghorn hens, and I can truthfully say I never had hens go through the molting season so quickly. At the end of the molting season they were in perfect health, with red combs and faces; and commenced laying the first of November and laid all winter. On December 27, with the thermometer below zero, they broke the record, and laid more eggs than on any other day. I simply would not try to raise chickens without Chamberlain's Perfect Mash Egg Feed," "Chamberlain's Perfect Chick Feed" and Chamberlain's Perfect Brooder."

John Byerly, Spring Park, Mo.  
(See bottom of outside cover for Chamberlain's ad.)

This year's wheat harvest in Kansas was a record-breaker and well deserved the attention accorded to it in the August Review of Reviews, where an illustrated article by Philip Eastman describes the up-to-date machinery used by the Kansas farmer in harvesting and threshing his crop, and gives an insight into an almost beatific state of social and industrial content, where college graduates toiled side by side with day laborers, and all had good pay and bountiful fare.



**POULTRY SUPPLIES** of every description, Prairie State Incubators and Brooders. Prize and Champion Brooders, Bone Cutters, Clover Cutters, Feed Cookers, Wire Netting and everything necessary for poultry and Pet Stock. Our Immense Catalogue FREE if you mention Poultry Keeper, Send for one.

**Excelsior Wire and Poultry Supply Co., Dept. K.**  
W. V. RUSS, Prop. 26 and 28 Vesey St., New York City.

**IMPORTANT AND PROFITABLE.**

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three" for \$1, we

will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

**POULTRY KEEPER, Quincy, Ill.**

**Enclosed find one dollar for three subscriptions to POULTRY KEEPER for one full year:**

|   | NAME | POSTOFFICE | STATE |
|---|------|------------|-------|
| 1 |      |            |       |
| 2 |      |            |       |
| 3 |      |            |       |



### The Silver Wyandotte Club of America.

Through the work of this club an interest has been created in this most beautiful and useful breed that carries us back to the days of 1885. The Silver Wyandotte of to-day, however, has the advantage of being even more beautiful than it was in the old days, and a further advantage, and one of decidedly more importance, of being in the hands of its friends.

I doubt if there is another specialty club in America to-day whose members are more deeply and more unselfishly interested in the genuine welfare of their favorites than are the members of our club.

The showing of "Silvers" made at Cleveland and Chicago last winter attracted attention and created an interest, not only in this country and England but from other foreign lands, even to far off Australia. There is no "boom" on in Silver Wyandottes, but there is a demand for "Laced Wing Bars," and birds comparatively free from frosty edging, that all the breeders of this country were unable to satisfy this past season. I doubt if there is any breed to-day that a beginner can take hold of, and make more money with, than the "Silvers," if he has "good ones."

It has been a source of great pleasure to me to receive numerous letters from Silver Wyandotte breeders to the effect that they have been more than successful in producing birds this season "better than last year," and furthermore that they are going to "trot" them out next winter. I am certain that the exhibits of "Silvers" at next winter's shows will surpass in number and quality anything ever seen before. This is bound to create further enthusiasm and interest.

The Silver Wyandotte Club of America should receive due credit for what has been done and should receive further encouragement by having added to its list of members, not only every breeder, but every lover of Silver Wyandottes in America.

The expense of joining the club is nominal, membership and dues for new members \$2 per annum; old members, \$1 per annum. Applications and money should be sent to Frank E. Briggs, secretary, Sac City, Iowa. I would suggest that every member consider himself a committee of one to obtain another member. Now that we have a good start, let's keep things moving.

Henry Steinmesch, President Silver Wyandotte Club of America, St. Louis, Mo.

Arthur F. Hartman, the White Wyandotte specialist, of Nappanee, Ind., changes his ad this month, stating the prices of the White Wyandottes he has for sale. It will pay you to communicate with him for your fall supply. A fine lot of youngsters will meet the demand that goes his way. See ad on inside front cover.

#### When You Go to the Fair.

This fall when you go to your county or state fair you can make it a profitable trip if you do subscription work for Poultry Keeper. We furnish sample copies free and pay a very liberal commission. Write to us. Poultry Keeper Pub. Co., Quincy, Ill.

### Low Cost Drinking Fountains.

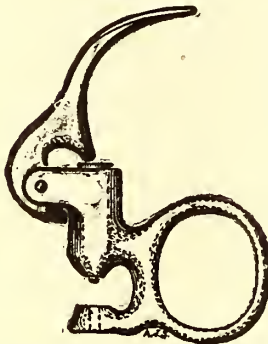
Birmingham, Ala., July 16, 1903.

Editor Poultry Keeper.

Instead of buying drinking fountains for chickens, I make them of large tomato cans and tin pie plates at twenty-five cents a dozen. This is easily done if care is taken to cut the V-shaped notch in the open end of can so that when inverted the top of the notch will not come above the rim of the pan. These are of course not as large or substantial as those sold by the supply houses, but answer every purpose and are certainly cheap enough.

Never having seen anything in your paper on his subject, I write about it so that if the suggestion is of any value you may publish it. Yours truly,  
Wm. E. Meade.

### P. K. Poultry Marker.



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

### Keep an Egg Record.

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of ten cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Why not take subscriptions to Poultry Keeper at your county or state fair? Liberal commission paid. Let us tell you about our special offer. Please write for particulars. Poultry Keeper Pub. Co., Quincy, Ill.

"We have very fine young stock, the best we ever raised. Can supply cockerels and pullets of splendid quality," write Geo. A. Stanton & Sons, Hennepin, Ill., specialists of the Fishel White Rocks.

Ralph Bryson, Iowa Falls, Iowa, is offering for sale at \$1.50 and \$1 thirty pullet breeding Barred Rock cockerels weighing two and one-half to four and one-half pounds. See ad on inside back cover.

Now is the time to buy stock. Breeders have their yards full and will sell cheap.

**Plymouth Rocks, Barred, Buff, White.** Prize winners from best straits. Satisfaction guaranteed. **BROOKSIDE POULTRY FARM, C. H. Barnes Prop., Kalamazoo, Mich.** Mention P. K.

### IRON AGE BOOK—FREE

Seed Drills. Wheel Hoes, Potato Planters, Riding Cultivators, etc. **BATEMAN MFG. CO., Box 25, Grenloch, N. J.**

**BEAUTIFUL BUFF PLYMOUTH ROCKS.** Hens lay, Eggs hatch, 15 eggs \$2. Females \$2.50; males \$3.50; trios \$8. Poultry supplies. Poultry Printing that gives satisfaction. Catalogue free. Prompt and honorable treatment. **LEWIS E. TRESCOTT, Conesus, N. Y.**

**EGGS HALF PRICE** \$1 per sitting; Black Cochins, Black Langshans, White Rocks, White Holland Turkeys. Some bargains in stock. Write for prices. **L. GILLON, Hales Corners, Wisconsin.**

**BIG MONEY IN LIGHT BRAHMAS** if you go at it right. Buy fowls or eggs of me and you will have the best. Fowls in my yards are worth \$1.25 per head on market; pretty near as large as turkeys. Give me a trial order and I will please you. **ADAM J. FELTHOUSE, Box 203, Elkhart, Ind.**

### WHITE PLYMOUTH ROCKS

We breed for quality, not quantity. When you want anything, write. 3-10 **PEARL LAWSON, STAUNTON, IND.**

### 25 PAT. APPLIED FOR

The Improved Champion Leg Band. Aluminum or copper, adjustable to fit any fowl. Postpaid, 12, 15c; 25, 30c; 50, 50c; 100, 80c; initials extra, 10c per 100. The Superior is securely locked, impossible to lose off, six sizes. Postpaid 12, 20c; 25, 35c; 50, 65c; 100, \$1.00. Also pigeon bands. Circular free. Stamp for sample. **I. Cadwallader, Box 704, Salem, O.**

### HERE TAKE IT IT'S FREE

And will surely help you and start you right if interested in

**Barred Rocks, S. Wyandottes, I. Games, Light Brahmans, Buff Cochins, Pit Games, Pekin Ducks, Quarter Wild and Bronze Turkeys.**

**ALL! ALL! ALL!** depends on the start you make. So don't make the fatal mistake of buying poor, cheap, haphazard bred stock, but let us start you right, with good line-bred birds from the most noted prize winners in all the south. We can and will honestly help you if you but give us a chance. Eggs from the very cream of our prize stock \$3.

**O. V. POULTRY FARM,**  
Geo. W. Brown, Prop., Camden, Ark.

### Pilling Poultry Marker



The Pilling Marker is a popular and convenient device for marking chicks by which means the web between the toes can be marked so that different lots of chicks can be raised together, the owner having no trouble telling which is which. Punch is made in two sizes—adult and chick—price of either, 25 cents, postpaid. Or for 65 cents we will furnish full year's subscription to Poultry Keeper and send Marker post-paid.

**POULTRY KEEPER PUBLISHING CO., Quincy, Ill.**



**PURE BRED POULTRY ON THE FARM.**

**A Flock of Forty Hens and the Profits that Resulted.**

**W**E LEARN by experience the most lasting and oftentimes most profitable lessons. This experience is either our own or that of the "other fellow." My own briefly stated may be of value to this same "other fellow."

The oft repeated advice of the poultry press "to grow into the business" is eminently true in our case. I use the pronoun "our" advisedly, for I am a convert—converted by the hard facts taken from my better half's memoranda of receipts and expenses from her flock of fowls.

In 1884 we settled on ancestral acres—leaving the city in which we were reared—with the avowed purpose of turning farmer, the object being the freedom of the country and a regaining of wasted strength. A few mongrel hens, never over forty, was a part of the outfit that we might have fresh eggs and fried chicken.

At either end of a shed house, in which these mongrels were kept I built two small houses and yards. In one was placed a few pure-bred Barred Plymouth Rocks and in the other Brown Leghorns of the bluest blood. (Mrs. Sledd was then and is now an enthusiastic fancier and I was then a "Doubting Thomas" but have been for some years, if possible, the greater enthusiast of the two.) No mongrel males were allowed in that flock of forty hens, but the Barred Plymouth Rock-Leghorn cross was used for fries and eggs. And how they multiplied! How the marketman gloated when the big baskets of eggs were carried him and the plump spring chickens were ready for his coops.

During those early days an occasional copy of the Poultry Keeper—ever an educator—found its way to our fireside. A good friend living in sight built an incubator from the plans given by Mr Jacobs and she and my partner were pitted against each other: she with her incubator; Mrs. Sledd with hen hens. Suffice it to say the hens won out hands down. For four years we were steadfast in our purpose to gain health and strength and believing it had been gained, I returned to my profession—teaching—in a southwestern state.

The four years had demonstrated that fowls, properly cared for, will yield a larger per cent of profit than any other stock upon the farm; that pure-bred fowls will give such an increase of profit over the mongrel as to justify the abandonment of all mixed breeds; that proper housing, cleanliness and well balanced rations with close attention to details, are prerequisites to success with poultry.

Seven years ago we returned to our farm, I to raise tobacco and the grains; my wife, poultry. Her first year's work was sent the Poultry Keeper and if I remember aright her flock of hens averaged better than \$2 per head above expenses. I came out on the wrong side of the ledger and, as I wrote in your October number, I am now my wife's partner in the poultry business "for keeps" and do only so much farming as is necessary to raise the food for our

fowls. For years nothing but chicks of the bluest blood have been upon our premises. How did we get it?

We purchased eggs from the best strains obtainable and became subscribers to the best class of poultry literature—reading and studying every phase of the business and applying day by day the lessons learned. We purchased a standard make incubator and I built brooders—we have since added to the number—and although we were rearing only pure-bred fowls and breeding them to standard requirements, as near as we could not to sacrifice their usefulness, we were catering only to a fancy market trade.

We were in doubt as to advertising, not that we did not know we had pure stock, but because we knew that there were a great many "grumblers" in this world of ours and we dreaded contact with them. About four years ago an agricultural journal, and a little later a poultry paper, invited us to contribute to its columns. We ventured to do so along the line of pure-bred poultry. These articles called forth some comment and finally brought us some customers.

These were so well pleased we added the fancy and now cater to both. We ventured to advertise in a modest way and since then the business has outgrown Jack's famous beanstalk. Such is the record, and with hammer and saw going to enlarge the quarters and the incubators running to turn out the stock, all is serene and happy "down on the farm."

The lessons drawn are—that fancy market poultry and strictly fresh eggs are the most profitable way for the farmer to market his grains; that the fancier's needs can best be supplied by the farmer who has large flocks from which to select; that the conscientious seller will have no trouble with the honest buyer; that it requires systematic work and close study to breed to standard; that for wealth of enjoyment and adequate returns for labor and capital invested the poultry business stands the test.

J. H. Sledd, Virginia.



**BUILD YOUR OWN INCUBATOR.** We sell complete illustrated plans by which a 200 EGG HOT WATER INCUBATOR can be built for about \$8. We furnish Lamps, Tanks, Regulators, etc., at cost. Big money building and selling them. Write today for particulars and FREE circular "How to Make and Save Money with an Incubator." Channon, Snow & Co., Dept. D Quincy, Ill.

**WHITE WYANDOTTES NONE BETTER.**

As white and good as the best. Fine birds, good form, strong laying qualities. EGGS REDUCED balance of season; \$1. per 13. Stock for sale. D. C. ADAMS & SON, Box K, North Haven, Conn.

**BRADLEY BROS., LEE, MASS. EXHIBITION BARRED PLY. ROCKS**

More First Prizes at last Fourteen New York Shows have been won by Birds we Bred and Raised than any other exhibitor has won on any stock. Write for free circular of "America's Best, Illustrated," giving 22 pictures of recent New York winners and showing how our lines excel all others. Our 1903 breeding yards now for sale.

**Gilliland's Buff Rocks** are large in size, correct in shape, true Buff in color. Eggs half price, \$1 per 15; \$5 per 100. GOLDEN NUGGET POULTRY FARM, MRS. F. E. GILLILAND, Hope, Indiana.

**WHITE WYANDOTTES** I can furnish you winners for the fall fairs in both old and young stock. PRICES LOW. Write. G. SHERWIN HAXTON, Oakfield, New York.

**CHEAP, GOOD, YOUNG AND OLD STOCK.** Young fowls, \$1 to \$3; Good trios, \$5. Br. Leghorns, W. Leghorns, Bar. and W. Rocks, Bl. Minorca, W. Wyandottes, Pit Games and M. B. Turkeys. Circular, Fowls and Buildings, free. E. W. GEER, Box 104, Farmington, Mo.

**QUAKER**

Chick Food—a complete ration—\$2.50 per 100 lbs. Incubator Plan, brooder plan, recipes for lice killer, chick food, egg maker, and beginners directions for brooder chicks, all for \$1. All poultry supplies. Free catalogue of novelties.

QUAKER SUPPLY CO., Box K-3, OMAHA, NEB.

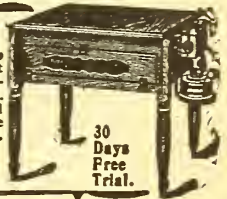
**THE PETALUMA**

is the dependable Incubator. Automatic throughout, results the surest and highest. Petaluma Incubators and Brooders are the oldest and most reliable machines on the market. Write for FREE catalogue. PETALUMA INCUBATOR CO. Box 147 Petaluma, Cal. Box 147 Indianapolis, Ind.



**The Automatic SURE HATCH.**

with a new regulator that really regulates—the greatest improvement in 10 years. Get one on 30 days free trial and decide for yourself. Large catalog and poultry book free. SURE HATCH INCUB. CO., Clay Center, Neb., or Columbus, Ohio.



**WANT \$2?** Success with Poultry \$1.00  
Poultry Keeper . . . .50  
Reliable Poultry Journal . . . .50  
**For \$1.25** Will send all three for **\$1.25**  
HERE 'TIS! ADDRESS  
Poultry Keeper Publishing Co., Quincy, Ill.

**EGG BOX WITH NESTS ATTACHED.**



Strictly Fresh Eggs. OBLONG OR SQUARE. Doz. 20c; 50, 60c; 100, \$1; 50¢, \$4.25; 1000, \$7.50; delivered FLAT f. o. b., N. Y. City. Orders of 1000 or over special printing. Write for prices for larger quantities. Waxed paper butter print boxes—special boxes or cartons. F. R. & F. J. VERNON, 1013 Grand St., Brooklyn, N. Y.

Have You Ordered My Catalogue?

If Not

Do So

At Once.

It is a money saver.

**C. J. HOUSER,**

Subscription Agent, 228 Oak Street, California, Missouri.



## BUY STOCK IN THE FALL.

The fall is the time in which to purchase breeding fowls, for then the yards are full, and the number of good birds on hand are more numerous. Although we have repeatedly mentioned this caution, yet there are those who wait till spring to purchase, at which time the prices are higher and the best fowls gone. A breeder will not keep a large stock of fowls over winter, if he can avoid it. It entails too much care and labor for they must be kept in good condition. In order to thin out his stock, he will sell better fowls, at lower prices, in the fall than he will in the spring, and those who always buy in the fall are usually better satisfied. When he keeps his stock till spring, he will be lucky if some of the cockerels are not frosted on the comb or have met with some other accident, and when they leave his place the customer who receives them does not for a moment think that if he had bought his trio in the fall, he would have avoided many little difficulties that come in the way in the spring. During the fall, the breeders have large numbers of young stock on hand. They sell at reasonable rates, and the buyer stands a chance of getting the best, as fowls cannot always be judged until fully grown. Another advantage of fall buying is that the purchaser has the opportunity of pushing the fowls forward by liberal feeding and good care. This is very desirable, if they are intended to lay well. No matter what the breed may be, if they are not properly managed, they will not give satisfaction. And we may safely say, that the money spent for a trio of good breeding fowls will be found at the close of the season, to have been a good investment.

## A BABY CHICK FOOD.

Please give me a few formulas for chick foods in whole seeds.—E. J. Reiman, New York.

We know of no combination of whole seeds that will make a perfect chick food. Most grains are too large for baby chicks and should be cracked. Here is a formula that has proven satisfactory:

Hulled oats, 5 parts.  
Cracked corn, 2 parts.  
Cracked wheat, 2 parts.  
Millet seed, 1 part.  
Ground beef scraps, 1 part.  
Granulated charcoal, 1 part.  
Fine grit, 1 part.

The ready made poultry foods now for sale are coming into general use by poultry growers. The best of these foods will be found advertised in our columns.

## SUCCESS WITH POULTRY.

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry will help you.

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

Do you want to get plans for building

practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co. Quincy, Ill.

It is time the chicks that first saw light last June be moved from that brooder to a roomy coop. The air space in the best of brooder is too small for the hot August nights. Give the coops a wire front so that the night air can get in and out freely during the shut-in hours of the day.

Let your chicks out of their hot coops early in the morning. The early hours of the day are the best for ranging and the insects are all out then. There is quite a difference in the smell of the shut-in air of the house and that which the chick breathes in its first run of the day.

Send all eggs to market in a clean state. Wash all soiled spots and keep at home any cracked egg. Use eggs of the same shade of color of shell in each case. Get the eggs to the consumer as soon as possible after they are laid. They do not improve by keeping.

The chicks have a great appetite as they near maturity and need full feeding. Keep a hopper filled with good grain where it can be reached by the ranging birds and they can balance any shortage in your feeds of the day.



## U. S. STANDARD

## INCUBATORS

Built RIGHT SIDE UP. The machine that uses a hover blanket. Has 10 distinct points over all others. Write for free catalog and mention P. K.

STANDARD INCUBATOR CO.,  
Ponca, Nebraska.

Brooding  
Par-excellence.....

It is comparatively easy to hatch chicks; it is another thing to raise them with ordinary brooders.

You consider yourself fortunate if able to raise over 50 per cent. With the Neversink Brooding System you can raise from eighty to ninety-five per cent.

This system is entirely different from any other.

Dr. Hartman, manufacturer of Peruna, recently installed a Neversink System in his two hundred foot brood house.

Write for illustrated catalogue to-day—before you forget.

Neversink Incubator & Brooder Co.,  
Box 127, MANHEIM, PA.

## ROSE COMB BROWN LEGHORNS.

a specialty, also S. C. Blacks. Eggs from winners scoring 90 to 96½, \$1.50 per 15; \$2.50 per 30. From free range flocks of Rose Combs, \$4.50 per 100. Circular free. 5-12

J. L. RANDOLPH, Box A. Cutler, Ohio.

## This Lightning Lice Killing Machine



Kills all lice and mites. No injury to birds or feathers. Handles any fowl, smallest chick to largest gobbler. Made in three sizes. Pays for itself first season. Also Lightning Lice Killing Powder, Poultry Lice, Lice Murder, etc. We secure special low express rates. Catalog mailed free. Write for it. CHARLES SCHILD, Ionia, Mich.

## KEEP POSTED

as to what is going on in the east. You can get the leading monthly poultry paper of New England from now until April 1, 1904 for only 10 cents by mentioning where you saw this ad.

POULTRY STANDARD, STAMFORD, CONN.

## White, Golden, Silver Wyandottes,

B. and W. Rocks; White, Brown Leg.; Black Hamburgs, Light Brah.; Leghorns; R. C. B. Bants.; Bronze, White, Narra. Turkeys; Geese, Ducks, Scotch Collie Shepherd Dogs. Prices reasonable. Best quality. Prompt service. Low express rates. Satisfaction guaranteed.

Chas. McClave, Box 700, New London, O.

## THE BUCKEYE STRAIN

OF LINEBRED

## ..Barred Plymouth Rocks..

Double mating system used. Ancestors have won 1st in largest poultry shows in U. S. A. Also S. C. White Leghorns. Stock for sale. Eggs, \$2 per sitting of 15. Mention Poultry Keeper.

Buckeye Poultry Yards, W. R. Webb, Mgr., West Unity, O.

## BLACK LANGSHANS

A few fine cockerels at \$5 each. Brood brothers to my Boston winners.

HENRY L. ALLEN, - Aiden, New York.

## PERSISTENT LAYING

Do you want a cockerel from a dam that laid 107 EGGS from January 15 to June 15 and was never broody? The sire of these cockerels is a son of Vulcan, 1st cock

....BOSTON, 1902....

## WINSLOW'S BARRED ROCKS

Will please you if you want choice stock. My address is A. P. WINSLOW, Box 1334, Freeport, Me.

What's Yours?

## S. C. White Leghorns.

Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct., 1902, Charlotte, N. C., Jan. 1903. A beautiful flock of early hatched youngsters to select from, all from our yard of Prize Winners. Single birds, pairs, trios and pens to suit. Write at once for circular describing our winnings and low prices for birds. Satisfaction our motto.

WILBER BROS., Box E, Petros, Tennessee.

## PLYMOUTH FARMS.

Buff  
Barred  
White  
**ROCKS**

Our descriptive booklet describing our matings for 1903 will be mailed free if you mention P. Keeper.

PLYMOUTH POULTY FARM CO.

Box K, York, Pa.



**Problem of Correct Feeding Solved.**

There are so many cases of incorrect feeding in the growing of poultry that it is a perplexing problem to know just how and what to feed. This is what the Midland Poultry Food Co., Guinotte and Euclid Ave., Kansas City, Mo., have solved in their line of Midland Poultry Foods. (See ad on inside back cover.) We have in hand a letter the Midland Co. sent us, which they received from one of their customeres. This letter states as follows:

Petaluma, Calif., July 3, 1903.

Midland Poultry Food Co.

On February 10, 1903, I took off a hatch of thoroughbred Barred Plymouth Rock chicks, and purchased some Midland Food from the "Petaluma" Incubator Co. on which to feed them. You will probably be pleased to note that on July 1st the first pullet commenced to lay and so far has laid two eggs. These pullets have had nothing but the Midland Poultry Food and a little grain since they were hatched.

This, I think, speaks very highly for the Midland Poultry Food, as never in the history of my hatching have I had Barred Plymouth Rock pullets commence laying so early. As you will see, they are a little over four and one-half months old, not being five months old until the 10th of this month.

Midland Food is, without doubt, an excellent article, and I assure you that I will not be without it on my poultry ranch, and will recommend it to all poultrymen who are desirous of having their fowls develop and mature early. I have also raised a larger percentage of chicks with this food than ever before.

H. R. Campbell.

The Midland Food Co. have two books on poultry feeding that will be of value to our readers. Mention P. K. when writing and books will be sent free.

**S. C. White Leghorns of Merit.**

Wilber's Gem Strain of thoroughbred, bred-to-lay Single Comb White Leghorns are the result of careful breeding of the best blood of this variety. These birds have the vigor of southern bred stock and are strong in standard requirements. See ad on page 184. When sending in this ad Wilber Bros., of Petros, Tenn., write, "We have a large number of beautiful youngsters bred from our last season's high scoring prize winners. Some excellent birds are now ready for early fall sales. We can promise P. K. readers something good when they send us an order."

One of the good books sent out free of charge is that of the Prusisan Stock Food and Remedy Company, St. Paul, Minn. It appeals to every live stock owner, whether he keeps horses, cattle, sheep, hogs or poultry. Primarily its purpose is to bring to the attention of stock owners the valuable line of remedies which the company manufactures, as Stock Foods, Poultry Food, Heave Powders, Lice Powders, etc. Leading breeders all over the country use and recommend Prussian Stock Food and Remedies. Mr. E. J. Hurst, breeder of pure-bred Poland China Hogs, Macy, Ind., owner of the \$8,000 boar "Majestic Perfection," writes as to the Prussian Stock Food: "I have been using it since I started in the business of breeding hogs and I am highly

pleased with it. I have been feeding it regularly and have never lost a hog by any disease. I think the Prussian Stock Food will do all that is claimed for it to do." The book is more than an advertisement of remedies. Much valuable information is gathered together in concise form and many hints are to be had as to the cause of past failures and valuable suggestions for the care and treatment of animals that may be well put into practice in the future. Write the company how many head of stock you have, mention P. K. and the book will be sent free.

**Chicago Poultry, Pigeon and Pet Stock Show.**

The eighth annual Chicago Poultry, Pigeon and Pet Stock Show will be held January 25-30, inclusive.

The enterprise will be managed by Messrs. Geo. G. Bates (treasurer), Grant M. Curtis, J. Lewis Draper, E. J. W. Dietz (vice-president), E. C. Eddy (president), W. C. Hill, Fred L. Kimmey (secretary), E. L. C. Morse, H. N. Norton, F. B. F. Rhodes, Frank B. White and M. Wagner, directors and officers of the National Fanciers' and Breeders' Association.

The various committees are now busy making plans. They are endeavoring to make the eighth better than any of its predecessors.

Fred L. Kimmey, Secretary,  
1213 Manhattan Building, Chicago, Ill.

The St. Louis Fanciers' Association will hold their ninth annual exhibition of poultry, pigeons and pet stock in the Coliseum, St. Louis, Mo., November 30-December 5. Messrs. Russell and Butterfield have been engaged as judges. Send your name at once to the secretary and receive a premium list as soon as they are issued. Ross C. H. Hallock, Secretary, St. Louis, Mo.

A teaspoonful of tincture of iron in the drinking water (about a gallon of water) will be all that is necessary to invigorate the hens that are shedding their feathers, but such hens must be fed on nutritious food. The hens that are molting now will make the winter layers, and should receive extra care.

**BREEDERS' CARDS**

**TOO LATE TO CLASSIFY.**

LOST MOST ALL my stock of Silver Wyandottes and Rhode Island Reds last season by an ad in P. K. I won at Amesbury, Haverhill, Peabody, Beverly, Lynn and Boston. As I shall move to a new plant soon I shall have bargains for someone. Fine birds in small or large lots. Geo. Addison, Wenham, Mass. 8-3

BLACK LANGSHANS. Silver Cup State Fair and State Show Winners. Bargains in this year's breeders and young stock, after September 1st. All sired by my 1st and 2d prize State Fair cockerels. A. L. Nokes, Springfield, Ill. 8-1

BARGAINS IN PEKIN DUCKS and Toulouse Geese. To reduce stock will sell choice, fit for show room, for \$1 to \$2 for thirty days. Fine Barred Plymouth Rocks and S. C. Black Minorcas at same rate. Write to-day. Satisfaction or money back. Beechwood Poultry Farm, 267 W. Jefferson, Louisville, Ky.

WHEAT—20,000 bushels Scorch'd Wheat (damp) from elevator fire, 25c per bushel. Remit for sample order. Standard Milling Co., 229 S. Howard St., Baltimore, Md. 8-1

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Any publication in the U. S. If you do not find what you want in this list, write to us. In most every combination you get *Poultry Keeper Free* and in every case you save money.

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| POULTRY.                                   | PRICE ALONE | WITH P. K. |
|--------------------------------------------|-------------|------------|
| American Poultry Journal.....              | \$.50       | \$.75      |
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|                                       |      |      |
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|                            |     |     |
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**LITERARY.**

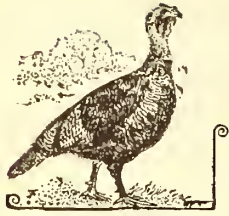
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| Weekly Inter-Ocean.....            | 1.00 | 1.00 |

Send in a list of the publications you wish and we will quote reduced price or the lot.

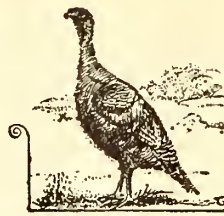
Address,

**POULTRY KEEPER PUB. CO.,**  
**QUINCY, ILL.**





# TURKEYS FOR PROFIT.



[Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones, of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.]

### The Season's Turkey Crop—Losses— Clipping Heavy Flight Feathers— Ways of Wild Turkeys.

By Mrs. Chas. Jones, Paw Paw, Ill.

**T**HE turkey crop of 1903 is very nearly settled. Owing to sickness, and later being crippled by an injury, I have not been able to give my turkeys the usual care, but I have found that they can be raised with very little care. The cold weather in early spring has been the hardest thing to contend with, one grower losing from eighty down to twenty-five, but she went to extremes in her care of them, keeping them cooped too closely at first and I think feeding too heavily. After they commenced to die she turned them out and let them take care of themselves.

I coop mine only three or four days before I turn them out to run in the daytime if it is not too wet, and coop them nights, always getting them in about 5 o'clock, or they will find some good place to hide away from you and run in the wet grass in the morning and the chances are that you will lose a large per cent. If they are cooped nights and until after the dew is off in the morning and not overfed, I think they are as easily raised as chickens and a turkey's market value is three times what a chicken's is.

#### The Run in the Fields.

Besides after the turkeys get old enough to run in the field, they get their living until cold weather. I have one turkey running in the garden that has never been cooped at all, but there is no wet grass for the turkeys to get drabbed in. She has not lost a poult yet and they

are full feathered. She goes back to the same place to roost every night and I know just where to find her if it happens to be late when I feed her.

#### The First Flight Feathers.

I have made it a practice of pulling the first flight feathers on the wing when they are large enough to get hold of them. I think it is a great benefit as those feathers grow so very fast that often they will drag on the ground. The strength that it takes to grow those feathers is saved to build up the rest of the body, as the growing of large feathers is one of the greatest drains on the system and the feathers come out

so very easily and apparently cause not the least pain or suffering. Lice and cold, wet weather, and I think overfeeding, are the causes of all the mortality among the young turkeys.

#### Habits of Wild Turkeys.

I learned some very interesting facts in regard to wild turkeys and their habits and their instincts that apparently the Creator gave them to prevent their deteriorating by inbreeding. It was all new to me and one of the most interesting facts in regard to turkeys that I ever learned. One of the things that I learned was that turkeys in the wild state separated, the males going by themselves and the females by themselves. This is also true of tame turkeys. I had noticed that the toms went by themselves, but the hens, having young turkeys to care for, I supposed was the cause of their keeping by themselves. In the wild

**YOU'RE LOOKING**  
for just such a machine  
as Miller's new  
**Ideal Incubator,**  
the perfect hatcher, sent  
on 80 days' trial. Absolutely  
automatic. Test it  
yourself. Big poultry and  
poultry supply book free.  
J. W. Miller Co., Box 19, Freeport, Ill.

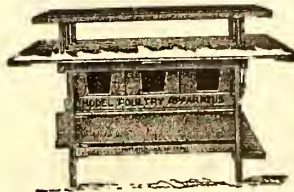
## Incubator Eggs Our "Drive"

Guaranteed fertile. From 30 varieties of thoroughbred fowls. Each kept on a SEPARATE FARM. Catalogue in colors FREE, if you mention Poultry Keeper.

**HARRIS-PATRICK POULTRY CO., Clay Center, Neb.**

## 500 Wyandottes Half Price 500

We offer for immediate sale 500 of our this year's breeders at less than one-half price; will sell in breeding pens of 6 hens and 1 male or in number to suit, at all the way from \$1.50 each up to \$5 each. Every bird of special merit. 100 grand cock birds among them. Every bird line-bred and from our noted New York, Chicago and Columbus winners. The finest blood in the world. This strain of White and Golden Wyandottes have won more first prizes at American and European great shows than any other strain. Eggs from our grand matings the rest of the season for \$1.50 per sitting; lower by the 100. Extra fine imported Belgian Hares at lowest prices ever offered for quality. Large circular showing 40 of our winners and describing America's largest Wyandotte farm. Don't delay, but order at once and get in before the rush. **IRA C. KELLER, BROOKSIDE FARM, Box 10, Prospect, Ohio.**



### PITTMAN'S MODEL POULTRY APPARATUS.

The most useful invention of the age for those who keep hens; the apparatus that it pays to use; the one that is admired by all who see it; the one every poultry raiser needs; stands without an equal in poultry house furniture. Complete illustrated plans and specifications for making in five sizes furnished for short time at half price. Can be made at home at small cost. Circular free if you mention Poultry Keeper.

**C. PITTMAN, Dept. B, SANTEE, NEBRASKA.**

## NOW IS THE TIME TO USE SUREKIL Lice Paint.

The Standard Remedy for all Kinds of Poultry Vermin. Kills Lice and Mites. Saves Money and Trouble.

Lice breed more rapidly in the summer months than at any other time—they injure the growing chicks, retard their growth and even kill them. Fowls suffer so much from the vermin that when fall comes they are not in fit condition to molt properly. Some die and others prove a disappointment in the breeding pen. Surekil Lice Paint prevents this. It is easy and safe to use, destroys vermin on poultry and all domestic animals. The fumes do the work; it is not necessary to handle the birds. Keeps destructive insects from attacking fruit trees and plants. As an insecticide it has no equal.

**PRICES:**—1 qt. cans, each 35c; 2 qt. cans, each 60c; 1 gal. cans, each \$1; 5 gal. cans, each \$4. Insist on your dealer supplying Surekil; accept no substitute as being "just as good." Agents wanted. (For agency, apply to Home Office, Buffalo, N. Y.)

### CYPHERS INCUBATOR COMPANY,

**BUFFALO, N. Y.,**  
Factory and Home Office.

**BOSTON, MASS.,**  
34 Merchants Row.

**CHICAGO, ILL.,**  
310 Fifth Avenue.

**NEW YORK, N. Y.,**  
23 Barclay Street.





state, after the turkeys separate, one of the flocks wander east and the other west and oftentimes they were found miles distant from the point where they mated and raised their young, passing by numerous other flocks. This has been proved by some peculiarity noticed on toms that would be found miles from where they spent the breeding season.

This instinct of their wild nature must have been ordained by the Creator to prevent inbreeding, as we know the tide of emigration with man has always been westward, our young men going west and building a dug out or a small house of any material and "batching" it for years perhaps. It was a novel sight to me when I went west fifteen years ago this fall to see these houses both in Kansas and Nebraska always locked and the boys away to work. Now large farm houses stand where the lonely cabin stood and they tell of a woman's hand to give it a touch of civilization and refinement. Children are now growing up in American homes who will help to build more modern houses. Some will come from the east and some from the west, and foreign blood from across the water, will mix with the blood that descended from the old Plymouth Rock colony and we as a nation do not degenerate. Neither have the turkeys in their wild state deteriorated.

**Lice on Toms.**

There is one thing we should never forget, and this is that our toms are very apt to be lousy at the end of the breeding season. They should be caught and dusted well with Lambert's Death to Lice, or be put in a large box painted with a good liquid lice killer. Never shut them in tight, but give them enough fresh air so there will be no danger of smothering.

**Keeping in Good Flesh.**

They are also thin in flesh at the end of the breeding season and should be fed liberally with corn. A friend of mine once told me how he managed his toms. He nailed a box on one side of the corn crib, or any outbuilding too high for other fowls to reach and kept it full of corn. By so doing he got his toms up in flesh and good condition. Again, never forget good sharp grit.

**The Farm's Flock of Turkeys.**

A farm is never completely stocked without its flock of turkeys, and what an attraction is a good large flock of Bronze turkeys, and where is there a place that equals a farm? We raise what we eat and what brings money to buy what we wear. We have our gardens, our fruit, our flowers, our droves of chickens, turkeys, ducks, and geese; our bees to make honey that equals the nectar that Jupiter sips, and we have telephones, free mail delivery, electric cars, and what in the world could the town or even a king give that would or could add to the freedom of the country life and its health, prosperity and happiness? You can even keep a dog without asking your neighbor's consent. I can soon see from my window the smoke from our new railroad a little over a mile from our house. The Rochell and Southern and the C., B. & Q. run the length of our farm, the longest way. We expect a telephone soon and free mail later, and with all our flocks of farm raised poultry, hogs and cattle and horses, we feel that

we should suffocate on a town lot without standing room for our turkeys. We prefer to live as Adam and Eve commenced life, although we do not own as large a farm as they did.

**WE NEED YOUR HELP.**

We are eager to get all the helpful matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each year is no information, but when you tell how you made the hens lay then you tell something of value.

Give the chicks all the grass run you can. The hay is all cut and the grass fields make an ideal spot for the growing chicks. If there is no shade at hand, supply it in some way. Have no bottom to the coops and move them to a clean spot for the growing chicks every two days. You will be surprised next year to see how high the grass will stand where the chicks were cooped out this year. This plan will increase the grass yield and give you better chicks, both at the same place.

**YOUNG CHICKS** Thoroughbred and market. Two to six weeks old. Shipped safely any distance.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

**VILLEVIEW POULTRY FARM COMPANY,**  
SALEM NEW YORK.

**HOW TO GET \$2 EGGS**  
For 50c Per Sitting.

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.  
W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)  
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**PEEP O'DAY**  
BROODERS AND SPECIALTIES

in the hands of leading poultrymen everywhere give best satisfaction. Leo J. Riggs, of Grand Rapids, says "I lost three chicks out of 130 in two brooders. They were snowed under for three days."

**CORNELL INCUBATORS**

stand at the head. Valuable poultry information free for your name and address on postal card.

Cornell Incubator Mfg. Co.,

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**13 White Wyandottes in 110 Days Laid Over 880 Eggs,**

So says W. D. Williams of Allston, Mass., who Breeds the

**EXMOOR STAY WHITE WYANDOTTES.**

Our PARTRIDGE ROCKS laid: 16 birds, 121 days to date 1739 eggs. We breed birds to lay and pay. Eggs reasonable. Send stamp for 42-page illustrated guide. Please mention P. K.

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W. H. Allen, Arlington, Mass.

Dear Sir: In reply to your favor of the 29th inst., would say: I am using 12 of your stuffing machines, with entire satisfaction.

Respectfully Yours,

(Signed) JOHN LOUGHLIN.

CLEVELAND, OHIO, April 11, 1903.

Mr. Wm. H. Allen, Jr., Arlington, Mass.

Dear Sir: Your kind letter is at hand. The machine is in good working order and we like it very well. We have seen some other makes and are free to say that yours is the most practical and substantial of them all. Our work has been largely experimental, but the results are entirely satisfactory.

Cordially Yours,

(Signed) HENRY M. LADD, Prop. Crescent Farm.

Send for testimonials. Please mention P. K. when writing.

**W. H. ALLEN, JR., ARLINGTON, MASS.**



**SHEDDING THE FEATHERS.**

At this time of the year the egg supply decreases materially, but such happens every year, and happens because the hens cannot lay eggs and produce new feathers at the same time. This annual throwing off of the old feathers and putting on of new plumage is known as "molting." As nature provides for a renewal of the covering of many animals, birds, fishes, reptiles and insects, so we find the same thing in the poultry yard. The old feathers begin to drop out and new ones commence to grow. This process requires about three months, and as molting debilitates the fowl by causing a great drain on the system, egg production ceases. The hens that begin to molt early should be retained, as they will be the ones that will finish the process before winter and be ready for laying by the time eggs go up in price again; hence, never sell those that begin to molt early, as they will be your winter layers, but feed them bone, meat, linseed meal and a variety, not overlooking a little sulphur in the food occasionally.

If you wish to make your hens molt quickly, and with the best results, a few hints will perhaps be of value. First, keep in view that feathers contain lime, nitrogen, and some oily matter, but they are mostly mineral and nitrogenous in composition. If the hens are fed on oily food it seems to loosen the feathers, provided they are nearing the molting period. But after the feathers are thrown off then the foods should be rich in nitrogen and lime, hence sunflower seed, linseed

meal, pea meal, clover meal, bone meal, lean meat, and cut bone are excellent. But little grain is necessary. A tablespoonful of sulphur in the food of twenty hens three times a week will assist, as feathers contain sulphur also. By this system of feeding your hens will molt in ten weeks, the average time being three months. No kind of feeding will force a hen to throw off old feathers and put on the new at once. Feathers do not come in a day, they must grow, they do not all appear at the same time. Even if a hen molts by becoming naked in a day or two you will have to wait until the new feathers grow, but you can assist growth by judicious feeding.

Set the water dishes in the shade. The hot August sun soon spoils the contents of the water dish and turns a good thing into a source of danger. Clean the water dish at least every three days.

**"The Poultry Book."**

The most extensive and elaborate work on poultry ever published is "The Poultry Book," by Harrison Weir, edited by Willis Grant Johnson, and published by Doubleday, Page & Co., New York. This magnificent work will consist of sixteen parts, price 60c each. Parts I. and II. are already issued. Each part will contain two full-page reproductions in color of Mr. Weir's paintings from life, as well as many sketches and half-tones of English and American birds.

The work takes up thoroughly and scientifically the subject of breeding; selection of varieties for profit and exhibition

purposes; feeding, raising and marketing of fowls of every variety, including chickens, geese, ducks, pigeons, etc.

Orders for the complete work can be sent to Poultry Keeper office and parts will be supplied by the publishers as soon as issued. Price of complete work, \$10.80.



**THE HUMPHREY**  
**GREEN BONE and VEGETABLE CUTTER**  
 will save half your feed bills and double egg yield. Guaranteed to cut more bone, in less time, with less labor, than any other. Send for Special Trial Offer and handsome catalogue.  
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**EGGS-KUM** Makes the eggs come, and makes the hens moult in a hurry. Also makes the little chicks grow fast. *Positively no reactionary effect.* Strongest Poultry Powder in the world. Price 25c.; by mail, 31c. Agents wanted everywhere.

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**AFTER JULY 1 \$2 FOR 15 \$5 FOR 45**  
**RHODE ISLAND RED EGGS**  
 From the five best ROSE COMB and the five best SINGLE COMB pens on the

**de Wolf Farm,**  
 Papposesquaw, Bristol, R. I.  
 Stock for sale. Circular and standard free. M. DE W. MUDGE.

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We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, **without extra charge.** In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. **Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.** Terms, cash with order.

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# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## MONEY IN WINTER EGGS.

**Don't Wait Until December and January to Plan For Winter Eggs—  
Start Should Be Made Now.**

Dr. N. W. Sanborn, Bellingham, Mass.

**T**HAT some poultrymen are making money from winter eggs is a fact that some of us are aware of. That there is room for more to enter this line of money making is also well known. The demand for fresh winter eggs has increased faster than the supply and bids fair to continue.

There is also the fact that birds have to be fed during the winter whether they are producing eggs or not. If they do not lay they are being kept at a decided loss. It is not a point to be ignored by the keeper of practical birds that winter eggs often give most of the profits of the year. That is, the cost of feeding a non-winter egg producing flock of poultry often simply covers the profits of the remainder of the year. I do not take into account the fancier, who does not care whether his birds lay in the cold months, but who is looking for eggs when he wishes to hatch fancy stock, although I believe he should also be looking for winter eggs. Winter eggs are needed by both the keeper of a few hens on the village lot and the man who has his "all" invested in his poultry farm.

Why talk of winter when it is four months off? You cannot go out and buy hens next December and so feed and house as to get them to doing extra good laying in January. Housing and feeding

will not alone produce winter eggs. There is something else required that takes previous care and planning. For winter eggs we look to the early hatched pullets. Old hens and June pullets may pay their "keep" but it is to the March and April pullets that we look to pay our winter bills.

Something more is needed than early hatching! The April pullet must have been well fed and housed to do the best winter work along egg lines. There must have been no neglect from the hatching of the egg to the time of going into winter quarters. If your birds not only have had the best of care and food, have been hatched in time to mature in the late fall, but have come from a line of birds bred for prolific egg work, you stand a better chance of success.

Blood tells in profit lines as well as in fancy points of the show room. Work enough has been done along the line of the "200 egg hen" to show that there is more than theory in this idea of a profit paying line of poultry breeding. You will not have to go far to find some one who is doing successful work in just this branch of poultry keeping. Starting with birds that have the laying habit well fixed is a good way to make sure of doing the right thing in the right way.

It is not necessary to pay high prices for such stock. A pen of fairly well

marked birds for this line of profits should be found for ten dollars. They may be off in ear-lobes or comb or color, but for pouring out the eggs they are as good as birds costing five times as much. In fact you may look for chicks from these fair birds that are far ahead in fancy points of the foundation stock. These five birds should pay for themselves during the first ten months, and, also, supply sixty pullets toward future success.

The well bred pullet, the early hatched pullet, should not run with the cockerels and must have free range until maturity is near at hand. You need to build up a body that will stand the strain of egg producing. The exercise of a free range will develop muscle and strong bones. Digestion will be strong and equal to the demands of an egg diet. The fresh air

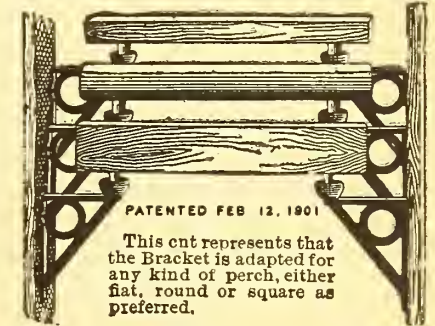
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In a Victor Incubator always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher is the **VICTOR INCUBATOR**. Thousands in use; no complaint. Catalogue 6 cents. **GEO. ERTEL CO.**, Quincy, Ill.



### Catches Them Coming and Going



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This cut represents that the Bracket is adapted for any kind of perch, either flat, round or square as preferred.

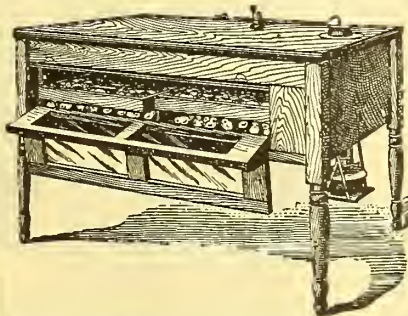
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A permanent fixture for all times. The spider or midge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.

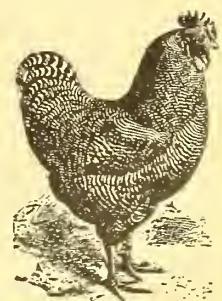
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## Incubators, Brooders, Thoroughbred Poultry and Eggs and Poultry Supplies.



**E**VERY Reliable Incubator and Brooder is guaranteed to give satisfaction in your hands or you get your money back. On the market 20 years. Thousands used, thousands satisfied. Made with the idea always of doing the best work, and proving the most durable. Our 160-page catalogue is well worth the 10c stamps we ask you for it to cover cost of mailing. We carry a complete line of Poultry Supplies and own and conduct the largest **THOROUGHbred POULTRY FARM** in the World. We are offering special cut prices for August, on stock and eggs.

ADDRESS, **RELIABLE INCUBATOR AND BROODER CO.**,  
Box A-15, **QUINCY, ILLINOIS, U. S. A.**





of an open front, wire covered, coop is desirable to help produce good blood of an active bird. A ration that is well balanced, generous in quantity, is needed to grow our winter laying bird of promise.

As the fall nights come the danger of so-called "roup" will be considerable. If you get this disease in your pullets you can give up all idea of those birds making any mark in the winter egg line. Now, the cause of this disease is filth and moisture. Close, shut-in air, will produce roup. Foul air is just as dangerous as the gas that comes from uncollected droppings. Keep your coops clean and dry, with open fronts, and you will have no "roup" unless introduced from other birds.

We have the two hundred egg pullet, it was hatched in April as it is of the American breed, it is now getting good food and free range, has plenty of the best of air night as well as day, what shall we do with it through the fall?

Let it alone! Open the coop door early in the morning that it may get out into the grass range when the day is fresh and cool. Give it food and drink for growth, not fat and stimulant. Along eleven o'clock feed freely of a good mash, so that the bird will rest during the heat of the day. Avoid musty food of all kinds and have the water dishes often filled with cool drink. Close the coop doors at night that no prowling vermin get in to kill the birds that you have built hopes upon for returning winter profits.

Need I call your attention to dangers of lice and red mites? Forget to fight these, and you "whistle for the wind" fruitlessly as you will fail to find a full egg box when the snow is piled around your hen house. No bird can grow successfully when red mites are getting in their work, and no pullet yet reached the two hundred egg mark when the house was infested with spider lice. Birds cannot grow and feed mites at the same time. The more mites, the less eggs, is true, to the dismay of more than one man working along winter egg lines.

Clean out the hen house in the early fall. Cover the floor with three inches of the cleanest soil you can find. Garden soil is good, but avoid that from a hen yard. Whitewash the inside of the house, filling as many of the cracks as possible. Take out every spare board and box. Have as few places for mites as possible. Depend on simple boxes on the ground for egg laying use. Paint all roosts with some good lice killer.

When the pullets are near maturity get them into the house and confine them to a fair sized yard. If this yard is covered with a good crop of grass, so much the better.

The birds should be fed early in the morning and late in the afternoon. The morning feed should be light, yet nourishing, that the birds be inclined to hunt for stray grains in the litter. A little cracked corn thrown into a deep litter along noon will keep the birds working for several hours. The night feed must be a full one. I prefer to feed the mash at this time, but there are just as successful men that give the mash in the morning. The mash is rich in meat and bone and is as near an "egg ration" as I can make it.

Give all the birds will eat! Send them

to the roost with a full crop! This night mash of mine always contains cut clover and meat meal, and the amount of corn meal and bran varies according to the temperature of the week. In zero weather I give corn and corn meal with a liberal hand.

Before the time of winter feeding for eggs I shall go into this part of the "winter eggs for profit" more fully and shall try to make plain my method of care and feeding.

#### Keep an Egg Record.

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of ten cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Corn and corn meal are running somewhat better than earlier in the summer, but still be on the outlook for mouldy grain. Better use more wheat and barley, and less corn, this year. Feed good grain. It pays well!

## Paint Your House With Carrara

And Have it Guaranteed to Look  
Better, Wear Longer, and Cost  
Less Than the Best White  
Lead Paints.

We Send Name of Nearest Carrara Dealer,  
50 Sample Colors and Illustrated Book,  
"How to Paint a House," Free to All  
Who Send Name and Address.

There is but one "Carrara." It is made by the Carrara Paint Agency, 1043 Carrara Building, Cincinnati, O., and it is the only paint in the world that is absolutely guaranteed not to fade, crack, chalk, peel, blister, or scale. It is not affected by acids or gases, and it covers more surface, gallon for gallon, than the best white lead and oil and costs less than the cheap mixed paints that injure more than they protect.



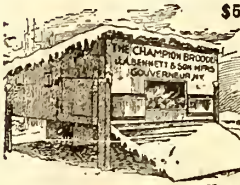
The Waldorf-Astoria, New York, one of the Most Magnificent Hotels in the World, Has Used Tons and Tons of the World-Famous Carrara Paint. Carrara is used by the Pennsylvania, R. R.; the Fullman Palace Car Co.; the Chicago Telephone Co.; the Field Museum, Chicago; the Kenwood Club, Chicago; the Cincinnati Southern R. R.; the Chicago & Eastern Illinois R. R.; the Deaver & Rio Grande Railway and thousands of others of the largest and most particular users of paint in the world. The famous Waldorf-Astoria hotel of New York, one of the finest in the world, has used tons of Carrara because it is the best that can be found in the market to-day.

For interior or exterior it has no equal. Smooth and clean, it has stood the rigid test of time and man. If you want to save half your paint bills send your name and address for nearest distributing depots; 50 sample colors and a beautiful illustrated book sent free, showing a large number of fine houses just as they have been painted with Carrara, and keep well in mind that Carrara is the only paint ever backed by a positive guarantee in every case.

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If you are in the poultry business either for pleasure or profit, you wish the best. If you buy a Champion Brooder you are sure of having the best and one which is "known the world over by its works." We are the largest manufacturers in the world. Cat. free. J. A. BENNETT & SON, Gouverneur, N. Y.

**Stearns** New Model No. 7  
**Bone Cutter**  
is admittedly the best. Only one that cuts fine enough for chicks. No splinters nor chunks. Ball bearings; automatic feed.  
**YOUR MONEY BACK IF NOT SATISFACTORY.**  
Send for free book and special trial offer.  
**E. G. STEARNS & CO.,**  
Box 48, Syracuse, N. Y.

**J. T. FRENCH**  
**TOLEDO**  
**OHIO**  
BARRED PLYM ROCKS  
EXCLUSIVELY REASONABLE PRICES  
EGGS \$2.00 PER SITTING  
HIGH CLASS STOCK  
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I AM SELLING NEARLY  
ALL OF MY BREEDING  
STOCK AT GREATLY  
REDUCED PRICES!!!!

Hens \$1.00 and \$1.50 ea.; cocks that have won in the Show Room, \$3.00 to \$4.50 ea.; other cocks \$1.50 and \$2.00 ea.; all are good sized stock. Hens weigh 7 1/2 to 9 lbs. each; cocks 8 1/2 to 10 lbs.

J. T. FRENCH, 838 W. Grove Place, Toledo, Ohio.

## The Belgian Hare Guide

This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Crating and Shipping, Captioning, Queries and Answers, Miscellaneous, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.  
**PRICE, 25 CENTS.**

A year's subscription to Poultry Keeper (50c) and a copy of Belgian Hare Guide (25c) Address Poultry Keeper Publishing Company, Quincy, Illinois.



**CAPONIZING.**

One may have much learning and yet come in contact with new words occasionally. This word that we are dealing with is an old word and yet it is not in common use. Caponizing is castrating. Caponizing has been followed for many years in Pennsylvania and has only lately become popular in the west. Many hearing this word and knowing what it means wonder why this is practiced, and that is the reason of this article.

There are but few things, if any, that are too good for us Americans to eat, and fewer things that are too large. We believe in good things to eat and no doubt there are those who practice "Eat, drink and be merry, for to-morrow you may die." Then, there is nothing that can happen that will bring such a change on a chick as castration. This makes his flesh very sweet, tender, juicy and white, and the flesh of a young cockerel becomes even more desirable than that of a young pullet.

The ordinary breed of chickens can have from two to four pounds more of flesh added to their frames than if let run at large. If one is raising for the market he can afford to raise them for the same money per pound and yet be ahead on account of the advance in weight. But this is not the best of it. He can get more per pound, raise more pounds, and have better satisfaction and with less feed. You see we are dealing with the young cockerels now. The feed given to a capon is fully used in building up the frame and making muscle. He does not chase around and run off the flesh as fast as he takes it on. There is no satisfaction in feeding stock and not seeing any improvement.

The personal appearance of the bird is changed. In his appearance he looks more like a pullet, he having no comb, wattles nor spurs. He does not crow nor fight, and he becomes rather an offcast, and is perfectly contented by himself, being very docile and kind.

We caponize first, for the improvement of the flesh; second, for the increase in weight; third, for better market prices, and lastly we can handle so many more of them peaceably.

Any breed will make a good capon but the larger breeds are more profitable on account of increased weight. The best market fowl is a clear legged, yellow skinned one, and there is still a choice in the capons. There is, perhaps, less economy used in the poultry business than in any other. The economy that can be practiced is, that instead of having a yard lined with cockerels of mongrel stock to feed until late in the season, which if sold, will bring you only three or four cents a pound, and glad to get that, you can caponize those very birds in season and you have the finest kind of dish when dressed and cooked. Then if you wish to market them you need but feed them a few days and your birds, fatted like hogs in a pen, are ready for any market at 10 or 12 cents per pound, and the price has been known to be as high as 35 cents in New York and Philadelphia.

We caponize birds from two to four pounds, but the smaller ones are better and not so likely to lose flesh in the operation. The operation is simple and requires little skill and much nerve, taking

from three to five minutes per head. The bird will look puny for some weeks and yet he is steadily growing.

The market season is from November until May and gives an advantage of not conflicting with fries and broilers.

Will L. Johnson.

Monroe City, Ind.

**MILLVILLE POULTRY FARM.**

(Continued from Page 174.)

fully looked after and adds many a dollar to the coffers of Millville Farm.

"The feeding of so large a feathered flock is quite an expense. A hasty estimate gave the following, viz., corn, thirty tons; 500 pounds buckwheat; 161 bushels wheat; ten tons of beef scraps; 2,750 pounds oats and two tons shells.

"Besides this, the large amount of green foods and roots would make a big bill for feed. Mr. Delano believes in giving the best. The little chicks are fed every two hours. A corn pone is the principal diet. They seem to be doing well on it, as the mortality rate is very low. The fowls are fed grain in the litter early in the morning, which keeps them working all day. Once a day a mash is given. The system of feeding must be a good one, as over 250 eggs are gathered daily. Mr. Delano finds his strain of fowls very practical and in demand, as he sells eggs at \$5 per sitting, and a few of his select matings produce eggs which bring \$10 per sitting."

**200 EGG INUBATOR \$6**  
By our new plan you can secure our NEW IDEA INUBATOR at nominal cost. Double Walls, Removable Trays, Nursery Cages, Better, Improved, Feeds, Safety Lamps, Regulators. We Can Save You Money! Write for FREE Circular. Address: NEW IDEA INUBATOR, Box 4, QUINCY, ILL.

**IS THERE ANY REASON** why you should pay the dealer a large profit for selling you fence when you can buy the **ADVANCE FENCE** direct from our factory at manufacturer's price? There is no better farm fence made. Entirely interwoven—no ends to get loose and injure stock or ravel out. Many heights. Circulars and special discounts free. **ADVANCE FENCE CO., 140 E St., Peoria, Ill.**

**GET A DANDY BUSHELS OF EGGS** follow the feeding of cut bone. The **DANDY Green Bone Cutter** is the simplest, fastest and easiest bone cutter made. Price \$5.00 up. Sold on 15 days trial. Satisfaction or no sale. Send for price book and Special Proposition. **Stratton Mfg. Co., Box 43, Erie, Pa.**

**Don't Feed Lice.** Fowls have too great a weight to carry to make you profit when they are infested with vermin. Lice are easily **KILLED BY FUMIGATION**. You do not have to handle the fowls and they are not injured. Paint the liquid **Prussian Lice Killer** on the walls, roosts, dropping boards and floors of their houses, and the fumes that arise quickly rid them of all vermin. The fumes penetrate to every nook and corner. Not a mite can escape them and it means sure destruction to all insect pests. In cans, 50c and \$1.00. **Prussian Lice Powder** does exact anything else in the powder line, if you prefer that method. Get either from your dealer. If he does not have them, write to us direct. **Prussian Remedy Co., St. Paul, Minn.**

Agents, Portland Seed Co., Portland Oreg.; Vaughn Seed Store, Chicago, Ill.; J. W. Wilder & Co., Cincinnati, Ohio.

**Success**

with

**Poultry**

Contains **MORE** and **BETTER** Practical, Reliable Information on the general subject of

**POULTRY FOR PROFIT**

Than any other book published. It treats of every branch of

**Practical Money Making Poultry**

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains **118 Pages** (9x12 inches in size) and **Cover and Is The Best Poultry Book Yet Published.** Contents (briefly stated) are as follows:

- How To Get Started.**
- Leading Standard Breeds.**
- Characteristics of Breeds.**
- Practical Poultry Houses (Plans).**
- Fowls; Care and Feeding.**
- Model Brooding Houses (Plans).**
- Care of Adult Fowls.**
- Feeding for Eggs.**
- A Hen Catechism.**
- Feeding Young Chickens.**
- Care of Growing Stock.**
- Artificial Incubation.**
- Incubator Cellars.**
- Broilers and Broiler Raising.**
- Care of Brooder Chicks.**
- Pekin Ducks For Profit.**
- 5000 Ducks on Two Acres.**
- Starting with Standard-bred Poultry Profitable Egg Farming.**
- Turkeys; Care and Management.**
- Capons and Caponizing.**
- Poultry and Fruit Combined.**
- Diseases of Poultry.**

The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

**POULTRY KEEPER PUB. CO., QUINCY, ILL.**



AT BUSY CLOVERNOOK.

(Continued from Page 171.)

lific, Red Holland and White Grape; and we keep a small nursery of young plants always on hand for customers, friends, and to replace inferior goods.

I am very proud of our White Wyandotte chicks and White Holland Turkeys, but these branches of our industries are at present only "buds." One thing sure, though, in size, looks and vigor, it will be hard to surpass these scions of the Duston strain; and the turkeys are being raised with the ducks, in brooders and are doing fine. Most of them were hatched in incubators and I feed them four times a day on wheat bread and sour milk. They eat duck food between whiles and forage after bugs, etc. When I whistle, they come running from every direction.

One lot is about six weeks old and all are healthy and of good size. They are just the dearest pets, and I never knew any fowl less trouble. The old ones are the same. When night comes, the tom gets them (the oldest lot) on the perch beside him and spreads his wings over them and keeps them snug and warm. He is a beautiful bird.

As for the aviary, will say that thus far have sold no squabs, as have more demand for the breeding stock than can supply. My "squab pen," described in last month's P. K., is giving good satisfaction (being a cross of the Homer and our native pigeon) and the birds are large, healthy and very prolific breeders. The squab industry must be booming, as so much breeding stock is being sold, and still there is so great a demand for the birds from customers and other buyers.

Here are some of the reasons why it seems to me we are succeeding and get along so comfortably. Having a variety of interests if one fails, some of the others are pretty sure to help even matters up. Again, there are three of us, and each has his own work and we are all pretty willing and good natured. Then, though steadily busy, we try not to undertake too much, or let the work drive us. As before said, there are times when it takes all three to cope with one emergency. The most trying times to nerve and patience are during long, cold rains. Then we appreciate the economy of good, roomy quarters and find the following little poem as bracing as a tonic:

When you wake up in the morning of a chill and cheerless day,  
And feel inclined to grumble, pout or frown,

Just glance into your mirror and you will quickly see

It's just because the corners of your mouth turn down.

Then take this little rhyme,  
Remember it in time,

It's always dreary weather in countryside or town,

When you wake and find the corners of your mouth turned down.

If you wake up in the morning full of bright and happy thoughts,

And begin to count the blessings in your cup.

Then glance into your mirror and you will quickly see

It's all because the corners of your mouth turn up.

Then take this little rhyme,  
Remember it in time,  
There's joy a-plenty in this world to fill  
life's cup,  
If you'll only keep the corners of your  
mouth turned up.

Frances Ellen Wheeler.  
Clovernook Duck Ranch, Chazy, N. Y.

Do not let the chicks crowd in their roosting coops. At this time of the growing season the birds double in size so as to overcrowd the houses before you think of the danger. An over-filled house means lots of lice, bad air with much "roup" a little later.

Poultry Keeper Insect Bellows.

For use in dusting insect powder of any kind of fowls old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste



any powder if you use these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

July, August and September are the months for caponizing. The instruments we offer for sale are the best made—Pilling's. With every set is sent a book of complete instructions. In the front pages of this issue is an especially valuable article giving details of the work. The Pilling instruments cost \$2.50 per set, express prepaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

**CUT PRICES ON STOCK AND EGGS.** 20 eggs \$1. Pure bred Barred P. Rocks, White Wyandottes, S. C. White and R. C. Brown Leghorns, S. C. R. I. Reds, \$1 per 15. Good stock for sale. RIVERSIDE POULTRY YARDS, Box D, Delaware N. J., C. B. HUFF, Prop.

"LITTLE CHICKS"

Is the title of a new book which tells how to successfully hatch and raise little chicks. The only book published on this subject. Over 160 pages. Price 50 cents postpaid. Descriptive circular free. Agents wanted. Excelsior Wire and Poultry Supply Co., Dept. K. 22-28 Vesey St., New York City.

**Counting Chicks Before Hatching**  
is not safe unless you have an

**IOWA ROUND INCUBATOR**

R. C. Bauerminster, Norwood, Minn., got 493 chicks from 503 eggs. He followed directions, the machine did the work, because it was built on right principles and by good workmen. The IOWA has fiber-board case, does not shrink, swell, warp or crack. Regulation and ventilation perfect. Our free book gives more testimonials and full particulars. Everything about incubation free. IOWA INCUBATOR COMPANY, BOX 179, DES MOINES, IOWA

**THE TRIUMPH CAPONTOOL** SOLVES THE SLIP PROBLEM  
ALLEGATION (ON) CAPON BOOK-FREE FOR STAMP ADDRESS: CAEDNIE PECO

**WHY RUMELY?** You will find the latest catalogue on Rumely's Rear Geared Traction Engines and New Rumely Separators full of reasons. Write us for it. Mailed free. Mention P. K. M. RUMELY COMPANY, LA PORTE, IND.

**BUFF ORPINGTON SALE.** After June 15th I will sell my Breeding Stock at almost "Give Away" prices. Write now if you want a bargain. CHAS. J. MINNS, Box D, Millington, Michigan.

**SINGLE COMB WHITE LEGHORNS**  
(Blanchard's). Eggs 3 cents each. Laying strain. Cockerels.

H. C. BEEBE, - BANNER, ILLINOIS.

**DON'T SET HENS** the same old way while a 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue telling all about and 25c Free Formula FREE if you write today. NATURAL HEN INCUBATOR CO., B1, Columbus, Nebraska.

**1000 Printed Envelopes ONLY \$1.**  
Poultry Printing a Specialty  
SAMPLES FREE. The Journal Printing Co., Creston, O.

**Bred to Lay White Wyandottes.**

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper. 11-12  
C. BRICAULT, Andover, Mass.

**BURR INCUBATOR**

You can get the best incubator on earth, \$6.50 up, all the latest improvements, no night watching, because we use our Five-inch Double Wafer Regulator. 30 days' trial. Send it back if you want to. Catalogue free. We pay freight.

Burr Incubator Co., Box K, Omaha, Neb.

**TRIBBY'S White Wyandottes**

...AND...  
**S. C. W. Leghorns.**

Eggs for hatching. Write for prices and please mention Poultry Keeper.

1-12 J. D. TRIBBY, Brookfield, Ohio.

**A POULTRY COURSE FOR 50c.**

135 } These figures represent results obtained by a man in Maine, who followed out the suggestions in my book, "200 Eggs a Year Per Hen—How to Get Them," given in the chapter, "The Law of Sex," 135 chicks were hatched—of these 28 were males and 107 females. The chapter on "The Law of Sex" is

only one out of many in this remarkable little book. A chapter of timely interest just now is the one called "Fertile Eggs and How to Get Them." The book tells how to make one of the best trap nests ever invented; how to rear chicks; how to feed for 200 eggs a year; how to lay down eggs in the spring so that they will be perfectly fresh at Thanksgiving; and many other useful and interesting things. The book is made up of nuggets of wisdom dug out of the best rock of experience. One enthusiastic lady in Maine writes: "I place your book next to the Bible." Says Dr. Wm. R. Fisher of Swiftwater, Pa.: "Nothing that I have read approaches your book in clearness of expression and fullness of detail. It has given me more information about practical points than all the rest put together." Mr. Chas. H. Dunning of Auburn, New York writes: "I follow your method of feeding and get splendid results." Price of single book, 50c; three for \$1. Liberal terms to agents. Please mention Poultry Keeper.

EDGAR WARREN, Hampton, N. H.



# QUESTIONS & ANSWERS

In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer. —Ed.]

## OSTRICHES.

A copy of your journal has been handed to me by a friend. As I am keeping fowls I find it very useful and enclose money order for fifty cents for one year's subscription. I would be glad if you could give me some information about ostriches. Could they be raised and kept in Canada (in regard to climate, etc.)? Could a pair of these birds (or eggs) be bought, and about what price? Do you consider them a paying bird to keep? Will you please give me address where I could get either birds or eggs.

T. J. H., Lachute, P. Q.

The ostrich is a native of tropical and semi-tropical countries. There are some raised in southern California, but nowhere else in this country that we know of. We do not believe they could be raised in Canada. Mr. Edwin Cawston, Pasadena, Cal., was the first to import them into this country. An adult male is about eight feet high. The eggs weigh about three and one-half pounds and sell in Pasadena at \$6 each.

## DISTINGUISHING THE SEX OF YOUNG DUCKS.

Please tell us through the columns of your paper how to tell the difference between a male duck and a female duck when they are young.

W. & Son, Fitz Henry, Pa.

There is no way that we know of distinguishing the sex of very young ducks. As they begin to mature their general appearance will be a sufficient guide.

## RATION FOR HENS AND CHICKS.

Please give your opinion of the following ration for chickens or hens. One-half

ground oats, other half equal parts bran and shorts, with ten per cent meat meal for mash. Grain ration, oats and barley, equal parts, steamed.

T. L. Harrisburg, Ore.

Your ration is very good, but slightly narrow for cold weather, being less than 1 to 5.

## FOREIGN BODY IN THROAT OR DISEASE CAUSED BY PARASITES.

I have a very fine flock of Hamburgs. A few weeks ago one of my hens when eating seemed as though the food stuck in her throat and would shake her head and squawk. Perhaps she would do this three or four times in rapid succession. She seemed to feel all right and laid all right for about a week, then began to dump and finally died. Now my cock has begun to do the same thing and I don't want to lose him. What is the matter and what can I do?

A. A. C., Lansing, Mich.

The trouble was probably caused by a foreign body being lodged in the throat or windpipe. The obstruction can doubtless be felt by pressure from the outside and thus dislodged. If there is no obstruction the trouble may be of an entirely different nature. There is a minute parasite, similar to the parasite of mange, that sometimes infests the air passages, windpipe, bronchial tubes and the large air spaces of the chest. This condition is indicated by difficult and rapid breathing and by a peculiar tone similar to that produced when a foreign body enters the windpipe. Otherwise the bird seems lively and has a fairly good appetite. It is only when these parasites are present in enormous numbers that the disease they produce is sufficiently severe

as to cause death. The treatment of these cases is not at all satisfactory, but if it is attempted the inhalation of the vapor of tar or of burning sulphur is as promising as anything.

## TECHNICAL TERMS.

I am a chicken crank and dearly love chickens, but I am a beginner, and although I take your paper and one or two others, I can't make out what is meant by the following terms; for example: "Standard bred," "Standard mating," "Double mating," "Single mating," and "Line bred." Will you kindly give definition to above mentioned terms?

A. W., Bluefield, W. Va.

"Standard-bred" is a fowl bred to Standard requirements. One without disqualifications. A fowl may be pure-bred and yet not be standard-bred.

"Standard mating" is the mating of standard birds in such a manner as to produce both males and females of standard quality from the same pen.

"Double mating" is the mating of separate pens to produce the males and females. That is, one pen is mated to produce exhibition cockerels and another for exhibition pullets. The pullets from the cockerel mating and the cockerels from the pullet mating are discarded.

"Single mating" is the same as standard mating.

"Line-bred" is a bird that has been bred in line for some certain object. Usually inbred. See Fishel article in this issue.

## LINE BREEDING—THE BEST LAYERS.

I note in a recent issue of your publication you say to take this year's cockerel and some of his best daughters and try line breeding next year. I was under the impression that you had to get a new rooster every year, not at all related for each pen. Kindly enlighten me on this point. What I mean, will they not inbreed by using the same blood? I have the Hawkins strain B. P. Rocks, also Black Langshans and Black Javas. In your opinion which are the best, Black Langshans or Black Java for this climate? I have a large barn and cannot keep it heated in winter. Will the Langshans stand the cold as well as the Javas, and do they lay as many eggs? Kindly

## HERE'S PROOF OF SUCCESS

ENTHUSIASTIC PRAISE FROM  
PUPILS OF THE...

# Columbia School of Poultry Culture.

New London, Conn., March 23, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I have received all mail sent by you and wish to thank you most cordially for your interest in my undertaking. To me, your lectures are so clear, so full of that detail so necessary for the success of a beginner, that in my estimation they ought to be fascinating reading even to those who have never given a thought to poultry culture.  
Yours very truly,  
A. L. RUDEN.

Chicago, Ill., March 25, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am pleased to say that the instruction received from your school is all you claim and all questions have been answered promptly and to the point.  
Very truly yours,  
JOHN VAN VALKENBURG.

Columbus, Ohio, March 19, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I am more than pleased with the lectures and highly prize them. The lecture No. 12 on incubation is beyond anything I have ever read and I think I have read most every treatise written that has been published that I could lay my hands on.  
Yours truly,  
A. M. WARSCHAUER.

Chicago, Ill., April 4, 1903.

Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am finding your course of lectures most interesting, practical, and logically arranged. I think I may be able to direct other pupils to you before long.  
Very truly,  
(Signed) ALICE A. DEERING.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers are taught to breed their own winners by thorough instruction in the principles of mating and line breeding, while those who keep poultry as pets are shown how to obtain the most satisfactory results.

Students are assisted to lucrative positions as managers of poultry plants. The demand for competent men is rapidly increasing and the number of those available is far too small for the positions open. A course will fit you to fill a good position at a handsome salary. Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.

## THE COLUMBIA SCHOOL OF POULTRY CULTURE,

BOX 102,  
WATERVILLE, N. Y.

SPECIAL NOTE.—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.



tell me which are the best for egg production. Also in your opinion which are the best, the Hawkins or Thompson strain, both of which are largely advertised in your paper?

J. P. I., Jr., Curwensville, Pa.

Systematic line-breeding (inbreeding) is the only way to produce high class fowls. It must be done with judgment, however, or the bad qualities and weak points will be perpetuated as well as the characteristics sought. See article on this subject by U. R. Fishel in this issue.

Black Javas and Langshans are both excellent layers and will stand the cold well. The Langshans are probably the most popular, but the Javas are likely to produce the most eggs.

Both strains of Plymouth Rocks you mention have taken high honors. It is a "toss" between them.

**HEN MANURE.**

Please answer in next issue of P. K. the value of hen manure and how to prepare and keep it to get the best results. Is it as good as guano?

M. & S., Johnstown, Pa.

See July P. K., page 160. There is little difference between hen manure and guano.

**WANTS INFORMATION.**

I have just read with great interest a little notice in your last issue which I am delighted to see, viz.: "Every subscriber to P. K. has the right to ask for special articles published on poultry work," etc., etc. Please gather up and publish all practical information on managing so as to have your hens and pullets give eggs for Xmas. We want information from those who have made a personal success and not just theoretical articles that sound well on paper. I read your journal with the greatest interest and await its monthly arrival with impatience. Do publish information about incubators and brooders, also that can be utilized by novices who are anxious to try and do not know which kind to buy or how to go about making a beginning.

Mrs. J. B., Macon, Ga.

You will find many useful articles relative to incubators in the "Incubator and Brooder Department." Any point you do not understand we will try to enlighten you on this department. Dr. Sanborn has an excellent article in this issue treating of the eggs-in-winter subject.

**RATION FOR 100 LEGHORNS.**

1—Is this a very good ration for 100 Leghorns for egg production? Morning feed, six pounds grain, oats, wheat and buckwheat. Noon, five pounds steamed clover hay. Night, nine pounds whole grain, corn, oats and buckwheat, beef scrap and

grit always before them. Is that as good as putting scraps in mash?

2—Will five pounds be sufficient quantity of mash to force one or three months old pullets for laying? The mash is of ground grains, one-third clover, ten per cent beef scrap, corn, wheat and scraps always before them.

M. E. M., New Paltz, N. Y.

1—The quantity fed is exactly right and presuming that there is an equal amount by weight of each of the grains mentioned the nutritive ratio is about 1 to 7.5. This is altogether too wide, but as the fowls have beef scraps constantly before them they will probably eat about two pounds per day, in which case the ration would be nicely balanced. There is no necessity for putting the scraps in a mash.

2—We should give the pullets more mash if they will eat it up clean. You can hardly feed a maturing pullet too much if she has plenty of exercise.

**MATING WHITE PLYMOUTH ROCKS.**

Please tell in your next issue how to mate my White Plymouth Rocks next year, and what makes so many blue or greenish shanked pullets this year? Last year I bought a cockerel of a firm in Wisconsin; paid two dollars and fifty cents for him. He had good yellow shanks and toes. I mated him to five two-year-old hens and last year I didn't have a blue or green shanked chick. I lost that male last summer and bought another two-year-old male this spring and mated him to thirteen of the best pullets I raised last year. I paid five dollars for him and got him from one of the largest White Plymouth Rock breeders in the east. He is a fine cock—good yellow shanks. Now

two-thirds of my chicks this year are cockerels and only two or three out of sixty cockerels have blue shanks; but two-thirds of the pullets have blue or greenish shanks and black eyes; but otherwise these same blue shanked pullets are the best shaped, deep bodied birds in my yard. I have some good pullets with good shanks and toes, but not many. My cockerels are the best I have ever seen, taking them all the way through, and there are a good number that will make good show birds. Now how shall I mate next year? I want to line breed as I have a good laying strain. Can you tell me how to do it and not get so many blue shanks next year? My this year's breeding pullets all had good shanks and most all were up to standard weight. My eggs



**Sheridan's Condition Powder.** Once daily, in a hot mash. It assists in growing new plumage, gets them in condition to lay when eggs bring the highest prices.

Sold by druggists, grocers, feed-men, or by mail. One pack, 25 cts; five, \$1.00. Large can, \$1.20. Six, \$5.00. T. S. JOHNSON & CO., Boston, Mass.

**\$2.50 FOR \$1.00**

We will send each of the following monthly publications to any address for one dollar.

- WESTERN POULTRY WORLD..... 50c
- OKLAHOMA FANCIER'S JOURNAL..... 50c
- MID-WEST FANCIER..... 50c
- WESTERN POULTRY JOURNAL..... 50c
- FANCY FOWLS..... 50c

Publishers Price.....\$2.50

Send for our circular giving one 5000 combinations if this one does not please you. Circular free. 60 varieties of fancy fowls growing for the fall trade.

**OMEGA POULTRY YARD,**

Box K. Omega, Oklahoma.

**...ANNOUNCEMENT...**

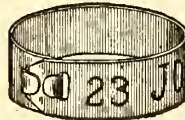
We have greatly improved our facilities for making Leg Bands and are as well equipped as automatic machines and dies can make us. We have reduced the cost of manufacturing and will in turn reduce prices to our customers. The following prices will be in force after this date.

THE KEYES-DAVIS CO., (LTD.), MANUFACTURERS  
BATTLE CREEK, MICH.



Most popular Leg Band on the market. Nearly 1,000,000 in use. Note new prices: 20c. per 12; 25 per 35c; 50 per 60c; 100 per \$1., prepaid. Samples for stamp. State sizes wanted.

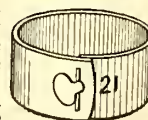
**DOUBLE CLINCH,**



per 50c; 100 per 75c, Postpaid. Send stamp for samples.

Our Double Clinch and Eclipse Bands are low in price, but they are the best bands on the market for the money. Prices either style; 12 per 15c; 25 per 30c; 50

**ECLIPSE.**



Bands insure positive identification of scored birds. Used and endorsed by prominent poultrymen everywhere. 12 for 30c; 25 per 50; 60 per \$1; 100 \$1.50, postpaid. Sealers, 50c, 55c, and 75c. Send stamp for samples.



**Trade-NAPCREOL-Mark**

**A FLUID DISINFECTANT.**

**KILLS GERMS, DESTROYS ODORS, PREVENTS DISEASE.**

Cyphers Incubator Co., Buffalo, N. Y.

Andover, Mass., Feb. 7th, 1908.

I can strongly recommend your "Napcreol"; it is indeed all you claim for it. I have given it a severe test as a mite destroyer and it did the work to my entire satisfaction. In cases of scaly legs, it is a sure cure. For sweetening poultry houses, brooders and drinking fountains, it is the most reliable disinfectant I have yet used. Very truly yours, C. BRICAULT, M. D. V.

Prices: Half-gallon can, 85c. Gallon can, \$1.50. Ask your dealer for Napcreol. Agents Wanted. (For agency apply to home office, Buffalo, N. Y.)

**CYPHERS INCUBATOR COMPANY,**

BUFFALO, N. Y., Factory and Home Office. BOSTON, MASS., 34 Merchants Row. CHICAGO, ILL., 310 Fifth Avenue. NEW YORK, N. Y., 23 Barclay Street.



all hatched good (95 per cent) and good strong chicks. W. C., Colo., Iowa.

The blue shanks were probably the result of crossing two distinct strains. We should mate the old cock to the best yellow-shanked pullets and one of the best cockerels to the old hens, if they are to be kept another season. You cannot expect that all the chicks will be standard. If twenty per cent are good specimens your mating should be considered satisfactory.

**WHITEWASH—DYSENTERY.**

Being a subscriber to your paper I would like to ask a few questions.

1—How can I make whitewash that will not rub off?

2—I have some young chicks five weeks old and there is one which has diarrhoea very bad. She passes blood in her droppings. Can you give me a remedy?  
G. A. McK., Chicago, Ill.

1—In a proper receptacle slake a peck of lime by pouring enough boiling water over it to thoroughly cover the lime and make it the proper consistency. Stir briskly until thoroughly slaked. Then add one pound of sulphate of zinc and one pound of salt dissolved in hot water. This wash will never crack or peel off. The wash may be colored by adding yellow ochre, ivory black, umber, ultra marine blue, Venetian red to any tint desired. For inside of poultry house add half an ounce of carbolic acid and a pound of sulphur.

2—Your chick has dysentery, which is really diarrhea in a severe form. When the disease has reached this stage it can rarely be cured. Give a dose of castor oil and every four or five hours a few drops of laudanum. Keep the chick confined and at rest.

**WHAT TO DO EACH MONTH.**

We would appreciate it very much if you would kindly tell us what, according to your judgment, is the one essential thing that poultry raisers should do during each of the different months of the year. In other words, what should they feed for, etc.? D., Chicago, Ill.

As most poultrymen begin operations in March, we will designate that month as the beginning of the year. The breeding pens which have been previously mated, receive the most careful attention in order to get strongly fertile eggs. The ration is whole grain and meat, with plenty of green food, of course. The incubators are started and hens set, and when the little chicks come off, after the first week, they are forced for growth

of frame with a dry food diet. The laying hens are pushed for market eggs with a soft food ration.

April and May are the poultrymen's busy months. The early chicks are put on grass and forced for growth and young chicks are constantly hatching. All are fed dry food. Chicks hatched in April and May make the best breeders. If we wish to dispose of any of the chicks as broilers we put the meat on with soft food. A broiler raised on dry food and fattened on soft food is better, larger and costs less than when fed soft food from the start.

June—The ration of both breeders and layers is narrowed to about 1 to 4.5 and reduced, as the hens are getting plenty of grass. We still feed meat in some form, but less grain. If we break up the breeding pens and the hens are on free range, we do not feed but once a day, giving wheat, oats and beef scraps. The growing stock is fed all they will eat of a bone and muscle forming ration.

July—The young stock require especial care this month in the shape of plenty of shade, clean quarters, cool water and nourishing food. If this care is given them they will not cease growing during the hot weather. The old stock receive the same care as during June and many of the hens that it is not desired to keep over are sold off, as well as many of the early cockerels.

August—The feed is the same as during July. Some of the hens are in the molt and we feed them quite liberally, giving wheat, oats, meat, linseed meal and sunflower seed. More cockerels and old hens are sold off.

September—The hens of last season's hatch that are through the molt are kept over another season. We increase

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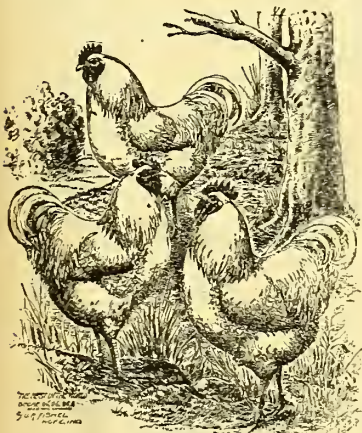
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the feed to the growing pullets so they will commence laying next month. The old hens that are kept over are also fed for egg production. All surplus stock is marketed preparatory to going into winter quarters.

October—This month we have our general round-up and get the stock into winter quarters and the pullets to laying. The diet consists of meat, green foods, mixed grains and occasionally a mash.

November—We feed for eggs, the ration being similar to that used in October, but we usually feed more soft food, employing the by-products of grain, securing a balanced ration at less expense. The supply of green food should be almost unlimited.

December and January we feed the same as in November, except that we make our mash slightly narrower and feed more corn in the whole grain ration to keep up the heat. Have the roosting room warm, but let the fowls exercise all day in the open air unless the weather is stormy.

February—We mate the breeding pens and omit the soft food from the breeders' ration.

**RATION—BROODY HENS.**

1—I would like to have you tell me why my hens do not lay. I have one pen of nine Rhode Island Reds. They have house room 7x12 and a yard run 10x30 feet. I feed them this summer, for grain, oats almost entirely. In the morning at six o'clock I give them one pint of the best oats I can buy, and throw in litter for them to scratch for. At noon I throw in a couple of handfuls of oats or sometimes wheat, and about five o'clock I feed them a warm mash made of one quart of mixed feed, handful of beef scraps, any table waste that I may have and a little salt. They seem to eat it clean every night. I keep grit, oyster and sea shells and ground bone before them all the time and they get fresh water every day. Some days I feed, for a change, wheat instead of the oats. I throw in lawn clippings and weeds every day and spade up the yard once a week. Now if you can see anything wrong will you please tell me? The hens are not two years old yet so they are all O. K.

One thing more. My hens want to sit most all of the time, and they do not seem to be very fat. One hen I have broken up three times and I have the same one shut up now for the fourth offense.

E. A. E., Keene, N. H.

1—Your ration would be improved by mixing a little wheat or corn with the oats, and if necessary add more beef scraps. We do not know what your mixed feed is, but if it is corn and oats, it would add to its efficacy to mix in one-fourth (by measure) wheat bran.

2—Rhode Island Reds have the reputation of being quite inclined to broodiness. We do not believe the feed has anything to do with it.

**FEEDING DUCKS—WYANDOTTES.**

1—This spring I set twenty-four duck eggs under two chicken hens and hatched twenty-one ducks. They are of the Pekin variety and are now nearly three months old. Four died when they were about a month old. They grew very fast, but

seemed to be weak in the legs and soon after died. I have seventeen yet and they look nice and large, but I notice that when they eat they sit down and get up with difficulty. At first I fed them bread soaked, then a mixture of bran and corn meal, also a little cracked corn. The last few weeks have been feeding whole corn entirely. They have free range on a farm without running water. Please tell me in the next issue of Poultry Keeper what you think ails them.

2—I purchased a trio of White Wyandottes and have a fine lot of cockerels and pullets. Would it be advisable for me to keep these cockerels for breeding next spring?

W. H. S., Stewartstown, Pa.

1—Soft food is much better than whole grain for ducks. Your ration lacks nitrogen. You should feed some beef scraps or meat meal and corn meal and bran instead of whole corn. For the leg weakness feed only dry bone in their soft food.

2—Yes, but it is not a very good plan. Why not keep the old cock bird to breed to the pullets and use a cockerel with the hens?

**FEEDING HENS.**

I am a novice in the chicken business. I bought my first fowls in June. I have seven White Wyandotte hens and a rooster. I have been feeding a mash made of wheat middlings and bran, about two-thirds and one-third, about one quart in all mixed with it, not quite a gill of charcoal and one-half pound chopped meat, and middle afternoon gave a little short of a quart of wheat, next day oats soaked before using. I fed mash three or four

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times a week, in morning always. Fed but twice to-day, all grain thrown in straw so they would have to work to get it. From June 24 to date have received eighty-nine eggs. Have fed corn but three or four times. Noticed they have been troubled with looseness of the bowels. Have I been feeding wrong?

To-day one of the hens has been sitting on the nest all day as if she wanted to hatch, but it is too late, is it not? I have noticed a couple of the hens while eating would pull their heads back as if they were afraid of being hit by something. Can you tell me what causes it? The hen that wants to hatch was one of those that acted that way. She is not fat; seems to me to be poor. They have clam shells, grit and charcoal before them all the time. Their yard is on stony ground, but I have no grass for them to run on. The coop they sleep in is 6x8x8; enclosed scratching shed where I feed them is 16x30x9, and the yard is 25x50 feet. Any information you can give me will be thankfully received.

Novice, Rensselaar, N. Y.

Your ration is too concentrated, and as the hens have no grass, they should have clover or roots for roughage. The addition of mill feed (corn and oats ground together) would improve the mash mixture. If you would make your mash one-third clover hay or clover meal it would be much better. Some succulent food such as cabbage, beets or even potato parings would be of great benefit. We should omit the charcoal from the mash if they have it before them. There will be no looseness of the bowels if you correct the food. The sitting hen can be broken by confining her in a small coop where she can see the other fowls, but not get onto a nest.

**THROAT TROUBLE.**

I have a cock bird (Barred Rock) which has throat trouble. Early in the season I noticed he would be eating and all of a sudden give a sudden "Teh" (that is as near as I can spell it). I thought it was perhaps gape worms, so I put him by himself, fed lightly and swabbed his throat with a feather dipped in turpentine, but it did no good. When he would do service he would eject from the mouth considerable white slimy, watery matter. After keeping him alone for a week or ten days and as he seemed to be lively and vigorous, I returned him to a pen and he did good service all season. I have not noticed the ejection from the mouth while doing service any more, but he still has the throat trouble. While eating or crowing he will suddenly break off with a loud "Teh" as if something was in his throat. When he breathes he has a rather rasping noise, especially at night. As he is a fine specimen, I hate to kill him, which I have been on the point of doing several times. Any light you can give on the matter will be very much appreciated.

D. E. H., Windom, Minn.

The trouble is caused by minute parasites in the air passage. The treatment of such cases is very unsatisfactory, the inhalation of burning sulphur or of the

vapor of tar has in some cases effected a cure, but very seldom.

**CLOVER—GAPES—SORE EYES—MINORCAS—RATION—FLOORS.**

Please answer the following in your next issue and accept much thanks for same:

1—When is the time to cure red clover for poultry feed in winter and how?

2—Will white clover lawn clippings do if cured with a little blue grass in it?

3—What are the symptoms of gapes in young chickens?

4—I have a few hens that have sore eyes, from which a kind of a watery discharge comes; some of them get it so bad that their eyes swell shut and then they do not eat well. What is the matter with them and what can I do for them?

5—How many points ought a S. C. B. Minorca have on his comb, and do B. C. Bantams have yellow or slate colored legs?

6—What is a good ration to feed hens after they have gone through the fasting process of molting?

7—Would you advise cement or board floor in poultry house?

O. D. M., Concordia, Mo.

1—When the heads begin to turn brown.

2—It will make good winter food.

3—Gapes are caused by the windpipe being infested with small reddish worms,

causing the chick to gape for breath, and death ensues from suffocation.

4—Cleanse the eyelids with warm water to which boracic acid has been added in the proportion of fifteen grains to the ounce. Afterwards anoint with vaseline.

5—Buff Cochins Bantams should have rich yellow legs and toes.

6—For a mash: Wheat bran, middlings, ground oats and corn, of each equal parts by weight, to which add ten per cent of beef scraps and the same amount of linseed meal. For grain: Oats, wheat, sunflower seed and a little corn or buckwheat.

7—Cement, earth and boards all make good floors if properly constructed. Cement can be kept clean the easiest, but it really does not matter what kind of a floor is used, for any floor should be covered with an inch or two of soil and six inches to a foot of straw or other litter.

**FORCING HENS TO MOLT.**

Having heard and read so much of the possibilities of forcing hens to molt would like to ask you to explain the ways and means of success and whether it is better to follow the Van Dresser method or feed them liberally of linseed meal and

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such like. My hens are laying well now, and it seems almost wicked to pursue such a plan. Do you think it would pay for the bother in eggs and early sitting hens to venture it?

Mrs. B. C. U., Pawnee Rock, Kan.

The plan is simply to reduce the ration until the hens become quite thin, then feed them liberally on a highly nitrogenous ration. Whether it would be advisable in your case you alone can decide. If the hens are laying well now and are molting by degrees, as some of them probably are, it might prove the most profitable to feed them liberally and get all the eggs you can, save those that molt reasonably early and send the others to the butcher, if you have pullets to replace them. This is the plan pursued by the writer, and we have had hens that did not stop laying more than two weeks on account of molting. A little linseed meal and beef scraps in the mash and an occasional feed of sunflower seed will aid them both in molting and egg production.

#### DUCKS FOR BREEDERS.

Please tell me in your next P. K. how old ducks have to be before they are unprofitable for breeding. Our ducks are now three years old; would it pay to keep them over or get young ones in their places? The Poultry Keeper is a great help to poultry raisers.

M. A., Claypool, Ind.

It would probably be safer to use new breeders, although the old ducks might do well another season. Younger ducks will give you eggs earlier.

#### HAS SUCCESS RAISING CHICKS, BUT POOR LUCK HATCHING.

Will speak of my good success in raising chicks in the brooder, but poor success in the hatching process. After repeated failures I asked the manufacturer for advice and he kindly answered, but it did not suit my case, as he recommended higher temperature when I had run it somewhat higher than his directions and yet I got weak little chicks. Many died just as they were ready to hatch. Fearing the fault was with my eggs, I bought of others and thus far have lost over six hundred eggs. Am anxious to know why so many die at different stages of incubation. Have used the moisture pans all through the hatch and only the diffuser after the eighteenth day with same results.

Mrs. J. D.

It would be impossible to enumerate the different causes here and prescribe a remedy. You will probably gain much knowledge on the subject by reading the articles in Poultry Keeper.

#### SELECTING BREEDERS.

Will you please tell me in the P. K. how I can best select hens for breeders without trap nests. I can't afford trap nests. The July number of the Poultry Keeper is a regular "gem."

Walter E. C., Woodsville, N. H.

By a little observation you can tell which pullets are laying. As soon as a pullet begins to lay mark her with a leg band and record her number in a book. By their general appearance you can tell which are laying and by keeping a record

of the periods that each are producers and the time they are idle you will know the most persistent layers. You cannot tell how many eggs each produces, but you can form an idea by the length of the laying periods and the number of eggs received. Select your breeders from hens that as pullets did satisfactory work on the nest.

#### TO MAKE A SOLUTION OF WATER GLASS.

There has been much said at one time and another in Poultry Keeper about preserving eggs with a ten per cent solution of water glass. Now what I want to know is, what is a solution? Am I to use ten per cent of a saturated solution and ninety per cent of water, or what? The water glass which I am able to get is in form of a powder, and I don't know how to form a starting point, nor has there

been sufficient description given in anything which I have seen written on the subject. Kindly give me a starting point, and oblige.

Clinton F. P., Nessen City, Mich.

Water glass is a silicate of sodium or potassium found as a white glassy mass or stony powder, or dissolved as a viscous, sirupy liquid. The latter is generally used for preserving eggs. Of this liquid ten parts are used to ninety parts water. If the powder you get can be readily dissolved you can make your solution from that as well as to first make a saturated solution. Take ten per cent by weight of the powder and ninety per cent water, or one pound of powder to ten gallons of water.

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MILLVILLE POULTRY FARM, Box 1, M. F. Delano, President, Millville, New Jersey.

tive solution to use as a spray in disinfecting poultry houses of disease germs? It must be reasonably cheap because of the immense quantity needed and still be effective. C. N. R., Canton, Pa.

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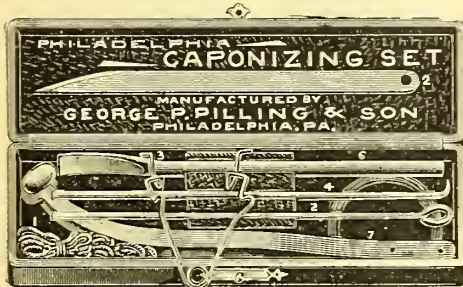
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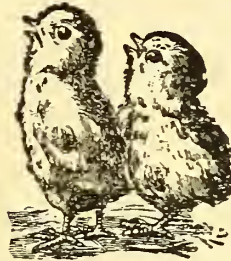
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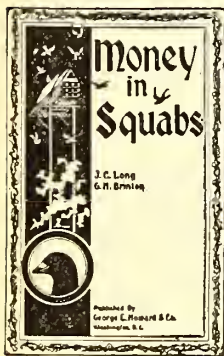
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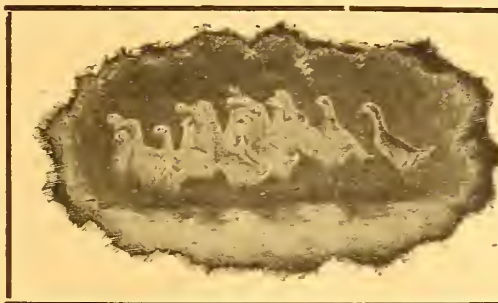
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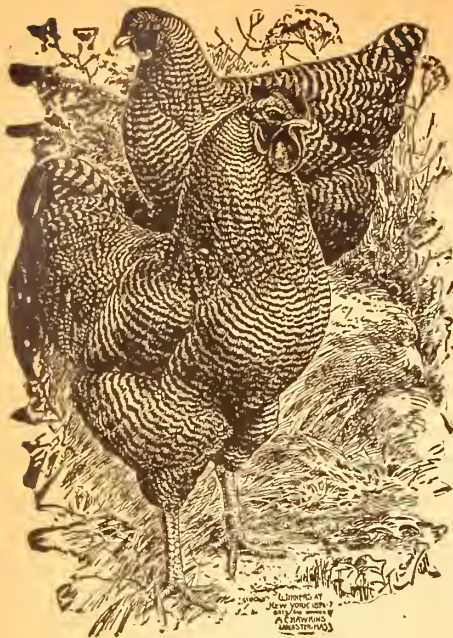
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Vol. XX.

September 15, 1903.

No. 6.

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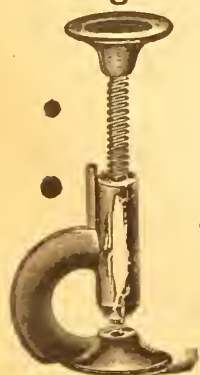
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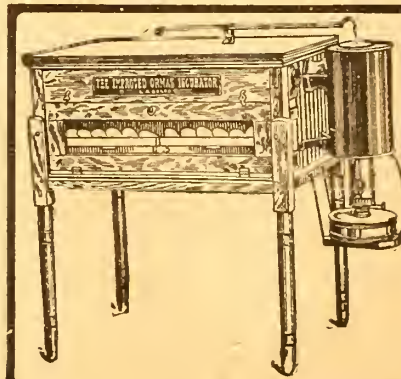
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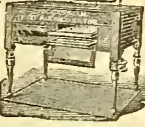
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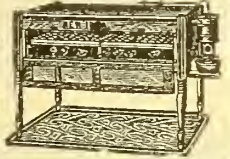
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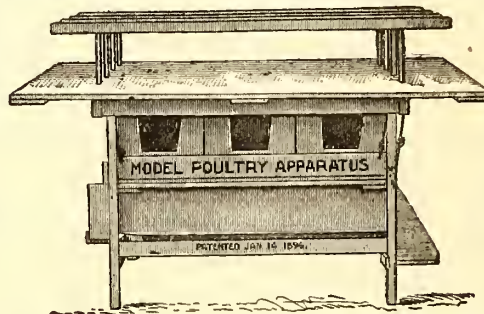
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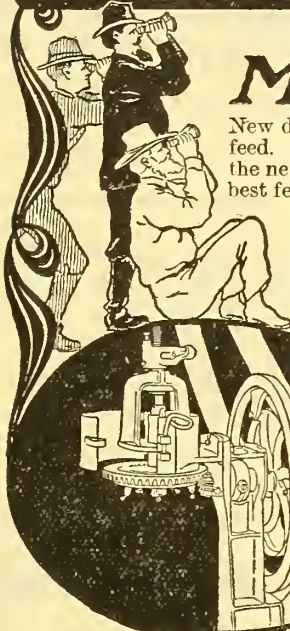
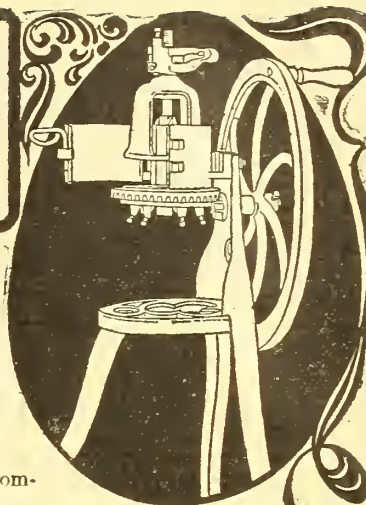
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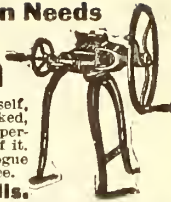
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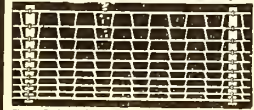
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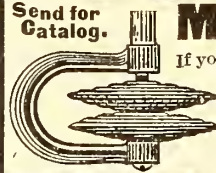
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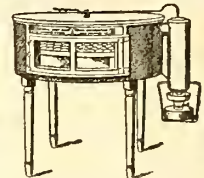
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Vol. XX.

QUINCY, ILLINOIS, SEPTEMBER 15, 1903.

No. 6.

## THE THREE POPULAR STYLES OF POULTRY HOUSES.

The Colony House, the Continuous Scratching Shed-Roosting and Laying Room House, and a Plan That Combines Good Features of Each.

By Rev. Edgar Warren, Hampton, N. H.

**M**UCH of a man's success or failure in the poultry business will depend upon the location and construction of his plant. Where hens are kept in small numbers and given free range they do well almost anywhere. But where they are kept in large numbers and in confinement they must have as favorable conditions as possible, or they will prove a source of loss and not of profit to their owner. Indeed so difficult has been the problem that it is only lately that men have found the solution.

The last edition of the Encyclopedia Britannica, published within twenty years, says: "In England many poultry farms have been started, but none have ever proved successful. Poultry rearing is an industry adapted to the small holder, to the rearer for home consumption, or as an adjunct to the large farm, but as an industry of its own it is never likely to be worked to advantage. There is no difficulty whatever in hatching any number of chickens, but when the young birds are crowded together and are living on tainted soil they invariably become diseased and die with extreme rapidity. The conditions of a crowded poultry run necessarily resemble those of an army encamped without due sanitary precautions, which cannot be adopted in the case of birds. The inevitable result is that they perish of diseases of a typhoid character which are quite beyond the power of the owners to control or alleviate."

The best location for a poultry plant is on sandy soil where there is a gentle slope to the south or southwest. If there is a windbreak of some kind on the north and northeast the location becomes ideal. Such a location, however, is hard to find—nor is it indispensable. Poultry can be kept on almost any soil, provided it is not saturated with water for a considerable portion of the year. Even

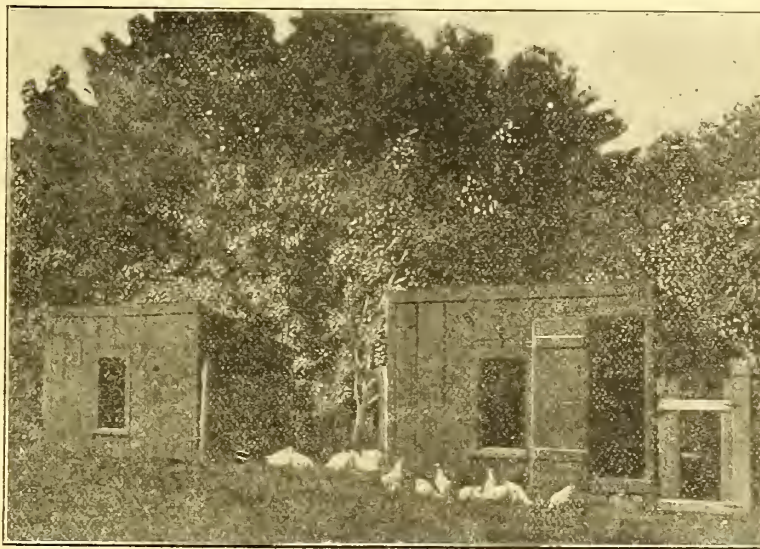
a clay soil has its advantages; it produces a luxuriant growth of grass, which not only provides the fowls with forage, but which also by its roots take up the excrement which otherwise might contaminate the ground.

Before the poultryman drives a nail or does a stroke of work he should carefully consider the possibilities of his sit-

But if the man lives and his business grows the time will come when he will thank his stars that he was wise and far-seeing enough to have a plan at the very start, and not have to waste time and money moving buildings about or in tearing them down and replacing them with other ones.

### The Colony Plan.

There are three methods of keeping hens in large numbers. The first of these is the colony plan. The principle of the colony plan is that of keeping hens in small segregated houses—twenty-five to fifty hens in a house. These houses are scattered at regular intervals over the farm, and are visited two or three times a day by an attendant. The hens are given free range. It has been found that where houses are one hundred yards apart or even less, flocks will not min-



The Colony-Community Plan of Poultry House Mr. Warren prefers.

uation, and lay out his prospective plant in his mind. If he is to build largely at once it might pay him to consult an expert. But if he is to build only one small house he should build it with reference to others that he may put up in future years.

So I say, have a plan. The details may be filled in at the poultryman's convenience—or they may never be filled in.

gle, but that each flock will keep in the neighborhood of its own house.

This plan has its advantages. It is inexpensive. The houses may be of the cheapest kind. No yards are required. The hens at certain seasons of the year pick up a good deal of their living. If the houses are located in an orchard the hens fertilize the ground around the trees and eat the wormy



fruit. No dangerous disease is likely to break out among hens kept in colonies.

But on the other hand the plan has serious drawbacks. Even in pleasant weather it requires a good deal of time each day to visit the scattered flocks; but in winter, when a blizzard is raging, to make the rounds of the houses is an experience calculated to make one appreciate the perils and hardships of a Polar relief expedition. Then, too, these isolated, detached houses are shining marks for thieves; and unless the neighborhood is exceptionally honest, the poultryman may wake up some fine morning to discover that two or three hundred of his fowls have vanished.

#### A Colony Plan House.

Perhaps as good a house as any for the colony plan is the A-shaped house, a cut of which is presented herewith—See Fig. 1. There is a man in New Hamp-

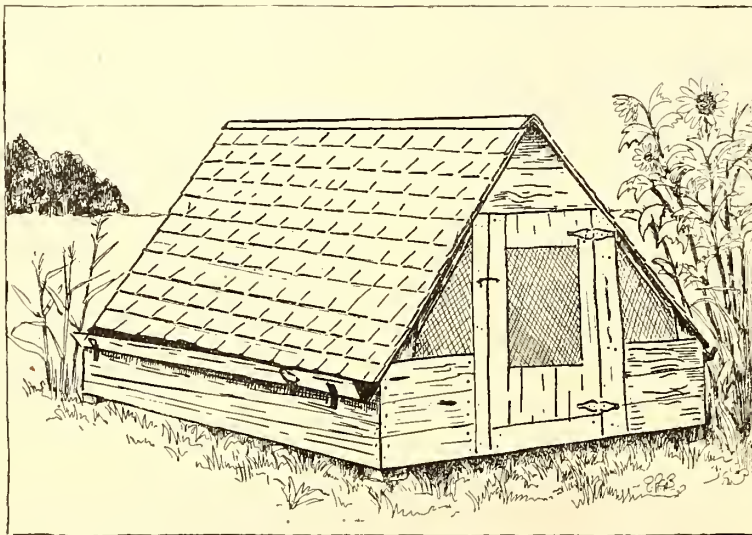


FIG. 1—Colony House to accommodate twelve to twenty-five fowls.

shire who keeps over seven thousand hens in houses of this kind. The hens are not given any range, but are put into these houses in the fall—twelve to a house—and are not allowed outside until the next fall, when they are sent to market.

A remarkable thing about these houses is that they are open to the weather on the south all the time—winter as well as summer. It seems a wasteful way, as the hens have to eat just so much more food to keep up body heat; but if glass or oiled muslin were substituted for chicken wire, and the hens were let out every pleasant day, the houses would be good ones. With free range twenty-five hens could be kept in a house instead of twelve.

The houses are thus described by Mr. A. F. Hunter: "The houses are all alike as to plan, being eight feet square on the ground and built exactly like the 'A' tents that some of us slept in in 1861-65. The floor is of two thicknesses of boards laid so as to break joints, and there is no frame whatever. There is a square base some fifteen inches high made of two-inch thick planks, then the roof boards cut eight feet long are nailed to the base and the inch-board ridge pole. The back (north) end is boarded up solid, while the front end is boarded up about fifteen to eighteen inches and down

from the apex of the roof about eighteen inches (to give sufficient stiffness), and the balance is just sufficient boarding to make a door with a frame to hang and hasp it to; all the open space is covered with inch-mesh wire netting, which effectually excludes "varmints," but freely admits the air.

The houses rest upon four small stones, one at each corner, to bring the floors up from the damp ground.

The inside furniture is of the simplest. At the back and about three feet above the floor two roost poles are set, about a foot space between them and the rear one about six inches out from the wall. There are two small nest boxes, one in each front corner; a small box (about ten inches square by six inches deep) for the food, another for crushed oyster shells and a dust box about two feet square by eight inches deep. The water pan is outside,

at the back corner, with a small gutter to convey the drip from one eave to it in rainy weather, and an aperture 2x4 inches gives the fowls room to put the head out and drink. This arrangement of water pan and gutter entirely avoids watering in rainy weather; and in winter, when there is snow on the ground, a shovelful of snow is put in each house for the fowls to eat. \* \* \* The broody coops are about two feet square, with a board floor and roof and slat sides. A small pan of water and a dish of food is set on a board in front of each coop and the prisoners reach their heads through the slats to eat and drink; these broody coops are set on the ground a little in front of each house."

#### The Community Plan.

The second method of keeping hens in large numbers is what I may call the community method or plan, and is sufficiently described by the name. The majority of large poultry plants in this country are constructed on this plan. The great argument in favor of this plan is economy—economy in labor, economy in land. The original cost of a plant on the community plan is somewhat greater than the cost of a plant on the colony plan; but when the plant is erected and equipped the saving begins.

There are, however, some objections to

this plan besides the initial cost. It has been found very difficult to keep the houses perfectly dry, where the length exceeds sixty feet. Moisture collects on the walls and roof, and in cold weather congeals, so that in these long houses there is often a coating of frost. In cleaning out the long houses it is somewhat difficult to reach the central compartments, requiring as it does a long walk and the opening and shutting of many doors and gates.

Where a virulent disease like cholera or roup breaks out in one compartment, as it sometimes will, it has been found almost impossible to confine it to that compartment—germs traveling in the air, or being conveyed from one pen to another in excrement which may stick to the feet of an attendant. With the community plan go long narrow yards or parks, which can be fenced only at considerable cost.

Many attempts have been made to remedy the defects of this plan, with more or less success. It was formerly the practice to have an alley-way about three feet in width on the back side of the house, and running the entire length. But this practice has generally been abandoned; it makes the house colder than it would be otherwise and takes up space unnecessarily. It has been found that with double swing doors between the pens the attendant can pass through a long house about as quickly as he could if there were an alley-way.

The scratching shed has now become an integral part of many of the long houses. The scratching shed, as its name implies, is a place for exercise under the same roof with the laying room, but more open to the weather. The scratching shed has many enthusiastic advocates who claim that it is judispensible to the health and comfort of the fowls in winter, and will more than pay for itself in an increased egg output. The claims for the scratching shed house seem so valid that were I building a house more than sixty feet in length, I should certainly add scratching sheds.

Where a man is to construct and equip a plant on the community plan I cannot urge upon him too strongly to make a careful study of the subject, consulting carpenters and visiting successful plants in his neighborhood. It is impossible in an article like this to give a plan for a house that will suit every purse and every place. I can only submit a cut of what I consider the best community house I have yet seen, and give a brief description of it. The house is on the Dunning-Gardner Poultry Farm.

The house shown in the foreground of the view is one hundred and eighty feet long by twelve wide, and is divided into ten sections, each eighteen feet. Each section is in turn divided into a scratching shed of nine feet and a laying and roosting room of the same length. The house is made of the best material, double boarded with paper between and ceiled overhead at the height of six feet. In each pen is a large window, a small ventilating window into the hallway and a ventilating hole cut through the ceiling, which draws off the foul air but forms no draught.

The scratching sheds are open in front, with a canvas which can be let down to keep the snow out. The yards are one



hundred and fifty feet long, with a row of fruit trees in each, and are plowed and sowed each year. At present there are three of these long houses on the plant and more will be added as they are needed.

#### t The Colony-Community Plan.

The third method of keeping hens in large numbers is, so far as I know, original with me, and may be called the colony-community plan. The plan in brief is this: To keep the hens in small detached houses built in streets and situated close to one another, with yards running to the rear instead of to the front.

It has always seemed to me a great mistake to run the yards to the front of a hen house instead of to the rear. There are innumerable occasions where the poultryman wishes to visit a pen in the middle of a long house, and in order to do so he must open and shut half a dozen doors or pass along an alley-way for

good building paper. The posts of the house are two by three, the plates two by three, the rafters two by three.

I use good hemlock boards, and cover the house with Neponset red roofing paper, carefully put on. For the roof I use Paroid, as the slope is so gradual that sometimes during a heavy storm the rain will beat under the shingles. After the houses are built all the outside woodwork receives a heavy coat of dark green paint, which forms an effective contrast with the red Neponset paper. The houses are so neat and pretty that all who drive by admire them.

The interior of the house is of the very simplest. The roosts are at one end, instead of at the rear, as is generally the case. A droppings platform three feet wide and two and one-half feet from the floor is built, and above this are the roosts—two pieces of joist or scantling, seven feet long and two by three inches wide. The nests are under the droppings-board, and are cracker

These houses are extremely convenient. Perhaps I can make their convenience manifest by a description of a morning's work. About six o'clock in summer and as soon as it is light in winter I start out to feed my birds. For feed boxes I use little pine boxes that I buy from dealers in poultry supplies by the dozen—just such boxes as I use in shipping eggs for hatching to customers.

These boxes are filled with mash at the house and piled on a wheelbarrow. At each little house I leave one of these boxes, and as the houses are only twelve feet apart it does not take long to go the rounds. When I put in a feed box I take out and place on the wheelbarrow the drinking vessel that was in the corresponding pen. These vessels are taken to the house and scalded out. I then take a boiler of cool water on my wheelbarrow and the drinking vessels, going the rounds of the houses again. When I come to a house on this trip I put in



The "community" style of poultry house. The view shows a house 180 ft. long by 12 wide, divided into ten houses of 18 ft. each, sub-divided into scratching shed and laying and roosting room.

fifty or one hundred feet. When he wishes to remove the litter or shovel sand into the middle pens it is necessary to open and shut a number of gates before he can do so. But with the yards in the rear the poultryman can drive along the front of his house and reach the middle pen as easily as he can those at the ends.

The houses that I use in the colony-community plan are all alike, and are very simple in construction. Each house is twelve feet long, seven feet deep, seven feet high in front and five feet in the rear. There is a window in the front near the door, and another window at the east end. The houses face the south.

Each house rests on old railroad ties. I buy these ties for five cents apiece, and lay four of them on the ground where I am to build, taking care to get them level. The two main sills are then laid at right angles to the ties. These are two by four spruce, twelve feet long. The end sills are then nailed on above them, and also two cross sills. A double floor is then laid. Between the floors I put old newspapers, or, better, some

boxes one-third full of planer shavings.

A dust box is set in front of the south window, and the drinking fountain is on a small shelf near the door. Against the wall hangs a box for charcoal, grit and oyster shells so arranged that the contents of each compartment works down into a little trough as fast as it is needed. There is a small panel in the rear of each house, which can be raised or lowered at will, by means of which the fowls are let out into the yard.

Each house is intended to accommodate twelve females and a male, but if I did not sell eggs for hatching I should not hesitate to put twenty or twenty-five females in a house. The houses are so small that they are warm and comfortable in winter, while in summer I take out the windows, making them delightfully cool. Indeed, since I have built these houses I have noted quite an increase in summer eggs. I ought to add that wire netting is nailed against the window frame on the outside, keeping the birds in after the windows are taken out and protecting them against nocturnal marauders.

the clean drinking vessel (after filling it with cool water) and take out the feed box and put it on the wheelbarrow.

It takes but a little while to feed and water the hens, as it is not necessary to enter a single house—only to open the door—and as the floor of each house is about a foot above the ground, not much stooping is required.

These houses have other advantages, which may be briefly enumerated. They are inexpensive. The entire cost of such a house as I have described here in New Hampshire is about \$15. This is exclusive of labor. Two men working together can build one of these houses in two days, put on the paper and roofing, put on the trimmings, paint it—in short, do all the work. As the houses are twelve feet apart it does not require such a length of poultry fencing for the yards, as it would if they were connected with a continuous house. A yard twenty-four feet wide and fifty feet long contains as many square feet as a yard twelve feet wide and 100 feet long; but to fence the first yard takes but one hundred and

(Continued on Page 229.)



## SQUAB RAISING; HOW TO BEGIN AND TO PROCEED.

[From Farmer's Bulletin No. 117, issued by the U. S. Department of Agriculture.]

[The article herewith presented was prepared by Wm. E. Rice, of New Jersey; a practical poultry breeder who has been especially successful with pigeons. His experience and method of presenting the subject are explained in the following statement from a letter accompanying the manuscript.]

### PART I.

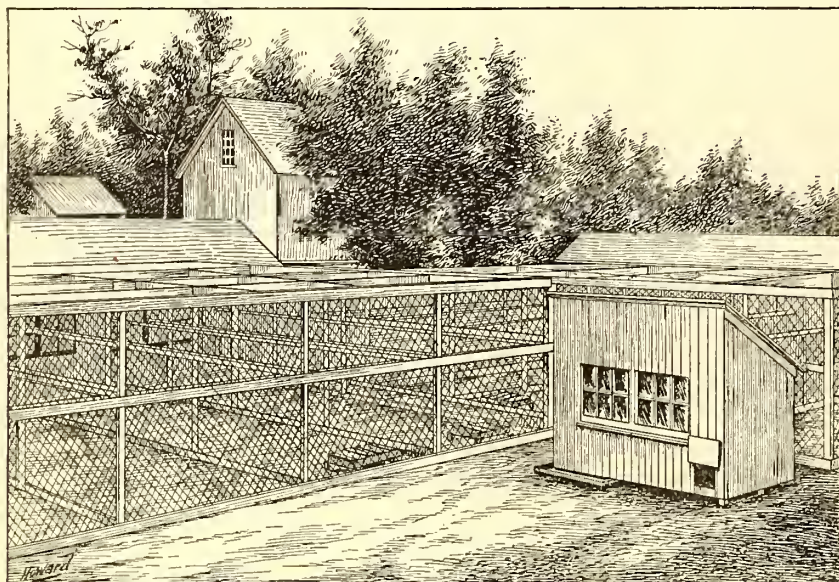
**F**OR the past twenty-five years I have been interested in breeding poultry, but during the last ten years my attention has been directed to keeping pigeons on squab growing.

There is money in this industry if intelligently managed, but the breeder must know how to begin, and how to proceed after a beginning has been made. I have studied the question in all its phases in my own pens, have read every book I could find, and have fought my way up through all the drawbacks and difficulties of the business.

At one time for financial reasons I disposed of my flock and buildings. About

#### Buildings and the Site.

In selecting a site for the home of pigeons, as much care and judgment should be exercised as in choosing the location of one's own home. An unhealthy location for man would most likely prove unhealthy for the birds. A damp place or one exposed to extremes of heat, cold, or wind, is to be rejected. The spot selected should be well drained, should be facing the south or east, should be free from obstructions which shut out the rays of the morning sun and be sheltered either by trees or buildings from the north and west winds. Such a place, with a shallow stream of pure running water for drinking and bathing



From Bulletin No. 117, U. S. Dept. of Agriculture.

FIG. 1.—General View of Pigeon House, Fly and other buildings.

five years ago I started again with a single pair of birds, buying a few from time to time until a small but well-selected flock was obtained. This flock has paid all expenses of every kind, the bills for erecting two new houses at a cost of \$250 each, and the wages of a man two days in each week to dress squabs and clean out the houses and to-day I have a fine flock of 600 pairs of as good birds as it is possible to secure, everything paid for and the birds in good, healthy condition, and yielding a fair weekly income.

I shall treat the question of squab raising from a practical standpoint only, drawing largely from personal experience. I have found some very rough places along the road to success, and I have tried to so describe my experience that others, who are facing the same difficulties, may be helped, and those who desire to enter the business have a safe guide.

—so essential to the health of pigeons—will be an ideal site and will require a minimum of expense and daily work in caring for the stock. Of course such sites can only be obtained in the country.

#### The House.

**Size and Capacity.**—The house is as important as the site. Some successful breeders prefer single houses holding not more than fifty pairs of birds; but five of these single houses will cost considerably more to build than one house of five sections accommodating fifty pairs in each section, and giving the same capacity as the five single houses. Again, feeding and other daily attentions to the flock require less time and labor in one large house than in five separate smaller houses. In stormy weather and in time of snow banks, this increased labor for separate houses is quite an item.

In no case should a house be built for more than two hundred and fifty pairs,

nor more than fifty pairs be kept in each section. It must be so designed as to be well ventilated and easily kept clean, secure from attacks of mice, rats, and other animals, and not subject to drafts of air.

The houses last built by the writer (Fig. 1), the form of which is recommended, are forty feet long and twelve feet wide, with six posts on each side, and nine feet high to peak of roof. Along the north side a passageway (Fig. 2) three feet wide runs the full length, the rest of the space being divided by four partitions into five equal pens. These pens are separated from the passageway by wire netting, reaching from the floor to the roof, with a door into each pen. If the pigeon raiser has but one house he should either use one of these compartments as a room for storing feed and other supplies, picking squabs, etc., or add ten feet to the length of the building for such purposes.

**Light and Ventilation.**—These are provided for as follows: Each gable near the peak has a four-light window. The south side has a window with two six-light sashes in each section, and the north side two six-light windows. All the windows slide so they can be opened to any extent desired, and they are all covered with wire netting on the outside to prevent the escape of the birds.

Ventilation is secured by closing the doors or windows against which the wind may be blowing and opening those in the opposite side to the extent which may be necessary.

Each partition contains an opening (covered with netting) of the same size as the gable windows and in line with them, thus permitting a circulation of air through the entire building when necessary. A projecting ventilator should be built in the roof just over the center of the building, and should be furnished with slides operated with cords, as a means of additional ventilation.

**Materials and Construction.**—Three rows of brick piers eighteen inches high serve as a foundation for the building, and on these rest the joists which are four by four inches in size and placed three feet apart. Matched flooring should be well nailed to the joists, matched pine lumber should be used for the walls, the building should be covered with a good shingle roof and the whole structure should be well painted with two coats of good paint. In such a climate as that of southern New Jersey it is not necessary to plaster the inside walls or sheathe with building paper, but in a colder climate it would undoubtedly be well to give such protection.

The partitions between the sections are made of inch boards running to the roof. All inside doors are of wire netting and are hung with spring hinges so as to be self-closing to prevent the possible escape of the birds. Each pen has one of these doors and likewise each end of the building and both inside and outside doors should be kept securely locked.

**Nest Boxes.**—Nesting places (Figs. 2 and 3) can be made as follows: Inch boards twelve inches wide, with parallel cross cleats (from strips one inch square) nailed on nine inches apart are set upright twelve inches apart (in the clear), with edges against the partition and securely nailed at top and bottom. These



boards extend from floor to roof, and when in position boards twelve inches square of inch stuff are cut and placed on the cleats to form the floors of the nest boxes thus making little homes for the pigeons nine inches high with a floor twelve inches square. The sliding floor of each box furnishes an easy method of removal for cleaning. Each pen contains two sets of nest boxes, one against each partition containing sixty boxes, or one hundred and twenty in all, supplying each pair of birds with two nesting places, with twenty to spare. The bot-

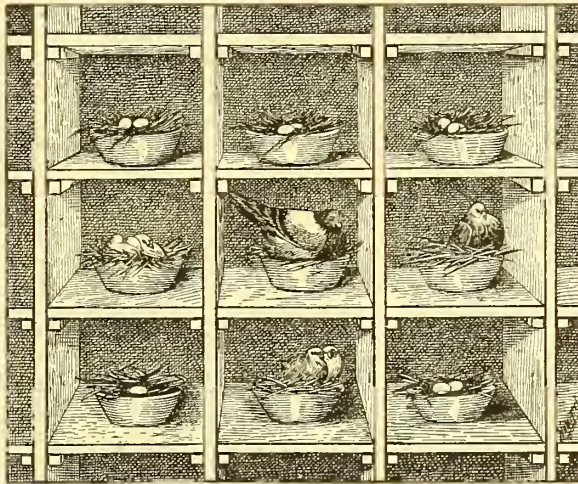
tom must next be given to providing for the proper exercise of the birds in the open air and sunlight. This is secured by erecting a wire-netting cage or fly (Figs. 1, 4, 5 and 6) communicating with the house by means of small openings. The ground should be made level if not naturally so, and for a house of the size indicated it should extend out thirty-two feet from the side of the house. The frame of the fly is made of hemlock posts two by three inches in size, and eight feet high above the ground. These posts should be set in three rows parallel with

feet high. The posts are so placed as to divide the fly into sections corresponding to the pens of the house, thus giving each lot of fifty pairs a separate pen and a communicating fly. An assistant is required to stretch the netting while it is being nailed on. It is a good plan to fasten one end and the top edge first, then the assistant with a stout forked stick can stretch the netting smoothly while the lower edge is being securely fastened. Doors opening into each section are provided. These are placed one foot from the side of the house all in line, covered with netting and put up with spring hinges. The latter are very important for they secure promptly self-closing doors, thus effectually preventing the escape of any valuable "homers" which may have been brought from a distance and which, if permitted to gain the free air, will immediately fly to their former homes. Brackets are nailed to all the posts four feet from the ground and boards four inches wide are nailed to them to furnish the pigeons a place to alight and walk when not in flight. These boards are placed at the ends of the sections as well as along the sides. No cross boards or roosting poles are permitted to obstruct the clear passage, for if they were used, birds might injure themselves when exercising or in trying to escape from the keeper in his necessary attempts to catch certain birds.

The birds are allowed to pass from the house to the fly through an opening in each section three inches wide and four inches high, rounded at the top, with a lighting board six inches wide on either side. Slides are arranged to close these openings when it is desired temporarily to confine the birds in either fly or house for the purpose of catching any one, or in severe weather.

The cost of the house twelve by forty feet in size, well painted outside and whitewashed thoroughly on the inside, with materials at present prices, is \$250. It is safe to estimate the cost of houses at one dollar per pair of birds, not counting the earthen dishes used for nests.

For beginners who desire to start with twenty-five pairs or less, temporary structures can be improvised or existing buildings utilized until sufficient ex-



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 3—Nest Boxes and Nest Pans.

tom of the lowest box is fifteen inches from the floor. Nests should not be placed directly on the floor if possible to avoid it. Some pairs will persistently build on the floor, in which case it may be best to humor them and make no attempt to compel them to nest elsewhere.

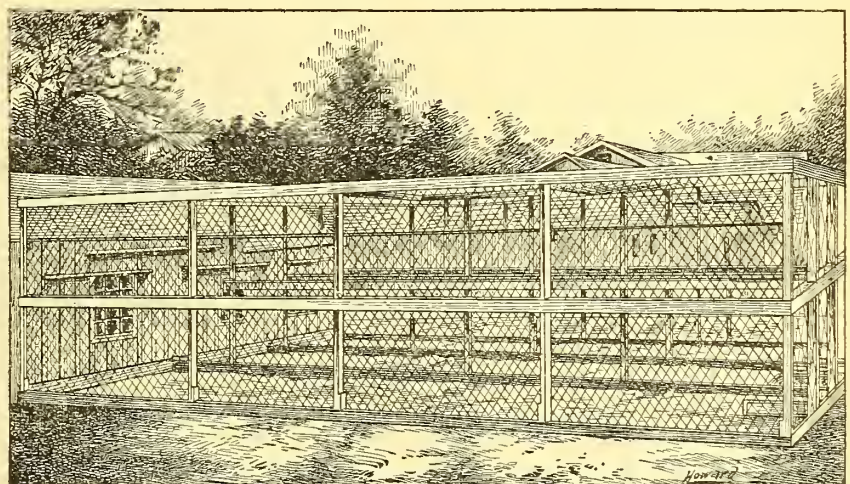
No provision should be made for perches within the house, the writer's experience being that no advantage results therefrom. It is a good practice to visit each house every night before retiring, to see that everything is in proper shape. The birds will almost invariably be found each in a separate box, the same bird in the same box night after night. They are thus secluded and do not soil each other by their droppings nor foul the floors as they would if they occupied individual perches outside the boxes.

A long running board within the pen is a disadvantage, for on it a cock inclined to play the boss can chase away other birds and keep the whole flock in an uproar. On the other hand, with each bird settled away in a separate nesting place, little opportunity is given for fighting; and if it be attempted, the bird within the box has a great advantage over the one outside and can soon compel a retreat. The use of small earthenware nesting pans (Fig. 3) is advised. Some pairs may refuse to use them, and persist in building on the floor of the nest box. As a safeguard against lice, the base of the nest should be made of tobacco stems. Straw should be supplied for the use of the birds in completing the nests.

**The Fly.**

The house being finished, consideration

the side of the building, six posts in each row (Fig. 4). The outer row supports the end of the fly thirty-two feet from the building. Then another row is set half way in toward the house, and the third along the side of the house. Hemlock boards an inch thick and four inches wide are nailed to the top and bottom around the sides and an additional four-inch board is nailed between at such a height that a netting four feet wide will reach from it to the strip at the bottom and a three-foot netting from it to the strip at the top thus making, when the netting is properly nailed on, a wall eight



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 4—The House and the Fly.



perience has been gained to enable them to branch out.

#### Varieties of Pigeons.

The best variety of pigeons to keep for squab raising is the "straight" Homer. These magnificent birds are large and healthy; are good workers, always active and hunting about like the Leghorn fowls; are the best of feeders; are of quiet disposition when properly mated; and their eggs are seldom infertile. For these reasons I consider the straight Homers par excellence among all the pigeon kind for squab farming.

The Dragoon is much esteemed by some, but I have yet to find an intelligent breed-

It is very highly spoken of by some breeders because the squabs are so large, but the number of squabs is small. It takes an extra good pair of Runts to yield four pairs of squabs a year. While crossing with Homer blood will increase the number of squabs, the tendency of the squabs of such mixed blood to be dark in flesh is so serious a disadvantage that I cannot recommend them, for the novice will soon learn that dark-fleshed squabs are cut in price when he takes them to market. I find that even one-quarter of Runt blood is often sufficient to make dark squabs. Other objections to this variety are that both parents and

along and made me an offer, I sold him the whole lot; but the birds never gave him any substantial results. I mention this because it is a common experience with those who start with poorly selected birds.

When I next "contracted the fever" I purchased a few pairs of straight Homers and in due time forty pairs of as pretty birds as one usually finds graced my pigeon quarters. In two years these birds averaged me seven and one-half pairs of squabs per pair per year, while some pairs gave me ten pairs and a few yielded as high as twelve pairs. But I think that any claim of a flock averaging twelve pairs of squabs per pair annually is extravagant. Advertisements of straight Homers often attract prospective purchasers who, when they have bought, are very much disappointed. Straight Homers are hard to procure at a low figure. Sometimes, though straight enough, they are worn-out birds, which will merely prove a bill of expense.

#### Breeding and Mating Up.

In the selection of breeding stock the beginner should consult some one having experience and critical knowledge and, if possible, secure his active assistance. A very important detail in squab raising is the proper mating of the flock. Unless the birds are known to be mated they should not be placed in the breeding quarters. Hence, a mating house fitted with nest boxes is necessary even when but few birds are kept, and in this house they should be placed until they begin to carry material and build nests; then, and not until then, they may be transferred to the permanent breeding house.

When but few birds are to be mated a box with a wire netting front and a partition can be used, or any small room can be improvised.

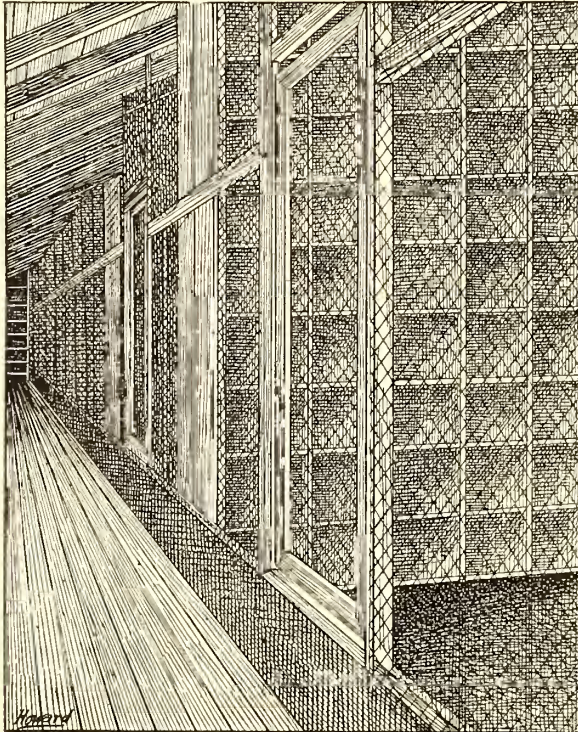
#### Keeping a Record.

Before the birds are placed in the breeding house each bird should be banded. Open numbered bands can be purchased of dealers at about one cent apiece in quantities of one hundred. Squabs intended for breeding must be banded in the nest before able to fly, as by so doing nest mates can surely be distinguished. If closed bands are used, they can only be put on when squabs are quite small.

It is advisable to keep a record book and enter the number of each bird, noting the sex, color, and any other distinguishing mark, so that the record will accurately describe the bird. Then should any bird die the record will show its sex and another mate can be substituted, or the remaining bird can be taken out and placed in the mating coop until again mated.

If a beginner is in possession of a flock of fifty pairs of selected birds, well mated, this record will make easy the matter of increasing his flock intelligently. Young birds, from the best breeders only, should be selected and banded as directed. At the age of six weeks these youngsters should be taken out and placed in a separate coop, and in this coop none but young stock should be kept. All young birds, before being put thus in the separate pen, should have all tail quills plucked out, because there is less mortality among birds so treated while attaining their growth.

(Continued in October.)



From Bulletin No. 117, U. S. Dept. of Agriculture.

FIG. 2—Interior View of Pigeon House.

er who accords the first place to any variety except the Homer. When the latter are not procurable in sufficient numbers or the price seems to be too high, a cross between a Homer and a Dragoon usually gives excellent results. The Dragoon is a large bird, a good worker and feeder, as quiet in disposition as the Homer, and when crossed as directed, the squabs are of good size. The crossing of these varieties can be accomplished with equal success either by mating a Homer cock and a Dragoon hen, or a Dragoon cock and a Homer hen. Straight Dragoon squabs are usually five weeks in growing to sufficient size for market, while straight Homer squabs are ready in four weeks and sometimes a trifle less.

By some this variety is preferred: The writer is not enthusiastic in regard to these birds because a full blood of this variety is not nearly so good a feeder as the Homer. A cross of Homer and Duchesse blood will yield a good squab, but not equal to the straight Homer, and the presence of feathers on the legs, a characteristic of the Duchesse, is a disadvantage when dressing them.

The Runt is the giant among pigeons.

squabs consume more food than Homers and they are less active and slower in driving.

#### Lessons From Observations and Experience.

In traveling about the country and visiting many squab farms I seldom find a flock of straight Homers, but frequently see all kinds mixed together, with no apparent system or purpose on the part of the breeder, the evident desire being to raise, if possible, a few squabs. I have made the proper kinds of birds for squab growing my study for the last five years, visiting many different places during this period. My experience, not only from my own pens, but from this extended observation, teaches me that for profitable squab growing there is nothing equal to the straight Homer.

About ten years ago a gentleman advertised for sale a lot of pigeons. I visited him and found about two hundred pairs in an old corn crib. I picked out of the entire lot fifteen pairs, thinking that I had good stock for the squab business. I kept them for several weeks, but the results were so meagre that I became disgusted, and, when a customer came



## TO EXTERMINATE THE CHICKEN MITE.

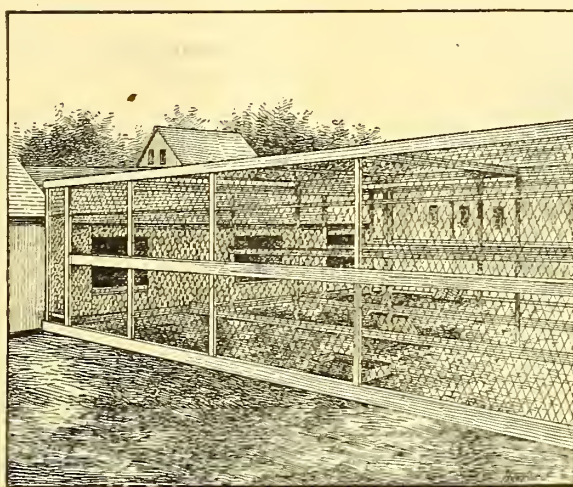
### The Most Expensive Enemy the Keeper of Poultry Has Is the Destructive Chicken Mite—Its Appearance and Habits— How to Kill the Insect, Mites and Eggs.

[The following is taken from a bulletin issued in August by the experiment station of the Iowa State College, Ames, Iowa. The losses from mites this summer have been unusually heavy and we cannot serve our readers better than to reproduce the article. Read it carefully and apply the remedy and treatment given.—Editor.]

**O**NE of the most formidable enemies of chickens is the chicken mite, scientifically called *Dermanyssus gallinae* Redi. My observations have demonstrated that chickens infested with mites are exceedingly unprofitable. The cost of keeping them is increased and the income from them is very much reduced.

born chicks from this cause to reach ninety per cent.

Chickens, both old and young, will become reduced in flesh and lose the energy for hunting and scratching which is so necessary to their welfare. The feathers will become roughened and drop out, the head will become pale and the chicken in every way present an unthrifty and un-



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 5—The House and the Fly.

Indeed, when very badly infested they are totally incapacitated for performing work.

The hens will cease laying. The ovaries undergo atrophy and on autopsy will be found shrunken and in a condition unsuitable for work. In several flocks on which I made observation I found that egg production was greatly reduced or altogether prevented during the spring and summer when, under normal conditions it would have been at its height.

Hatching hens will often either die on the nest as a result of the mite infestation or will leave their eggs, literally driven away by the vast hordes of mites which accumulate upon them. In case of three hens which thus died upon the nest in one flock of sixteen hens I could find no tissue change on post mortem examination which would account for death. There was, however, an anemia, or impoverished condition of the blood, such as would be produced by the sucking of the blood by mites.

Another very important feature of the evil effects of mites is the injury they do to newborn chicks. If the hen survives the ordeal to which she is subjected while hatching, the young chicks are attacked by the mites in great swarms as soon as they leave the protection of the shell, and, as a rule, the majority of them will succumb. I have known the loss of new-

healthy appearance. Broilers which are being prepared for market will not thrive well and will turn out in the end to be unprofitable, in fact a loss to the owner. In addition to the sucking of blood the mites further reduce the vitality of the

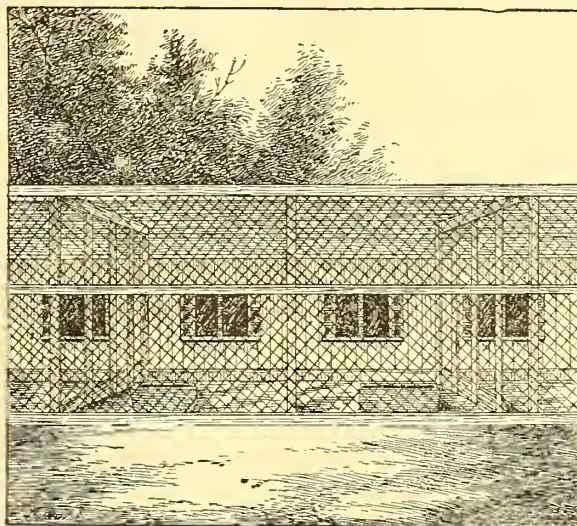
fowls by biting them and disturbing their rest at night. They require more food and are at the same time incapable of converting it into tissue and energy as would be done by a healthy fowl.

#### Description of the Mite.

The chicken mite is commonly considered a form of insect life, although it is not, properly speaking, an insect. It is sometimes called the chicken tick or poultry tick. It would probably be better to apply the term tick to this parasite and reserve the word mite for the true itch mite of chickens, the *Sarcoptes mutans* Robin and Lanquetin. The mite has an average length of one-twenty-fifth of an inch and its width is about four-fifths of its length. It has eight legs by means of which it can move very rapidly from place to place. In color it is light gray with small dark spots showing through the skin. About one in fifty or one hundred shows a distinctly red color, varying from a light to a dark red. This red color is due to engorgement with blood. The common white louse of the hen, *Menopon pallidum* Nitsch, is longer than the mite and of a yellowish-white color.

The mites are of peculiar and stealthy habits of life, rather unlike that which one naturally expects from a parasite. Indeed they are only semi-parasitic, and, as a rule, remain upon the fowl only long enough to secure a meal. They are very active in their movements and seem to be ever on the lookout for a victim. On account of their vigorous and vicious habits they may be styled the wolves of the insect parasites of fowls. The mites hide in crevices and under objects in the hen house during the daytime while the chickens are outside and lie in wait for their return. They lay their eggs and the young are hatched in these hiding places. A barrel affords an excellent hiding and breeding place as the mites lodge between the staves and under the hoops.

In the nests they are to be found under the straw or other nesting material. It is a noteworthy fact that a place which shows only a few mites on the surface may contain vast numbers in the crevices or under objects. Often they become so plentiful that they overflow the hiding places and appear in hordes upon the exposed surfaces. I have observed them



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 6—The House and the Fly.



so thickly settled as to cover the upper edge of an inch board and down the sides for a distance of two inches throughout four feet of its length and at the same time in almost as great numbers in neighboring places. On one occasion when the upper border of the nest box was covered by mites as above described a hen went upon the nest to lay. Within ten minutes I noticed that at least three-fourths of the mites had left their position on the box. On lifting off the hen and examining her I found her to be swarming with mites.

#### Introduction of Mites Into a Flock.

In one case I was able to determine with certainty that the mites were introduced into a flock by a rooster that had been bought in a neighboring flock which

vinces me that it is impracticable to exterminate mites by means of the flame. The only way in which fire could be made effective would be to burn the entire building.

I next resorted to the use of kerosene emulsion and found it very effective. The emulsion is made as follows: Take one-half pound of hard soap and shave it into a gallon of soft water and put it on the fire and bring it to a boil. By this time the soap will have dissolved. Then remove the soap solution from the fire and stir into it at once, while hot, two gallons of kerosene. This makes a thick creamy emulsion which is made ready for use by diluting with ten volumes of soft water and stirring well. It can be utilized as a spray, dip or wash.

It is necessary to use soft water, for

contact, but many mites will be left in the hiding places unaffected by the spray. Hence the spraying should be repeated as soon as the first spraying is completed. Even this will not kill all of the mites, hence a third spraying should be done as soon as the second is completed. At each repetition the beginning should be made at the same place and the same order followed as in the first. These three sprayings done in one day and in rapid succession will destroy nearly all of the mites, but, as my researches have shown, many eggs are left in places untouched by the spray. If mites are seen crawling about the building the next day, it should be sprayed again.

One might ordinarily suppose that he had now exterminated the mites. But such is not the case, for, in about three days, a crop of young mites will be found hatched from the eggs which escaped the first spraying. If these would be allowed to go undisturbed, it would not be long until the building would be as badly infested as at the beginning. Therefore the spraying should be repeated once every three or four days spraying two or three times on each occasion, for about two weeks. The spray should be applied to every part of the building that is likely to contain the mites. In a two-story building they will crawl up the post and find lodgment upon the second floor even if chickens do not go there. In one case I found a colony of mites on the outside of a small door in the second story of stable in which chickens are kept and which was badly infested with mites. If such a lodging place is overlooked, the mites will not be exterminated. The procedure just described will with very little doubt be effective in ridding a place of mites, but I would advise that a constant watch be kept and the spraying repeated when mites are seen at any subsequent time.

It is not necessary nor advisable to exclude the chickens from their regular coop while the process of extermination is going on except while the spraying is in progress. If the chickens are deprived of their regular quarters, they will be compelled to select temporary quarters which will soon be as badly infested with mites as the old through multiplication of the mites which are carried upon the bodies of the fowls. If the chickens are not required to make a new roosting place, the mites which are carried out by them will either drop off upon the ground and perish or will crawl off into the crevices about the roost and be killed by subsequent sprayings.

Extermination of the mites may be hastened by dusting the fowls with pyrethrum powder after they have gone to roost on the evening before the first spraying. The powder will drive the mites from the birds and, as a result, but very few will be carried out the next day upon their bodies. The powder is applied by means of a powder blower. In practice I have not found it necessary to use the powder, for, as already explained, the mites which were carried out upon the first morning were finally exterminated in other ways. However, if it is convenient to use the powder, the destruction of the mites will be facilitated.

In one case a sack of corn which had been sitting in a hen house and was swarming with mites was removed to a distant building which was not occupied



A five-months-old Scotch Collie, bred and owned by Charles McClave, New London, Ohio, (Linwood Poultry Yards). As a practical dog for poultryman, fancier, farmer, city or country, the Collie stands at the head. Mr. McClave has bred Collies quite extensively for several years and usually has from 15 to 25 head of puppies at all times. He has shipped them to all parts of the country, from Maine to California, and from Texas to Minnesota, giving universal satisfaction.

proved on examination to be badly infected with mites. There is no doubt that mites may be carried from one premises to another upon all sorts of intermediate bearers.

To provide against infection of a flock in this manner any new fowls which are brought in from infected premises should be quarantined and treated by dusting with pyrethrum powder until all the mites have been destroyed.

#### Extermination of Chicken Mites.

In one case I tried to exterminate the mites in a hen house by means of fire applied with a torch, but the attempt was unsuccessful. The flame was applied to the mites that were visible and they were destroyed. But the process was slow and care had to be taken so as not to set fire to the building. As soon as the interior had all been gone over once it was found that the mites covered it as thickly as before, they having crawled out from their hiding places. It was necessary to go over it several times before the number appeared to appreciably diminish and in a few days they were as plentiful as ever. The application of the flame to all parts is a very slow process and is attended with some danger. It cannot be directed into the crevices so as to destroy the eggs or the mites which are in hiding. My experience con-

hard water decomposes the soap and destroys its emulsifying power. In my experiments I used white laundry soap, but any good hard soap will do. For the sake of brevity I refrain from recounting my various experiments, but will detail in a general way a method of applying the emulsion based upon my experimentation which will be found effective by those who will thoroughly try it.

Make up as much of the stock emulsion as it is thought will be needed. This can be kept in a suitable vessel and a portion taken out and diluted as needed. If the bucket or holder attached to the spray pump holds five gallons, one-half gallon of the stock emulsion should be taken and put into the bucket or holder and four and one-half gallons of soft water added and the whole well stirred. It is then ready to be sprayed on the places occupied by the mites. A beginning should be made at a particular place and the whole habitation of the mites sprayed in a regular order of which account should be taken so that the same order may be followed in subsequent sprayings. The spray should be directed with special care into all crevices, holes, joints, or other hiding and breeding places of the mites.

The first spray of kerosene emulsion will kill within five minutes all of the mites and eggs with which it comes in



by fowls of any kind. No attempt was made to destroy the mites, yet in two weeks they had all disappeared. Their death was doubtless due to the fact that they had no host upon which to feed. This observation leads to the supposition that if the fowls were kept away from a building infested with mites, the mites would entirely disappear within a few weeks. In practice, however, it would be inadvisable to attempt to get rid of the mites in a certain coop by keeping the fowls out of it and thus starving the mites, for, while the mites would thus be destroyed in the regular hen house, the temporary roosting place would likely soon be as badly infested as the old.

The cost of the remedy is very small. The cost of making thirty gallons of the emulsion is as follows:

|                                    |     |
|------------------------------------|-----|
| Two gallons kerosene at 18c.....   | 36c |
| One-half pound hard soap at 8c.... | 4c  |
| Labor .....                        | 5c  |
| Total .....                        | 45c |

This will be enough to spray the ordinary farm hen house once.

**Spray Pump.**

In order to insure good results it is very important to have a spray pump which is durable and which acts easily and effectively. Such a pump should be obtained as may be turned to any one of the farm uses to which a spray pump is adapted. While a very cheap pump may be made to serve in an imperfect manner, it will be found in the long run to be poor economy to try to save money by buying a cheap, poorly made pump. By investing seven to ten dollars a desirable article may be obtained. While a copper holder costs more it lasts so much longer than tin as to fully repay its cost. The Bordeaux nozzle should be used. With it one can get a spray of any degree of fineness and the nozzle can be instantly adjusted so as to emit a forcible jet in order to throw the spraying fluid into fissures and holes. There are many good, reliable makes of spray pumps and different kinds may be seen in almost any implement store.

**Destruction of Mite Eggs by Spraying.**

On July 11 a sugar barrel which was used as a nesting place by the hens and which was swarming with mites was sprayed with kerosene emulsion. Afterwards a hoop was removed and was found to be covered on the inside with a large number of mite eggs. These eggs had been thoroughly moistened by the spray, and the mites upon the hoop had been killed. A piece of the hoop was cut out and placed under a glass dish. The air was kept moist by placing under the glass dish a smaller dish containing water. Other pieces of the hoop were left lying in an outbuilding so that they might be under conditions as nearly natural as possible. Observations were kept up until July 20th, but the eggs failed to hatch and were at the end of this time shrunken and evidently in such a condition that subsequent hatching was impossible.

**Summary.**

The chicken mite is one of the worst enemies of chickens.

The mites live and breed in fissures about buildings and feed upon the fowls when they go upon the nest or perch.

Mites may be introduced into a flock by

a fowl or other bearer brought from infested premises.

Mites may be exterminated by thoroughly spraying the building and its contents with kerosene emulsion.

Kerosene emulsion kills not only the mites, but also their eggs, when it comes into contact with them.

**ROSE COMB BROWN LEGHORNS.**

W. W. Kulp, Pottstown, Pa.

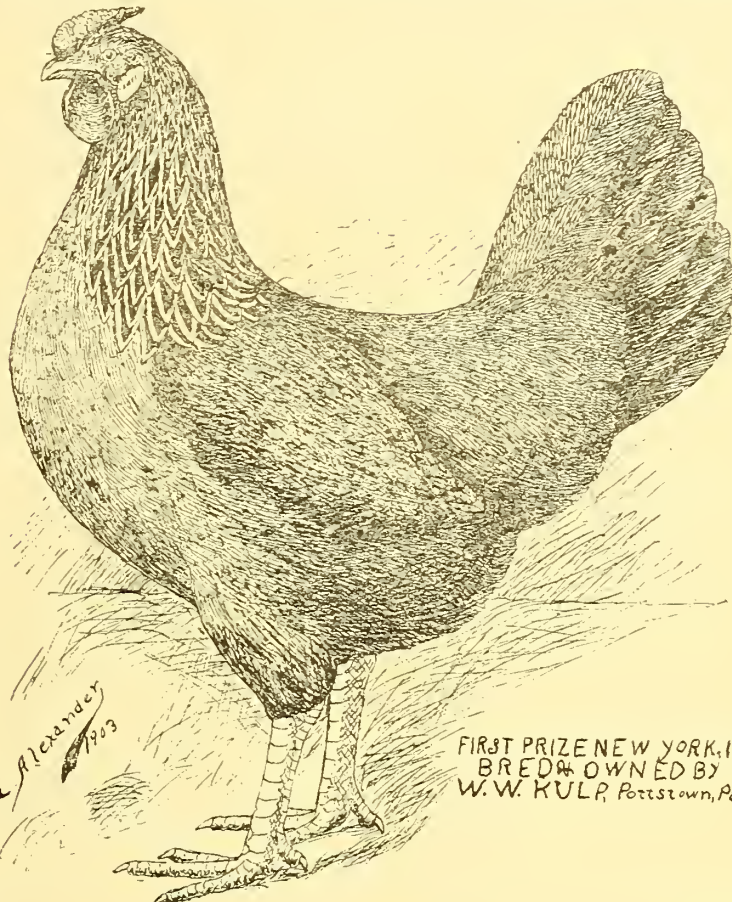
I do not intend to go into an exhaustive treatise of what is to-day's popular variety, but to give more of an outline. First, their make-up. It is a sure truth to-day that the Rose Comb Browns (and I will include

726 eggs, or an average of 242. They were not selected, but from one sitting of different yards. It is a triumph for the breed and for the man—each had a part, and each did the part well.

**As a Show Bird.**

It is steadily gaining ground year by year, yet the rivalry is not so great at many shows as we should like to see, but at the last New York show these were the largest single classes ever in the Garden, and the winners of firsts and seconds were, with two exceptions, the finest ever shown, especially the cockerel and pullets.

The American Rose Comb Brown Leghorn Club, of which I have had the honor to be the first president, has helped the breed and breeders more than is



Rose Comb Brown Leghorn pullet, winner of first at New York, 1903. Mr. Kulp, from whose yards this bird was produced, states, "she is the finest pullet ever shown in New York."

the Rose Comb Whites) are the equal if not the leaders of all Leghorns as layers, and they are well up in size also. The great laying qualities are due to two things, first their make up of different bloods, and second, careful breeding in the last twenty years. The same thing that makes the Plymouth Rock and Wyandotte great layers for their size, that is the combining of several fine breeds, entered into the Rose Comb Browns.

Breeders may say what they will, the Rose Comb Brown is a made breed. The Hamburg is one blood entering into it and I think I know where in New England, in about 1880, another infusion of new blood was made, and to it is due a lot of the fine coloring and also vigorous laying of to-day. Three pullets in twelve months (October to October) laid

known at first thought. I know of more than one member selling stock (those who have no world name) because of being a member. I would advise all to join. The cost is small—\$1 per year. It is managed for no one's gain, but for the good of all and all have a say by mail in its management.

**BEGIN WITH SMALL FLOCKS.**

It requires a year's experience to know where the mistakes are made, and if one can learn how to avoid them, one-half of the difficulty will have been overcome. The greatest mistake is in undertaking the business with too many fowls. Begin with a small flock, breed for the kinds preferred and gradually increase until the desired number is secured.



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,  
(INCORPORATED.)

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Advertising Rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, EDITOR. { Associate Editor, { DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR  
AND VOLUME.

SEPTEMBER 15, 1903.

NUMBER 6

## WHAT OF THE SHOWS?

Just this. They are well worth helping. Some time ago we came to the conclusion that the effort made by a poultryman to support his local show was well worth the time and expense. The show does much to encourage the poultryman as well as to increase the interest of the general public. Just so far as we give our efforts to furthering good exhibits of thoroughbred poultry we get returns of pleasure and profit.

A good show holds up a poultryman to do better work. Better no show than one that is not up in quality. No matter how few the birds entered if the quality is to be seen in the coops. If you would succeed in gaining the attendance of the non-poultry keeping people, let it be known that the exhibits are near perfection. To own such birds takes time and costs money. Work hard to get the owners of such birds to show them. Sending entry blanks may do little good, when a little personal work will get them for your show. It is the personal element that tells in most lines of business, and the successful show must use all the powers it possesses to get the best results.

As poultrymen, join your local show and push a good thing; as lovers of fancy birds, show your best stock and help both show and yourself; as good business men, advertise the fact that utility birds can also be good show birds.

Show dates are being published now. Get in line to have your birds in the pink of perfection for showing at your nearest poultry exhibition. N. W. S.

## BE PROMPT IN POULTRY MATTERS.

The men who are succeeding in poultry lines are those who do things at the right time. They plan in advance their "moves" and seldom are caught napping. It is because of good judgment carried into action that they find profit in poultry keeping. Being ready to do the right thing at the right moment is the secret of more than one prominent "hen man's" success. The man who is

never prepared to do the best thing, even though he knows what is required, fails, just as surely as he who does not know the right step to take. To know what to do and not do it gives no better results than the "methods" of an ignorant man.

Be prompt in getting rid of surplus cockerels; do not delay in remedying the crowded condition of the roosting coops; get the pullets into their winter laying quarters early; supply green food to the birds as they need it from day to day. These, and many other instances are not unknown to men engaged in caring for hens. What we wish to emphasize is that old saying: "A stitch in time saves nine." In no line of business is this more true than in that of poultry. Let us make the coming twelve months more profitable because we do the right thing at the right time. N. W. S.

## NO FEES OR STALL CHARGES AT THE WORLD'S FAIR.

The chief of the World's Fair Department of Live Stock announces that no charge will be made for entries, stalls or pens in any division of the Exposition live stock shows. This applies as thoroughly to poultry, pigeons and dogs as to horses, cattle, sheep and swine. It has been approved as a general rule of the live stock department.

It is the intention to make the exhibits of the live stock at next year's World's Fair thoroughly worthy of the Exposition management's desire to show the world the best that the first years of the twentieth century have to offer, come from where it may, and in this connection to treat exhibitors on a corresponding basis. Doing away with all entry fees and space charges is in furtherance of this idea. All prizes will be awarded by individual judges or the "one-judge system." Judging will be by comparison throughout.

The prize list and classifications contain the following:

Relating to poultry: Cash prizes for poultry make a total of \$11,786. Varieties of poultry with a few exceptions

have been divided into three groups according to statistics on total number and valuation. First prizes in these groups range from \$10 to \$6. Ostriches are allotted \$225. In addition pigeons are given \$3,984 in cash prizes.

## CUT BONE.

One pound of cut bone for a dozen hens once a day, which should not cost over a cent a pound, will produce more eggs than five times as much grain, because the cut bone is complete in egg-making substances, while the grain is largely deficient in many respects. Some persons think it does not pay to procure a bone cutter for a small flock. This is a mistake. Bone cutters are now cheaper than many ordinary garden tools, and are strong, durable and efficient. The cost of the bone cutter is soon regained in the increased number of eggs laid. It is almost indispensable to success, no matter how small the flock, for no one should keep a flock unless fully determined to secure the largest profit possible. The great saving of bones and meat and the utilization of materials that could not be appropriated as food for fowls without their use have given green bone cutters a place on all well regulated poultry farms.

The best litter in the poultry house is the refuse from the hay-loft. Hay-seeds are regarded as invigorating, but the benefit derived from them is due to the work induced by the seeds. A flock of hens will scratch and work all day in litter from the hay-loft, as the seeds are a complete change for them. Being small and covered with the leaves and dust, the hens must work to get them. The leaves from clover hay will also be greatly relished and are among the best foods that can be supplied in winter.

At any time after September the turkeys may be fed an additional ration, so as to get as much size as possible by Thanksgiving, which is not too far off to push the turkeys now. The supply of grass and insects will soon fall off and the turkeys should have a feed of fresh meat and bone at least three times a week, as well as an occasional mess of bran and linseed meal, with all the grain they can eat at night. Avoid high roosting places for them, or they will become lame by jumping to the ground.

The cheapest and safest way to begin with pure breeds is to buy a few fowls in the fall, as prices are then low, and have them on hand ready for operations in the spring, as a trio of fowls will lay three or four hundred eggs, and a year's time will be gained as compared with buying eggs in the spring. The yards of breeders are now full and they will "thin out the surplus" cheap. It will be a good investment to buy now and thus save money.

Keep a record of some single pen of birds, even though you cannot attend to trap nests. Trap nests are not all fun, and some birds persist in laying outside of them. If you are not with your birds most of the time trap nests seldom pay and are soon thrown one side. Know what the egg record is of some pen even though you never get to the individual hen.



## WATER SUPPLY FOR A DUCK PLANT.

### Story of How a Hydraulic Ram Was Made To Do This Work— Question For the Wise Heads to Answer.

Frances E. Wheeler, Chazy, N. Y.

**T**HERE is a question that Poultry Keeper readers may find interesting and that we would like their opinion on. It is one that has been asked me very many times and in as many different ways. Substantially, here it is:

"In the poultry business, which will succeed best—the married or the single woman?" Apropos of this question, some four years ago I had a man working for me, and one morning he remarked:

"I was saying to my woman last night, that you have a tidy little business started here, and if you were married, you and him could make a good living off it."

"Why can't I make a good living off it, as it is?" I asked.

"Well it costs a good deal for wages. You have to hire so much done, and your help don't look after things close as your man would. If you had them wages and that interest it would save a deal."

I thought to myself that was true, the "looking after things," maybe, in more senses than one; but ignoring that side issue, briskly responded: "Well, won't a husband need food and clothes and housing? Won't his expenses in a year be as high as what I pay you during the summer months? Then if your work doesn't suit or you don't like it here we part in good feeling; besides, I pay you your wages and you do what I tell you. I plan and manage and there is no one to thwart or upset my schemes, or to get sick, or need waiting on, or catering to."

As this long winded harangue ended, Fred looked quite subdued and crushed (I meant he should) and muttering that there was more than one side to most everthing, went off and the subject was never reopened.

It is, indeed, many sided. Discussing it, as we are, from a purely business standpoint, my experience would tend towards the conclusion that a woman works out her career first and develops her individuality fullest where hired help constitutes her only help. I am inclined to go a step further and say that success usually comes in its completest form where the individual is most untrammelled and independent. On the other hand, there are cases where a married woman has many a rough edge smoothed from her daily cares and difficulties are overcome and averted for her, burdens lightened and success rendered comparatively easy by an energetic, sensible, sympathetic and self-respecting husband.

As a rule, however, the world reckons the married woman's success because of her having a husband to help her out, and the single woman's, in spite of his absence. The latter, therefore, when she succeeds, perhaps receives more credit than she deserves. Certain it is that the experience, the advice and in some cases the active help of the masculine element is an important factor in our business progress and its influence should not be ignored, but remembered gratefully.

For example, Clovernook's mistress is indebted to a near and dear relative for the setting up and fine working of the hydraulic ram mentioned last month in the Poultry Keeper. We have always been bothered about our water supply for the ducklings, which was insufficient and laborious to procure. I got an idea into my head about two years ago that a small hydraulic ram would "do the act" at slight expense of capital and labor and without much mental strain on my part. Well, our ram is up and it pumps a continuous stream of water (one gallon ever fifty seconds) flowing in a one hundred and fifty foot long wooden V-shaped trough through the duck yards. But Clovernook's mistress never would have put it there.

As I understand the subject now, these rams are as inexpensive and as simple affairs as I supposed, where the situation is favorable for a sufficient forcing head of water. Our "Little Chazy" river, unfortunately, at the desired point did not offer the necessary head of three feet or more. It required educated, intelligent engineering ability of first class order to discriminate and adjust the ram to the spot required. It was an embarrassing position, and I felt pretty serious over making such a mistake; but the co-operation proved so energetic and kindly and we came out of the scrape with such flying colors that only gratitude and rejoicing are left in its wake.

The ram, a No. 5 Rumsey, is on the bank, and to bring it even with the surface of the river is placed in a hole about three feet deep. From this point it forces the water through a one inch delivery gas pipe up the hill one hundred and eighty feet (the rise is twenty-six feet) and empties into a seven hundred and twenty gallon tank, the overflow from which runs through another one inch gas pipe into our duck troughs.

The value of this ram can—at Clovernook—hardly be estimated. In case of fire we have at close range an almost limitless supply of water. In times of drought the vegetation, including our valuable small fruits, need never suffer. All our live stock is supplied automatically and get all the fresh running water they require. Hot and cold water can be introduced through the house, with bathing facilities. In fact, it is hard to realize now how we ever managed all those years as we did, lugging water from the well, even when helped out by the plantation of water barrels that were set under every available eaves' spout to catch the drops from each tardy shower.

To help those who may wish a water power such as ours, will say that my initial plan was to build a dam across our river which would raise the water and give it the necessary force through the drive pipe to the ram. Our first cloudburst swept it out of existence and I then learned that about \$600 would be the cost of one to stand the pressure of our spring floods (?) A little higher

up the stream my brother found a gradual rise of five feet in the river bed and he ran the driving pipe up to it.

A spring that could be walled around and the water thus raised into a pool would have answered us, or had the stream been a narrow one with high banks it could have been dammed at small expense.

The setting of our ram was attended with other bothersome difficulties incidental to our situation, but of no practical use probably to our readers and are therefore omitted. Its steady "chug," "chug" is music indeed. "Pete" listened awhile as he watched the steady stream pour into the tank. Finally he turned to my brother: "When will that fellow's arms get tired, pumping down there by the river, you s'pose; Aye?"

It seemed as if even the back of his head shown in one broad smile as he gazed along the one hundred and fifty feet of troughs at the beautiful white mass of stately birds that lined both sides of it, drinking as if they would never be satisfied. "Say what you mind to," he finally concluded: "By Gum! It's nice!"

Get the early hatched pullets into the winter quarters. It is time they settled down for the winter's work. They will mature quickly if confined to a moderate run and fed for eggs. If left out on free range they will work off much of the food that should go to induce early laying. Yard the cockerels just as soon as they begin to worry the pullets. It is better for both sexes to be apart except during the breeding season.

You can find a lot of weeds in fence corners that are going to seed. Pull them up and throw them into the hen pens. The birds will eat the seeds and leaves, and the waste will add to the scratching material of the house floor.



## LAMBERT'S

### DEATH TO LICE & REMEDIES

Powder, Ointment,  
Special and Liquid.

**DEATH TO LICE POWDER** is the universal remedy for lice on sitting hens, laying or exhibition stock. Also invaluable for lice on horses, hogs, cattle or plants. Packages 10, 15 and 40c. by mail, postpaid. Larger sizes 50c. and \$1 by express.

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Agents and dealers sell these goods in most of the large towns and cities. To these we transfer orders when we can save our customers either time or money by so doing. No matter where you are located they will sell you any of the regular sizes at catalogue prices.

**POCKET BOOK POINTERS** is an annual publication, full of interest to poultry fanciers. We mail this book free for the asking. 1903 issue tells "How Best to Do things"

D. J. LAMBERT, Box P, APPONAUG, R. I.



## BROODER COOPS AND HOUSES.

L. P. Harris, Clay Center, Neb

**H**OW often I hear people say, "I am going to get an incubator, and if I can make it hatch and have any luck with raising the chicks I will then get a brooder and build me a good brooder house and raise chickens on a large scale." This is a fair sample of how people go into the poultry business wrong end to, and then expect to make a success of it.

Any of the standard makes of incubators will hatch the eggs all right, but the next question is to raise the chicks, and thousands of people get this far and then fall down and condemn the whole poultry business. The most important factor in rearing chicks is a good brooder. With a good brooder chicks are as easily raised as with hens, and much more so, you then save lots of work in keeping them free from lice and mites. Any brooder needs to be in a brooder house or coop for best results.

It is not necessary that this coop should be an expensive one, but it must be made so as to keep out all the wind and wet. The wind will chill and the wet will kill the chicks. The little downy fellows will stand a lot of cold if they are dry and the wind does not strike them, so it is not necessary to have the house warm, for they have the brooder to go into when they are cold, and chicks that are allowed to go out into a cool room and back to their brooder to warm are much healthier than those that are kept in even temperature or in houses with artificial heat.

A house to accommodate a brooder for one hundred chicks should be six by ten feet on the ground at least. It can be made of dry goods boxes and covered with tarred paper or Red Rope roofing paper and made to look neat on the outside and very comfortable. I have made these houses of Red Rope roofing alone in this way: Take one by four cribbing lumber and make a skeleton frame and then cover with the paper roofing. This makes a very light protection for your brooder and two persons can carry it anywhere and in this way keep the place fresh and clean where the chicks are obliged to run. Clean quarters and a clean run are very essential to success. In making brooder coops be careful not to make them with too much space above the heads of the chicks. They do not fly and cannot use such space if you have it, so it is a dead expense to you. Bear in mind that all the space they want is floor space, and the more they have of

this the better it is for them and the better the results. I make all my coops both for fowls and brooders the same shape and I get better results than those that furnish abundance of space above the chicks' or fowls' heads.

I make the north side of my coop from two to three feet high, the roof seven feet long, south side seven feet, length of coop east and west as desired. In a coop twelve or sixteen feet long I use two sash, four lights, ten by twelve, and for hens I place the sash well up into the top of the front of the house, and if I use it for a brooder house I place the sash nearer the bottom of the front side. Do not put both sash together, but divide the space in front equally. Too much light is not good.

As I look from my window I see a brooder house eight by eight feet, eight feet high on the sides, besides a gable roof, so in the center it is ten feet high inside. I would ask the readers what good is all that space above the chicks? It is a fact that heat raises and the more space in your house above the chicks' heads, the colder the ground space will be where your chicks are, but if your houses are just high enough so you can get around in them without too much trouble the warmer they will be, as the brooder will produce outside heat enough to take the chill off and that is all that is necessary.

What I have written so far is for the practical poultryman who is raising from two to six hundred chicks. And still, at the same time if I were going to raise chicks on a large scale I would use the same kind of coops in shape, but longer, of course. And I would not use the heater with long water pipe systems. I have yet in my thirty years' experience in the poultry business to see one of these brooder pipe heating arrangements that was a success, but the number that I have known that have been failures are well up toward one hundred in number. The plan looks feasible, but all is not good that looks good. Last winter I visited one of those plants costing \$7,000. It was idle and doubtless will be turned to some other purpose, as it is a failure as a brooder plant. Recently I saw one on a small scale intended to rear one thousand chicks in a season. The fancier had sold it, as it was a failure, and had gone back to a first-class brooder with which he claimed he had better results than he did with his pipe heating system; and he proved it by the chicks

he showed me in the brooders. They were as fine as silk and not a dumpy chick in the lot.

It is results we are all after—not what looks well. Some may object to this article, but I have written it as my experience has taught me. There are plenty that can tell you how to build brooder houses and heating systems that look well when on paper or in picture, but "all is not good that looks good."

### THE GREAT ST. LOUIS FAIR.

For forty-three years the St. Louis Fair has continued to draw the finest kind of exhibits, none of them, however, more interesting than the Poultry, Pigeon and Pet Stock Department. This is explained from the fact that the premiums in this department are kept right up to the top notch, and will be just as liberal this year as ever before.

Mr. W. S. Russell and Mr. D. T. Heimlich will place the ribbons, and any one knowing these men will know that they place them just about right. Send for catalogue to Mr. John A. Hachmeister, secretary St. Louis Fair, St. Louis, Mo., and see what is offered. Hope to see "fancy" turn out good and strong for this occasion. Henry Steinmesch, Supt. Poultry Department.

"I have raised some seventy head of White Wyandottes from my prize matings of last spring, and to say that 'Like begets like' is stating it mildly. I will be able to furnish your readers with good breeders or exhibition birds at correspondingly low prices," writes G. Sherwin Haxton, Oakfield, N. Y.

### The Standard of Perfection.

The authorized guide to correct poultry breeding is the Standard of Perfection, issued by the American Poultry Association. Describes all standard breeds and varieties of thoroughbred chickens, turkeys, ducks and geese. Used by judges in show room and by breeders in mating up their stock. It is durably bound in cloth and consists of 225 pages. Price \$1; or in combination with a subscription to Poultry Keeper the two are furnished at the special price of \$1.25. Orders sent this office promptly filled. Address, Subscription Dept., Poultry Keeper Pub. Co., Quincy, Ill.

Buy stock now. September and October are the months when breeders must reduce their flocks before cold weather comes. Buy from those whose ads you will find in our columns for we stand back of every advertiser with a guarantee of his responsibility.

# 500 Yearling White Wyandottes, 500 Yearling White P. Rocks

Are Waiting Your Orders. We Sell Them  
Low If You Want Them Now.

Please mention Poultry Keeper.

Pollard's Poultry Farm, - Attleboro, Massachusetts.



## THE WORK AND CAPITAL REQUIRED.

### Some Theories of Poultry Keeping That Do Not Stand Up to Facts

By J. H. Sledd, Virginia.

**O**NE of the gravest errors that we find in the great mass of poultry literature is the constant advocacy of the business as one specially adapted to the man of little or no capital and who is a physical wreck. The first of these errors grows, we believe, out of the fact that the mass of poultry fanciers are conducting their business as a fad, as pastime, and the dollars are not an essential to their livelihood.

#### Expense and Income Do Not Balance.

In many instances, no doubt, no account is taken of the receipts and the expenses and if such account is taken the owner is amply repaid if the two accounts balance. It is this theory of a profitable business easily established and without capital that has caused so many to enter the business and then quit it in disgust.

Understand me that there is the largest percentage of profit in the poultry business accruing from the amount of capital invested of any of which we have any knowledge; but upon the amount of capital invested and the methods pursued depends the profits. It is so in all lines and avenues of work and why not in this industry?

#### An Unreasonable Requirement.

Is it reasonable to suppose that an investment of one or two hundred dollars—and even that is capital—will yield a net profit sufficient to maintain a man or a man and family? Would it be expected of any other business?

Just as any other business requires buildings and stock and capital for contingencies, so the poultryman to succeed must have all of these and the adaptability to this as he would to any other avocation he might elect to follow.

Our fanciers, to whom poultrydom owes a large debt of gratitude, are as a rule in no way dependent upon the income from their poultry yards and can afford to indulge in fancy, but the man who looks to his yards for his living must count the cost, for between that and his selling prices rest his profits—his living.

#### A Strictly Business Proposition.

It is not, therefore, advisable for one to surrender an assured income to enter the poultry world, looking to it as a means of livelihood, save under certain conditions, the chief of which are requisite capital, both in coin of the realm and perseverance. The first should be ample—if all other business is to be laid aside—to not only provide the necessary stock and equipments, but to maintain the stock and the family until the details of the business are mastered and a trade, either as a market poultryman or a fancier, has been established, and this can not be accomplished in a day.

In market poultry will be found the quickest returns at the least expense, for in the fancier's world "the new broom does not sweep clean." There has to be a persistent use of printer's

ink and a show record has to be made and maintained before one can look for profits.

The poultry business, as a strictly business proposition, needs and must have capital to back and maintain it just as surely as any other enterprise.

#### A Field for Profitable Investment.

It is an error to say it is specially the field for the "halt, the maimed and the blind." To conduct it successfully requires constant and unremitting care in every detail. The point of view differs largely as to what is labor and what is play, but it is certainly not play, nor is it conducive to the physical well-being of an invalid to leave his bed at peep of day and with the mercury ranging around zero shovel his way through two feet of snow to feed and water his flocks.

And yet these things sometimes have to be done. It is early and late, through all sorts of weather and under all conditions that the poultryman must go if he would succeed. While these things are true, I do not believe there is a wider or better field for the profitable investment of capital. I do not believe any legitimate enterprise will yield as large a dividend, at the same time I do not believe that it is an enterprise to be undertaken without the same forethought that would be given the embarking in any other business, the "wise-acres" to the contrary notwithstanding.

#### COAL TAR FOR LICE.

Editor Poultry Keeper.

I have been a reader of the Poultry Keeper for a long time and have had so much help from it that I would be glad to help some one else, so I will tell how I successfully dealt with little lice. When we moved to our present home nine years ago, a large poultry house was almost moving with spider lice and I was in despair, for I had great pride in my

poultry. I cleaned it of all droppings, removed the nests and everything movable, then heated a can of coal tar and took an old paint brush and painted every approach to the perches and each perch on both sides, and whitewashed the walls of the house.

The next spring I repeated it and kept the house clean and went over the perches with a paint brush dipped in coal oil once in two weeks and I have never seen a mite in the house since. The coal tar filled all cracks and is a good disinfectant as well. Bidly does not like it very well for a day or two, but it soon dries and she is all right.

May C. R. Wood.

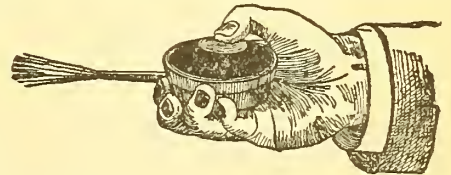
Leo, Ind.

Good grain is high this fall, nevertheless feed a good quality of food. Musty grain and cheap quality scraps are a cause of loss to many a poultry flock. If you are situated right, lay in a supply of good second crop clover hay for the confined birds. Plan to use cut clover in the mash of your winter layers just as soon as they come off their grass range.

Send the culls and surplus stock to market just as soon as you can get them into condition. They will bring as high a price per bird as they will two months later. Then you need all the room possible for the laying stock.

#### Poultry Keeper Insect Bellows.

For use in dusting insect powder of any kind of fowls old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste



any powder if you use these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

# RAYMOND

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## YOUNG STOCK NOW

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## BUFF ROCKS—FEEDING, CARE AND MANAGING.

### How to Get Vigor in Stock and Prevent Bowel Trouble and Leg Weakness.

By C. M. Chaplin, Evansville, Ind.

**T**HE Buff Plymouth ranks with the leaders as a fancy and utility fowl. Possibly in fancy point breeding the Barred Rock is harder to breed to standard requirements and keep right, but the Buff will keep a man's gray matter active if he gets results, as many a breeder can testify. They can be improved greatly from year to year by judicious line breeding, and as prolific layers of large eggs the year round, I doubt if they can be excelled, especially in winter when eggs are high.

For example, I have one standard bred pullet in my pens that will score about 95 that laid her first egg November 13, and in one hundred and twenty days' time she laid one hundred and four eggs. Can any one make this look "like thirty cents" with Leghorns or any other breed? There is no question about the record, as I have this pullet and an exceptionally good cockerel in a pen alone, and out of forty-three eggs which I set from this pullet only five proved infer, tile, and I have thirty-eight strong healthy young fowls as evidence.

#### Hardy and Vigorous—Early Maturity.

This is one of the many reasons why I like Buff Rocks. I breed Barred also, but the Buff chicks are fifty per cent harder and grow right away from the others. They mature so much quicker that you do not need to hatch them so early by two months. The pullets will lay easily when six months old.

They are splendid foragers, and if given material to scratch in will dig all day as if for wages, and remember the busy hen is the profitable one. They are quiet and orderly and are easily confined by a three-foot netting. The Buff Rock is growing in popular favor very fast and is sure to be in the front rank in a short time. Merit will place them there.

#### To Prevent Bowel Trouble and Leg Weakness.

I see so many complaints from amateurs about bowel trouble and leg weakness. First as to bowel trouble, the principal causes are three things, overheating, chilling and improper feed. This applies of course to chicks we'll hatch from good, healthy, strong stock, and given proper care. I believe all stock can be kept that way. I have not had a sick fowl for years and do not expect to.

I have not lost half a dozen chicks this year from bowel trouble, and never have a leg-weak chick any more, either with hens or brooder. I hatch and raise both by natural and artificial methods and have several hundred strong, healthy young stock in fine condition.

I never feed my chicks until they are seventy-two hours old, which is soon enough, as this gives them time to absorb the yolk, which is nature's food for the first three days of a chick's life. I feed sparingly for the first week. I never feed but three times a day. The first

feed always consists of dry wheat bread crumbs, the next millet seed, the last rolled oats, varied occasionally with Johnny cake. I feed this way the first week, with plenty of grit and good fresh water from the time they leave the incubator or nest.

I do not warm the water as some advocate, but give it fresh from the well or cistern, at a temperature of about fifty or sixty degrees. I grind my bread in my green bone mill, which is excellent for the purpose.

The second week I feed the bread, but add plenty of onions and a little blood meal, onion enough to make it moist and the blood meal will stick to the bread. I also add a generous quantity of pulverized charcoal to the bread from the beginning. I like this way of feeding charcoal better than any other, as they are sure to eat it and it is a fine regulator.

#### When to Feed Grains.

At four weeks old I gradually introduce cracked corn and wheat, and at five to six weeks I am feeding morning mash, noon wheat, night cracked corn and scalded whole oats alternately, with plenty of grass, onions or cabbage. Always feed your cereals separately. Do not mix them.

I make my mash of bran, ground oats, hulls and middlings, corn meal, oil meal, blood meal and salt to season, mixed crumbly with hot liquor from boiled vegetables, which I use for my laying hens' mash. This system of feeding I have found to be very satisfactory and it pushes the chicks on to maturity while keeping them in a good, healthy and plump condition.

#### Leg Weakness in Brooder Chicks.

As to leg weakness in brooder chicks the remedy is simple. I had lots of trouble the first two years in this way until I took a "tumble" to myself. I searched the poultry papers for a solution and found a lot of remedies, but I needed a preventive, which is always better than a cure. I made a common mistake. I would feed the chicks all they would eat three times a day from pans and then was delighted to see them go into the warm, clean brooder and lie down so comfortably.

But alas! this was my undoing, as leg weakness appeared. I studied the situation and changed my entire plan of feeding and have not had a case since. I place a nice, large, airy coop on the ground or floor in front of the brooder, with two or three inches of cut straw or clover in it, and teach the chicks to scratch by putting millet seed in the straw and feeding very sparingly. After a day or two how they will scratch! Then I feed all food in this litter except at night, when I give them the ground bread in a pan, all they will eat.

Now don't put too much feed in the litter, but make them work all day. This keeps them out of the brooder and the

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exercise does them as much good as their food.

At all times keep everything scrupulously clean. Sour food and filthy quarters kill more chicks than anything else every year. Above all study the Poultry Keeper carefully. Don't just glance at it, but study its pages thoroughly. The articles which appear in it from a staff of writers who understand the poultry business as these do are worthy of careful study and observance. I would not be without it at any price, as it is always full of good things.

**Advice to Beginners.**

My advice to the beginner is to buy eggs from some breeder in whom you have confidence, who will be honest with you and use you right, and then stick to him, buying a sitting or two of eggs from him every year. In this way you will "get next to him" and get the benefit of his experience and line breeding and will be in no danger of introducing strange blood into your flock. Foreign blood may put you back one or two years in your fancy.

I make a practice of buying a number of eggs from special pens and special hens at any reasonable price every year. In this way you can keep your flock up to standard, and the breeder with whom you do business will give you lots of valuable advice for the asking, as every honest breeder wants his customers more than pleased, and as far as the other class of breeders are concerned they ought to be drummed out of the business.

**Both Sides of the Egg Question.**

I personally know how it feels to pay \$5 for thirteen eggs and get a fine lot of chicks that you can watch grow into high scoring stock with pride. You are enthusiastic; you would not take \$5 apiece for the chicks. I can also personally sympathize with the man who pays \$5 per thirteen for eggs from the best pen from some breeder and gets (it is in the neck) a poor hatch of culls, which makes him think that all the prize winners that were advertised as sure to come from these eggs must have been those that died in the shell from grief and shame that they would have to affiliate with and be called brother and sister to such scrubs as survived!

This is the worst kind of robbery, as the man who pays his good money can not see what he is buying, but must have explicit confidence in the breeder whom he deals with, and this confidence should not be abused.

**Keep an Egg Record.**

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of ten cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

Have a place for the storage of leaves under shelter and they will be found equal to anything that can be had for the use of the hens in winter. They afford the best material in which to scratch and prevent drafts of air along the floor. Along with the leaves lay in a plentiful supply of dry dirt and the winter work will be lessened.

**POTATO "JACKETS" FOR EXERCISE.**

If a snail were to remain indefinitely in his shell he would die eventually from inertia. The feathered tribe by nature are exceedingly active. In my poultry plant I have a nursery six by twenty feet, high enough to stand in. From it I have an opening eight by eight inches, leading to the run. Now the exercise the tots get from this I regard insufficient if they are left to their own discretion. My plan for exercise is to have my wife boil potatoes with the "jackets" on. The youngsters go wild over these jackets.

For one hundred chicks I use about twenty-five pieces of the jackets, about four times as large as the tot can swallow. Do not throw this food to them unless you are a believer in foot ball, for in their rush for it some are liable to get hurt in the solar plexis and for a time will be knocked out. I place it in a saucer and quietly set it in the center of the nursery and then the circus begins, with lots of side shows and all tickets free. I have seen a half dozen tots pull at a single jacket until they were half exhausted. I have seen a good runner with a jacket hold the fort for a couple of minutes, with a dozen others in pursuit. In the course of five minutes the last jacket will be devoured, and every tot in the pen will be panting and ready for his regular breakfast.

These little circusses of mine, in which I am both audience and ring-master, are the most fascinating part of the poultry business to me. If I go to the poultry house with a long face and blue exterior, I return with a three by nine smile. Dan Rice's mules never did amuse me more. And if a poultryman will try it and not see some amusement in it I will pay for the peanuts. C. B. Wainwright.

Lemon City, Fla.

**Result of Correct Feeding.**

Through the Midland Poultry Food Co. we have received the following as showing what the use of the Midland Foods will do in the way of paying results:

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Poultry Keeper readers are urged to send for the book, "Science of Poultry Feeding," free. Address, Midland Poultry Food Co., Guinotte and Euclid Ave., Kansas City, Mo., and mention P. K.

Have your birds molted? If not, then confine them in small yards, feed all the weeds they can eat during the day, and give a very small feed of wheat at night. This light diet for ten days, followed by a diet suitable for an egg yield will cause the old feathers to fall out and a new coat to appear within six weeks. If you want these birds to lay in December be sure they get new feathers before cold weather. Hens that are going to market this fall should be pushed for eggs right up to the time of molt and then quickly sold for meat.

The National White Wyandotte Club will hold its 1904 annual meeting at St. Louis during the World's Fair. The club will make liberal provision for World's Fair special poultry prizes for that variety.

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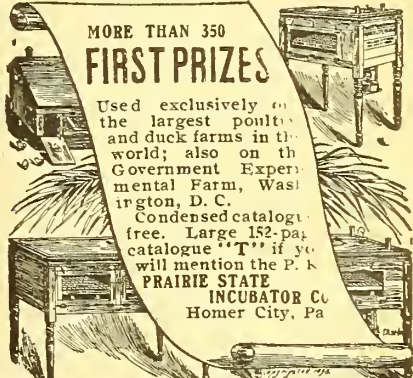
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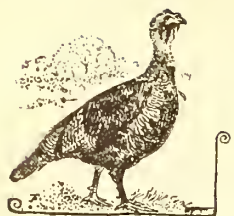
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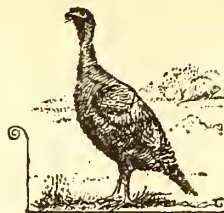
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# TURKEYS FOR PROFIT.



[Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones, of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.]

## A Short Crop and Good Prices—Careless Express Agents—Jamaica Ginger for Bowel Trouble.

**C**OMPLAINTS come from all turkey raisers of a poor crop of turkeys. While it is desirable to have early turkeys, the later turkeys, as a general thing, the last two years, are the ones that have lived. My turkeys have lived well this year, only losing a very few and in most instances those have died because I could not take proper care of them. I never had turkeys grow and do better.

I adopted a course of feeding several years ago and a certain method of caring for them, and have just about the same success year after year, only the rats got in their work last year. I keep them on a three-acre orchard this year. We have pastured the orchard with horses and calves. They have eaten the grass so close where the turkeys and chickens run that it is an ideal place for them.

I have just started my turkeys out on the range and I find that animals as well as man are creatures of habit. When turkeys become accustomed to one course of treatment they expect or learn that order of treatment and adapt themselves to it. If they are fed at certain hours, they get hungry at that hour and expect their supper, and if we turn them out on the range and get them started for the house at four o'clock the first few nights when that hour comes they appear to know the time of day. Perhaps they know on the same principle or from the same intelligence that a parrot says "Good morning," in the morning, and "Good night," at night. The parrot is the only animal that talks, but who can tell how much mental capacity other animals have. Chickens learn their own names, as I have had cockerels that soon learned their names and would come when called by their names as far as they could hear. I have had pet pigs that would come when called by their names, when if called in any other way would not pay the least attention, showing that they knew their names.

I have had a new experience in shipping eggs. A party in New York state sent for eggs when it was quite late. I sent the required number of eggs and took them to the express office myself and told the agent to hurry them along, as they were perishable and must reach their destination in the shortest possible time. The party that I shipped to waited ten days after I shipped them and wrote me they had not been received. I had a tracer put on track of them and after the lapse of about fifteen days they got their eggs. The weather was warm and of

course the eggs had not been turned, and the consequence was no turkeys hatched. It was a clear case of the fault of the express company and the party should not have accepted them. Now as he accepted them, who should be the loser? It was too late to refill the order.

I once had a basket of eggs sent from James Rankin, and when they arrived the eggs were running out of the basket. We wrote him and he wrote we should have made the express company pay for them and refused to take them out of the office. That was when we were new in the business and did not know that we could make the express company pay for them.

I have used Jamaica ginger with excellent results this season. A little turkey had a very bad diarrhea, with yellow discharges. I gave it three drops at night and three more in the morning, and it flew out of the box I had it in and went with the rest of the flock and I could not tell it from the others the next day.

There is no occupation in which boys and girls on a farm can make more money than raising turkeys. The farm is the

only place that turkeys can be successfully raised, and farmers' boys and girls by raising a large flock can have money to get things for themselves that their parents oftentimes cannot afford. Besides they can deposit a part of their money in the bank and have a nest egg that will help them on later in life and it would teach them the value of money and be a lesson of economy and thrift that would go with them through life. It does not cost very much to get started and turkeys are not as hard to raise as a great many people think. I can raise them as easily as chickens and a small flock will bring more than a large flock of chickens. I have two farm boys nearly persuaded to take up turkey raising next year. Boys or girls can nearly always find a little time night and morning and noons to care for a flock, besides it would teach them habits of business that would be worth a great deal in after life. Try it, boys and girls on the farm.

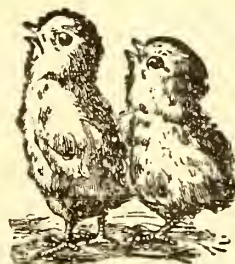
The following notice is being sent out by the Sprague Commission Co., of Chicago: "We have sold our poultry supply business, such as shell, grit, bone, meat, blood meal, clover meal, etc., to W. J. Gibson & Co., Union Stock Yards, Chicago, who will be pleased to receive your orders. We recommend them as a first-class poultry supply house who make a specialty of poultry, pigeon and bee supplies of all kinds." The ad of this house will be found on page 201.

Why not take subscriptions to Poultry Keeper at your county or state fair? Liberal commission paid. Let us tell you about our special offer. Please write for particulars. Poultry Keeper Pub. Co., Quincy, Ill.

## AT BOSTON 1903

Our birds won 26 premiums with 25 entries. Our Buff Rocks making the best record ever made at this great Show, and clearly placing us at the top with this variety. 1st, 2 and 3d cock; 1st, 3d, 4th and 5th hen; 1st and 4th cockerel; 2d and 3d pullet, and every special offered make a record of which we are proud. Our Buff Wyandottes and Barred Rocks were also among the winners. **WE SOLD OUR 1st BUFF ROCK COCKEREL FOR \$300 AND FOUR HENS FOR \$200.** These are the RECORD PRICES FOR THIS COUNTRY AND EMPHASIZE THE QUALITY of our birds. Our free catalogue and mating list gives description of matings and guarantee, and price on eggs from our winners. You will hatch winners from our eggs, and stand the same chance that we do to produce the Champion of 1904. 2-12

MILLVILLE POULTRY FARM, Box 1, M. F. Delano, President, Millville, New Jersey.



## LITTLE CHICKS

Is the title of a new book edited by M. K. BOYER, editor of Farm, Garden and Poultry. It contains special articles on Feed and Care, Raising Chicks in Brooders, Raising Chicks with Brooders and Hens, General Management, Natural and Artificial Methods, Colors of Young Chicks, Time to Hatch, Diseases, Houdan Chicks, Lice, etc.

### Thirty-four Different Methods of Feeding Chicks.

The contributors of this book are M. K. Boyer, A. F. Cooper, W. W. Kulp, G. W. Nones, A. G. Duston, P. H. Jacobs, M. V. Norys, and other prominent writers. Everybody should have a copy of this book for reference, as it is the only one published in the interest of little chicks. Over 150 pages. Price 50c. postpaid.

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**SQUAB RAISING.**

Chas. Phelps, Corfu, N. Y.

**A**S THE quail, partridge and other game birds are so fast becoming extinct, there must be something to fill their places; and there is nothing as yet that so fully meets this demand as a fine squab—fat as butter and so tender and juicy as to melt in your mouth and make you wish that you were able to eat squabs all the rest of your days. Now that we have considered the most enjoyable part of the business, we will take up the subject of how they are raised and why are they more profitable than poultry.

A pair of good Homers will produce from eight to eleven pairs of squabs a year, which will bring in the market, according to the time of the year, from \$3 to \$6 a dozen, and the cost of keeping a pair of birds is sixty cents a year. We will figure on an average of one and a half dozen squabs from a pair of birds a year, average price \$4 a dozen. If a person has accommodations for five hundred pairs of pigeons, which will produce the most cash, five hundred hens at the cost of one dollar a year for their keeping, or five hundred pairs of squab breeders?

When we consider the difference in labor of taking care of pigeons against poultry, the pigeon takes the whole care of the young. All that is necessary is to keep food before them all the time and clean, fresh water. They will do the rest; with poultry, it is a continual run from morning until night. I have raised fancy poultry for the last fifteen years and pigeons five, and I value them both.

In regard to a squab house and fittings I remodelled one of my poultry houses, sixteen by fifty feet in size, which accommodates one hundred and fifty pairs very nicely, with a large outside fly. The essential points in the construction of a squab house are that it should face the south (and of course all poultry houses are built that way) and be secure against rats and free from dampness. Nest boxes I build from the floor to the roof, just as the pigeon holes of a desk run, twelve inches square inside. Each pair of birds occupies two nests, as when the young are two weeks old the male bird takes care of the young and the hen lays again. Roosts I make of inch lumber six inches by five inches, set the two pieces V-shape (apex up) to the side of the house, one roost to each pair of birds. The roosts made in this way make it impossible for one bird to soil another underneath.

I feed red wheat, cracked corn, peas, hemp seed, salt and oyster shells; no sloppy feed must be fed. I trust that this small outline of squab raising will be of some help to those contemplating squab raising, and I shall be glad to give further experiences in some future issue of this paper.

In writing to us in regard to your poultry troubles give all the items that you can think of bearing on the question in point. Write a long letter rather than a short one. Most poultrymen think we can be helpful even when we have been told very little in regard to the causes that are at fault. Be full, rather than brief. Then we can do our part to our satisfaction and be more helpful to our subscribers than we have been in the past.

**FORMULA FOR DOUGLAS MIXTURE.**

West Summit, N. J., Aug. 24, 1903.  
Editor Poultry Keeper.

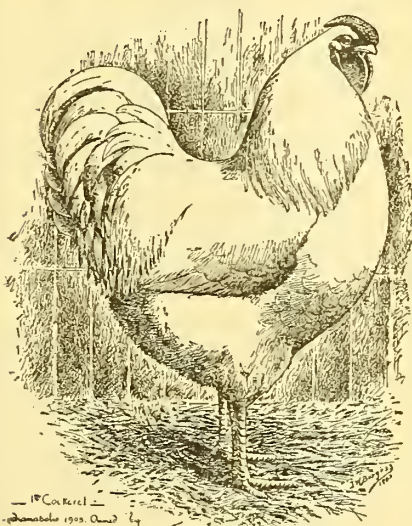
Some time since I noticed a formula for the making of the Douglas mixture in some poultry paper, and thought it was the Poultry Keeper, but on looking over the papers since I cannot find it. Now I notice in the American Poultry Advocate, August number, this answer to the question, "What is the Douglas mixture?" "I do not know what the Douglas mixture is, but presume it some sort of a grit preparation," and so on. Now I thought it a liquid. Can you give me the formula for the mixture, or where can it (the mixture) be had?

Nora Seal.

The item which you have in mind was printed in our December 15, 1902, issue. It was as follows: About the best tonic for fowls is that known as Douglas mixture, the recipe for which is: Sulphate of iron one-quarter pound, sulphuric acid one-half ounce, and water one gallon. Dose, one teaspoonful to each half pint of drinking water, or in similar proportions in the water used for mixing the food, every third or fourth day. Place the sulphate of iron and acid in a strong earthenware jar, pour on the water and stir well with a stick. Leave it for a day protected by a strong wooden cover, then run it off into bottles; cork well and seal. The drinking vessel and the one used to hold the mixture should be of earthenware.

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Box K, Hope, Indiana.



## BUILDING UP AN FGG FLOCK.

By F. O. Wellcome,

PART V. [Conclusion].

**M**Y FRIEND volunteered the opinion that trap nests were a good thing, but he did not have the time to attend to them. I noticed that his birds were very tame and that he knew considerable about a few of them. A little inquiry disclosed the fact that "he lived with them," as he expressed it himself. In short, he spent more time with those sixty-five hens in one day, on an average, than I did with 200 in three days, and I knew more about every one of mine than he did about a single one of his. I took better care of mine also, which has some bearing.

If we are to build our flock surely, safely and rapidly we will use no birds in the breeding pen of a size, shape or laying habit that we would not care to have reproduced in multiplied numbers in the offspring. We will also use no male birds that are not well developed and vigorous. These males should lead a life of celibacy during a considerable part of the year; in other words, they should be penned separate from the females a good deal of the time. If the breeding males are known sons of persistent layers it would seem that they would be better for our purpose than those whose parentage is unknown; yet grand results have been obtained with males whose dams could not be identified. Their use, however, multiplies the chances of failure so far as success depends upon the male.

We will use for hatching no eggs, whether purchased or from the home pens, that are not of good size and shape and have strong even shells, such eggs in fact as we want to produce in large numbers from the future flock.

I care not how good a layer a hen is or has been, if she habitually or frequently lays a poor egg she should not be bred from. Yet the quality of the egg inside or out reveals nothing surely of the past work of the hen that laid it. Very prolific hens sometimes lay very poor eggs and many of the very finest eggs come from extremely poor layers. Especially is this likely to be the case with very dark brown eggs in some flocks.

There seems to be a somewhat general tendency for persistent layers to lighten the color of their eggs as laying progresses, while the poor to fair layers are more likely to hold up their particular shade throughout the laying period. This is by no means an unailing rule, however; neither are we justified in concluding that all well colored eggs come from poor layers, or that the pale eggs all come from extra good layers. The appearance of the egg is of no value whatever in determining the laying ability of the hen. When considering the color of the egg we are of course dealing with brown egg flocks. There are flocks in the American breeds where a dark brown egg might be a pretty sure indication that the hen had not been laying long and freely on that run; but it would not indicate that she had not been a good layer at some previous period. The point I want to make is, that we should not allow a previous history of good laying to blind our eyes to the importance of using only

strong, vigorous, well developed birds in the breeding pen and good sized, well shelled eggs for hatching, no matter what our object may be in breeding; standard requirements, egg production, or both combined. I believe that these things are of the first importance and should anticipate all other judgments. It is far better to select birds and eggs solely by their outward appearance than it is to allow their previous history to excuse glaring visible defects that are inherent. Our business interests can be best served in the long run by accepting facts that must ultimately prove to be, as I have stated, of the first importance.

The so-called evils of inbreeding and many other causes of failure and degeneracy can be avoided by selecting for hatching purposes none but good eggs from good hens that are mated to a good male. A good hen is one that possesses those qualities that we desire to reproduce in our flock and the bodily development and physical condition necessary to enable her to transmit those qualities to her progeny without transmitting constitutional defects at the same time. Such hens lay good eggs; but, unfortunately, all good eggs do not come from such hens.

Shipments of eggs, whether in small lots for hatching or large lots for market, present a better appearance—in large markets bring a better price—if they are uniform in size and color, or absence of color. Hence uniformity in the product is one of the desirable points to strive for. I do not believe it to be of the first importance, however.

I was at one time making progress toward "a brown egg strain," but was knocked "galley west," so to speak, by introducing a male bird whose egg history was a matter of conjecture.

I recall writing one spring to six breeders of reputation and one 200-egg hen amateur inquiring for a cockerel from a dark brown egg laid by a persistent layer. A number of the replies received were unsatisfactory, for, while they courteously described their birds and quoted fair prices on them, they utterly ignored my leading question. I wanted just that kind of a bird and was willing to pay a good price for him, but it seems that some regard such a requirement as being unreasonable. It is a perfectly natural and reasonable requirement, even if such birds are hard to find, and no breeder should be afraid to say that he cannot furnish what is asked for, if he cannot furnish it, for the ignoring of a reasonable query is pregnant with a meaning that a straightforward answer might not give.

It is better to have the product uniformly white, uniformly tinted, or uniformly brown than it is to have a mixture of all shades.

In breeding from the best layers in some flocks of any breed with a brown egg tendency there may be a strong leaning toward a lighter color in the product that it will tend to perplex one who is working for a dark egg, but the brown egg fad is not so deeply rooted that it will pay many of us in dollars and cents

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**Feeding for Eggs.**

**A Hen Catechism.**

**Feeding Young Chickens.**

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QUINCY, ILL.



to sacrifice prolificacy for the sake of a strong color in the product. Uniformity is, however, quite desirable.

So far as size is concerned, an egg that fills its place in the filler of an ordinary market egg case is large enough for regular market requirements. A larger egg for special family trade will bring a premium in some localities, but it will be extremely difficult to breed birds that will be prolific layers of eggs that are extra large for the breed. Extremely large eggs and prolificacy do not seem to go together. Judicious feeding will increase the size of the eggs somewhat in any flock without decreasing the number. I find that my 200-egg hens, so-called, lay as large eggs as most of the others. One of my Wyandottes laid during twenty-four consecutive months (mark it) and her eggs averaged about two ounces each. A pen of fifteen Plymouth Rocks that averaged 192 eggs each last year are giving me eggs averaging twenty-six ounces per dozen.

Mentioning these two breeds reminds me to emphatically urge the beginner to keep but one breed. If there is anything worse than one breed of hens it is two—or more.

The building of an egg flock will be a fascinating and ultimately a highly profitable undertaking for any one who has a talent for poultry keeping and breeding and likes it, the ability to begin small, go slow and look at facts as they are and not as he or others wish they were, and income or capital enough to stay in the game until he understands his business and can make it pay a legitimate and adequate profit.

It is a significant reflection upon the present extent of our knowledge of matters relating to "breeding for eggs," about which very many of us talk very wisely, that there lives in this country to-day a breeder of long experience who produces market eggs in such abundance for the size of his flock—a good sized one—that he dare not publish his best records, for not one poultry breeder or writer in a thousand would believe him.

So much doubt has been in evidence regarding the 200-egg hen that I always expect to be classed with the unbelievables when I refer to them, but I know that they are here and that they are a perfectly practical proposition to work for, even to the extent of 200-egg hen flocks of practical market egg proportions.

The inexperienced often believe that hens in general lay very much better than they do, while a great many hen men of long and active experience will not believe that any hens are capable of laying so many eggs as thousands of them have laid. These are facts and they furnish their own lesson to any thoughtful mind.

A number of years ago a locomotive engineer (slow-freight probably) made a public statement that certain 60-miles-an-hour talk was all rot, for he knew that no engineer living could make even one mile in one minute. There was at least one train in this country at that very time making regularly a long run at the rate of sixty miles an hour. Now—but some reader may be a slow-freight engineer. My point is made, however.

The egg flock builder should not be overly anxious to manufacture in one year, 200-egg hens for the purpose of using them for breeders. I believe that many

hens with such a record have been bred from when it would have been better to have sent them to market.

Two hundred egg hens that are the result of systematic breeding for several generations, and rational methods of maintenance, are a different proposition from those occasional pullets that have been "forced," and nursed, and lived with by an enthusiastic green-horn until they succeed in reaching the anxiously sought for 200 eggs or more each at the expense of all that there ever was in them of vitality and breeding value.

There are a number of matters intimately connected with this subject that are made available in the reading and advertising columns of this magazine in better shape than I could handle them and treated by those who are more competent than I to treat of them. I have written considerable, but "the half has not been told."

If my readers find reminders, hints, and suggestions in these articles that will help them in any way, or some new points that interest them merely, they will have served the purpose for which they were written.

Send your growing birds to bed (roost) with a full crop. It pays to feed young stock with a liberal hand. The growing bird has a wonderful appetite. It takes courage to scatter the grain in the quantity needed, but it pays from every point of view. If you cannot see your way clear to feed all the birds will eat you must not be surprised to have late maturing pullets. A little more feed will return profits in eggs that does give satisfaction to the owner.

The premium list of the Prairie Depot Poultry and Pet Stock Association's show, to be held Nov. 25-28, is now ready for distribution. List, entry blanks and full particulars can be had from R. F. Brasey, secretary, Prairie Depot, O.

ABOUT DUCKS.

Chazy, N. Y., Aug. 26, 1903.  
Editor Poultry Keeper.

Now for a criticism. On page 193, August 15 issue, you say: "The general appearance of young ducks will tell the sex as they mature." The fact is that about two months old the females begin to quack. This tells the tale. A male never makes a loud noise. The best he can do is a sissing whistle.

Again. On page 198, in "Ducks for Breeding." The verdict of our leading plants on this subject is that after the second year breeding stock should be marketed. The first year they are more prolific; the second year more fertile. After that they deteriorate very rapidly in both respects. Frances E. Wheeler.

Wm. Maxwell, of Bloomington, Ill., breeder of White Wyandottes and White Leghorns, writes us that through his ad in P. K. he has disposed of his surplus stock and will have only select birds for sale now at regular prices. See ad on inside front cover.

It will help everybody concerned if you will remember always when writing to our advertisers to say, "Saw your ad in Poultry Keeper."

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As a further inducement to our friends to send us "Blocks of Three" for \$1, we

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will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

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## HISTORICAL AND COMMERCIAL VALUE OF PIGEONS.

Arthur P. Spiller. Beverly, Mass.

**F**ROM the remoteness of antiquity to the present time, history and tradition have unfolded to us the intimate association of the pigeon with the human race. In Old Testament times it was the only bird divinely appointed to be offered in sacrifice. It was the dove that from some resting place brought in his beak the olive to Noah in the Ark, indicating that the world-wide waste of waters was subsiding. The dove was made the symbol of gentleness, purity and innocence, in the love songs of the Canticles.

Beautiful white doves were reverently hovering over the Jordan at the time of Christ's baptism, one of which was made the sacred messenger to convey the Holy Spirit to the Son of Man. Later on in the middle ages we find the feudal kings making use of the pigeon's sagacity in conveying messages.

At this point tradition unfolds to us a pathetic incident in which the homing pigeon played an important part. A maiden captured from her lover by a feudal lord and confined in one of his castles to await his pleasure or coercion, was allowed to take into her captivity two pet pigeons, that in a measure helped to break the solitude of her confinement. As she treasured in her breast the fact that she had the means in her possession to convey to her loved one the knowledge of her faithfulness and her fate, as the fatal hour approached on which she must assert her honor, she tied upon the leg of the bird a message conveying to her lover her determination to protect her womanhood at any cost.

Stepping out upon the balcony, releasing the pigeon, it arose on soaring wing and sped in rapid flight toward its distant home. Hardly had the bird disappeared from sight when approaching footsteps told her the moment had arrived for the consummation of the most heroic act of womanhood. Rapidly fastening another message to the remaining bird's leg, bearing over her name these words: "My honor is saved," again stepping out onto the balcony with a hearty caress to her faithful pet, she loosed her clasp and allowed it to follow its mate through trackless space to its distant cote, and the home of her lover, bearing the message of tragedy. Turning to her captor, scorning his threatening words, with a last glance at the winged messenger, now nearly out of sight, with a bound she cast herself into space, falling at the foot of the Craig, meeting the waves, which bore her on their bosom.

Still later on in more modern times we find the generals of vast armies utilizing the birds' intelligence to convey messages of great importance. It is of little wonder that the pigeon is viewed with admiration or even reverence as it spirally winds its way into ethereal space, bearing upon its leg a message of great import, soaring far above the reach of shot and shell, when without hesitation and with unerring instinct on quickly moving pinions, it passes over contending armies, through many miles of space, to its cote, where anxious watchers await the message.

In more recent years our own govern-

ment has kept at various stations homing pigeons as conveyors of messages. But at the present time, owing to the advent of the telegraph and heliograph, they are not made available for this purpose. Still, admirers of the noble bird derive much pleasure in sending the birds long distances from home, having them released and timing them as to their rapid flight in reaching home quarters.

To the admirers of the beautiful in bird life the fancy pigeon in all the variety of form and delicate coloring presents a subject the skillful breeding of which affords delightful pastime as well as remunerative returns. There is a good demand for good breeding stock in nearly all of the varieties. To the careful breeder specimens are often produced which approach perfection and bring large prices. It is no unusual thing that twenty-five or fifty dollars, and occasionally larger sums, are obtained for a single specimen.

From time immemorial the pigeon and its young have afforded man a nourishing food. It matters not if it be served in the cabin of the mountaineer or in the cafe of Delmonico, its delicacy as a food is just as highly appreciated. For a long time the breeding of squabs for market has been carried on in different sections of the land, but in recent years the advance of civilization in the domains of the wild birds, and the persistent hunting of the same has diminished them so that in localities where they were found in countless numbers not one appears today. The scarcity of the wild bird has created a demand for a substitute, for which there is none better found than a young pigeon.

To-day we find here and there mammoth plants for the production of breeding stock and squabs, the squabs as fast as matured passing rapidly to hotels, restaurants, clubs and game supply houses, bringing prices that afford a larger profit for the amount invested than any other branch of live stock breeding. As an illustration: A pair of good breeding birds costing two dollars, producing say eight pairs of squabs annually and selling at four dollars per dozen, would give as

proceeds \$5.33 for the squabs, deducting the cost of feed for the breeding pair, which at the present time is about 75 cents per year. Adding to this the first cost of the pair, makes the amount \$2.75, and deducting this from the gross proceeds, leaves a net profit of \$2.58 the first year, after which the first cost of the pair need not be reckoned, but the profit on the same basis would amount to \$4.58.

This amount increased by the profit of one thousand pairs, which one person can care for, will afford a lively income. The income from selling breeding stock to beginners and others restocking their ranches is no small item. Some breeders, importers and dealers in the east have found it difficult to supply the demand for first-class breeding stock. As has already been mentioned in a previous issue of this paper, the breeding of squabs for market is a light, profitable work for men and women, invalids, boys and girls. As the birds rapidly increase in number, a flock of large proportions can easily be obtained from all beginnings.

The importance of securing good breeding stock from the beginning cannot be overestimated. Next come the care and feeding of birds, information of which can be obtained from a good, reliable squab book. A book of this character is not only helpful to the beginners, enabling them to make a success from the start, but it is useful many times to the older breeders. Prices of squabs and breeding stock have ruled high the past season, and it looks now as though prices will be higher another season.

If you planted a lot of mangel-wurzel seed last spring you should be well fixed for winter green food. A half cattle-beet will give lots of exercise and much good food to a pen of laying birds. Hang the beet to a string, or put it on a nail that is driven into the wall of the house, and the birds will do the rest.

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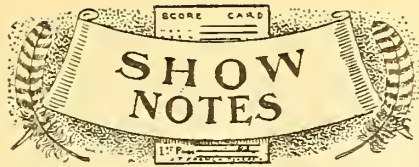
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The fifth annual show of the Elgin (Ill.) Poultry Association will be held December 22-24. Chas. McMillan, Secretary.

The McDonough County Poultry Association will hold their show December 14-18, at Macomb, Ill., with Chas. McClave as judge. Fred Yetter, secretary.

We have formed an enthusiastic association of business men and fanciers under the head of Grant County Poultry and Pet Stock Association. We have engaged Charles McClave to judge our coming show, to be held Dec. 18-22.

R. H. Weaver, Mariou, Ind.

The International Poultry, Pigeon and Pet Stock Club of Detroit, Mich., incorporated March, 1902, will give its first annual exhibition in the Light Infantry Armory December 14-19. This will be Michigan's pioneer comparison show, under A. P. A. rules, with Judges Sharpe Butterfield and Thos. F. Rigg officiating. The Detroit Cat Club and the Detroit Pigeon Club will show in connection. Other features will be announced later. S. Z. Harroun, Secretary, 39 Sycamore St., Detroit, Mich.

**Iowa's Greatest Show.**

The Western Poultry Fanciers' Association has begun active preparations for its ninth annual exhibition to be given at Cedar Rapids, Iowa, January 11-16. The amount of premiums will be the greatest ever offered and will be liberal with all standard varieties. The management is under Iowa's leading fanciers. The judges are Chas. McClave, New London, Ohio; U. J. Shanklin, Waubeek, Iowa, and W. G. Warnock, Geneseo, Ill. Premium list ready December 15. A. J. Smith, Secretary, Cedar Rapids, Iowa.

**White Wyandotte Club.**

The National White Wyandotte Club has just issued a new circular which should be in the hands of every breeder of White Wyandottes. Any one interested in White Wyandottes should send his name and address immediately to the secretary of the club, and receive a copy at once.

Ross C. H. Hallock, Secretary, St. Louis, Mo.

Keep a few of the best yearling hens for your best hatching pen of 1904. Mate these birds with a well grown cockerel and you should get chicks that are sturdy and quick growers. Hens that have been light winter layers make better breeders than birds that have been pushed for eggs. Two year old hens are naturally light layers and we know from personal experience that they give fine chicks.

How to make money at the fairs—act as subscription agent for Poultry Keeper. We supply free sample copies and pay a liberal commission. Write to-day. Poultry Keeper Pub. Co., Quincy, Ill.

**PIGEONS FOR POULTRYMEN.**

C. R. Graham, Brooklyn, N. Y.

I shall not attempt to go into a description of the various breeds of pigeons, as that would require a book by itself. There are several reasons why the poultryman should keep pigeons—common pigeons—as many as he can get. Usually they may be obtained for little or nothing.

Nail up a codfish where the pigeons can strip it, or better, mix a little cinnamon seed, old mortar and a little salt, the whole kept moist, and if nesting places be provided and a little grain scattered, the pigeons will remain.

Pigeons around a place give life and interest and add something of beauty to the "domestic scene." And they are useful. In the fall they gather countless seeds from weeds, and every seed thus disposed of may make one weed less the next season. If the crop of a pigeon be opened in the fall this statement may be verified.

It is true that pigeons go into grain fields, but for what? Not to take the standing grain, but to gather the shelled grain that would be lost if the birds did not get it. Pigeon pie is a good dish. And squabs, taken about the time they are ready to leave the nest, are they not as rich as anything that flies? Many a boy owes his skates, his sled and other things he values highly to the squabs he found in the barn and sold for a "good bit of money."

The cost of keeping is not worth reckoning: they "pick up" nearly all they have on many farms, except perhaps in midwinter, and yet they stay. When the bottom of a hay mow is reached let the pigeons have the seeds collected there. Better that the pigeons eat them than that they go into the manure to spring up in the corn field next season. There is pleasure and profit in keeping pigeons, or in providing a place for them, as they will nearly keep themselves.

**BUY IN THE FALL.**

The fall is the time to buy fowls, because the breeders are overstocked and will sell at lower prices than at any other time. The spring is the time to buy eggs because the advantages then are more favorable for hatching and raising chicks. It is very difficult to procure birds at any price in the spring as the fowls are then mated and the pens complete.

**Two Poultry Papers in One.**

The publishers of Poultry Keeper and Farm Poultry (Boston Mass.) have formed a combination to increase their circulation. The arrangement is purely a business one, but the subscribers will be greatly benefited.

Farm poultry is the great semi-monthly of the east, price \$1 per year. Poultry Keeper is the great practical poultry paper of the country, price 50c per year. We offer both for \$1. This is a combination of the two papers mostly devoted to practical poultry. It is the best offer we have ever made. Send your subscriptions in to us. Poultry Keeper Pub. Co., Quincy, Ill.

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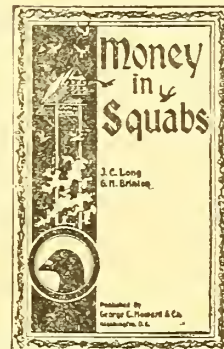
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**Money in Squabs.**

A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

A year's subscription to Poultry Keeper (50c and a copy of Money In Squabs (50c) for 75c. Or we will furnish Money In Squabs free as a premium for 2 subscriptions to Poultry Keeper at 50c each. Address,

**Poultry Keeper Publishing Co., Quincy, Illinois.**



## The Poultry Keeper

### POOR HATCHES AND DEAD CHICKS.

Humansville, Mo.

Editor Poultry Keeper.

On page 162, July issue, M. A. S. asks why chicks died in the shell. In as much as you referred him to my letter in the June issue, I would like to say a few words in answer. People asking for information rarely give data enough for a definite reply, but taking the season into consideration we may be able to help him out.

A very prolific cause of poor hatches in warm weather is too high a temperature. In warm weather the ventilation will not need the attention required in cold weather. In any incubator which gives a fairly even temperature to the egg chamber and not over one degree difference between top and bottom of the egg, 102 degrees is ample in an outside temperature of 70 degrees or more. Cool or not, as the development of the allantois may indicate.

The style of incubator makes a difference, too. A lamp or in other words, a machine heated by radiation, hot air or water, tank or pipe, stands a higher temperature than those heated by the diffusion of warm, fresh air through the whole egg chamber. It is only in very cold weather that such machines need be run at 103 degrees. I know of one of the very best machines made in which a temperature of 103 degrees is fatal to a good hatch.

I will give data by which one may determine whether the temperature has averaged too high or not.

If the temperature has been too great the development will be too rapid the first few days, the "spider" too fleshy and with too many legs. These points may be seen very early but the most noticeable feature is entirely too much black in the egg towards the small end. In a properly incubated egg the appearance is cloudy, not black. The blood vessels will have a venous color, too dark and too large.

When hatching time comes the chicks are small, some hatch with the yolk sac hanging to them, many pick the shell, but get no further. If these shells are broken they will be found to contain a sticky substance, sometimes a good deal of it. Others may have a watery, very putrid gray filling. Chicks hatched with too great heat have a predisposition to bowel trouble, owing to imperfect absorption of the yolk, and are altogether the sorriest proposition a poultryman can face.

On page 142, Mr. Whitlock tells of a ninety per cent hatch in a "new Reliable," standing in three inches of water in a cellar. He had the ventilators wide open and put in moisture pans. The moisture pans did not affect the hatch at all. In the new "Reliable" heat is furnished, in the better styles by the diffusion of warm air from above, down, and out; hence the water in the pans may have helped increase the moisture in the cellar, but did not materially influence the egg chamber. Of course when operated in a cistern, a machine can hardly give too much ventilation, but when his cellar dries out, let him do as Mr. Moss says—allow just sufficient ventilation to keep the air pure and apply no moisture, and he will be able to get ninety per cent hatches so long as the eggs are good

enough. The Reliable will do its part if the operator will do his.

H. M. Wagner.

Humansville, Mo.

### THE BONE CUTTER.

The bone mill and bone cutter should be as much a part of the poultryman's outfit as his feed trough. Bones will make eggs, for they supply lime, carbon and nitrogen, and it is unwise to waste bones when they are worth so much as food. The bone in its fresh condition, and cut fine is as easily digested by fowls as meat. The dog can swallow large pieces of bone "with a feeling of well-being," but he would have a hard time with a piece of oyster shell.

The Beechwood Poultry Farm, Louisville, Ky., owned by C. E. & G. F. Nary, is winning laurels in the poultry departments of the county fairs. At Fern Creek, Jefferson county, last week the Beechwood poultry won first in the following classes: White Pekin ducks, S. C. Black Minorcas and B. P. Rocks. The Beechwood Farm has for sale two or three hundred young chicks. It is one of the largest poultry breeding establishments in that section. See ads on page 240.

If you bought eggs last spring and have pure-bred stock now don't be afraid to advertise. You can sell stock as well as others can.

### SUCCESS WITH POULTRY.

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry will help you.

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

Do you want to get plans for building practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co. Quincy, Ill.

"Sales are fine," reports W. W. Kulp, Pottstown, Pa. "I have an order from New Zealand for eggs, also one from South Australia." Mr. Kulp has a world-wide reputation.

# Are You Willing to Become Prosperous?

If you are perfectly willing to live all your life where you are; if you have made ample provision for your sons and are entirely content, then what I have will probably not interest you. But if you are willing to give up stumps and rocks, poor soil and high rents for a country where climate and soil are perfect, and where a man can soon become independent, then investigate NEBRASKA.

Nebraska stands to-day as one of the very first agricultural states in the Union, and for a little while land there can be bought for about half of what it is really worth. Send to me for a copy of our new booklet telling all about it. Good pictures and a fine map. Free.



P. S. EUSTIS,  
P. T. M., Chicago, Ill.



**THE FIRST SEASON'S WORK.**

This is our first season in raising poultry for profit. We began with a fifty-egg incubator and a brooder of same capacity, having them in a back room in the house where there was a coal stove with fire night and day. We tried as well as we knew how to give plenty of fresh air and we were very careful to follow directions, but our hatches were very poor.

We purchased our eggs from good breeding pens of White and Partridge Wyandottes, and had one sitting of Rhode Island Reds. At present of all kinds we have sixty chickens, eleven as fine White Wyandottes as any one could wish to see, and the Partridge are doing well, although hatched in June. As for the Rhode Island Reds, you can almost see them grow. Although our flock is much smaller than we hoped, we have nearly all we hatched.

We can care for them all right after hatching and our pens are free from lice. They are washed every week and brushed all over with coal oil. The floors are kept clean with fresh sand and litter weekly. Water is given very often, and grit and charcoal. We have followed as closely as possible the recommendations in regard to feeding we read in our poultry journals and feel that our experience has been worth all it has cost, although the profits are to come.

We will soon sell off all cockerels and get our pens ready for winter. Our chicks have been kept in yards made of wire netting set in frames attached to the brooders out of doors, all but the first purchased being home made. The yards are hooked together at the ends, sides and a top cover over the yards covered with netting with two frames fastened in the middle with hinges, so they are easily raised for feeding, or to get at the chicks. The yards and brooders are moved every night to fresh grass and only for the last week have the later hatches had any range excepting these yards three by six feet. Now we are letting them have a run every day in the corn field. The White Wyandottes, the first hatched, were removed to a colony house when the last hatch came off in June, and they had no yard, but we let them run every evening for a while, and now they are out all day. The pleasure of watching them grow and caring for them has been our recreation for the season.

S. B. Bowerman.  
Rochester, N. Y.

**HERE TAKE IT  
IT'S FREE**

And will surely help you and start you right if interested in

**Barred Rocks, S. Wyandottes, I. Games, Light Brahmas, Buff Cochins, Pit Games, Pekin Ducks, Quarter Wild and Bronze Turkeys.**

**ALL! ALL! ALL!**

depends on the start you make. So don't make the fatal mistake of buying poor, cheap, haphazard bred stock, but let us start you right, with good line-bred birds from the most noted prize winners in all the south. We can and will honestly help you if you but give us a chance. Eggs from the very cream of our prize stock \$3.

**O. V. POULTRY FARM,**

Geo. W. Brown, Prop., Camden, Ark.

The Prussian Remedy Co. have a 68-page book on stock growing that will be sent free to P. K. readers. See page 201. Address Prussian Remedy Co., St. Paul, Minn.

Scatter air-slaked lime everywhere in the poultry house, and on the yards, and you will do much to prevent roup.

**Get Eggs  
in Winter**

Whether you keep 12 or 1000 hens you want them to lay when eggs are high. Our booklet, Special No. 2 tells

**How to Feed  
What to Feed**

For 50 cents we will send the booklet and full year's subscription to the Poultry Keeper.

**Poultry Keeper Pub. Co.,  
Box 217, Quincy, Ill.**

**EGGS HALF PRICE** \$1 per sitting; Black Cochins, Black Langshans, White Rocks, White Holland Turkeys. Some bargains in stock. Write for prices.

L. GILLON, Hales Corners, Wisconsin.

**WHITE PLYMOUTH ROCKS**

We breed for quality, not quantity. When you want anything, write. 3-10

**PEARL LAWSON, STAUNTON, IND.**

**BREEDERS' CARDS**

**TOO LATE TO CLASSIFY.**

**POULTRY NEWS.** Original illustrated up-to-date, 25 cents year—wants agents. New Brunswick, New Jersey. 9-x

**EMPIRE STATE S. C. White Leghorn Farm.** Cockerels and pullets 5 months old \$1 each. Wyckoff strain heavy winter layers. Catalogue free. Zimmer Bros., Weedsport, N. Y. 9-12

**SINGLE COMB WHITE LEGHORNS.** Trap Nests used throughout. Prize winning stock bred for utility as well as for fancy, producing a great laying strain. Cockerels, \$1 25 up. Correspondence solicited. The Ideal Leghorn Yards, Burton Station, Ohio. 9-1

**THOROUGHbred COCKERELS,** \$1 and \$2 each. White Wyandottes, Barred Rocks, S. C. White Leghorns, S. C. Brown Leghorns. Good as can be found for the price. Mrs. Minnie B. Brown, Appleton City, Mo. 9-2

**RHODE ISLAND REDS.** Grand birds in any number from 214-egg strain. The finest lot of R. I. Reds in the country, fit to win in any competition for fall and winter shows. R. I. Red Standard free. Smith's Silver Penciled Wyandottes, Cornell strain, Grand exhibition and breeding stock for sale. T. N. Smith, Attleboro, Mass. 9-5

**VANATTA'S S. C. W. Leghorns** again victorious. At Missouri State Fair, August, 1903, in class of 82-8 exhibitors—1st, 2nd cockerel; 1st pullet; 1st, 2nd pen. Good cocks and cockerels for sale. E. E. Vanatta, Vandalia, Mo. 9-4

**ROSE COMB BROWN LEGHORNS** a specialty; also S. C. Blacks. Stock from prize winners, scoring 90 to 96½. Free range. Stock for sale. Circular free. J. L. Randolph, Box A, Cutler, Ohio.

If you will send us a list of forty prosperous farmers and stockmen from your county—we will send you

**THE  
TWENTIETH CENTURY  
FARMER**

for three months—absolutely free.

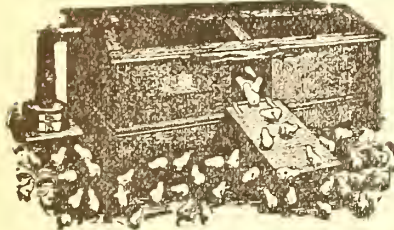
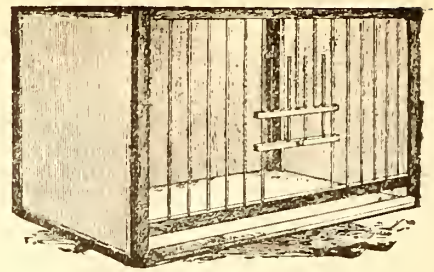
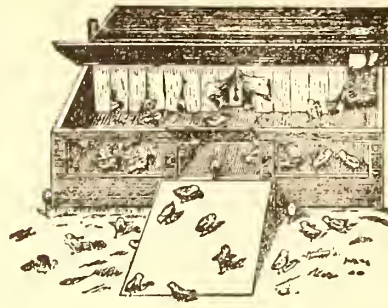
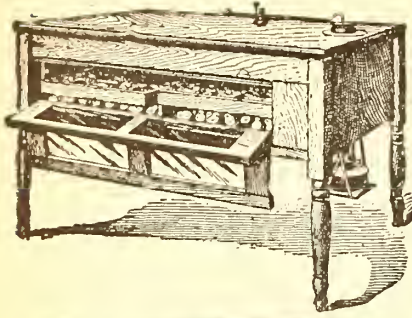
It is a handsomely illustrated weekly magazine for the farmer and his family—articles every week by men of national reputation—departments covering every branch of farming and stock raising edited by successful farmers and stockmen—illustrated by our own photographers and artists—interesting from cover to cover.

Send the list today—this offer good only till Oct. 15, 1903.

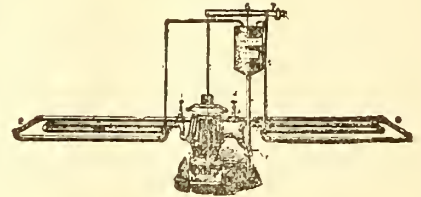
Address **THE TWENTIETH CENTURY FARMER,**  
1742 Farnam St., Omaha, Neb.



# EVERYTHING FOR THE POULTRYMAN.

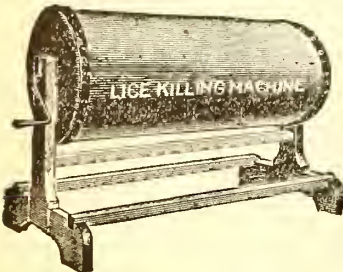
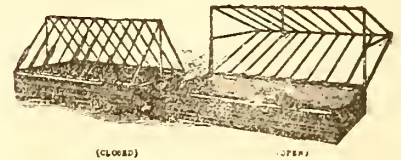


**A Reliable House With Reliable Goods....**



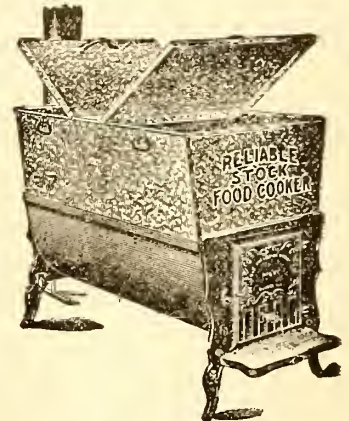
**THE Reliable Incubator and Brooder Co.** Manufactures and handles everything that is needed on a well regulated farm. Owns and operates one of the largest Thoroughbred Poultry Plants in the United States. The large 19th Annual Catalogue and Guide shows the different breeds of poultry raised, also shows the different articles handled, a few of which are named here:

Incubators, both Hot-air and Hot-water; Brooders, In-door, Out-door and Sectional; Poultry House Heaters. Pipe-System, Egg Cabinets, Egg Carriers, Stock Food Cookers, Automatic Grit and Shell Box, Exhibition Coops, Leg Bands, Reliable Chicken Markers, Farmers' Favorite Brood Coops, Metallic Feed Troughs, Metallic Drinking Fountains, Brass Spray Pumps, Insect Powder, Roup and Cholera Cure, Reliable Pedigree Nest Box Vegetable and Root Cutter, Thoroughbred Poultry and Eggs, Portable Poultry House, Combination Roosts and Nest Boxes, Bone Cutters, Clover Cutters, Caponizing Instruments, Lice Killing Machines, Egg Baskets, Nest Eggs, Egg Testers, Poultry Foods, Grits, etc.



## ...Success With Poultry...

A large new edition of Success with Poultry, which is owned and copyrighted by the Reliable Incubator Co., is the best book for all round information in regard to poultry from the laying of the eggs to the marketing of the chickens, telling how to feed, how to build poultry houses, how to hatch and to care for poultry in general, how to feed for eggs, etc. In fact it gives general information along the line of the poultry industry. This book we offer for \$1.00, postpaid.



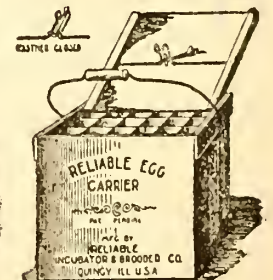
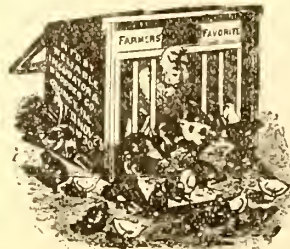
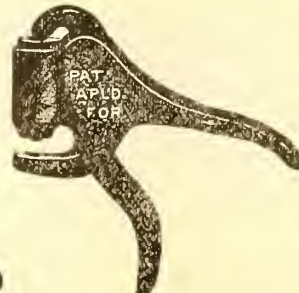
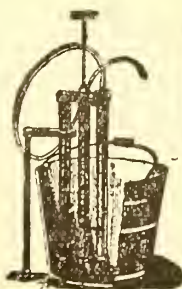
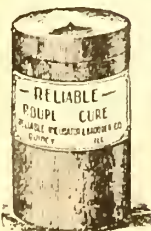
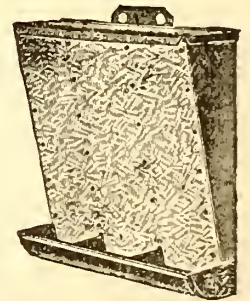
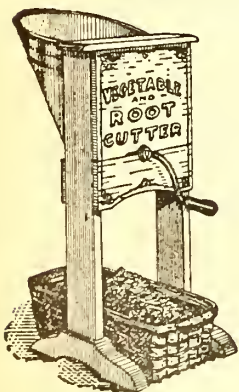
## CATALOGUE SENT ON APPLICATION.

Our large 19th Annual Catalogue and Guide will be mailed on receipt of 10 cents to pay postage. It is combined with general information along the poultry line and worth \$1.00 to any one who is interested in poultry. It is an encyclopedia on poultry breeding.

## Reliable Incubator and Brooder Co.,

Box A-15, QUINCY, ILL., U. S. A.

We guarantee prompt shipment and take care of our customers. We invite correspondence.





**THREE POPULAR STYLES OF POULTRY HOUSES.**

(Continued from Page 207.)

thirty-six feet of wire, while to fence the other requires two hundred and twelve feet.

The houses are sanitary. They are easily cleaned. All one has to do to remove the droppings or litter is to drive a cart close up to the door and shovel the droppings and waste material into it. In case a serious disease breaks out it can be easily confined to the house where it originated and the other flocks need not be exposed.

The most serious drawback to the colony-community plan that I have found is that it is not easy to make the rounds of the houses in very stormy weather. But we have few storms in the course of a year fierce enough to make it uncomfortable for a man properly clad to make the rounds of the houses. Then, too, a severe storm seldom comes without a warning, and the weather-wise poultryman may anticipate the weather by making the rounds of his houses before the storm fairly sets in and seeing that the birds are supplied with enough grain and water to last twenty-four hours.

**Don't Build Too Cheap.**

I cannot close without giving some advice that has grown out of hard experience. Don't build too cheap. There is always the temptation to a man who is engaging in a new enterprise to invest as little money as possible. This temptation will beset one in the poultry business as well as in any other. But it must be resisted. A cheap house is the dearest house in the end. It never looks well and it is never satisfactory, and it is hardly built before it needs repairs.

Build a neat, attractive and convenient house, if not an extravagant one. Your fowls will pay a good rental on such a house, if you use them right.

Don't try to work in old material. We have it on the best authority that a man should not put new cloth into an old garment. Neither should a man put old boards and windows into a new building.

Don't try to do the work yourself, unless you are a carpenter. You don't want the building to advertise your lack of skill. If you have time to help the carpenter, that is one thing, but to do the work yourself is another. Better wait until you have earned enough at your trade to employ a good man than to start in prematurely and try to do the work yourself.

One reason why women succeed in the poultry business better than men is because they have sense enough to hire a skilled workman to do that for which they are physically unfitted, or don't know how to do.

**THE GOLDEN WYANDOTTE.**

I am a reader of the Poultry Keeper and I like the paper very much. I breed the Golden Wyandottes. What is more beautiful than a fine Golden Wyandotte and what variety is better when it comes to so many good points combined? The broody spirit troubles them very little.

If one is looking for the extra good layers during the season and a general purpose fowl, he can certainly find it in the Golden Wyandotte. The two most sought for qualities in any breed are egg production and quick growth. The Golden Wyandotte chick when first hatched has a round, plump, heavy body and it will outgrow the Buff and the Silver Wyandotte. The Golden Wyandotte chick at nine or twelve weeks old is large enough to eat.

If the Golden Wyandotte fowls are properly cared for, they will outlay all the large breeds of fowls. In winter, when prices are away up and eggs are scarce, you will be getting eggs from the Golden Wyandottes. If we were to tell all the good points in detail of this most popular breed, it would require several pages. I like them better each year. To mate and breed them up to standard requirements is somewhat of a job. This we have tried, and in the offspring we get some very fine pullets and cockerels. The one great feature that convinces us that they are becoming the leading Amer-

ican fowl is the fact that they will stand forcing better than any other breed of fowl with which we have had experience, and because of their beauty, their gentle habits, their great laying qualities, and their usefulness in all ways.

From the first week of the downy period the Golden Wyandotte chick begins to show development in comb and wattles as well as in feathers. This shows the Wyandotte is composed of the essentials to early growth and development.

Mrs. M. J. Furnam, Michigan.

**Raymond's Blue Barred Rocks and R. I. Reds.**

A good percentage of Poultry Keeper readers will be interested in the following paragraph contained in a letter to P. K., written by D. C. Raymond, South Framingham, Mass.:

"I wish you would tell the readers of P. K. that Raymond is raising the best birds this season he ever raised. My last year's record of fourteen firsts in the largest New England show tells the story. I feel confident that I shall double last year's record this year. Also, my stock is sold on approval and money refunded if wanted."

Mr. Raymond will send copy of the Rhode Island Red Standard free to P. K. readers.

**Selling at a Sacrifice.**

When Charles M. Clime, Terre Hill, Pa., sells his undefeated Buff Leghorns and White Langshans he will part with as strong standard-bred birds of these varieties as have been bred. Mr. Clime is engaged in a manufacturing business and he has decided to sell every bird he owns, as he has not the time to give them the attention they deserve. For their winnings last season at New York and Boston see Mr. Clime's ad on page 202. Write to him for prices and particulars.

Look out for leaky roofs and knot holes near the roosting birds. Fix these places. They lead to many an outbreak of "roup."

**HERE'S PROOF OF SUCCESS**

**ENTHUSIASTIC PRAISE FROM PUPILS OF THE...**

**Columbia School of Poultry Culture.**

New London, Conn., March 23, 1903.  
Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I have received all mail sent by you and wish to thank you most cordially for your interest in my undertaking. To me, your lectures are so clear, so full of that detail so necessary for the success of a beginner, that in my estimation they ought to be fascinating reading even to those who have never given a thought to poultry culture.  
Yours very truly,  
A. L. RUDD.

Chicago, Ill., March 25, 1903.  
Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am pleased to say that the instruction received from your school is all you claim and all questions have been answered promptly and to the point.  
Very truly yours,  
JOHN VAN VALKENBURG.

Columbus, Ohio, March 19, 1903.  
Columbia School of Poultry Culture, Waterville, N. Y.  
Dear Sirs: I am more than pleased with the lectures and highly prize them. The lecture No. 12 on Incubation is beyond anything I have ever read and I think I have read most every treatise written that has been published that I could lay my hands on.  
Yours truly,  
A. M. WARSCHAUER.

Chicago, Ill., April 4, 1903.  
Columbia School of Poultry Culture, Waterville, N. Y.  
Gentlemen: I am finding your course of lectures most interesting, practical, and logically arranged. I think I may be able to direct other pupils to you before long.  
Very truly,  
(Signed) ALICE A. DEERING.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way. Fanciers are taught to breed their own winners by thorough instruction in the principles of mating and line breeding, while those who keep poultry as pets are shown how to obtain the most satisfactory results. Students are assisted to lucrative positions as managers of poultry plants. The demand for competent men is rapidly increasing and the number of those available is far too small for the positions open. A course will fit you to fill a good position at a handsome salary. Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.

**THE COLUMBIA SCHOOL OF POULTRY CULTURE, BOX 102, WATERVILLE, N. Y.**

**SPECIAL NOTE.**—The graduating class of poultry department Rhode Island Agricultural College thinks so highly of Columbia Course that the majority of them are taking a post graduate course with us.



# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## Poultry Diseases of the Fall Months—How to Avoid Them.

Dr. N. W. Sanborn, Bellingham, Mass.

**I**F our birds enter on the winter months free from sickness, and are strong in body because of good health all the autumn months, half the battle of the cold days will be avoided. In fact, most of the birds that present illness in winter have a history of sickness during the wet days of the fall. It pays then for both pleasure and profit, to so care for our birds as to avoid much of the common diseases of the fall of the year.

What are these troubles? Two in number, and known as "colds" and "roup." That there are other diseases during this time is true but the difficulties they cause are so slight as to lead us to ignore them at this time.

### Fall Colds and Catarrh.

Fall roup and catarrh are largely seen in the nearly mature chicks: Old birds are in their winter houses and seldom are ill of these diseases unless herded with chicks already sick. Pullets that have been early moved from the roosting coops to the large winter houses generally escape these troubles.

Then there must be something about the method of caring for the large chicks that plays a large part in the causation of roup and "colds?" This is also true.

### Overcrowding and Chilling.

Overcrowding, dampness and filth are prominent factors in fall illnesses of chickenhood. The birds grow so rapidly we seldom notice they are packed at night in quarters that were all right in late August. The larger the bird, the more it eats, the more droppings to collect on floor or ground of the roosting coop. The wet days of autumn, the "line storm" of the local weather prophet, prevent easy drying of the floors and their contents. If there is any leak in roof it is sure to show in the down-pours of October days.

Crowded chicks, on roost or floor, sweat in the early night time, and are chilled in the cool of the morning hours of the day. If to this is also added a wet floor and much filth the prospects of future trouble are not small. Birds should not be crowded for either room for body or air to breathe. It is just as bad to limit the breathing space of the coop as to furnish too small a floor space. A close coop means foul air. Filthy air is as bad as filthy floors. In fact, you can have lots of filth on the floor, so long as it remains dry, and see no ill results from it. It is the combination of wet and filth that brings bad results along disease lines.

### Can't Stand Drafts.

Birds suffer less from currents of cold air if they are largely out of them, Birds will stand a lot of breeze if they are dry and in a clean place. No better plan has been devised than the wire-front roosting coop for growing birds. These coops, if kept clean, supply plenty of good air, yet are free from danger of taking colds. Much of the pressure of the crowded chicks can be removed by putting the cockerels into other quarters and getting off to an early market. The pullets that you look to for winter profits must have a good chance for making a healthy body or you will usually fail in your expectations. A pullet that has spent its nights in a close, damp, crowded coop has already laid the foundation for failure along egg lines.

### The Way Roup Develops.

Birds that roost in a damp coop, be it ever so clean and airy, are liable to show some "running at the nose," the first stage of simple catarrh. When the conditions are allowed to remain unchanged the simple "cold" may increase to "swelled head." Where the filth element is absent roup does not appear in these catarrhal cases. However, let the droppings accumulate, let the rain beat in, and your simple catarrhal cases will pass into what we know as roup.

### A Roomy Winter House.

Just as early as possible, certainly by the middle of October, get your pullets into the roomy winter laying house. In no other way can you so surely avoid these disagreeable diseases of the au-



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makes the best lice and mite killer for poultry—Lee's Lice Killer. A liquid—simply spray or sprinkle on the roosts. No banding of fowls. No labor or bother. Kills both body-lice and mites. Sold in every state at 35 cts. per qt., \$1 per gal. Send for free catalogue, poultry booklet and calendar, list of 3,000 agencies, etc. G. H. LEE CO., Omaha, Neb.

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tumn. If obliged to use the small coop and houses up to Thanksgiving time see that they are not only clean, dry and airy, but are large enough for the number of birds they must hold. Better sell off part of the pullets with the cockerels, if in this way alone you can plan to make room for the maturing stock.

**Bringing in Outside Sick Birds.**

There is one other way of getting catarrh and roup, and that is from some bird introduced from outside that is sick with one of these diseases. It is too common to have birds return from a winter show running at the nose! It is quite a risk to show birds from a disease point of view. Not only may they come in contact with sick birds, but the coops may have disease germs from birds of the year before. The roup germ is hard to kill and seems able to live over months of time. Whether the birds coming to you are your own, returning from the show, or new stock that you have just bought, it is always best to pen them away from other stock long enough to be sure they are not coming down with contagious sickness. Last summer one of our subscribers bought a flock of half grown chicks and when they arrived by express they had a slight running at the nose. They were allowed to run with other young stock and in less than three weeks all the chicks on the farm that came in contact with the new birds were seriously ill with "fall colds." Only two of all the birds died, but the chicks were long in getting over the trouble and matured much later than they should have done.

**Inbred Vigor.**

Then there is another side to this disease question. Birds that have recovered from catarrh or roup are more likely to have it the next year if conditions are favorable. Chicks from birds that have ever had either of these diseases fall an easy prey to wrong conditions of care and feeding. Birds of roup ancestors are almost sure to show catarrhal conditions when two-thirds grown, if, indeed, they do not have roup in all its various forms. If you have such stock, birds that are constantly going off in mucous membrane diseases, it will be better to start over again with new stock rather than try to breed out the disease tendency.

There is no satisfaction in having birds that will not stand a hard rain or sudden change in temperature. Such birds are never profitable from any standpoint. It is hard enough to stand the unnatural modern methods of egg-getting without having to consider bodily weakness.

**Time to Plan.**

Prepare now, in the middle of September, to so house and care for the maturing chicks as to avoid both catarrh and roup. If you succeed in doing this, you will get earlier maturity, more winter eggs and better breeding stock for the coming year. If your chicks are now sick with either of these diseases, better hold on to some of the best of the yearling hens for 1904 breeders. At all events do your future breeding from birds that have a history of perfect health. You can find such birds, if you have none of your own. This looks like the laying out of unnecessary money, but it will pay good returns when you

come to reckon up expense and cost another fall. Birds that can stand exposure and keep well are the money making kind.

Avoid disease rather than try "cures," is the teaching of the Poultry Keeper.

Attention is called to the ad of Harris Patrick Poultry Co., Clay Center, Neb. See ad on page 202. These people have some exceptional bargains in Buff Orpingtons, Buff Leghorns, Buff and Barred Rocks, Buff, Golden and White Wyandottes and Buff Cochins. Mr. L. P. Harris, the manager, reports a big business. They filled this season alone fifteen hundred orders for eggs, besides their trade in fowls and chicks. They breed nothing but the best. They have sixteen varieties, each kept separately on a farm so there is no chance for "mixups." As their fowls have unlimited range, it enables them to produce strong, healthy fowls that give best results. They send a catalogue free to all who will send address on a card.

**When You Go to the Fair.**

This fall when you go to your county or state fair you can make it a profitable trip if you do subscription work for Poultry Keeper. We furnish sample copies free and pay a very liberal commission. Write to us. Poultry Keeper Pub. Co., Quincy, Ill.

Do not keep a flock of "all kinds" of birds. One variety looks best, does best and is best for most of us. Pure-bred stock pays best in the long run.

**For Molting Hens.**

Many people have learned by experience that Sheridan's Condition Powder given once daily in food will supply the needed material to strengthen and invigorate sick chickens or molting hens and get the young pullets to laying earlier than anything else on earth.

Mrs. Edwin Brown, East Greenwich, R. I., says: "I could not do without Sheridan's Powder when hens are molting. I use it when chickens are small, as they often droop and die when young. To a pint of clabbered milk I add a teaspoonful of the powder, mix well and let the chicks eat all they will once a day; it does seem to be just what they need; they soon become vigorous."


I. S. Johnson & Co., Boston, Mass., will send further particulars to any one free.

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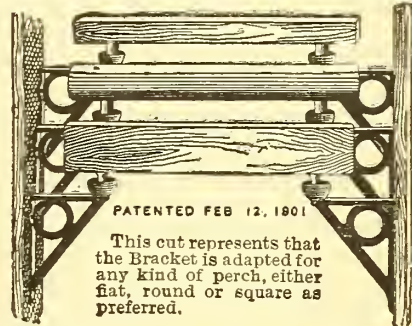
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Wm. M. Shrader, Box 94, Bucyrus, O.

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# QUESTIONS & ANSWERS

In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

### CHOLERA OR LICE.

Would like you to give in next issue what constitutes the difference in appearance of chickens that are lousy and those affected with cholera. I lost a number of chickens and was puzzled to find the cause. They were drowsy and wings hung down as if affected with lice, but I found none and dusting brought no relief. On reading up on symptoms of cholera in Success With Poultry I found them very much the same as in lousiness. I disinfected the premises and put cholera remedy in soft feed, also divided chicks into smaller flocks. There was an improvement noticeable at once and lost but a few afterwards and none at all for last two months. I noticed this fact, that while chicks affected with lice eat voraciously these affected ones had poor appetites. Whether mine were affected with cholera or not it may be of use to give your readers the symptoms that distinguish between that disease and lousiness.

Wm. M., Blomington, Ill.

The symptoms of fowl cholera are unmistakable. That part of the excrement which is voided by the kindneys, and which is normally white, is in cholera yellow. See answer to Mrs. F. J. R., under the head of "It May Be Cholera."

### CHICKS DEAD IN THE SHELL.

Please let me know what is the cause of eggs hatching as follows: Fifty eggs in an incubator at ten days' running, eight tested unfertile, leaving forty-two fertile; twelve chicks hatched strong, five weeks to-day all alive. In the thirty eggs left, the greater part pipped on the twentieth and twenty-first days and died with the large yolk sac not drawn up in the body of the chick. Please answer in your next issue.

J. G. K., Wilson, Mich.

The conditions in the incubator were not right and the chicks failed to grow whio in the shell. It may have been caused by too much or too little air, overheating or lack of heat, or by eddies of air striking the eggs. There are a thousand and one ascribed causes for chicks dying in the shell. Usually the parent stock is blamed, but this can be determined by setting some eggs under hens. If the eggs hatch well under hens

they should in an incubator. It is impossible for us to tell the exact cause of your eggs not hatching, but we are inclined to believe that it was a lack of heat.

### TRIMMING COCK'S SPURS.

Being a subscriber to your paper I would like to ask a question to be answered in your next issue. I have a fine Plymouth Rock cock, and I have noticed the hens running from him. I also noticed two looking sick, and upon examination found great sores on each side of their backs. Do you suppose they were caused from his long spurs? And if so, what would you advise me to do with him? I would like to use him another season—he is just two and one-half years old.

W. S. D., Atlanta, Ga.

Saw off the spurs with a small, fine saw, about half an inch from the leg, then with a sharp knife round the edges of the spur. Would it not be a good idea to remove him from the pen until he is again wanted for breeding purposes, or at least until the hens become healed?

### SWOLLEN HEADS AND GAPES.

Will you kindly give me a remedy for my hens and tell me what the disease is? They seem to be all right and eat. Their head and eyes swell up. Sometimes it is

only one eye, and sometimes both. Some get over it, others die. Of course they don't lay while they have this disease. I never saw or heard of it before. I have five hundred in all now left. So many die of this disease, some of gapes. What can I do for the gapes. Hope to find the answer in the next issue of P. K. The P. K. gives me lots of good advice.

Mrs. J. F. W., Leolo, S. D.

The disease may be a cold or catarrh or a case of roup. Wash the eyes and nostrils with a solution of chlorinated soda, diluted with twice its bulk of water. Give the affected bird a teaspoonful of castor oil and twice a day a pill made as follows: Balsam copaiba, one ounce; licorice, powdered, one-half ounce; piperine, in powder, one drachm. Add magnesia enough to make pills and divide into 60 parts.

For gapes, take a feather which has been stripped of the web, except at the tip, and dip it into spirits of turpentine or kerosene, and thrust it into the windpipe, turning the feather around several times. When the feather is withdrawn the worms will come up with it or be coughed out. Be careful to destroy all the worms.

### IT MAY BE CHOLERA.

Please explain in your paper how chicken cholera acts on young chickens. I lost over a dozen young ones, they were real smart at first, but after a few days became drowsy and mussy and wet looking, but still they would eat until they were so weak that they could stand no more. On examining I find their stomachs enlarged and inflamed. I kept young and old together and now after all my young ones have died, the old hens commence to get the diarrhea, look wet and mussy behind and die before I know what to do for them. Can it be the chicken cholera, and is it contagious?

Mrs. F. J. R., Glidden, Wis.

From your expansion it looks as if

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# FISHEL'S WHITE PLY. ROCKS

Last season I thought it impossible to produce better birds, but one glance at the 5000 chicks reared this season convinces one of the superior quality as compared with former seasons. Remember the leading prizes at **CHICAGO, INDIANAPOLIS, ST. LOUIS, ATLANTA, LOS ANOELLES, NEW YORK STATE SHOW, GREAT CRYSTAL PALACE AND DAIRY SHOWS OF ENGLAND, Etc., Etc.**, were won by Fishel Birds. If you want **WINNERS, BREEDERS** or **UTILITY** birds write me. Send a 2 cent stamp for my new **36-PAGE CATALOGUE** which gives half tones of my noted birds, tells how to feed and describes the **Largest Specialty Poultry Plant in the World**. If you have **White Rocks** you want more and if you have never bred them lose no time in securing some of the best "money makers" in Poultrydom." **EXHIBITION BIRDS.**

**U. R. FISHEL, Box K, HOPE, INDIANA.**





your fowls might have cholera. This fact can be determined by the condition of the droppings. In cholera that part of the faeces which are voided by the kidneys, and which is usually white, is yellow. This yellow color appears while the excrement is yet solid, the bird presenting a perfectly healthy appearance, with good appetite, and before there is any rise in the temperature. Shortly thereafter the droppings become thin and fluid, they are voided frequently and enveloped in a thin layer of mucus. In the latter stages of the disease they change to greenish or even a deep green color. The temperature of the bird rises, reaching 109 or 110 degrees, the comb loses its brightness, the appetite is lessened, the wings droop and the bird becomes inactive. Death frequently occurs without a struggle, but in some cases there are convulsions.

The disease is very contagious and the affected fowls should be separated from the rest of the flock and the premises thoroughly disinfected. Prepare the following: Powdered garlic, one ounce; aromatic tincture of rhubarb, one-half ounce; tincture of capsicum, two drachms; oil of peppermint, three drachms; tincture of opium, one drachm. Mix and shake well until the powdered garlic is thoroughly suspended. Dose, six to eight drops in a teaspoonful of water three times a day. Give scalded sour milk with a gill of Douglas mixture to every twenty-five hens.

**HOME-MADE BROODERS.**

I was looking for a good outdoor brooder sketch in P. K., but you never had one published, so if you can favor me with this sketch in your next issue I will thank you ever so much for it. Also tell me what guinea hens are good for—what they are used for in general.

E. C. Y., Milwaukee, Wis.

Plans for home-made brooders can be found on page 59, May P. K., and on page 278, December, 1902.

See answer under the head, "Guineas," in this department.

**HOW MANY BIRDS TO A PEN?**

How many birds would the following pens accommodate: If I build a house 200 feet long and 40 feet wide, dividing by an aisle three feet wide and making a pen twenty feet by eighteen and one-half feet on each side; the first story to be seven feet high and the second one six feet—for storage room; a cellar under one end to have a large heater to heat up the building? It is to be a frame weather boarded and ceiled with flooring, all windows and doors cased both in and outside. The partition for aisles will be some kind of poultry netting so the heat can come up in the

aisle. The roost will be eight feet wide and twenty feet long in the middle of each pen, the yard to be 20 feet by 350 feet, with a two-foot solid board fence on bottom and six feet poultry netting on top, making an eight foot fence. There will be a brooder house, an incubator room and a house for young chickens to roost in and for shipping purposes, besides the large one.

W. J. K., Pleasant City, Ohio.

With good care a pen 20x18½ feet would accommodate fifty hens. A beginner would do better with twenty-five in a pen.

**THE MALE AND THE LAYERS—CAPONS.**

1—Is it a settled and undisputed fact that hens will lay as many eggs without as with a cock's attention?

2—I expect to keep hens especially for eggs. Cannot the Black Minorca and White Leghorn cockerels be caponized and grown to a size which will make them readily marketable?

E. B. D., Indiana, Pa.

1—There is no difference. The male has no effect on egg production.

2—They will not make good capons. Better sell them as broilers when about three months old.

**FEATHER EATING.**

A friend who has been in the poultry business for years with great success had a strange experience last winter with the fowls eating their feathers. They were almost bare when we saw them last spring. They seemed to be strong and laid as usual. She gave them over a peck of dry feathers and they ate every one. After grass came they feathered out and seems sensible chickens once more. What is the cause and remedy for this habit?

S. B. B., Rochester, N. Y.

It is simply a habit induced by idleness, and sometimes by a lack of animal

food or by thirst. The only effectual remedy we know of is to cut the edge of the bill so that a firm hold on a feather cannot be secured. The habit spreads rapidly, so the pullers should be attended to as soon as caught in the act.

**RAISING CHICKS IN WINTER.**

1—Is the loss of chicks when raising in winter much greater than in summer?

2—How large a room will be necessary for one hundred chicks?

3—How old should they be before let out of doors in cold weather? I have raised chicks with success in warm weather, but never in cold weather.

A. E. G.

1—Yes, only the experts succeed in raising chicks in winter.

2—A room 8x12 will accommodate 100 chicks until they are four to six weeks old.

3—We let ours out when ten days old, no matter how cold it is, but do not allow them to remain out long at a time. They can be placed in cold houses when nicely feathered out; but they will not grow very rapidly if the weather is extremely cold.


**CHICKENS IN THE GARRET.**

I have two garret rooms over my kitchen, warmed slightly from the chimney and lighted by small windows near the floor. I should like to know if they would be suitable places to raise incubator chickens next March and April. Would you kindly tell me what temperature should be maintained, and what preparation of floor made? Would a home-made brooder answer? How long should the chickens be kept in such rooms?

Mrs. F. M. G., Colchester, Conn.

These rooms could probably be arranged for early chicks, but it is better

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to get them out on the ground every day, no matter how cold. This is especially necessary if you are forcing them for early broilers by heavy feeding. A home-made brooder, if it will hold the temperature, is as good as a bought one, but it is quite difficult to construct such a brooder. In fact, there are very few really good brooders made. The floor should be reasonably tight. If not, cover it with heavy paper. Over this place about an inch of sand or loam and cover this earth with chaff or cut straw. If the temperature of the room can be kept up to sixty degrees while the chicks are running out, it will answer, if they have a warm brooder to run to.

#### WHEAT FOR CHICKS.

Is cracked wheat a proper food to be given to young chicks as an exclusive grain diet, when they run with their mothers on a good range?

Mrs. H. C. M., Buchanan, Mich.

No, not as an exclusive diet. No one grain will answer that purpose. The chicks should have a variety of grain, meat and grass. They will get the latter on the range and a portion of the meat, but not a sufficient quantity. We should make the grain half wheat and half cracked corn and feed a small quantity of beef scraps. Chicks will eat whole wheat after they are two weeks old and before that time it is well to feed some rolled oats, as they give young chicks a nice start.

#### KILLING RATS.

Will you kindly let me know through your paper the best way to get rid of rats? They have carried off for me this year some two hundred White Plymouth Rocks and I am at my wit's end. None of the regular rat poisons do any good. The spring trap won't catch them and they won't enter the French wire trap. Are there not some of the essential oils or something that could be procured, even though it does cost more than the regular poison? Kindly let me hear from you if you can in your next issue.

W. P. L., Alleghany, Pa.

If traps or poison will not get rid of them we know of no other way unless you get a ferret. If you can find their holes you can exterminate them with bisulphide of carbon. Sprinkling chloride of lime in their holes and haunts is said to drive them out. Here is a poison that is highly recommended:

Warm water, one quart; lard, two pounds; phosphorus, one ounce; mix and thicken with flour; to be spread on bread and covered with sugar.

#### TUMORS.

Can some one of the Poultry Keeper tell me what this disease is? I have a Brahma hen that had a swelling on her ear-lobes. When it first appeared I lanced it. It was filled with clotted blood of greenish color. I cleansed the parts with carbolic acid and water. It got well in a few days, but continued to go farther and now it has gone all over her head and throat; her nostrils are swollen. She can hardly breathe. Is there a cure for this, and what is the disease? Can I save the hen? What is the cure? Is it contagious?

Geo. S., Bay Shore, Mich.

Sometimes warty growths and other tumors of a variety of kinds appear upon the ear-lobes and about the eyes and head. Warty tumors can be cut off with a pair of shears, but soft ones should be allowed to come to a head. The spreading of the disease to other parts was

doubtless caused by lancing the tumor. Perhaps it was lanced too deep. Wash the affected parts with a dilution of four parts of water and one part of chlorinated soda. This may effect a cure, but the chances are against it.

#### PRESERVING EGGS.

Please give me through the columns of P. K. a receipt for preserving eggs.

C. F. K., Ashton, R. I.

Procure a barrel, butter tub or stone crock; set it in a dark, cool place and pack fresh, clean eggs in it, small end down. Cover these with a solution made of one part water glass (silicate of soda) and ten parts water. This will in time form a white, jelly-like mass but will not injure the eggs, as it can be washed off. The eggs will keep six to ten months.

#### PROBABLY ULCERATION.

Will you please tell me what is the matter with my young cockerels. Their heads are swelled on one side and the throat is swelled some. They seem to be healthy otherwise and eat heartily.

F. E. G., Sheldon, Mo.

From the meager description we are inclined to think your cockerels have ulceration, although the trouble may be caused by fighting. Make a dilution of four parts of water and one part of chlorinated soda or fluid carbonate, and wash the affected parts well with the mixture, and swab the throat and tongue if affected.

#### SORES ON BARE CHICKENS—FEEDING.

My chicks shed their first feathers, but do not get their new ones, but remain nearly nude. The skin is very red and after awhile gets scaly. I have used sev-

WINSLOW IS NOT SATISFIED UNLESS YOU ARE. MY  
**BARRED ROCK COCKERELS**

are vigorous sons of vigorous parents. Dam (118 eggs in 6-months) mated to a son of VULCAN, (1st cock Boston, 1902). The price is right. Write,  
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Rose and Single Comb Brown; Rose and Single Comb White. None can excel as layers or winners. White Wyandottes and Bradley Barred Rocks of highest type. Collie Pups. Catalogue.

W. W. KULP, Box 30, POTTSTOWN, PA.

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FRANK MYERS, Mfr., Box 34, Freeport, Ill.

Write for B. P. Rock circular and sample band.

**YOUNG CHICKS** Thoroughbred and market. Two to six weeks old. Shipped safely any distance.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

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In a Victor Incubator always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher

is the **VICTOR**  
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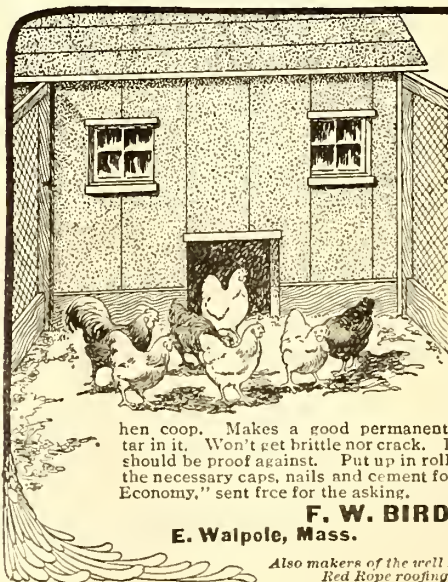


#### White Wyandottes The Sanborn Kind

This should appeal to your pocket book. Write me your needs.

DR. N. W. SANBORN, Box 66, Bellingham, Mass.

I wish you could see these birds—they have the real buff color. They have been bred for winter eggs—you know their record. I have twice the usual number of chicks and half of them must go before November, for lack of house room.



hen coop. Makes a good permanent roof. It is a heavy felt (not paper). No tar in it. Won't get brittle nor crack. Proof against everything a reliable roofing should be proof against. Put up in rolls of 216 square feet; each roll contains the necessary caps, nails and cement for laying. Samples and book, "Building Economy," sent free for the asking.

**F. W. BIRD & SON,**  
E. Walpole, Mass. Chicago, Ill.

Also makers of the well known "Neponset"  
Red Rope roofing and siding.

#### Keep the Hens Warm

but don't build a thousand dollar house for a thirty cent hen. The most economical roofing and siding is our famous

#### PAROID Ready Roofing It Lasts.

Specially prepared to meet the poultryman's needs. Good enough for your best building. Low cost enough for your



eral remedies, but none proved effectual. I made an ointment of sulphur, lard and coal oil which gave better results than anything else I tried, but it was not satisfactory. The chicks grow and are in good condition otherwise.

My hens are in excellent condition. Never saw hens look better or lay better. My feed for them is as follows: Morning, feed, whole wheat; noon, wheat bran; evening, mash as follows: Two parts corn chops, two parts wheat bran, one part cut green bone, one part butcher's cracklings (run through a bone mill), seasoned with salt, and usually fed perfectly dry. Once in a while I pour boiling water over it and let stand twenty minutes, just so it is nice and crumbly and give them clean fresh water twice a day—morning and at three o'clock p. m.—with some green feed nearly every day. Could I improve on my feed? And, by the way, I think an investment in a bone cutter the best any one can make in the poultry business. G. N. R., Webb City, Mo.

Anoint the scaly places on the chicks with vaseline.

Your feed is all right, but it could be improved by giving plenty of green food every day. We should omit the noon feed unless it were green food of some kind.

**LEG WEAKNESS.**

Please let me know in your next issue the cause and cure of leg weakness and accept my thanks. My pullets are five months old and those that stand high on their legs are inclined to leg weakness. The others are fine and strong.

A Subscriber.

Leg weakness is caused by the fowl growing too fast, from muscular weakness or a deficiency of bony matter. Gout is often mistaken for leg weakness, but it may be distinguished by the legs and feet being hot, with evident swelling, while in leg weakness they are normal. Feed bone dust freely and avoid all foods that tend to produce fat. Give the following pill three times a day: Sulphate of iron, one grain; strychnine, one-sixteenth grain; phosphate of lime, five grains; sulphate of quinine, one-half grain. Unless the pullets are quite bad a cure can be effected without the use of medicine, by proper attention to the diet.

**INCREASING THE EGG YIELD.**

I have a question which I would like answered. Have forty hens—half Barred Rocks, the others Leghorns. Have been laying since March, but have fallen to a thirty per cent egg yield. Feed in morning, two quarts whole cracked corn, wheat and oats mixed; at night, same, save every alternate night I feed a mash of one-half bran, balance corn meal and middlings. They have free range, both dry, sandy and good bottom land with pure water. What can I do to bring them to a fifty per cent production? Please reply in early number and oblige.

H. L. P., Plessis, N. Y.

If you would add one pound of beef scraps to your mash it would greatly improve it. The hens should have meat of some sort every day, and what they get on the range, in the shape of bugs and worms, is not sufficient. If the hens are molting give them a few sunflower seeds, if convenient, and put a little linseed meal in the mash.

**GUINEAS.**

Please answer in next Poultry Keeper what the Guinea hens are used for, and what people keep them for?

E. C. Y., Milwaukee, Wis.

Some people keep them just for the purpose of maintaining a nuisance; others for their eggs and as a protection to their fowls. Guineas are very watchful

and will set up a cry of alarm on the slightest provocation. They are quite good layers of rather small, but finely flavored eggs. On some farms a few guineas may be of service, but they are of no value to the village poultryman.

**EGGS—ENLARGED CROP.**

Will you kindly furnish me information on the following:

1—I notice that almost all my eggs, when fried, and I presume also when prepared in other ways, have a circular depression in them. When appearing in the yolk it looks like a small white eye, but when in the white it is simply hollow; in either event it gives the egg a somewhat (to me) repulsive appearance. The chickens (Plymouth Rocks and White Wyandottes) seem in the best of health and are laying splendidly.

2—Three of my Plymouth Rocks have crops which hang down so low as to interfere considerably with their walking. What causes this, and how can a remedy be applied? Are the eggs before mentioned wholesome?

A. C. R., Riverdale, Chicago, Ill.

1—Is it really anything more than the blastoderm? Sometimes foreign substances are found in eggs, but these would not be alike in all eggs. We are inclined to think it is simply the blastoderm. When the egg is intact this blastoderm or germ skin should be on the top of the yolk, surrounded by a coating of thin albumen. The eggs are no doubt wholesome.

2—The crops of fowls often become enlarged from various causes, the most common being from fermentation of the contents, which produces a superficial inflammation known as catarrh of the crop. This condition may be recognized by the appearance of a swelling in front of the breast, which is soft to pressure, and sometimes so very soft and drum-like that it is evident that it contains gas. The appetite is entirely lost or becomes abnormal, the fowl is mopey, its feathers are ruffled and it may attempt to vomit. If the crop is pressed upon forcibly sour and offensive smelling matter may be expelled through the mouth.

If this condition is found to exist the irritant, fermenting or putrifying contents should be expelled by pressure from without while the fowl is held with the head down. Then two grains of salicylic acid dissolved in water should be administered to check further fermentation. The fowl should be kept from food for a day or so and usually this is all that is required. In bad cases one drop of hydrochloric acid diluted in two teaspoonfuls of water may be given every day for a week allowing very little food and none for at least thirty-six hours.

**WHITE WYANDOTTES**

Short Beaks, Short Legs, Red Eyes, Short Necks, Yellow Beaks, Full Breasts, Short Backs, Yellow Legs, Correct Combs. White all over.

E. H. SMITH, Board of Trade, Duluth, Minn.

**KEEP POSTED**

as to what is going on in the east. You can get the leading monthly poultry paper of New England from now until April 1, 1904 for only 10 cents by mentioning where you saw this ad.

POULTRY STANDARD, STANFORD, CONN.

**White, Golden, Silver Wyandottes,**

B. and W. Rocks; White, Brown Leg.; Black Hamburgs, Light Brah.; Leghorns; R. C. B. Bants.; Bronze, White, Narra. Turkeys; Geese, Ducks, Scotch Collie Shepherd Dogs. Prices reasonable. Best quality. Prompt service. Low express rates. Satisfaction guaranteed.

Chas. McClave, Box 700, New London, O.

**S. C. White Leghorns.**

Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct. 1902, Charlotte, N. C., Jan. 1903. A beautiful flock of early hatched youngsters to select from, all from our yard of Prize Winners. Single birds, pairs, trios and pens to suit. Write at once for circular describing our winnings and low prices for birds. Satisfaction our motto.

WILBER BROS., Box E, Petros, Tennessee.

**"LITTLE CHICKS"**  
Is the title of a new book which tells how to successfully hatch and raise little chicks. The only book published on this subject. Over 160 pages. Price 50 cents postpaid. Descriptive circular free. Agents wanted. Excelsior Wire and Poultry Supply Co., Dept. K, 22-28 Vesey St., New York City.

**GLIMAX LEG BANDS**  
Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied. Note Reduced Prices, 12 for 20c; 25, 35c; 50, 60c; 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples. The Keyes-Davis Co., Ltd., Mfrs. Battle Creek, Mich.

**HOW TO GET \$2 EGGS**  
For 50c Per Sitting.

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.

W. F. CHAMBERLAIN, (The Perfect Chick Feed Man) KIRKWOOD, MO.

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**PEEP O'DAY**  
BROODERS AND SPECIALTIES  
in the hands of leading poultrymen everywhere give best satisfaction. Leo J. Riggs, of Grand Rapids, says "I lost three chicks out of 130 in two brooders. They were snowed under for three days."  
**CORNELL INCUBATORS**  
stand at the head. Valuable poultry information free for your name and address on postal card.  
Cornell Incubator Mfg. Co.,  
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## POINTS ON FEEDING INCUBATOR CHICKS.

Editor Poultry Keeper.

I see you advise us poultrymen to write you something about how we feed and care for our young incubator chicks to successfully raise them. We have no trouble in this respect, so I will tell you how we handle them. First we select our best eggs from the finest old hens that have been bred to young cockerels. We keep the incubators in the cave at the usual temperature and about the eve of the twenty-second day remove the chicks to the brooders.

Now is when we must attend to business. We have the brooders clean, with plenty of sand in them, and we have a screen covered pen sided up against the brooder eight by ten so the chicks can go out and in at pleasure. We have brooders under shade trees. We carefully look over the chicks and kill all the cripples and worthless looking ones. We cool down the brooder to ninety degrees after the chicks have been in it half an hour. We place before them cool tea for a drink and we give them finely chopped boiled eggs, two eggs for about sixty chicks.

The next morning we throw out all the eggs that may be left and give them a feed of corn bread made in the common way, throw open the brooder door and set the feed and water in their pen. Now the chicks have to go out in their pen to feed and drink. We throw in to them a big handful of finely cut clover leaves, and I will say we feed cut clover leaves two or three times each day until they go on pasture.

The second day we feed corn meal and pinhead oats, equal parts, made into bread and ground up for them. The third day we feed bread soaked in water and squeezed dry—common wheat bread. We feed the first three weeks every two hours all that the chicks will eat at a time in ten or fifteen minutes. We begin feeding at eight and quit at four.

You see we have a different feed each day, and the chicks get back on their first feed in three days, and so on during the first three weeks. If this is of interest to you I may some time tell how I feed after three weeks on until they are six weeks old. I have plenty of young stock for sale, some very fine. Could furnish some splendid early trios, as I have over six hundred young stock.

H. C. Beebe, Banner, Ill.

## DRY FEED OR MASH?

I don't know of any subject that is of more interest to the poultryman than the one that helps him to feed and care for his young stock in a proper manner so that a good percentage of the chicks hatched may be raised to maturity. It is a comparatively easy thing to hatch a good number of chicks, but after they are hatched there remains at least two-thirds of the work yet to be done. It takes thought and care and good management to get a large number of chicks to maturity, and in such a condition to be a profitable flock when they reach maturity.

We are converts to the dry feed system. It makes the work more simple in our yards. It raises a larger percentage of chicks, makes better show birds, makes larger bone, and is in our case

away ahead of the moistened feed. We use bran, corn meal, cracked wheat, cracked corn, rolled oats and pinhead oatmeal. Of course when we use rolled oats we leave out the oatmeal. The fact that dry feed is always ready to use makes it still more valuable.

Some of our White Wyandottes fed on this dry feed will scale well up to four pounds and possibly some will go over that weight. They are the picture of health and very strong in bone. We use in our feed a little beef scraps.

This is not only our own experience, but the experience of other poultrymen in our locality with whom we have talked and have persuaded them to use dry feed, some of them raising a very large percentage of chicks hatched, and I think it would be quite a task to persuade them to go back to the old system of feeding. Poultry papers are setting forth the advantage of dry feed and we are pleased to note that Poultry Keeper is in line. We are depending on this method of feeding to put our birds in prime condition for the fall shows, and I don't think we will be disappointed, if present indication go for anything.

D. C. Adams.

North Haven, Conn.

## WE NEED YOUR HELP.

We are eager to get all the helpful matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise

chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each year is no information, but when you tell how you made the hens lay then you tell something of value.

We find the advertised lice killers cheaper and better than any other remedies for lice, and we have tried lots of remedies at that.

Pullets  
EGGS  
Wanted  
NOW.

For the next four months the demand will be large. Get your pullets to laying by October. A well-filled egg basket now is what makes poultry pay. You can obtain these much desired results by good care, proper foods, and the use as directed in the morning mash of

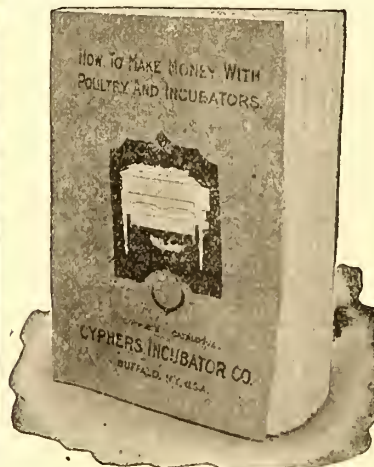
Sheridan's Powder.

It causes perfect assimilation of the food elements needed to form eggs in the winter.

If you can't get the Powder send to us. One pack, 25 cts; five, \$1. Large can, \$1.20; six, \$5. Exp. paid. I. S. JOHNSON & CO., Boston, Mass.

## How to Make Money with Poultry and Incubators

Is the title of the Cyphers Incubator Company's **Complete Catalogue and Poultryman's Guide for 1903**, which thousands of people have pronounced to be the finest and most valuable **Year Book** we have issued thus far, and we have been pace setters in the production of **Valuable Poultry and Incubator Literature**. This book consists of 196 pages, 8x11 inches in size, is profusely illustrated with over 300 half-tones made from photographs, showing the **Largest and Most Successful Poultry Plants** in the United States, Canada, England, New Zealand, South America, etc., and contains **Twelve Special Chapters**, covering all branches of profitable poultry keeping, **Each Written by an Expert** expressly for this book, as follows:



- I Starting with an Incubator
- II Handling Chicks in a Brooder
- III Feeding the Chicks
- IV Duck Producing on a Large Scale
- V Broiler Raising
- VI Profitable Egg Farming
- VII The Egg and Poultry Combination
- VIII Egg and Fruit Farming
- IX Scratching Shed House Plans
- X Incubator Cellar and Brooding House Plans
- XI Feeding for Eggs
- XII Standard Bred Poultry

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But we respectfully ask you to send ten cents in stamps or silver to pay postage. Positively and emphatically, it should be worth **Ten Dollars** to every earnest man or woman who wishes to do well in the poultry business. If we did not mean this, or did not believe you would agree with us on examining the book, we could not afford to say it, for we depend on this Guide and Catalogue to win your friendship.

Send ten cents for book No. 28 with this understanding and we will abide by your decision.

### Separate Poultry Supply Catalogue for 1903, Free,

postpaid, to any address. 64 pages, 8x11 inches. Illustrates and describes "Everything for the Poultryman"—120 standard articles, including Poultry Foods, Clover Products, Insecticides, Bone Cutters, Food Cookers, Latest and Best Poultry Books, etc.

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**CUTTING AND CURING CLOVER HAY.**

There is so much talk about clover feed for winter. When is the time to cut it, first or second crop? Do you cure it like hay or put it away green? Is it all right to put it in the barn loft and cut it up as needed?  
Herman Cristensen.  
Minnesota.

Clover is one of the best foods for poultry, as it can be stored and used as green food during the winter. To obtain the best results, clover should be cut from early to full bloom, for not only at this stage of its growth is the largest per cent of food value in the clover, but if cut at this time a second (and in favorable seasons a third) crop can be harvested. The following clipping from Colman's Rural World, "When to Cut Clover," treats the subject in full:

"The nitrogenous elements of clover are the most valuable for feeding purposes, and it is therefore essential to cut the clover at the time of their greatest development. Cutting clover at just the right time and curing it so as to prevent the waste of those valuable elements are among the fine arts of farming, for when so cut and cured clover is one of the cheapest stock foods that the farm produces. The dissipation of the valuable nutritive elements of clover and the increase of woody fibre between full bloom and the ripened stage constitutes a loss that no farmer can afford to incur. Prof. Harry Snyder writes as follows regarding the composition of clover and its various stages of growth:

"The development of the clover plant, the second year after seeding, shows that the time from early to full bloom is the period of the greatest activity in the plant. When clover is very young, and the flower is yet invisible, only about ten per cent of the organic matter has been formed, and this organic matter is very rich in nitrogen. When the clover blossoms first appear about one-third or less of the dry matter of the crop is present. From early bloom until full bloom over sixty per cent of the dry matter is added to the crop. From the time of full bloom until maturity no new materials are added to the crop. Between early bloom and full bloom over sixty per cent of the nitrogenous compounds are formed, when there is also a marked change of nitrogenous matter from amide to proteid forms.

"The composition of the leaves and stems shows that when young nearly one-third of the dry matter is nitrogenous material; this is a very high amount, even approaching the composition of animal bodies. The composition of the clover at different stages of growth shows that the largest amount of nitrogenous materials are obtained at the time of full bloom; these nitrogenous materials are then present to the greatest extent of maturity. The largest amount of dry matter is obtained at the end of the flowering period. This dry matter, however, is richer in non-nitrogenous compounds and poorer in protein. (The early stages of the clover's development are not so prominently devoted to the formation of nitrogenous compounds as in the case of the wheat.) Clover hay is one of the coarse fodders which are quite rich in protein. There is nearly twice as much protein in clover as in timothy hay."

One more point in cutting the crop early, if the ordinary red and white clovers are allowed to form and mature seed their mission is performed and the clover will die out, but if cut often the life of the plant is prolonged.

The clover should be mowed the latter part of the day when it is free from dew and moisture, for in so doing several hours will be saved in the curing. The following day, after the dew is well dried off and the clover has wilted, shake up and turn. If the sun is hot (and it should be, with a good breeze blowing) let the clover dry till the leaves are nearly dry. If left too long the leaves will crumble and be lost in the handling of the clover. Turn it once more and give it another hour of sunshine and it is ready to be bunched into cocks.

Make the cocks rather small letting the hay lay lightly so the air can get into the cocks as much as possible. This work should all be done before the late afternoon and while the sun is still hot, as the clover is curing all the time. If cocked after sunset or late in the afternoon the dew is falling. To cure well in the cock over night hay should have as much sun heat bunched up with the hay as possible then it will be throwing out moisture to the outside of the cock and will cure a good deal all night.

The next day the cocks will have settled a good deal. As soon as the dew is well dried off turn the cock completely over, not all at once in a bunch, but taking a

little at a time and shaking it lightly. The new cock will have the top of the old one, which is light and dry, for a bottom; and the bottom of the old cock, which is heavy and least cured of any part of it, will now be at the top, where it will get more air and heat. In the middle of the afternoon this process should be repeated.

The third day open out the cocks into three or four smaller bunches, but do not shake out. If the sun is hot after thirty minutes turn carefully, for now the clover is nearly cured and the leaves crumble off easily. A few minutes' more sun and it is ready to go to the barn. The care taken in opening the cocks into the smaller bunches brings in its returns, for the bunches are just a good forkful and can be handled with very little waste from the leaves crumbling and the hay is much less bulky to handle. In placing it in the mow or on the scaffold the higher you get it in the barn the better; do not tread the hay, but let it lay lightly.

Clover cut, cured and harvested as above should come out of the mow in the winter sweet and nice. In some parts of the country and under very favorable weather, the clover can be cured so it can be harvested the second day.

To get the best results in feeding clover to poultry, it should be cut up very fine, using twice the bulk of cut clover to bulk of grain, corn meal, wheat middlings or whatever is to be fed with it. This should be thoroughly scalded or cooked. When it is to be fed in the morning the mess should be prepared the evening before and allowed to stand in the kettle over night. Enough water should be used to make the mash moist. If the mash is so dry as to crumble, it is apt to be wasted. Clover fed in the form here outlined, or in the shape of meal, is a wonderful egg producer for hens.

**CUT PRICES ON STOCK AND EGGS.** 20 eggs \$1. Pure bred Barred P. Rocks, White Wyandottes, S. C. White and R. C. Brown Leghorns, S. C. R. I. Reds, \$1 per 15. Good stock for sale. RIVERSIDE POULTRY YARDS, Box D, Delaware N. I., C. B. HUFF, Prop.

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# SUREKIL Lice Paint.

**The Standard Remedy for all Kinds of Poultry Vermin. Kills Lice and Mites. Saves Money and Trouble.**

Lice breed more rapidly in the summer months than at any other time—they injure the growing chicks, retard their growth and even kill them. Fowls suffer so much from the vermin that when fall comes they are not in fit condition to molt properly. Some die and others prove a disappointment in the breeding pen. Surekil Lice Paint prevents this. It is easy and safe to use, destroys vermin on poultry and all domestic animals. The fumes do the work; it is not necessary to handle the birds. Keeps destructive insects from attacking fruit trees and plants. As an insecticide it has no equal.

**PRICES:**—1 qt. cans, each 35c; 2 qt. cans, each 60c; 1 gal. cans, each \$1; 5 gal. cans, each \$4. Insist on your dealer supplying Surekil; accept no substitute as being "just as good." Agents wanted. (For agency, apply to Home Office, Buffalo, N. Y.)

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**EXPERIENCE OF AN IOWA POULTRY BREEDER.**

Some time ago I promised the editor to write something on the poultry subject. If this is worthy of space, use it; if not, there will be no hard feelings. I hardly feel competent to put myself on a footing with the authorities who contribute to Poultry Keeper's valuable columns.

First of all, I wish to state to the readers of the Keeper that it is the best advertising medium we ever struck. We have been using only small classified ads and it has done us a power of good. It put us in a position to do more business in a given length of time than we ever did before and from any other source. Our surplus stock was sold off in short meter. However, we are now well supplied with young stock and expect to do a fine business.

Our neighbor, J. L. Wilson, says the Keeper is boiled down and sifted out, only articles of value and help to the readers being printed. We have had experience in farming and stock growing and I will say right here that nothing pays better than poultry if properly cared for and fed for best results. The summer of 1903 was a disastrous time for the farmer. The floods of July required our entire force to do the work on the farm. The poultry was left to almost take care of itself and we figured that our loss by neglecting the poultry was as great as from any other crop on the farm.

We have several makes of incubators, which I find is a bad practice, as no two incubators will run the same in the same place. We have made a thorough test of this and find we know whereof we speak. Any of the standard make incubators will do good work if put in the right place and run by an intelligent person. Children cannot run the poultry business and operate incubators, and I simply ignore such claims when I see or hear them made. If you want an incubator, buy from a maker near at home. When you get ready to run it take several days to regulate it and don't be in too big a hurry to start. Begin right and you will end right nine times out of ten. Don't put in one hundred eggs and expect one hundred chicks. Charge a portion to yourself and a portion to infertile eggs. We figure on 250 mature chicks from one thousand eggs, and we do not miss it very far.

As to the brooding, keep the chicks warm, clean and dry. I am not here to tell you how to do this, as some have

better accommodations than others. Once we were crowded for room and in order to save the chicks we used the office and one room of our dwelling, which was against our taste, but was found to be a necessity when the brooder house got too full.

As to feed, steel cut oats is the best and cheapest food on the market for the first two weeks of the chicks' lives; then cracked wheat, then whole wheat, bone meal and beef scraps. If you have not enough poultry to keep you busy have a garden to work in at spare times.

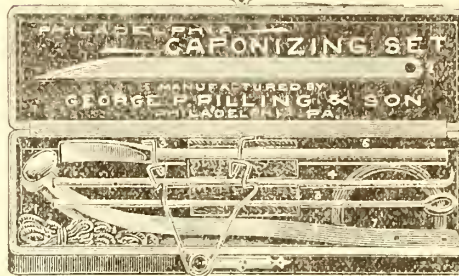
Keep an eye on your incubator, watch the elements, keep the chicks and breeding stock comfortable and if you do not make a success of it study your Poultry Keeper and you will learn the reasons why.

J. B. Jennings & Son.

Polk City, Iowa.

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of



instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

At last the report that A. F. Cooper, of the Prairie State Incubator Co., Homer City, Pa., has gone to England can be confirmed. He sailed August 29th and will be away a month or six weeks. The London agent of the company has been anxious to have him come over for more than a year, and early last year it was reported that he had gone, but the report was untrue.

The London agency, besides controlling the British Isles, has the countries of western Europe. The business has grown to such an extent and become so important that Mr. Cooper was finally convinced that it should receive his personal

attention. The probability is that he will take a trip through France, Germany, Holland, Denmark, and possibly extend it through Norway, Sweden, Switzerland, Italy, Spain and Portugal, to visit the sub-agencies of the London agent in those countries, accompanied by Mr. Colt, and learn from personal observation the needs and the possible demand for the future. From the way the demand from those countries has increased during the past year, the indications all point to an enormous business in the near future.

**TRY AN IDEAL.**

J. W. Miller's incubator—made by the man who knows. It is really self-regulating.

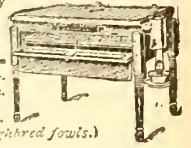
**30 DAYS FREE TRIAL**

We get no money until you are perfectly satisfied. Poultry Book Free.

J. W. MILLER CO.,

Box 19, Freeport, Ill.

(Poultry supplies and thoroughbred fowls.)



**\$5 CHAMPION BROODER.**

If you are in the poultry business either for pleasure or profit, you wish the best. If you buy a Champion Brooder you are sure of having the best and one which is "known the world over by its works." We are the largest manufacturers in the world. Cat. free. J. A. BENNETT & SON, Gouverneur, N. Y.

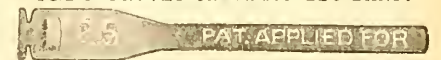


**New Model No. 7**  
**Stearns Bone Cutter**  
 Is admittedly the best. Only one that cuts fine enough for chicks. No splinters nor chunks. Ball bearings; automatic feed.  
**YOUR MONEY BACK IF NOT SATISFACTORY.**  
 Send for free book and special trial offer.  
**E. C. STEARNS & CO.,**  
 Box 48, Syracuse, N. Y.

**WANTED**

Experienced, practical poultry raiser to engage with advertiser in establishing an up-to-date poultry plant. Must be intelligent, thoroughly acquainted with all details of the business and come highly recommended. State age, experience, whether married or single, present employment and full particulars. To be compensated on profit sharing basis. Address, P. O. Box 1019 St. Louis, Mo.

**THE IMPROVED CHAMPION LEG BAND.**



Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock, they can't lose off. Postpaid 12-15c; 25-30c; 50-50c; 100-80c; initials extra, 10c. per 100  
 The SUPERIOR is securely locked, can't lose off; six sizes. State breed and sex. Postpaid 12-20c; 25-35c; 50 65c; 100-81; sample for stamp. Cir. free.  
**T. CADWALLADER, Box 704, Salem, Ohio.**

**Study Poultry Culture**

**Poultry Profits**  
 come only to those who proceed along right lines. There's no money in it for you unless you know your subject.

**Our Business is Teaching**

With singleness of purpose the best talent we can procure is engaged in putting people on the road to success in poultry raising. We concentrate on one subject—Poultry. We know our subject and teach it in all its branches.

**Fifty Instructors**  
 compose our teaching force. Every one is a specialist—practical men—not mere theorists. Qualified by close study of poultry conditions and principles, they made successes themselves and know the way.

**Our Free Prospectus** will tell you of our plan of education which teaches you in your own home, without loss of time from your business, how to increase your income with poultry keeping as a side line, how to make a success with them as a business, or how to derive more pleasure from them as a fancy. Ask for it. Mailed free.

**American Poultry Institute., Dept. P13, Rochester, N. Y.**



# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected, Bred over 20 years, GREATEST EGG LAYING STRAIN IN EXISTENCE. LARGE, PURE WHITE, FANCY MARKET EGGS. STANDARD QUALITIES. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME. Unexcelled for INTRODUCING BLOOD or as FOUNDATION STOCK. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. Stock for sale, both old and young. Illustrated circular free if you mention Poultry Keeper.

H. J. BLANCHARD, GROTON, NEW YORK.

## THE PRESERVATION OF EGGS.

[From 1903 Report of Poultry Manager of Central Experiment Farm, Ottawa, Ont.]

This fifth season's work with egg preservatives furnishes further corroboratory evidence of the value of lime-water. Of all the solutions experimented with, it has proved the most satisfactory. It is certainly equal to water-glass in effectiveness and is to be preferred to this much advertised preservative on the grounds of economy and ease of preparation.

The following note regarding the preparation of the lime-water may be found useful:

The solubility of lime at ordinary temperatures is one part in seven hundred parts of water. Such a solution would be termed saturated lime-water. Translated into pounds and gallons, this means one pound of lime is sufficient to saturate seventy gallons of water. However, owing to impurities in commercial lime, it is well to use more than is called for in this statement. It may not, however, be necessary, if good, freshly burnt quick-lime can be obtained, to employ as much as was at first recommended, namely, two to three pounds to five gallons of water. With such lime as is here referred to, one could rest assured that one pound to five gallons (50 pounds) would be ample, and that the resulting lime-water would be thoroughly saturated. The method of preparation is simply to slack the lime with a small quantity of water and then stir the milk of lime so formed into five gallons of water. After the mixture has been kept well stirred for a few hours it is allowed to settle. The supernatant liquid, which is now "saturated" lime-water, is drawn off and poured over the eggs previously placed in a crock or water-tight barrel.

As exposure to the air tends to precipitate the lime (as carbonate), and thus to weaken the solution, the vessel containing the eggs should be kept covered. The air may be excluded by a covering of sweet oil, or with sacking upon which a paste of lime is spread. If after a time there is any noticeable precipitation of the lime, the lime-water should be drawn or siphoned off and replaced with a further quantity newly prepared.

It is essential that attention be paid to the following points:

1. That perfectly fresh eggs only be used.

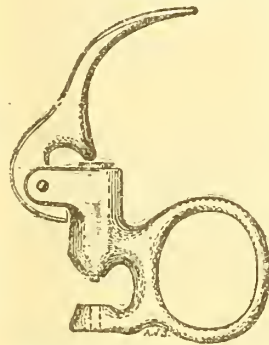
2. That the eggs should throughout the whole period of preservation be completely immersed.

Although not necessary to the preservation of the eggs in a sound condition a temperature of forty degrees to forty-five degrees no doubt materially assists toward retaining a good flavor, or rather in arresting that "stale" flavor so characteristic of packed eggs.

Mr. T. E. Orr, secretary of the American Poultry Association, has announced

that the next meeting of the association will probably be held at Rochester, N. Y. February 2, 1904—definite announcement later. This selection is in accordance with the vote of the executive committee of the A. P. A., giving Rochester forty-two votes and Minneapolis seventeen.

### P. K. Poultry Marker.



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the

web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

**GET THE DANDY**

**THE DANDY BONE CUTTER**

will double your egg yield. Thousands of poultry raisers say so. It costs less, turns easier, cuts faster and lasts longer than any other. Price \$5.00 up. Sold on 15 Days' Free Trial. Send for book and special proposition.

**STRATTON MFG. CO.,**  
Box 48, Erie, Pa.

WANT \$2?

For \$1.25

HERE 'TIS!

Success with Poultry \$1.00  
Poultry Keeper . . . . .50  
Reliable Poultry Journal . . . . .50

Will send all three for \$1.25

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Have You Ordered My Catalogue?

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Do So

At Once.

It is a money saver.

**C. J. HOUSER,**  
Subscription Agent,  
228 Oak Street, California, Missouri

## Used Trap Nests Fifteen Years Ago—A Typical Experience.

Mr. F. O. Wellcome, Yarmouth, Me.  
Before I got your "Ideal" trap nests I had tried more than a dozen different makes, and some of my own invention, but, being neither a mechanic nor a genius (although I have some capacity for taking pains) none of them were satisfactory. Now I have nice, neat, uniform nests with "Ideal Trap Attachments." They give perfect satisfaction. You know it; so do all those who use them. Two hens or two eggs are never found in an "Ideal" at one time.

I have spent hours and days in trying to devise a good trap nest, but after using the Ideal for more than a year I can say, without equivocation or mental reservation, that they are the most satisfactory nests I ever used. They are entirely satisfactory.

My books show that I have expended nearly one hundred dollars in trap nest schemes, so I must have tested a few. I began to use traps about fifteen years ago.

Believing that the Ideal will win its way on merit, I am, Yours very truly,  
W. K. Hayes.

Henleyville, Calif.  
[P. K. readers will be interested in ad of the Ideal Trap Nest, which appears on page 202.]

**This Lightning Lice Killing Machine**

Kills all lice and mites. No injury to birds or feathers. Handles any fowl, smallest chick to largest gobbler. Made in three sizes. Pays for itself first season. Also Lightning Lice Killing Powder, Poultry Bits, Lice Murder, etc. We secure special low express rates. Catalog mailed free. Write for it.  
**CHARLES SCHILD, Ionia, Mich.**

**The Automatic SURE HATCH.**

with a new regulator that really regulates—the greatest improvement in 10 years. Get one on 30 days free trial and decide for yourself. Large catalog and poultry book free.

**SURE HATCH INC. CO.,**  
Clay Center, Neb.,  
or Columbus, Ohio.

**30 Days Free Trial.**

## "A POULTRY COURSE FOR 50C."

200 EGGS  
A YEAR  
PER HEN

The third edition of my book, "200 Eggs a Year Per Hen," is now ready. Revised, enlarged, and in part rewritten. 80 pages. Contains among other things the method of feeding by which Mr. S. D. Fox, of Wolfboro, N. H.,

won the prize of \$100 in gold offered by the manufacturers of a well known Condition Powder for the best egg record during the winter months. Simple as a, b, c,—and yet I guarantee it to start hens to laying earlier and to induce them to lay more eggs than any method under the sun. The book also contains recipe for egg food and tonic used by Mr. Fox, which brought him in one winter day 68 eggs from 72 hens; and for five days in succession from the same flock 64 eggs a day. Mr. E. F. Chamberlain, of Wolfboro, N. H., says: "By following the methods outlined in your book I obtained 1496 eggs from 91 R. I. Reds in the month of January, 1902." From 14 pullets picked at random out of a farmer's flock the author got 2999 eggs in one year,—an average of over 214 eggs apiece. It has been my ambition in writing "200 Eggs a Year Per Hen" to make it the standard book on egg production and profits in poultry. Tells all there is to know, and tells it in a plain common-sense way. Price 50 cents. Three books \$1. Why not order three, sell two to friends, and get your own copy free? Please mention Poultry Keeper. **EDGAR WARREN,** Hampton, N. H.



## BREEDERS' CARDS

Four cents per word for one month; 8c per word for 2 months; 9c per word for 3 months; 10c per word for 4 months; 24c per word per year. No ad inserted for less than one dollar. Numbers and initials count as words. Terms, cash with advertisement. Be careful to count the words correctly and thus avoid delay. Copy of advertisement, **PLAINLY WRITTEN**, should reach this office by the first of the month.

### ANDALUSIANS.

ANDALUSIANS. Fancy blue young stock \$1 up. Culls 75c. K. L. Chatterton, Freeville, N. Y. 8-3

### BANTAMS.

B. B. GAME BANTAMS—A few breeding hens, \$2 each. A few choice cockerels and pullets, \$3 to \$5 each. Cockerels not trimmed. A few show coops for sale cheap. L. F. Diddie, Chesterton, Ind. 9-4

### BLACK JAVAS.

BLACK JAVAS exclusively. One hundred choice cockerels for sale. All orders received before December will be filled at \$1 each. Have your order booked now. Gerald J. Townsend, Poynette, Wis. 9-4

### LEGHORNS.

WYCKOFF, BLANCHARD, SINGLE Comb White Leghorns. Breeding stock from above parties last fall. No other fowls on farm. 300 choice cockerels; large, vigorous, high scoring. Good enough to head the best pen in America, \$1 to \$3, as to quality and number wanted. Pullets, fine as silk. Write for particulars. C. N. Reynolds, Canton, Pa. 7-3

HOWARD L. CRISP, Relay, Md. Eggs from heavy laying White Leghorns, bred from prize winners, \$1 per 15; \$5 per 100.

ROSE COMB BROWN LEGHORNS. Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island, N. Y. 6-x

IT WILL PAY YOU to send for my illustrated Circular of Brown Leghorns if you like to buy cockerels of the best laying and exhibition strain known for \$1 each. H. M. Moyer, Bechtelsville, Pa. Route 2. Lately of Shanesville. 8-12

### LANGSHANS.

BLACK LANGSHANS from my yards won last winter for myself and customers at both Dayton and Pittsburg. Get my prices before placing your orders. S. W. Brackney, Santa Fe, Ohio. 9-4

BLACK LANGSHANS. Silver Cup State Fair and State Show winners, scoring to 95%. Old and young stock fit to show anywhere. Write at once. A. L. Nokes, Springfield, Ill. 9-12

### MINORCAS.

SINGLE COMB BLACK MINORCAS. Regular egg machines. No better on earth. Choice pullets, \$1 to \$2; cockerels, \$50 to \$3. We are not so well known, but our birds are as good as the best. Try us once. Beechwood Poultry Farm, 267 West Jefferson Street, Louisville, Ky. 9-4

FOR SALE—Eggs from full blood Black Minorcas \$1 per 15. F. C. Bastert, 539 S. 12th St., Quincy, Ill. 3-12

NORTHUP'S SINGLE and Rose Comb Minorcas won 2,000 prizes for customers in America's largest shows, proving the quality Northup sells. Eggs guaranteed to hatch, regardless of distance. Minorcas for sale always. New large catalogue. Geo. H. Northup, Raceville, N. Y. 3-12

### ORPINGTONS.

FOR SALE—About 300 young Buff Orpington birds. Cook and Edward strain. Prices reasonable. Birds are all Single Combs. Henry Sult & Son, South Whitley, Ind. R. R. No. 3. 9-4

373 PRIZES. White, also Single and Rose Comb Buff Orpingtons. Stock, eggs reasonable. Our paper, "Southern Poultry Courier," and "The Orpington" with order. Orpington-Belgian Hare booklets free. J. W. Eastes, Ill Vice-Pres. American Orpington Club, "Western Home," Galesburg, Ill. 8-12

BUFF ORPINGTONS since 1898. Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island. President of the American Orpington Club. 5-x

### PLYMOUTH ROCKS.

BARRED PLYMOUTH ROCKS. We are not as big as Bradey Bros., but we bought our pen from them to start with and we think we have succeeded. We will sell you a fine bird, male or female, for \$1.50 and one that is fit to compete with anybody's for \$3. If you want them at this price send the money. We guarantee to please or send the money back. Write to-day. Beechwood Poultry Farm, 267 W. Jefferson St., Louisville, Ky. 9-4

100 COCKERELS for sale. High class White Plymouth Rocks. Prices reasonable. Satisfaction guaranteed or money refunded. C. Wilbur Humphrey, Pomeroy, Ohio. 9-4

BUFF ROCKS. Extra fine, large cockerels \$1, \$2 and \$3 each. Write for description on what price bird you want. Spring Run Poultry Farm, Washington, N. J. 9-2

BARRED ROCKS, line bred, from Bradley's New York winners, scored 99 to 94 show room points for me. Cockerels \$3 to \$5; mated trios, \$7. T. J. Rountree, Nora, Ill. 9-4

BARRED PLYMOUTH Rocks (Thompson's Ringlet strain). Eggs from my winners at Plattsburg and Vermont State Show, 1903, \$1.25 per sitting; 2 sittings, \$2. Order now. N. A. Gallant, Plattsburg, New York. 2-12

### WYANDOTTES.

WHITE WYANDOTTES—The big kind that win. Big lot of high class, thrifty young stock for sale. Bred for size, exhibition and eggs. Moderate prices. H. I. Morse, Olney, Ill. 9-4

WHITE WYANDOTTES of purest blood. Cockerels, \$2 each; no females. J. C. Lindsey, Kirkwood, Ohio. 11-12

SIX PENS DUSTON STRAIN W. Wyandottes direct. The most popular strain in the land. Eggs and stock for sale. Rev. D. MacCulloch, Glencoe, Baltimore Co., Md. 1-x

### SEVERAL BREEDS.

LOST! MOST ALL my stock of Silver Wyandottes and Rhode Island Reds last season by an ad in P. K. I won at Amesbury, Haverhill, Peabody, Beverly, Lynn and Boston. As I shall move to a new plant soon I shall have bargains for some one. Fine birds in small or large lots. Geo. Addison, Wenham, Mass. 8-3

SINGLE AND ROSE COMB Rhode Island Red cockerels from my finest birds and prize winners. Barred Rock cockerels, pullet and cockerel breeders. White Wyandotte cockerels. Edwin M. Wilson, Babylon, N. Y. 9-4

A FEW FIRST-CLASS Partridge Wyandottes and Rose Comb Blue Andalusians for sale. One trio Single Comb Andalusians. Dr. W. H. Harwood, Chasm Falls, N. Y. 9-1

BARRED, BUFF and WHITE Rocks. Rose Comb Brown Leghorns. Very cheap if taken now. Vigorous utility pullets 75c in quantity. John B. Rogers, Fostoria, Ohio. 9-1

THOROUGHbred COCKERELS and pullets for sale cheap, make room for winter quarters. Barred Plymouth Rocks (Ringlets); Buff Plymouth Rocks (Burdick); Single Comb White Leghorns (Waterville, N. Y.). All are pure strains from high scoring birds and are very fine. Write at once. Evergreen Fruit and Poultry Farm, Wm. H. Robinson, Prop., R. F. D., No. 7, La Fayette, Ind. 9-3

CHEAPEST, BEST. 30 varieties. Felch, Myers, Cook, Hawkins, Fishel, Nugget, Duston, Keller, Northup, Wyckoff, Kulp, and other great strains. Brahmans, Cochins, Langshans, Wonders, Sherwoods, Orpingtons, Rocks, Wyandottes, Games, Minorcas, Houdans, Hamburgs, Leghorns, Ducks. Circular free. W. E. Hicks, Ponchatoula, Louisiana. 5-4

PARTRIDGE, BUFF, WHITE Wyandottes; Barred, Buff Rocks; Buff Orpingtons; Bearded Golden Polish; Houdans. Write us. Rocky Run Poultry Association, Clifton Springs, New York. 2-12

BUFF Orpingtons. Cook strain. Prize winning males, \$2 per 13 eggs; White Wyandottes (Duston and Hawkins), cockerels, \$2 up. White Leghorns, prize winners, Brown Leghorns (Dorsey and Kulp) eggs, \$1 per 13; \$5 per 100. F. Taylor, Hanover, Md. 3-12

SINGLE COMB WHITE and Brown Leghorns, Barred Rocks, Silver Spangled Hamburgs. Eggs, \$1 per 15. S. H. Gray, Ill. Richfield, Pa. 3-12

### MISCELLANEOUS.

WANTED—Employment on poultry plant, by single man of twenty, with some experience. Address John L. Zenger, 623 Genesee St., Buffalo, N. Y. 9-1

BELGIAN HARES—Fine pedigreed stock 3 to 4 months old, good color, \$3 pair. Extra fine mature bucks \$5 each. O. H. Lake, Guttenberg, Iowa. 9-1

MAKE MONEY raising squabs. Big profits. Small expense. Pays better than poultry. Write for circular about our mated homers. Philadelphia Squab Co., 2089 East York St., Philadelphia, Pa. 9-4

WE HAVE 300 WHITE PEKIN DUCKS raised from a pen we bought from the largest duck raisers in the United States, and we will sell them at \$1 to \$3 apiece. Toulouse Geese \$2 to \$4. Beechwood Poultry Farm, 267 W. Jefferson St., Louisville, Ky. 9-4

FINE BARGAINS offered to early buyers in Toulouse Geese, Pekin and Muscovy Ducks, Plymouth Rocks, Langshans, White and Golden Wyandottes, Brown Leghorns and Pearl Guineas. Satisfaction guaranteed. Shady Lawn Poultry Farm, Route 1, Hughesville, Pa. 9-4

FOR SALE—Forty Berkshire Pigs and 30 Red Shorthorn calves, B. P. Rocks and S. L. Wyandotte chickens at \$6 per dozen. Also 100 M. B. Turkeys, cheap. Shoemaker & Co., Harrodsburg, Ky. 9-4

BEAGLES, FOXHOUNDS, Setters, Pointers and Collies for sale. Pups and trained specimens. Guaranteed fine stock. Also fancy Pigeons, Belgian Hares and Maltese Kittens. H. E. Rebert, Codorus, Pa. 7-9

POULTRYMEN'S BIG MAIL. Ten cents inserts your name in our Poultry Directory, which brings you poultry literature daily. Schadt's Poultry Supply House, Box A, Goshen, Ind. 3-12

100 NOTE HEADS; 100 Envelopes, 50 Shipping Tags; 50 Egg Labels (2 colors), all neatly printed and illustrated with your favorite breed. Postpaid, \$1. Send for samples. Journal Printing Co., Creston, Ohio. 6-12

"TURKEY CULTURE," just out, giving the experiences of the most successful Turkey Raisers in the United States. Every turkey breeder should have one. Price 50c. Excelsior Wire and Poultry Supply Co., 28 and 28 Vesey St., New York City. 2-x

1,000 PHEASANTS, 20 varieties. Reeve Pheasants, \$15 pair. 2,000 Belgian Homers, 90c pair. Indian Runner Ducks, Cochins, Sebright Bantams, Silkies, Anconas, etc., 90c sitting. Fancy show Pigeons, Fantails, all colors, \$2 pair. Ring Doves, Quail, Mandarins, Wood Ducks, Swans, Turkeys, Peafowls, Roebuck, pedigreed Collies, Angora Goats, Deer, Belgian Hares, etc. Pamphlet illustrating all breeds, colored plates, valuable recipes, points on breeding, discount, exchanges, 10c. Reply stamp only. United States Pheasantry, Amityville, N. Y.



# Pale. Thin

Pale cheeks, white lips, and languid step tell the story of thin blood, impure blood. Doctors call it "anemia." They recommend Ayer's Sarsaparilla. Ask them and they will tell you just why it makes the blood so rich and red.

\$1.00.  
All druggists.

Anemic people are almost always constipated. Their liver is sluggish. They have frequent attacks of sick-headache, nausea, biliousness. Just one of Ayer's Pills each night will correct these troubles.

25 cents. J. C. AYER CO., Lowell, Mass.

**Special Bargains** in a grand lot of high class Buff P. Rocks, the Pure "Nugget" Strain. This season's breeders score up to 92 $\frac{3}{4}$ ; honest score. Good buff wing and tail. Line bred for years. Wild and Bronze Turkeys, bred from 42 to 47 lb. toms; score 97 $\frac{1}{4}$ . For prices and winnings write, J. C. CLIPP, Box A, Saltville, Ind.

## BLUE BARRED PLY. ROCKS

Winners at Pan-American, Philadelphia, New York, Chicago, Boston, etc. First Prize Pen at Boston, 1902, was acknowledged one of best ever shown at Boston.

EGGS same as I use myself and as good as there are in the country, regardless of price—\$3 per 13; \$5 per 26; \$7 per 40; \$10 per 65; \$15 per 100. W. B. DAVIS, HAVERHILL, MASS. Care of Merrimack National Bank.

**AGENTS ARE MAKING \$3 to \$8 Per Day**

.....SELLING OUR.....

Werum's Disinfecting and Lice Exterminating Nest Eggs.

Sample egg and terms by mail 10 cents. WERUM DISINFECTING COMPANY, STRYKER, OHIO.

## STANTON'S WHITE ROCKS.

Are growing into fine COCKERELS and PULLETS. Will be in position this fall to furnish some fine birds (Fishes strain.) State your wants and we will try to satisfy you.

Geo. F. STANTON & SONS,  
HENNEPIN, ILLINOIS.

## BARRED PLYMOUTH ROCKS

SPECIAL—30 pullet-bred Cockerels \$1.50 and \$1 @.

RALPH BRYSON, IOWA FALLS, IOWA.

## American Standard of Perfection

The law of the American Poultry Association in fixing value of Standard Bred Poultry. Describes every point of every breed; plumage of all varieties; gives weights; outlines disqualifications; instructs judges, etc., etc. Cloth bound book, 255 pages, Price \$1. We send the book postpaid and furnish full year's subscription to Poultry Keeper for \$1.25.

ADDRESS

Poultry Keeper Pub. Co.,  
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## American Roup Cure Guaranteed.

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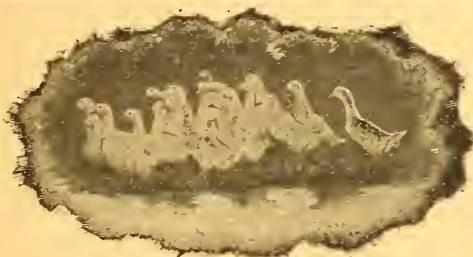
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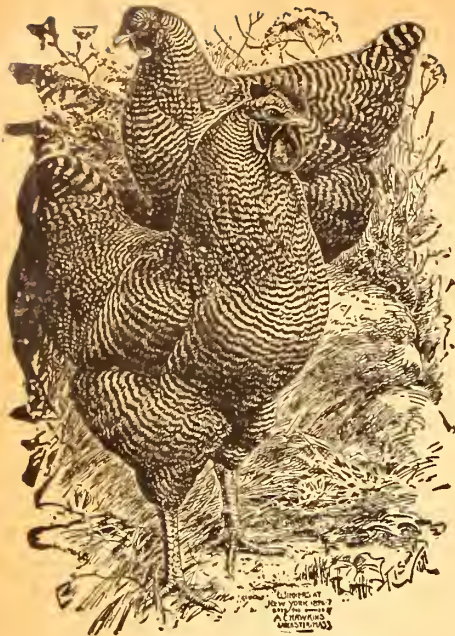
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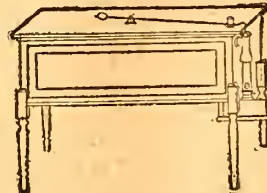
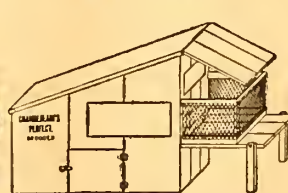
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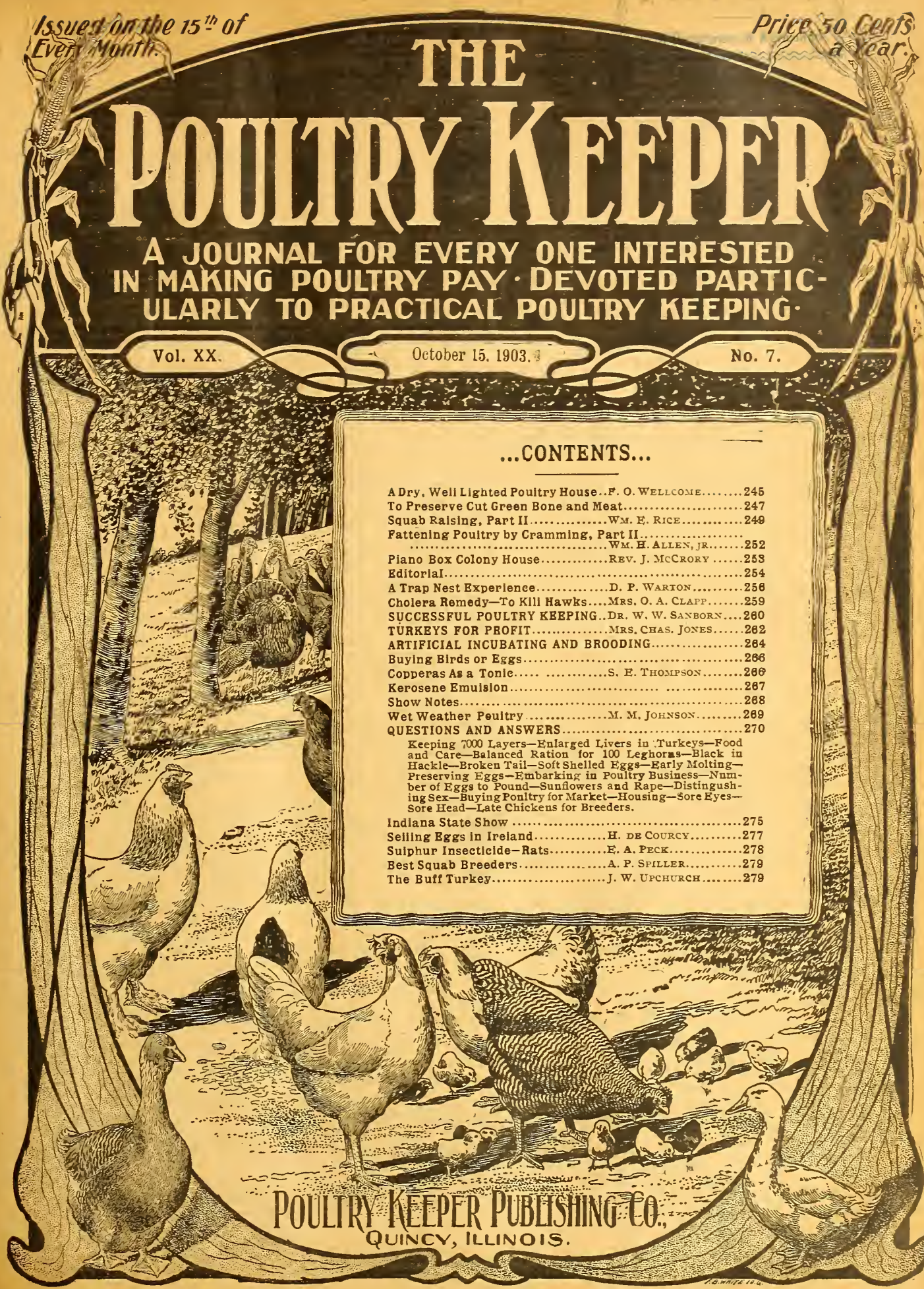
October 15, 1903.

No. 7.

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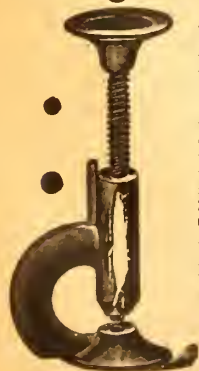
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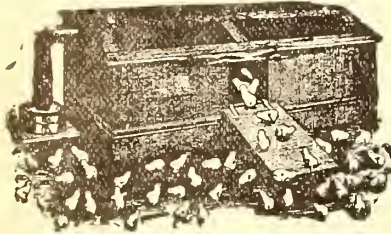
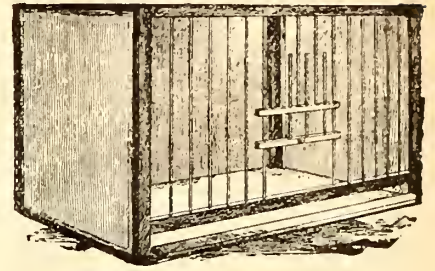
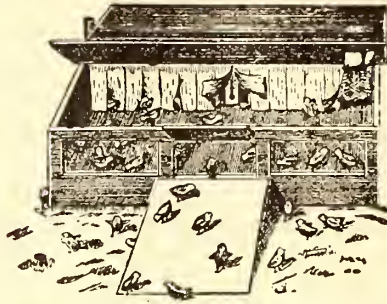
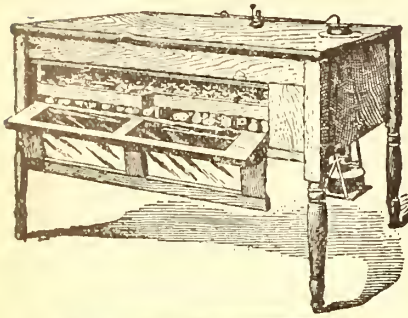
ALL OUR TWENTY-SEVEN WINNERS were from our own yards except two; one of these was hatched from our eggs direct—the other, a fourth place bird, was bred from our stock.

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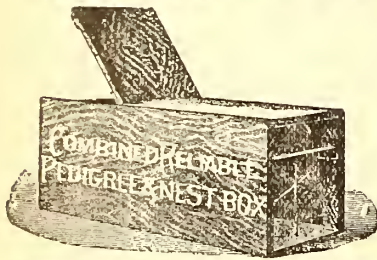
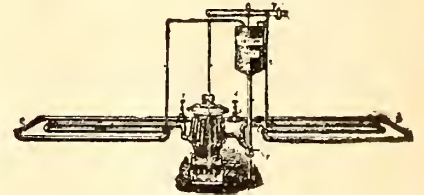
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# EVERYTHING FOR THE POULTRYMAN.

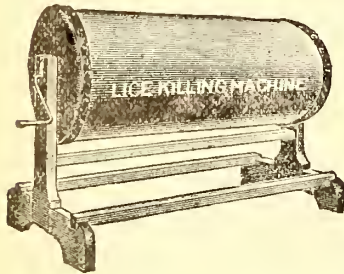
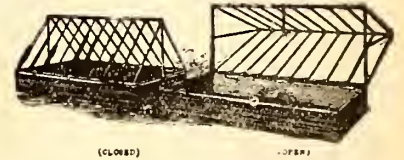


**A Reliable House With Reliable Goods.....**



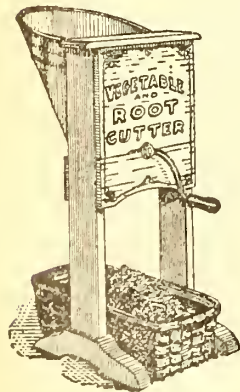
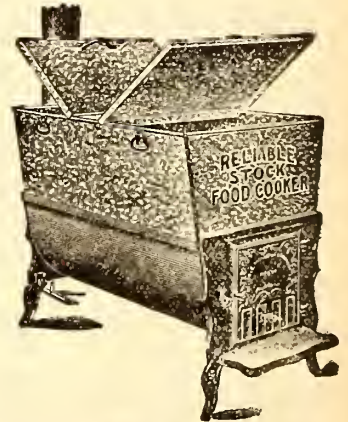
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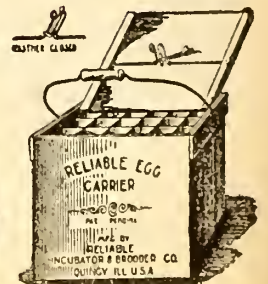
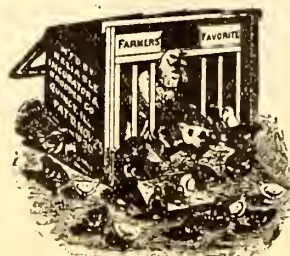
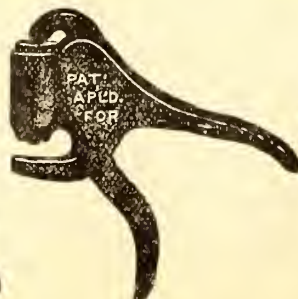
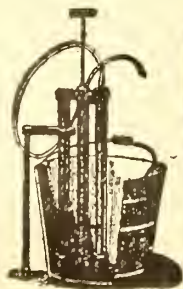
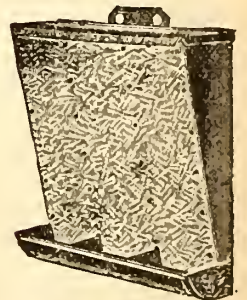
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# UNIQUE FEATHER GUESSING

**\$500** IN PRIZES

# CONTEST

**100** OPPORTUNITIES TO WIN

**THE PROPOSITION** How many feathers, large and small, not counting hairs or pin feathers, are there on the entire body (including the head) of this Barred Plymouth Rock hen, May, 1902, hatch; live weight  $7\frac{1}{2}$  pounds? This hen was bred and will be kept on exhibition on the poultry farm of Gardner & Dunning, the well-known Barred Rock breeders at Auburn, N. Y., from July 1st to December 31st, 1903. The bird should be in perfect feather on December 31st, on which date it will be killed, dry picked, and every feather carefully counted. The One Hundred Best Guesses, *i. e.*, those coming the nearest to the official count, will be awarded prizes as listed below:

## THE PRIZES

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Feed

- 1st Prize, \$100 in Gold.
- 2d Prize, \$50 in Gold.
- 3d Prize, 1 ton of H-O Poultry Feed, delivered.
- 4th Prize, \$25 in Gold.
- 5th and 6th Prizes, Orders for \$25 Each on any poultry breeder you may designate for the purchase of a choice Bird, Trio or Pen or of fancy eggs.
- 7th and 8th Prizes,  $\frac{1}{2}$  ton each of H-O Poultry Feed, delivered.
- 9th and 10th Prizes, Orders for \$15 Each on a poultry breeder.
- 11th and 12th Prizes Orders for \$10 Each on a poultry breeder.



## THE PRIZES

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Feed

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- 4 Prizes, 17 to 20, Each 3 100-lb bags H-O Poultry Feed, delivered.
- 2 Prizes, 21 to 22, Each \$5 in Gold.
- 6 Prizes, 23 to 28, Each 2 100-lb bags H-O Poultry Feed, delivered.
- 6 Prizes, 29 to 34, Each \$2.50 in Gold.
- 15 Prizes, 35 to 49, Each 1 100-lb bag H-O Poultry Feed, delivered.
- 25 Prizes, 50 to 74, Each 1 50-lb bag H-O Poultry Feed, delivered.
- 26 Prizes, 75 to 100, Each 1 25-lb bag H-O Poultry Feed, delivered.

**THE CONDITIONS** Write your guess on one of our Guessing Contest Certificates, sign your name and address, mail direct to The H-O Company, Department H, Buffalo, N. Y. Every bag of H-O Poultry Feed shipped from our mill at Buffalo from July 1st to December 12th will contain one Guessing Contest Certificate. Our Poultry Feed is put up under our seal and guaranteed analysis tag. Insist on the genuine article. If your dealer cannot supply you, write us direct. All our dealers will be supplied with sufficient Certificates to give one with every bag now on hand—so don't wait—begin using our Poultry Feed at once for your morning, noon or evening mash and get as many Certificates as you can. You may submit as many guesses as you wish, each on a separate Guessing Contest Certificate.

**CONTEST CLOSES** December 15th, 1903, at noon, fifteen days before the hen is killed and feathers counted. Each guess, as received, will be consecutively numbered and dated and filed away in a sealed envelope. No one will know who are the winners until we have opened the sealed envelopes. In case of a tie on any prize, that prize will be equally divided.

**SPECIAL OFFER** Prizes on early successful guesses will receive an added value according to the time received. Therefore, the sooner you get your guess registered the better and more valuable will be your prize if successful. Send in your guess early and take advantage of this Special Offer. No employe of the H-O Company, or of Gardner & Dunning may compete; neither may any of our feed dealers or poultry feed agents. This contest is strictly for the benefit of consumers, and will be conducted in an honorable and business-like manner.

**GUESSERS SELECT THE JUDGES** The official count will be superintended by some poultry journal editor, to be elected by those participating in the contest. Each Guessing Contest Certificate will contain a blank line in which the sender may designate the name of the poultry editor he desires to superintend the count. The editor receiving the most votes will appoint three reputable and competent persons from different cities, outside of Buffalo or Auburn, to do the counting and make affidavit as to the exact result. No one will know who is to do the counting until after all the guesses are in. Neither the editor superintending the count, nor anyone of the three persons doing the counting will be entitled to compete and any guesses they may have made will be thrown out. The official count, together with the names of the winners and their guesses, also the names of the editor superintending the contest, and the three persons on the counting committee, together with their affidavit, will be published in the February, 1904, issue of this journal.

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# THE H-O COMPANY, BUFFALO, N. Y.

"TID-BITS" The new feed for little chicks H-O quality, pure, wholesome, all grain, no condiment, no expensive grit, safe and profitable. "TID-BITS" Heretofore, our Poultry and Scratching Feeds have been the best for this purpose. We now have something better than the best. "TID-BITS"



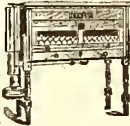
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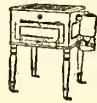
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"MARY L." The Largest Poultry Plant in the World.  
SIDNEY, OHIO., Dec. 1, 1902.

W. H. Allen, Arlington, Mass.

Dear Sir: In reply to your favor of the 29th inst., would say; I am using 12 of your stuffing machines, with entire satisfaction.

Respectfully Yours,

(Signed) JOHN LOUGHLIN.

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(Signed) HENRY M. LADD, Prop. Crescent Farm.

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# POULTRY

## KEEPER

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY

Vol. XX.

QUINCY, ILLINOIS, OCTOBER 15, 1903.

No. 7.

### A DRY, WELL LIGHTED POULTRY HOUSE.

#### Detailed Features of a Poultry House That Has Been in Use Several Years—Some Suggested Improvements.

By F. O. Wellcome, Yarmouth, Maine.

**T**HE nature and habits of the domestic hen do not require that her shelter be very expensive, nor that the indoor furnishings be either numerous or complicated. The personal requirements of the one who owns the hens, or who has the care of them, often, in fact generally demand special features in both the design and construction of the poultry house that are of no consequence to the birds themselves. In other cases features are introduced merely to satisfy a whim of the owner that positively detract from the healthfulness or the comfort of the fowls.

It is doubtful if any two poultry keepers would be impressed in exactly the

simple but necessary rules were observed in their building.

Hens will not thrive in damp or dark places. It is, therefore, imperative that a poultry house should be dry, and if the birds are obliged to remain indoors for long periods, the floor space should receive the direct light of the sun during a considerable portion of the day. Hens are exceedingly sensitive to drafts and will certainly suffer if not shielded from them, especially while on the roost at night. Being by nature an outdoor animal, the hen will not long retain good health if she is deprived, day or night, of pure air abundantly charged with oxygen.

From these arbitrary requirements of

terior ventilated in such a manner that the air will be remarkably pure without subjecting the birds to drafts, especially at night.

Any house that is built on well drained soil, with wind and water tight roof and sides, with an open front facing the sun and topped by projecting eaves fitted with a gutter, can be so made as to answer all of the above requirements whether it be cheap and plain or expensive and ornamental.

Different climates demand differences in the construction of poultry houses. The range of temperatures in which hens are comfortable is great, but many people figure it the wrong way. A healthy, well fed, scratching hen will not feel cold when the thermometer marks from twenty to thirty degrees above zero, unless she is molting, but she will be decidedly uncomfortable at eighty degrees. Excessive heat ruins more hens and more egg records than excessive cold, and should be guarded against with equal care. Therefore our poultry house should be so constructed that the confined hens will be as comfortable as practicable day and night, summer and winter. This requires that the builder in a cold climate must make tighter and better insulated roofs and walls than are necessary in a warm climate, but in neither location can the house be too cool in summer.

The care-taker should also be considered in the planning of a poultry house. While an enthusiastic and thrifty poultry keeper may be willing to put up with many inconveniences provided the hens are happy and "shell out the eggs," it is well to remember that life is short, and has plenty of unpreventable troubles, and build the hen house high enough so that the attendant can move around in it with body and head erect and have things arranged inside so that it will never be necessary to crawl around on hands and knees.

With this explanatory preamble I will now describe a poultry house that has been in use several years and explain a few improvements that I would make were I to build another.

Figure 1 is from a photograph and will give a good idea of the appearance of the house from the front on a winter day. This house is thirty-six feet long and eleven feet wide, measured inside the sills, which are set on posts and railway ties. It is five feet high in front (six feet



Fig. 1—Exterior view of F. O. Wellcome's scratching-shed house in winter. From a Photograph.

same way by any given style of house, for no two people are alike; but flocks of hens will be equally as comfortable and contented and do equally as good work in any one of a multitude of differently planned houses, provided a few

the hen herself we find that, whatever our own personal notions may be, we must so construct the poultry house that it will be dry at all times, its floor space well lighted by the direct rays of the sun during the winter, and its entire in-



## The Poultry Keeper

would be better) and eight feet high in rear from top of sill to bottom of plate. In the center of the house are two roosting rooms, each six feet by eleven feet (the width of the house). The partition between the two roost rooms divides the house into two equal pens, the twelve by eleven feet space at each end being an open front scratching shed. The roost rooms each have a closed front in which is a window. At the back of each roost room is a droppings platform twenty inches from the floor. About one foot above this are the roosts, two in number, slightly shorter than the width of the room (six feet), level and distant about one foot from each other, and about the same distance from the rear wall and the front edge of the platform respectively.

That portion of the roost room occupied by the roosts is roofed over at a height of five feet from the floor. This

gets in unless they are up, I am not satisfied with the arrangement.

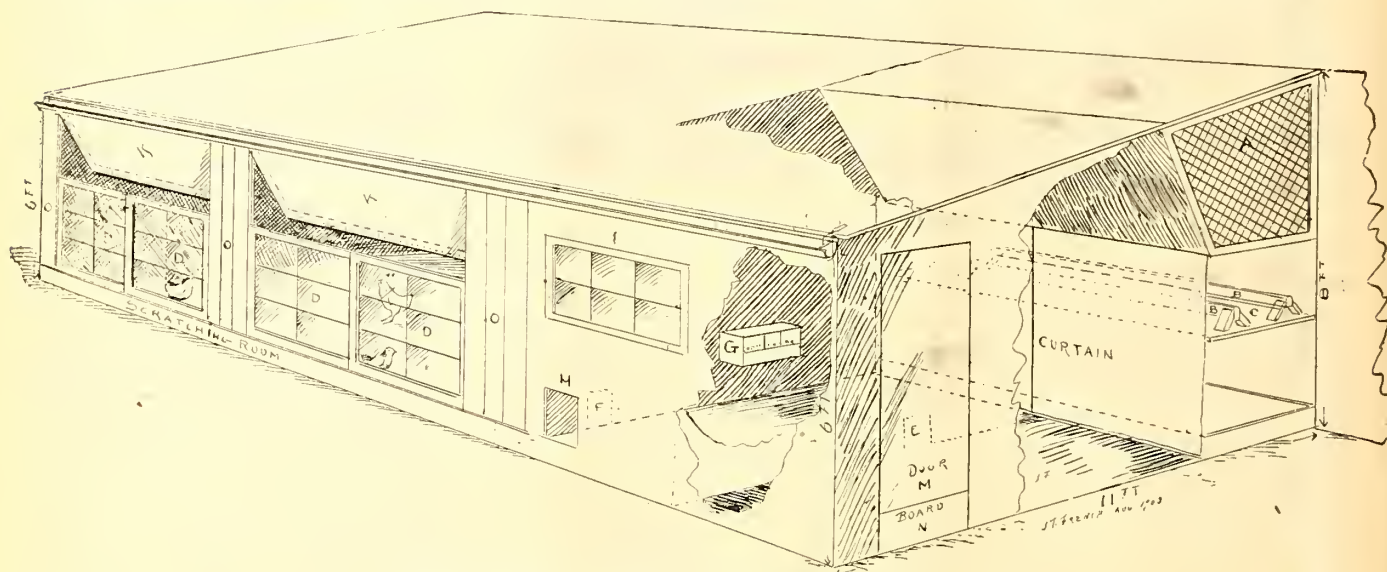
I like this roof sloping to the front because, while the floor space in the scratching shed is bathed in sunlight during the winter when the sun runs low, it is shaded by the lower eaves during the summer when the sun runs high. I am aware that some poultrymen, I don't know but most poultrymen, do not favor this style of roof, but I do when it is applied to this kind of a house.

I have a scratching shed house of the type most commonly used, sometimes called the Hunter style, I believe, having a high front and low back, and I find it colder in winter and hotter in summer than the one described here, and there is nothing to keep the rain out of the high open front when the curtains are up and the windows out. I prefer my style most decidedly. The project-

they will grow fat on the grain left in the litter at night unless one has a vigilant cat and she is able to get into the hen house.

The house is covered with "Cabots' Insulated Quilt"—a quilt of seaweed and paper—and "Neponset Red Rope Roofing" (which is painted) over that. Sixty birds can be housed in a house of this size, but fifty would probably do better. The cost of such a house will depend upon a number of details that have no important connection with the general plan. Many modifications can be made without in any way affecting the welfare of the flock. I like the roof plau for the reasons stated, but would make the front six feet high in the clear inside, as shown in Figure 2.

The closed roosting room and its little roosting apartment seem to be well suited to our somewhat severe Maine



SECTIONAL DETAIL OF MR. F. O. WELLCOME'S POULTRY HOUSE.

Key to lettering: A shows space between roof of roosting apartment and roof of main house, opening into scratching-sheds at each end and filled with hay, straw or leaves during the winter; closed at the ends by wire netting at other times. B shows roosts; C, droppings platform; E, opening in partition between two roosting rooms in which to place water pail, one pail serving both pens; J, place for dust bath; G, grit, shell and bone box; H, opening to let the birds into yards; I, window; M, door from shed to roosting room; N, fixed board below door to keep litter from interfering with door which opens from right to left; F, opening for hens between room and shed; DD, large single-sash windows, removed in summer; KK, muslin curtains on frames hinged at top to open inward, always open in pleasant weather in winter, but can be closed in summer (when windows are out) in order to shade the floor space. LL, gutter on projecting eaves to carry off drip from roof. OOO, boarding. The entire opening portion of front should be covered with netting, put on outside.

makes it possible in sections where winter temperatures fall to zero or lower to shut in the roosting birds at night by means of curtains or with wooden shutters as preferred, making a small, closed apartment that will hold the animal heat of the birds during the long, cold winter nights.

The space between this roosting apartment roof and the roof of the main house can be packed with hay, straw or leaves during the winter months. Toward spring this packing can be removed to the floor of the scratching shed to serve as scratching litter. This space opens into each scratching shed. The openings can be covered with netting to prevent birds from getting from one pen to the other.

Figure 2 represents a sectional view of the house showing the roost room plan as it would appear from the scratching shed were the partition taken away.

The scratching sheds in this house now have muslin-covered frames which cover the entire front when they are shut down. As the entire front is open when the curtains are up, and as but little light

ing eaves fitted with a gutter will keep the rain out if they project enough.

The open space over the roosting apartments at the back provides a constant flow of fresh air from one scratching shed, or room, to the other that thoroughly ventilates the high rear portion of the house and yet causes no drafts along the bottom of the house where the birds are. Each end of this house contains a large window opening into a scratching shed. All windows are removed in the summer. All the window spaces are covered with netting outside. There is also a door in one end near the back. Every inch of floor space in this house is available for the birds, as the nests (trap nests) are on a platform (two feet high) at the rear of scratching shed.

The scratching shed is filled in with fine sand, which is designed to be several inches higher than the ground outside. The roost rooms are double floored with building paper between the floors. One-inch mesh chicken netting is used all around the scratching sheds to keep out rats. It does not keep out mice, and

winters. The scratching shed, or room, is all right if plenty of litter is provided and the birds are well fed and kept busy, but they will not keep busy if they are too cold.

A number of my 200-egg hens, so-called, made their records in this house; one of them was so comfortable that she laid 236 eggs, laying every month in the year. This is one of four different styled houses on my place and I believe this is warmer in winter and cooler in summer than either of the others. Were I to build again I am quite sure that I should adopt the same plan with the improvements mentioned in this article. I have omitted a number of details of construction because they seem to me to be non-essential to this description.

As I said before, this house can be modified in numerous ways and yet retain the features mainly essential to the design. To go over these once more in condensed form, we have, a roosting room in which the birds can be shut during cold winter nights, and a roosting apartment or alcove that can be still



## TO PRESERVE CUT GREEN BONE AND MEAT.

### Treatment For Curing Cut Bone and Meat so That Supply May Be Stored For Winter Use.

Mulberry, Tenn., October 3, 1903.

Editor Poultry Keeper.

I have an opportunity of securing some fresh beef bones and scraps, which I desire to grind and keep for use during the winter and early spring months. I have the time and bones now and, as a usual thing, I have neither. Some time ago you published an article giving a detailed description of a preserving process and I am sure it will be of value to many P. K. readers if you will kindly repeat the article.

D. W. K. Shafner.

more enclosed by a curtain or shutters when desired, thus furnishing further protection on the coldest nights. This roosting room is large enough to serve as a laying room also if desired and provides a place for the dust bath, grit and shell boxes, and water pail or fountain where they will be out of the way of the scratching material, which we are at present inclined to believe should be provided in abundance during the fall, winter and spring months in all poultry houses, and it is of little use unless well kicked about.

Next, a large scratching shed, or room, well lighted and with large single-frame windows put in horizontally and arranged to be taken out entirely in summer, the space over these windows fitted with hinged shutters of muslin or sheeting that can be opened entire on all pleasant days in winter and will permit the passage of air through them when closed; a front

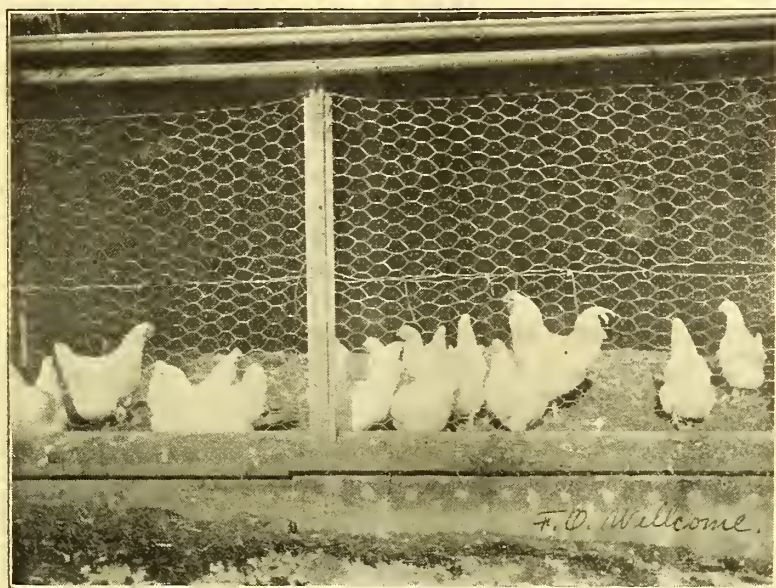
**T**HE green bone cutter is as necessary for the poultryman's success as the horse and plow are to the farmer, and the man without a bone cutter is losing time, money, feed and eggs. The

cost you that at the present prices of grain.

The poultryman must also realize that the hen is a producer, and that she has an enormous task to perform compared with other producers. Her duty is to convert the most available food materials into marketable product (eggs) that are more salable than any other product of which I know. The food material required by the hen must abound in nutritious and mineral elements, so with the proper amount supplied and at the right time she will more quickly complete the formation of one egg and begin on another, and when in full laying condition will produce eggs regularly if well cared for and not allowed to become over fat. In fact the egg being of itself so perfect in all that serves to create a living chick, is alone evidence that the food must be perfect in those substances which enter into its composition.

Avoid feeding your fowls too much animal food during the hot summer months. During molting season (that lasts 90 days) they must have a reasonable portion of meat and bone, as they are then in a debilitated and weak condition and need that food which will quickly condition them for early fall and winter laying. The early hatched pullets that are required to furnish the winter eggs should receive an every day ration of green bone and meat. They not having reached maturity, need the flesh forming foods in order to keep them growing in health and body, so when the egg season is at hand there will be no cause for disappointment, and the pullets, after proper care and feeding, will be ready to do their duty in producing a bountiful supply of eggs as a result of your painstaking care and labor.

It is plain, then, that it is expensive to feed a hen that which produces (fat) other than that sought (egg production), and the economy end is that method which gives the best results at the least cost. The majority of all preserved beef scraps that are used by poultrymen generally has to pass through a steam or cooking process before it becomes fit for use, and to a great degree it loses its strength through evaporation, but when it can be preserved for any length of time in its raw natural state as it comes from the bone cutter without losing any of its nutritious elements, I say it is far superior to any other meat food as an egg producer and cheaper by far in the end. Fresh green bones cannot always be had at such times when they are most needed if one has to depend on the butcher for his supply. On large poultry plants where an abundance of this egg forming food is needed and used daily, it is bet-



Flock of White Wyandottes in scratching-shed of F. O. Wellcome's house, from photograph taken in winter.

facing the sun and so constructed that the floor space will get the sunlight in winter, but will be shaded in summer, and yet permit of a free circulation of air. The muslin-covered curtains herein described can be closed in summer to still further shade the floor.

Nests can be arranged on a shelf, or on the wall, at the back of the scratching room, or shed, or the roosts can be placed there in the summer and the nests placed in the other room. A space at the back connecting the scratching rooms over the roosting apartments permits a constant flow of fresh air from one pen to another through the highest part of the house.

The arrangement of two pens described here can be extended to any number of pens in a long house, a scratching room at each end followed by roosting rooms and scratching rooms alternating in pairs.

The air space above the roosting apartments can be stocked with hay, straw or leaves and a small loft can be constructed at the top of the rear portion of each scratching room, readily accessible from

(Continued on Page 269.)

poultryman of to-day has made a great advance in one point. Through experience he has studied the subject of foods, not only their quality, but the cost. In the past corn, wheat and other grains were the chief supply for his hens. If you will compare fresh green bone and meat with grain you will find that meat contains about three times as much flesh forming material as wheat, and the bones contain a hundred times as much mineral matter. These two substances are the prime factors in egg production.

Meat and bone in a digestible condition make a cheap food as compared with others, because a "little goes a great way," though you must be careful not to feed it exclusively, as fowls need a variety of grains and green food, for an ounce of meat and bone to one hen daily is equal to three times as much vegetable food, hence the amount of grain lessened in the ration will more than pay for the meat and bone. When such food can be bought for not over two cents a pound, with all its valuable egg forming elements that make the hens lay, it is indeed extravagant to pay the same amount for wheat, and I am sure it will



ter to lay in a large quantity at a time, put it through the bone mill and preserve it for future use. Very often a horse or cow that has seen better days and can be secured at a low cost, killed and quartered, and where one has steam or electric power to operate the bone cutter, a great many pounds can be cut in a day.

Fresh green bone and meat after leaving the mill should be taken to some convenient place and spread upon the floor, where there is plenty of fresh air circulating and as little sunlight as possible. It can be well loosened by going over it with a common garden rake. After it is well spread out, take fine air slacked lime and sprinkle it thoroughly over the cut bone and meat until it is well covered. Rake it again until the lime adheres well to the meat. Then take corn meal and apply it freely in the same manner you did the lime, with another good raking. Add as much corn meal as will be necessary to absorb the moisture and grease of the meat. Allow it to remain in this condition for several hours, when it should be gone over again with the rake in order to keep it in a drying condition, and in a short time it will be thoroughly cured and dry enough to keep the entire season without spoiling, providing it is kept dry.

In this manner of preserving fresh cut bone you not only retain its full strength, but you can have a supply on hand at all times. It becomes quite hard after it is

thoroughly dry, and it can be put through a Wilson mill and ground finer for small chicks.

If you prefer feeding it in the morning it can be added to the mash; feed and scald the whole together. The amount of lime used is not injurious to the fowls; on the other hand it will be found healthy, as it aids digestion and keeps the fowls in good condition and the corn meal enriches the food. Any one that tries this method will find it a quick, safe and satisfactory way to preserve cut green bone and meat.

#### HEN MANURE.

Editor Poultry Keeper.

Will you kindly publish again the article on hen manure which appeared several months ago? I have lost the book, and as the issue is exhausted, have no other way of getting this information.

Mrs. H. H. Beebe.

Rochelle, Ill.

The preservation of the droppings in summer is difficult, as poultry manure rapidly decomposes and gives the poultry house a very unpleasant odor. This cannot well be avoided, even when the house is daily cleaned, but it can be so treated as not only to be of greater value, but also to lessen the disagreeable odor, to a certain extent. The roosts of course should be so arranged that the droppings

will all fall on the platform. Keep the platform well covered with sifted dirt, half an inch thick. To do this is to first scatter the dirt, and then over the dirt scatter a handful of kaimit (German potash salts), which will arrest the escape of the ammonia when decomposition begins. Two or three times a week (daily is better) sweep the platform with a broom, and after it is done sprinkle the platform and floor with a solution of a tablespoonful of carbolic acid in a gallon of water, and then scatter the dry dirt on the platform. The well known Douglas mixture, composed of one pound of copperas, two gallons of water, and one ounce of sulphuric acid, is also an excellent disinfectant, and a very cheap compound, that can be used freely. Nothing parts with ammonia sooner than poultry manure, and only a short period is necessary for the manure to deteriorate. In the process of drying, the evaporating moisture hastens the loss of volatile matter. The fat acids are capable of forming compounds, which results where the droppings are kept moist with soap-suds (for they must never be allowed to become dry) and during the time the changes are occurring in the mass the insoluble portions are reduced and the whole rendered more available as a plant food, as well as retaining its value as a fertilizing agent. Plaster, muck, fine dirt, and sifted coal ashes may be used as absorbent materials.



Photographic views of the White Wyandotte Poultry Farm of J. C. Fishel & Son, Hope, Ind., where over 2,000 high grade White Wyandottes were bred this year. The high quality of the Fishel Wyandottes is shown by the clean sweep these birds made at the Indiana State Show last month. (See report on page 275.) Mr. Fishel is enlarging his plant and has just bought an adjoining tract of land.



## SQUAB RAISING; HOW TO BEGIN AND HOW TO PROCEED.

### Mating and Care of Breeders—How and What to Feed—A Few Cautions—Details of Management.

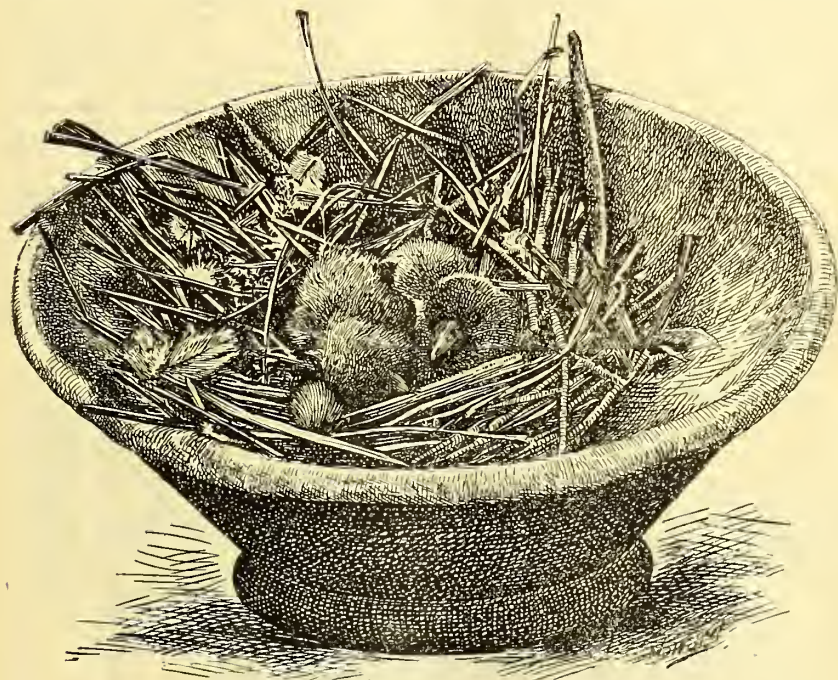
[From Farmer's Bulletin No. 177, issued by the U. S. Department of Agriculture. This bulletin was written by Wm. E. Rice, of New Jersey, a practical poultry breeder, who has been especially successful with pigeons, especially the production of squabs for market.—Editor.]

#### PART II.

**I**T IS well for a beginner to keep a record of the squabs as produced, numbering each nest, and entering in the records the birds working in each nest, and the number of squabs produced. Some pairs will produce ten pairs of squabs a year, while others may yield only five. The record will enable the breeder to save young breeding stock from his prolific breeders only. If the bands are numbered consecutively and the birds are banded before leaving the nest, the nest mates will always have consecutive numbers. It sometimes happens that a nest will have only one bird in it, in which

rated until a new mate is chosen by each. Numbers 478 and 479, or 478 and 481, can be safely mated.

When increasing stock, it is a good plan to get a few pairs of mated Homers from a different source, as this may afford an excellent means of bringing in a different strain of blood. Do not buy any cross-bred birds if possible to avoid it, unless you know exactly what you are getting. If desirous of increasing the flock, when it is impossible to procure straight Homers, the next best plan is to get some selected Dragoons of pure blood and mate with young straight Homers whose records have been kept as directed.



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 7—Squabs ("Peepers") Twelve Hours Old.

case the record should indicate that fact. A very simple way is to underscore after the record of each nest is made, thus:

478—b. b. cock.

479—b. b. hen.

480—b. ch. cock.

481—r. ch. hen.

This means that 478 is a blue-barred cock and the only occupant of the nest; 479 and 480 are nest mates, the hen being blue-barred, and the cock blue-checked; 481 is a red-checked hen from another nest, and the only occupant of the nest.

#### Inbreeding and Crossing.

Care must be taken not to inbreed. Under no circumstances permit 479 and 480 to breed, for they are nest mates. If they should mate they must be sepa-

Such crossing ought to give fair results. The offspring of these birds may be mated with full-blood Homers, making squabs of three-fourths Homers and one-fourth Dragoon blood. Squabs from birds of half blood should not be mated with each other, but with full-blood mates as directed. These quarter-blood squabs will be a little larger than straight Homers, and will be ready for the market almost as soon. In making this cross, however, much care must be exercised to have very carefully selected Dragoons with good squab-producing records.

#### Feeds and Feeding.

Though the houses may be well constructed and the birds well selected and properly mated, no success can be ex-

pected unless proper kinds of feed are procured and the birds are regularly fed. While it is true that some breeders have had fair success for a while by feeding only cracked corn and wheat, long-continued feeding on these two staples alone invariably fails to produce as good squabs or as many as when a further variety of grains is fed. In their free state pigeons can select a variety of grains, avoiding one kind and choosing another, as their appetites dictate, but when they are kept in a small inclosure they must, of course, take what the breeder gives them. Hence it becomes highly important that the breeder have good judgment as to kinds and quality of food to set before them, and that he have interest enough in his flock to avoid stinting the quantity or feeding too largely of one kind because its price happens to be low.

**The Feed Room.**—As already suggested a room should be set apart for a store room. It should be supplied with a feed bin divided into the proper number of sections to hold each variety of feed used; or, instead of such feed bin, small barrels with lids may be used.

**Feeds and Other Supplies.**—In these receptacles should be kept a generous supply of sifted cracked corn, Canada peas, wheat, German millet, Kaffir corn and hemp. These are the six principal feeds.

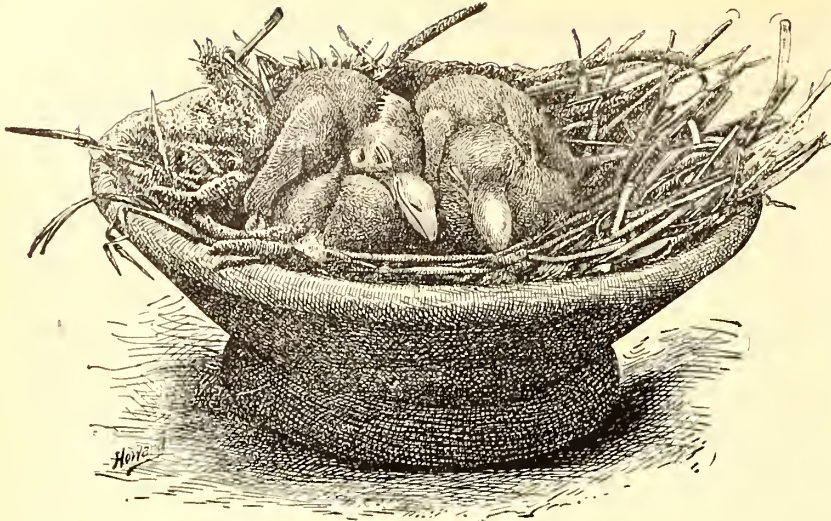
On the floor of each pen keep about a peck of clean sand evenly spread. Procure three boxes about the size of small cigar boxes; fill one about one-third full of fine table salt, the second with cracked oyster shells, pigeon size, and the third with ground charcoal, about as fine as ground coffee. These three substances are very essential to the health of pigeons. Clean out and replenish each of these boxes weekly. Do not fail to keep the salt box filled and before them all the time, for the health of pigeons demands it.

**Feeding Troughs.**—In each pen is placed a feeding trough, made of inch stuff, ten inches wide, four feet long, and with sides one and one-half inches high. This trough is placed in the middle of the pen to avoid feeding in the open fly, where the birds and grain would both be subject to the weather. In feeding, a tin pail holding a peck is convenient, as is also a grocer's tin scoop No. 3, which holds about three pints.

**Rations.**—For the morning ration give equal parts of cracked corn, wheat and peas, well mixed, using two scoopfuls of the mixture to each pen of 50 pairs of birds and taking good care to see that all droppings are cleaned out of the troughs before feed is put in. The ration for the afternoon is composed of cracked corn, Kaffir corn, millet and peas in equal parts. If at any feeding time any of the previous supply has not been used, reduce the quantity. If, however, the troughs should be entirely bare, slightly increase the quantity. When a number of squabs are in the nests the birds will feed more freely and need a more liberal supply.

**Special Feeds.**—On Thursdays and Sundays use hemp in the ration instead of millet. Care must be taken that the birds do not get this feed too often, nor in too large quantity, as it is very fattening and if fed in excess has a tendency to give the birds vertigo. For the





From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 8—Squabs ("Squeakers"), Twenty-four Hours Old.

same reason caution must be used in feeding millet. A small quantity of rice may be fed once a week with advantage.

**Time of Feeding.**—Regularity in time of feeding should be strictly observed. The morning feed in summer should be given at 6:30 and in the winter at 7 or 7:30. The afternoon ration should be given at four o'clock in the summer and three in the winter. The afternoon hours are quite important, and must be adhered to in order that the birds may have ample opportunity to fill themselves and feed their young before nightfall. Be sure to attend to the feeding yourself. Always go alone; never permit anyone to accompany you, for birds are often very timid of strangers and chilled eggs may result if a stranger should remain in the fly at feeding time. Go in quietly, making no noise or sudden movements; and, after the feed is placed in the trough, always leave the birds alone for a full hour that they may be absolutely uninterrupted in feeding themselves and the squabs.

**Feeding Indoors.**—Never feed out of doors under any circumstances in either summer or winter. Besides the loss occasioned by sparrows taking advantage of the opportunity to help themselves, in summer the heavy dews and hot nights will cause any feed left over to sour, and in winter storm and sleet will prevent birds from feeding.

**A Few Cautions.**—Cracked corn must be sifted, for fine meal can not be used by the birds, and in hot muggy weather it will sour over night, necessitating extra trouble in cleaning out the troughs. Be sure that every grain is sound and strictly first-class. Do not feed new wheat until it is thoroughly dry, usually not sooner than October 1, and do not feed new corn until Christmas. Especially avoid musty grain. Because one of these feeds mentioned may sometimes be quite cheap, do not be tempted to feed largely of it, thinking to save money thereby. This practice so often causes trouble that caution is urged in departing from the proportions named. Too much wheat in the ration will almost always cause looseness of bowels and make the squabs skinny and dark. Birds need a variety of feed, and it would be as injudicious and disastrous to feed exclusive-

ly on peas, a high-priced food, as on wheat alone or some other cheap food.

**How the Squabs Are Fed.**—Some wonder why squabs die in the nest or get on the floor or do not fatten up properly. Very frequently the reason is simply because the old birds are not fed properly. We should constantly bear in mind that a squab is very different from a chick. A newly hatched chick can run about and help itself to food and water. The squab, on the other hand, is utterly helpless at birth (Figs. 7 and 8); it is unable to walk and must be fed in the nest with whatever the parent bird brings to it. For about five days nature provides a special food commonly called "pigeon milk," a creamy substance contained in the crops of the pigeons and which they have the power to eject from their mouths into the mouths of their tender young. After a few days of such feeding the squab is fed on such grains as the pigeon gets, and by the same process of transfer from the parent's mouth to

its own; hence it is essential that proper food be given the pigeons.

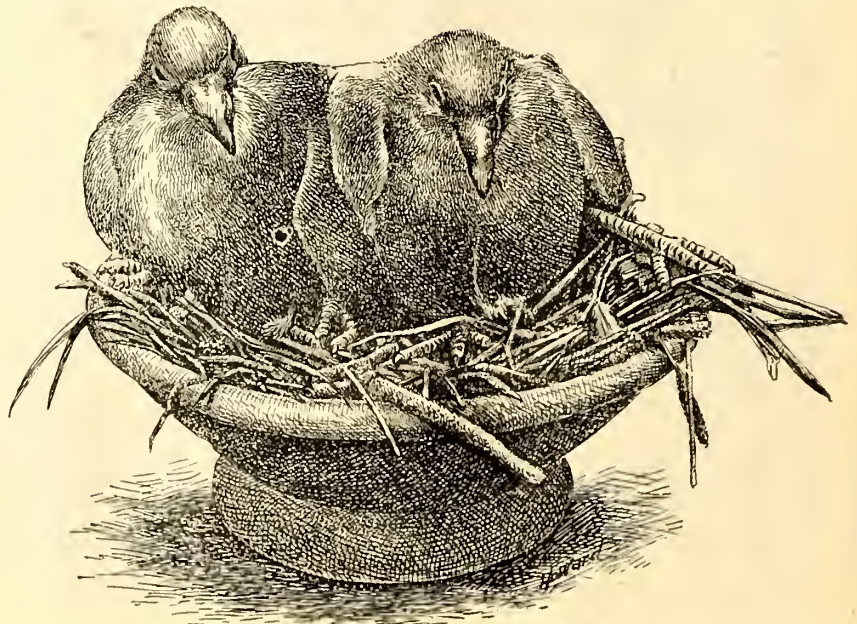
**Cost of Feeding.**—The cost of feeding the kinds and quantities of grain recommended will be of interest to novices. With wheat at eighty cents a bushel, sifted cracked corn at one dollar per hundredweight, Kafir corn at ninety cents per bushel, millet at ninety cents, hemp at one dollar and thirty cents, and peas at one dollar and ten cents per bushel, the cost will be one-seventh of a cent a day for each bird, or about fifty-two cents a year. Feeding at such cost, I have never failed to realize an annual net return of \$1.50 per pair net, but I was never able to secure such returns when feeding steadily on a wheat and corn diet.

**Watering.**—A generous supply of fresh, pure water for drinking purposes should be supplied. The flock should be watered each morning before the supply of feed is given. The water supply should be near the feeding troughs. Two-gallon stone fountains may be used in summer and galvanized iron ones in winter. These fountains are placed on the floors of the pens, one to each pen being sufficient. They should be thoroughly cleaned out each morning and filled with pure, fresh water, which will last all day, although during the heated spell of summer it is better to put in a fresh supply of water before the afternoon feeding. For thoroughness in cleaning the fountains, it is well to use a small brush. About twice a week place a piece of stone lime about the size of a hickory nut in each fountain. At least three times a month the fountain should be disinfected by using ten drops of carbolic acid to a two-gallon fountain, leaving the acid in the water for the birds to drink that day, as it will do them no harm.

#### Other Details of Management.

No success can be achieved in squab raising even with the best of houses, fine, well-mated stock, and proper food, unless the flock is given good care and management.

**Bathing.**—Birds should always have a



From Bulletin No. 177, U. S. Dept. of Agriculture.

FIG. 9—Squabs ("Squealers"), Twenty-eight Days Old, Ready for Market.



supply of water in which to bathe. Bath tubs made of galvanized iron or zinc, three inches deep and about thirty inches square, and set in an open boxing of inch stuff, are placed in the end of the fly opposite the coop. These furnish convenient bathing places for the birds, which are much used and enjoyed by them. Some use these bath tubs instead of fountains for the supply of drinking water, but when a bird bathes a milky scum appears on the surface of the water and it soon becomes quite foul, and unless changed several times daily is surely unfit for drinking purposes. After the birds are through bathing the tubs should be emptied and turned upside down.

An excellent way to manage the water question is to provide a trough to run through the flies across the ends. This trough can be made of inch stuff, twelve inches wide and three inches high, and, when city water or other running supply is available, a small steady stream can be allowed to flow in at one end and out at the other, which should be slightly lower to cause a current. The escaping water should empty into a barrel sunk so as to bring its top level with the ground.

**Whitewashing.**—A first requisite is that the new house shall be thoroughly lime-washed inside before occupancy. Carbolic acid should be used in the preparation of the wash in the ratio of a teaspoonful of the acid to two gallons of wash. The crude dark acid is as good for this purpose as the refined article, and costs much less. The acid serves to repel lice. This wash should be thoroughly spread over the entire surface of the inside of a new coop, and this whitewashing should be repeated once a year thereafter. Besides adding to the appearance

of the house and making it lighter, it sweetens and freshens the interior and destroys any lice or mites. To make the application more effective the wash should be carefully worked into the corners and crevices.

**Cleaning.**—Some breeders do not clean out nest boxes and pens more than twice a year, and often only when they need some manure for gardening operations. It is a very dangerous practice to allow the droppings to accumulate, and, in protracted damp weather, a decided menace to health. I invariably clean all my houses regularly once a week. I take out the movable bottoms of the nest boxes, and with a large butcher knife or steel scraper remove all excrement, letting it fall to the floor of the pen. If a nest box contains young squabs or eggs or a freshly made nest it is not disturbed, but is left to take its turn at a subsequent cleaning. After all nest boxes are well cleaned a spade is used to loosen the droppings on the floor, and all are shoveled into a wheelbarrow in the passage-way and the floor is swept clean.

The flies are cleaned out from four to six times a year. I use about four inches of clean sand in the flies, the sand being sifted and furnishing a soft floor on which the birds alight. With this there is no danger of the birds laming themselves or breaking their legs, and the sand is always free from mud. A pinch of air-slacked sifted lime (carbulated by the addition of a scant teacup of crude carbolic acid to a peck of lime) is scattered in each nest, a peck of dry sand is scattered on the floor, and the coop is ready for another week's run.

Objection is made by some breeders that the weekly cleaning out unnecessarily disturbs the birds, compelling the timid ones to leave their nests, causing

eggs to get chilled, etc. It certainly is possible to make a great uproar in the coop during the cleaning, but this I never permit. The cleaner should enter the pen quietly, making no violent or sudden motions, and dispatch the work as quickly as possible. The birds should be so treated that, when it is necessary to enter their quarters, they know that no harm is intended. In this weekly cleaning the supply of salt, oyster shells and charcoal should be renewed and a fresh supply of tobacco stems, cut into six-inch lengths, put into each pen.

**Light-weight Squabs.**—If squabs at the proper age for market are of light weight—six and one-half or seven pounds to the dozen—they are not profitable, for they will always bring lower prices when sent to market. Such squabs indicate either that the parent birds are poor feeders or that the breeder has fed improperly. If a record has been carefully kept, as suggested, an inspection of it will show whether a particular pair of birds regularly produce poor squabs. If so, and the food given has been suitable in quantity and variety, this pair of birds should be disposed of at once. During the molting season the squabs may be expected to be less plump than when the birds have less strain on them. These light-weight squabs cut down the profits more than some think. I have frequently seen a lot of nearly one hundred sold for \$4.25 per dozen straight, while another lot sent at the same time and to the same buyer has brought \$4.25 for some, \$4 for others, and \$3.50, and even as low as \$1.75 for others. Frequently this difference is directly traceable to the kind of feed given.

**Transferring a Squab.**—Sometimes, even with right feeding, a squab will be ob-

(Continued on Page 268.)



Poultry Houses made of two piano boxes. One house shows the end view; the other, the side view. These boxes cost but forty or fifty cents apiece. The roof is covered with tarred paper and the house complete is snug and secure.



## FATTENING POULTRY BY CRAMMING.

### Details of the Work—Manner of Feeding and Food Materials Used— Size and Arrangement of Coop—Some Comparisons.

Wm. H. Allen, Jr., Arlington, Mass

#### PART II.

**I**N this article I will go much further in detail concerning fattening by cramming than in the article published in August issue. I will simply state the facts as I have learned them from experience and also some things I have learned from observation.

#### Separate Stall for Each Bird.

Let us suppose there is a lot of birds to be fattened—before putting in coops they are weighed. Now ten of those birds are weighed separately and those coops in which are the ten birds are marked. Those ten birds are weighed every three days. It shows what is to be expected in other lots and is valuable experience. Put each bird in a stall by itself. Several can be put together and good results are obtained, but eventually one will learn that it is much more satisfactory to have each bird in a stall by itself. In the front of each stall have a slide so it can be pushed up to take the bird out and after the bird is put back by tapping the slide it will fall.

#### Coop Dimensions and Arrangement.

The size of coop I prefer is four feet long, partitioned into six stalls, each eight inches wide; coop seventeen inches

of six and a quarter inches. This open space is for the purpose of allowing droppings to go through, thereby keeping the coop clean. This space must be left both back and front of the bottom, as birds will turn around so long as they can get their heads up.

On the four corners nail four laths, twenty and a half inches long, or three and a half inches longer than the height of the coop, to serve as legs for the coop to stand on. Make a tray the same size as the coop. Into this the droppings will fall and can be easily removed. The coops of themselves keep clean and by throwing a small handful of land plaster into the bottom of the tray after it has been cleaned (which should be done every three days), the air in the fattening shed will remain sweet. The gypsum is a very good disinfectant.

#### Economy of Space and Labor.

By having legs on the coops it is possible to put coops three or four inches high, and so economize much space. Where they are not put one on top of the other, no tray is needed, but the droppings can be cleaned up from the floor. These coops being made of laths are cheap, and being only four feet long, are easy to handle, which is a great convenience, for after each lot is taken out they must be whitewashed. The whitewash kills the lice, which are a great detriment to best results.

To whitewash make a trough a little larger than the coop and have nine or ten inches of whitewash in it. By putting the coop in it and turning it over, the job is done. It is well to remember that the birds need plenty of fresh air—they do better for it.

#### One Feeder Can Do the Work.

By having the coops made as above described it is not necessary to have some one to handle the birds when feeding. Such a helper would be right in my way. The machine is wheeled up to the birds to be fed, and to take the bird from the coop and feed it requires but a few seconds. I have seen it stated that a man with a helper to handle the birds can feed three hundred per hour. I have done better than that alone. Where there are several birds in a coop more time is required.

#### To Keep Track of "Off" Birds.

Have some little wedges about two inches long, part painted white, part red, part black, and have same in a little basket hanging to the cramming machine. When it is seen that a certain bird is not assimilating its food as it ought to, or is otherwise a little off, stick a wedge painted white in the coop where that particular bird is and skip it over. At the next feed, if that bird is not all right, put in a red wedge and skip it over. At the third feed if the bird is not all right, put in a black wedge and skip over.

If at the next feed the bird is not all right take it out and kill and dress. There will be comparatively little use for the wedges, but by having them ready and handy nothing is overlooked and it leaves no opportunity for a loss on any birds.

The use of the wedges is more particularly for those learning to fatten by cramming. It is not well to feed birds not doing well longer than is above described as they are apt to lose too much flesh. When the bird is fed for the first time feed it light, about one-half a crop full is the safest way. When the birds have been accustomed to hard grain they do not so readily assimilate soft feed as where they have previously been fed with it. As they assimilate their feed increase it at the following feeds. Always keep the hand on the crop when pushing the treadle. By so doing one knows just what he is doing and can readily tell just when to stop pressing on the treadle. Before the treadle is pushed be sure the end of the mouth tube is in the crop.

#### Materials to Feed.

As to the feed: Some feed one thing, some another. Do not feed much corn meal. Among other reasons why it should not be fed is because it is too heating. Be sure to use pulverized charcoal, about three pounds to 100 pounds chicken feed. There are many reasons why it is beneficial, more particularly because the birds get no exercise. It is a peculiar characteristic of fowls that they can assimilate a larger amount of fat, and for best results this fact should not be overlooked. During the last ten days stir melted fat into the food—preferably mutton tallow—beginning with one ounce per bird per day, gradually increasing to two ounces per bird per day at end of ten days.

The food should be mixed to a consistency of thick cream, and to be sure that the food is all right, take note of the droppings from time to time. They should not be watery, but of a consistency to hold together. If the food is all right and the birds are fed right, it will be noted that they gain most during the second week, the gain during the first and third weeks being about the same. It will also be found that if a lot of birds be fed from troughs that the ones fed by cramming machine are fed much more than the ones that eat voluntarily, and as a consequence they put on much more flesh.

The main points in fattening by the cramming machine are, to watch your birds and know the amount of feed to give. As I stated in a previous number, while one can learn much from reading others' experience, there is nothing so valuable as getting one's own.

#### Predigested Food.

Since that article appeared I have been asked by many what I mean by predigested food. We know where grain in the kernel is fed before it can be assimilated it is ground to pulp. Now to have that food so it will require the least possible exertion on the part of the digestive organs it must be ground as fine as flour. We also know that before it is assimilated it is slightly fermented—fermented in the crop and the gizzard. Now this shows that it is helping the bird to have the food slightly fermented before it is fed. This can be done by mixing some twelve to



Improved Style of King Cramming Machine made and used by Mr. W. H. Allen, Jr., Arlington, Mass.

high, eighteen inches wide. Make them of laths nailed onto a frame and on the bottom put two or three laths, leaving one inch between laths. This will leave a space of five and a half inches for the bird to stand or lie on, and a space both back and front, where there are no laths,



twenty-four hours before feeding. If the weather is cool it should be put in a warm place.

**The Extra Two or Three Pounds.**

The difference between fattening chickens by cooping and feeding from trough and fattening by cramming is the extra weight or flesh that can be put on. That extra weight is put on by putting more feed into the coop with the cramming machine than the bird will voluntarily eat. Aside from the fact that a good many birds actually lose flesh when cooped and fed from trough, those that do well do not gain as much into a pound as those fed by the cramming machine. None of them lose flesh and all of them fatten up. Now the cost of time in feeding in trough is less than where the cramming machine is used, but the cost of time when fed by cramming is not over three and a half cents per bird for three weeks.

Some years ago, when I fattened by cooping and feeding from trough (this was before I began using the cramming machine), I had a lot of fowls which I fattened in that way. After taking those out that were not quite up in flesh, I considered I had a handsome lot of market poultry. A large dealer of dressed poultry offered me sixteen cents per pound for them. Said he, "If those birds had another pound of flesh on them I would give you twenty cents per pound, and I would rather give you twenty cents for such birds than sixteen cents for those. I could make more money on them."

That set me to thinking, and the ultimate outcome of it was that I began using the cramming machine. Now birds weighing five pounds, selling at sixteen cents, would bring eighty cents; but birds weighing six pounds, selling at eighteen cents per pound (making an allowance of only two cents per pound, and that is putting it very low) would be \$1.08. But it cost three and a half cents per bird for time required in fattening by cramming, which would leave twenty-four and a half cents net profit over birds fed from trough. Outside from that all the birds fed by cramming fatten up,

while when fed from trough, a great many actually lose flesh.

After all, it is but the difference between actual cost and selling price that must be considered in business, and this is what set me to using the cramming machine.

**The Industry in Iowa.**

In this connection I will call attention to an article recently written by Wm. E. Curtis, because of the fact that it relates to the fattening of poultry in Iowa. I have sold a good many cramming machines in that vicinity, one man alone (W. S. Frances, of Lisbon, Iowa) having bought twenty-two. Mr. Curtis writes:

"But the greatest industry of Clarinda (Iowa) is fattening chickens for the London market. At the central station here butter, eggs and poultry are received from a radius of seventy-five miles and to the value of \$2,000,000 annually. The company is the oldest in Iowa and has other stations at Keokuk, Burlington and elsewhere, handling altogether between \$5,000,000 and \$6,000,000 worth of dairy and poultry products each year. The feeding house at Clarinda accommodates about 7,500 chickens, which are fattened with prepared food and cramming appliances, which keep their crops full all the time of cornmeal, grits, oatmeal and other cereals mixed with buttermilk and animal fat. By this means the weight of a chicken can be increased from twenty to thirty-five per cent in two weeks. The flavor of the meat is improved and the selling value of the bird is advanced from ten to fifteen per cent. The process of fattening is not secret, as has been represented, for the Clarinda Poultry Company is anxious to teach the farmers how to do it in order that they may improve the value of their chickens by proper care and food. They do the same thing with steers and hogs, and there is no reason why they should not fatten their chickens.

"At the feeding house here about five per cent of the chickens are fattened—which is in the neighborhood of 150,000 a year. When they are in proper condition they are killed, dressed, frozen, neatly wrapped in parchment paper, packed

in fancy boxes and shipped to London after the holidays, when the market is bare over there. They bring from eight-cent to twenty cents a pound wholesale."

**PIANO-BOX COLONY HOUSE.**

Curran, Ill., Sept. 10, 1903.

Editor Poultry Keeper.

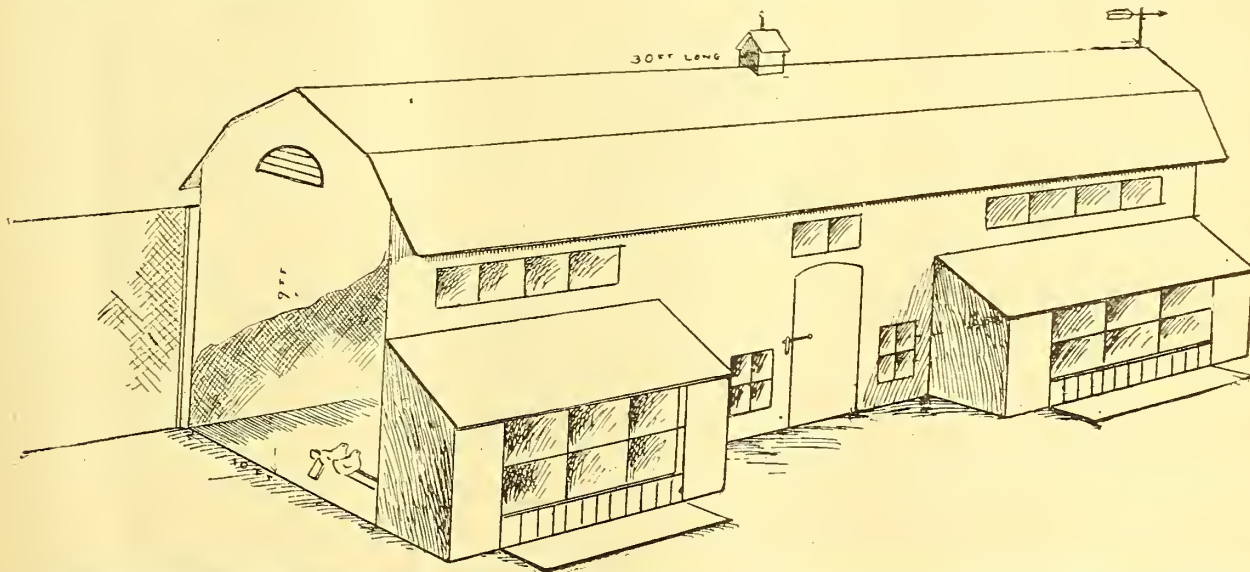
Mr. J. H. Hughes, the railroad ticket agent at this place, has the best colony house I ever saw. He took an Emerson upright piano box, and laying it back down, nailed 2x4 in each corner about three feet high at the back and five and one-half feet at the front. On the back (originally the top of the box) he nailed a ten-inch plank. On the front he raised it by nailing on planks to the top of the five and one-half feet, 2x4 pieces,

The open space thus made in each side was boarded up. He put on a tar paper roof. The whole of the front is a door hinged at the top and can be opened up and hooked to a post. The front is screen with wire inside. A part of this front is a small door, so hinged it will open up with the whole or open when the other part of the front is down. When the whole front is open it can be curtained and thus becomes a fine scratching place. Roosts are put long way one foot from the floor. Will be lined and banked for winter.

Rev. J. McCrory.

Good care and food will make any kind of poultry profitable. However, if you are looking for the best results see that you are handling the kind of birds that have been bred for profits. Business birds, taken good care of, well fed, breed business birds. Blood tells! Any-old-bird will eat good food, but it is the well bred bird that gives the large profit from the material digested.

Are you getting ready for the cold days? Broken glass and cracks need attention in that house. A leak in the roof needs looking after, if you would avoid late fall "colds."



Herewith is a sketch of my poultry house. The building faces the south. It is 30 ft. long, 9 feet high at center and 6 ft at the eaves. The low parts with windows down near the ground are two sheds for winter use. The roosting platform is made in the north side. At both ends on the east and west gables are small windows or openings for ventilation. The house is free from dampness and strong odor.—Wm. Streeter, Antwerp, New York.



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F. PIGGOTT, Editor.

Associate Editor, { DR. N. W. SANBORN.

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TWENTIETH YEAR  
AND VOLUME.

OCTOBER 15, 1903.

NUMBER 7

## DOUBTERS, THINK IT OVER.

Bulletin No. 93 of the Maine Agricultural Experiment Station is just out. It contains a very complete account of their work with trap nests during the past year and some excellent half-tones of a few of their most prolific hens, and some that were far from being prolific. These pictures give our "egg type" theorists an opportunity to study types from the standpoint of known facts.

This poultry department, under the direction of Mr. G. M. Gowell, opened last season's work with fifty-five Barred Plymouth Rock and forty White Wyandotte pullets, ninety-five in all. Their foundation stock of older hens was of course retained.

The ninety-five pullets laid 12,579 eggs during the year. Sixteen of these birds were lost by death and theft before the season ended. These birds had previously laid 1,006 eggs, as the records show. Deducting these from the complete total we find that the seventy-nine pullets carried through the year laid 11,573 eggs, an average of 146½ per hen.

Seven of these birds laid from 201 to 240 eggs each. Ten more laid from 175 to 198 each. Twenty-three more laid from 152 to 174 each, making in all forty birds, the greatest part of the entire flock, that laid from 152 to 240 eggs each for the year. The remaining thirty-nine included one bird that was not known to lay an egg, six that laid less than 100, two that laid less than 75, and twelve more that laid less than 120, making twenty-one that failed to reach the ten dozen mark. Two more just reached it and the other sixteen ranged from 122 to 149. These birds were all housed, fed and cared for alike.

This brief analysis of the known individual egg yields of a small lot of exceptionally well cared for hens contains a number of pointers. It would seem from these records that such a thing as anything approaching uniformity in individual performance is impossible to attain unless the weak layers are culled out early and dropped from the account. Even supposing that done in this case,

we find the good layers ranging from 140 to 240 eggs, a difference that probably more than compasses the work of the average hen.

The total average of 146½ eggs per hen for a small lot of seventy-nine birds, while good, is by no means remarkable, yet in the lot we find seven that laid more than 200 each. Here is something for those who think that 200-eggers are very few and far between to ponder over rationally. Why should this little bunch of seventy-nine birds, averaging 146½ eggs per head, containing nearly nine per cent of "200-egg hens," and over twenty-nine per cent that ranged from 120 eggs down to no eggs at all, be either remarkable or exceptional?

The substance of the report indicates that the poor layers were vigorous and nothing in their appearance would account for their failure to make good in the nest. They have been keeping hens many years down at the Maine station and ought to be able to pick out a poor layer by her looks if any one can.

No one who has any knowledge of hens will care to deny that well cared for flocks of approximately this size that average 150 eggs per hen per year are probably quite numerous. Why not then admit that such flocks are likely to contain a fair sprinkling of "200-egg hens" whatever the breed or conditions may be, so they permit of such an average?

Incidentally allow us to remark that the Maine station now has thirty-two "foundation birds" with records of from 200 to 251 eggs each in one year. Whether or not those heaviest layers are better suited to breed from than others of their persistent layers with lower records we do not presume to know. The poultryman handling the birds is better situated to judge of that than any one else can possibly be.

W.

## PATIENCE IN POULTRY WORK.

Poultrymen, as a whole, have little patience. Whether they are breeding for the perfect bird, or for a flock that will average two hundred eggs, they lack much of that stick-to-it-ive-ness that must be had

to gain success. In order to get to the top you must not only lay plans for the work before you, but the element of patience must be well applied to solving the problem. Go slow and sure is a good motto for a progressive poultryman. Short cuts to success seldom are worth much, and when you think you have reached your goal, lo! it was the shadow of the goal, not the winning post.

Take time then to make your mark in poultry matters. Begin now to work along the line of your ambition. Breed from your best layers, mate for the ideal bird, try to improve the color, and endeavor to raise better birds at less cost. There is much to be learned by us in poultry matters and you should take your place in the school of hendom. We have all learned from the successes of many who have gone before us, and should be willing to tell the methods that have brought success to us.

The lesson that Poultry Keeper would have you learn is that of going slow, going sure, and holding on. Have patience, that the steps you take need not be retraced.

N. W. S.

## INCREASED DEMAND FOR THE BEST QUALITY.

There has grown up in the large towns and cities a class of people who desire and can pay for a high grade of the article they can use. This applies to household articles of furniture, to clothing, and to all foods. The fresh egg and tender chicken are to be classed in the list of table requirements that bring an advance of price over the ordinary market article. Hospitals, drug stores, hotels and private families all are in search for the best in poultry and eggs. When they find an article that is equal to their expectation they do not long delay in getting possession, at a satisfactory price to the producer. It costs more to furnish this class of food products than the ordinary goods, but there is a good profit in working this line of poultry business. The tendency is toward higher prices for the best in all lines of products. There is some pleasure in producing a quality of eggs and poultry that is being sought for by those who can well afford to pay for what they want. Look for such buyers. They are wondering where they can find fresh eggs and fine dressed poultry and will be glad to get in touch with you. Quality must be maintained if you would keep this desirable trade. This we are sure you can do. Will you try for the increased profit of this special demand?

N. W. S.

The Poultry Standard, Stamford, Connecticut, the leading monthly paper of New England, offers to send their magazine to April, 1904, to P. K. readers who send 10c. This is worth taking advantage of and we hope every reader of P. K. who is interested in poultry work "down east" will send the dime and get the paper.

The Inland Poultry Journal, which during the past two years has been under the able management of Mr. Theodore Hewes, has made a wonderful growth. The Inland is a fanciers' paper, with enough of the practical to satisfy the poultry keeper who is wide-awake enough to know that each is stronger on account



of the other. The reading pages are fresh, bright and well illustrated. If you do not take the Inland, you should do so. Price of subscription is 50c per year. Sample free. Address, Inland Poultry Journal Pub. Co., Box 5, Indianapolis, Ind.

**GREEN BONES NECESSARY FOR SUCCESS.**

It is an established fact that green cut bones are necessary for successful poultry keeping. When nature ceases to supply the insects on which fowls thrive during the spring and summer months, the poultryman who is alive to business must do what nature cannot do in winter, and feed fowls on green cut bone.

Green bones are rich in nitrogen and therefore serve as food. When a bone contains a large share of adhering meat it is all the more valuable. Bones serve several purposes when used for poultry. Being phosphate of lime, they are capable of being digested, which is not the case with oyster shells and grit, and they supply the birds with elements that may be lacking in the food. They also assist in grinding the food, taking the place of grit, and are readily accepted by all classes of poultry. In fact, it is safe to claim that there is nothing that can be used as egg producing food which serves the purpose so well as green bone, its combination of qualities, nitrogen, lime for egg shells, cost and adaption to all fowls and all ages, give it a place even higher than meat, which contains nitrogen, but no lime or other mineral matter.

Therefore in preparing a diet for poultry, either with a view to increasing the vigor of the bird or developing its egg-producing organs, such food should be selected as science and chemistry have demonstrated to be component parts of the structure to which they are afforded as nutriment and sustenance.

None possess these qualifications to such a marked degree as does fresh green bone, which is therefore a necessity for the highest success in poultry raising.

**SEND YOUR NAME TO HUMPHREY.**

We have arranged to have the Humphrey Poultry Book sent free to P. K. readers who will drop a postal card asking for it. It isn't as big as an encyclopedia, and it doesn't pretend to tell every thing about fowls, but it does contain a good many valuable pointers on feeding and brooding, which every one who owns chickens may study with profit. Of course it touches on the Humphrey products—the famous Humphrey Open-hopper Bone-cutter, the Humphrey Rapid Clover Cutter, the Humphrey Pure Air Brooder and other supplies which poultry raisers will find useful and profitable. Mr. Humphrey has an enviable reputation for fair dealing and his goods are known far and wide as leaders in their classes. You ought to know about them. Send your name to-day to Humphrey Glass Street Factory, Joliet, Ill. Mention Poultry Keeper.

At any time after September the turkeys may be fed an additional ration, so as to get as much size as possible by Thanksgiving which is not too far off to push the turkeys now. The supply of grass and insects will soon fall off and

the turkeys should have a supply of fresh meat and bone at least three times a week, as well as an occasional mess of bran and linseed meal, with all the grain they can eat at night. Avoid high roosting places for them, or they will become lame by jumping to the ground.

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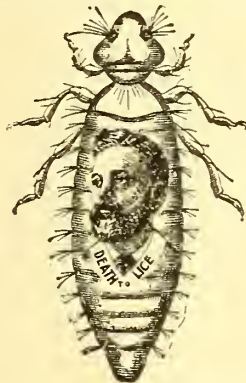
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## A TRAP NEST EXPERIENCE.

**A Connecticut Poultryman Makes a Saving of \$20 Per 100 Hens Per Year by Using Trap Nests.**

David P. Wharton, Winsted, Conn.

**W**HEN I began keeping poultry a few years ago I found myself, doubtless in common with most other beginners, up against several conditions which meant loss instead of profit. Being, however, somewhat persistent by nature, most of these conditions were gradually overcome in the course of a few years, until the business was on a fairly profitable basis. But there was one fact remaining that gave me a good deal of anxiety, considerable work, and more or less experimenting. I refer to the presence of an unknown number of poor layers which to quite an extent lived on the product of their better sisters, thus making a reduction in the legitimate profits of their owner.

I was not satisfied to bear this loss without an effort to correct it. From the most careful observation that I could give I would cull out those that I thought were the poorest layers. Without doubt many poor ones were taken at each culling, and equally without doubt some good ones were also taken so that it became apparent that there was very little if any real gain made by that method of procedure in flocks where hens are kept in any considerable numbers.

What a person can do with a single pen of a dozen fowls does not apply in numbers of two hundred or more. Almost, if not always, a certain per cent of reduction of the layers would result in a very similar reduction of the egg yield.

One of two things became apparent—either make the best of the situation with the poor layer, or install an equipment of trap nests and do the work thoroughly. The trap nest was not then just what it is now. The first one that interested me was Mr. Silberstein's nest of Heartnest Farm. Soon after this Mr. Boyer of Hammononton, N. J., began the operation of his experimental farm, where he carried through one of the most extensive and complete trap nest tests ever made up to that time, in which nearly all the traps of that day were represented.

The reports of his work were published from month to month in "A Few Hens" and read by thousands with great inter-

est. Advertisements then became quite plentiful in poultry journals, offering both the plans and the nests complete at varying prices. Several of these I investigated by the purchase of some plans, but I came to the conclusion that while some would do good work if properly made and attended, they were generally too elaborate in construction and too complicated in action to make them practical to install in the number necessary for use in large flocks. Some time after this I was attracted by the advertisement of "The Ideal," invented and patented by Mr. F. O. Wellcome, of Yarmouth, Maine. I sent for his circular, which was carefully read, and came to the conclusion that if I could manage the installation of any trap that was doubtless the one. After considerable hesitation I forwarded the price of the equipment, which was promptly received and carefully examined.

To say that I was surprised in putting it mildly. I was not disappointed, understand, but very greatly surprised, for I fully expected to see a clever application of some familiar principle that would cause a smile that I had not thought of that myself. But when I saw the extreme originality, both of the principle and the application, I was satisfied that I might have safely thought on the subject for any length of time without the slightest chance of having discovered anything like this particular trap. The very natural idea of a trap nest centers around the proper automatic action of the entrance to the nest as the hen passes in. This is of course important, but there is another very important fact—does this entrance satisfy the hen and appeal to her nesting instinct?

One statement made by Mr. Wellcome was to the effect that his nest was arranged that it so attracted the laying hen that she would almost invariably use it, while the non-layer would seldom enter it. That statement seemed almost incredible. While I did not doubt Mr. Wellcome, I wondered how a wooden contrivance could apparently discriminate between a layer and a non-layer. But I now have to admit that this statement is absolutely true, and when seen and understood the reason is very plain

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We apply you the breeders and buy all you raise. Particulars and book, illustrating and describing all varieties and how to care for them, 7 cents. Hundreds for sale. Homers, Runts, Dutchess, Dragoons, Carriers, Barbs, Pouters, Fantails, Tumblers, Owls, Tarbits, Blondinets, Satinettes, Magpies, Swallows, Archangles, Nuns, Starlings, Trumpeters, Jacobines, Helms, etc. 9-12

WM. A. BARTLETT, Box 23, Jacksonville, Ill.

## S. C. White Leghorns.

Layers and winners in Largest Southern Shows. Winners at Atlanta, Ga., Oct. 1902, Charlotte, N. C., Jan. 1903. A beautiful flock of early hatched youngsters to select from, all from our yard of Prize Winners. Single birds, pairs, trios and pens to suit. Write at once for circular describing our winnings and low prices for birds. Satisfaction our motto.

WILBER BROS., Box E, Petros, Tennessee.

## UNDEFEATED

**BUFF  
LEGHORNS**

.....AND.....

**WHITE  
LANGSHANS**

**TO BE SOLD OUT AT  
SACRIFICE.**

**BUFFS WON** at New York 1 cock; 1, 2, cockerels in largest class ever shown.

**BOSTON**, 1, 2 cocks; 1, 2, 3 cockerels; 2 hen; 2 pullet.

**WHITE LANGSHANS WON** more first and second prizes at large shows than all other breeders combined.

**ALL STOCK TO BE  
SOLD AT ONCE.**

My time is demanded for other business.

**CHAS. M. CLIME**, Terre Hill, Pa.

# 500 Yearling White Wyandottes, 500 Yearling White P. Rocks

**Are Waiting Your Orders. We Sell Them  
Low If You Want Them Now.**

Please mention Poultry Keeper.

**Pollard's Poultry Farm, - Attleboro, Massachusetts.**



and simple, which is also true of other contrivances which seem so mysterious until their construction is understood.

As soon as possible after receiving the equipment I prepared the nests and placed them in the pens, following very carefully the instructions, and waited very anxiously the results. No effort whatever was made to teach the hens to use them. They were simply placed in the pens and left. The hens were nearly through their molt and gradually were beginning to lay. To my great satisfaction they began to use them at once and seemed fairly captivated with them. As the pullets were fast approaching laying maturity, we lost no time in providing their pens with the nests so that they might become at least familiar with their appearance before beginning to lay. Perhaps this is quite important. It is at least reasonable. We made no other effort whatever to aid them, but as they began to lay they chose these nests without exception.

In reading other reports mention was made of quite a large number of eggs laid outside the nests, but with the exception of occasionally finding an egg on the dropping boards in the morning, I do not think that we have an average of one egg per month laid outside from a hundred hens. Our records are not altogether complete, however. Circumstances make it necessary to sometimes use the nests open, for a day, and in one instance for several days, but not enough to make any practical difference in the useful part of the knowledge sought.

I decided before beginning their use that while I would have my records as complete as possible, that I should consider them as subservient to me. I would be bound beyond all reason to them, and while I realize that absolutely complete records are very interesting as well as useful, those records that are practically complete are also very useful and valuable.

Perhaps the question most frequently asked is how long it takes to attend them. A comparison with open nests makes the answer more plain. Where hens are kept in any considerable number we have found five collections a day necessary when using open nests. When we did not collect as often as that, too many eggs were broken by hens crowding in one nest and the egg eating habit was thus formed and encouraged. So we collected at the time of their morning feed, the middle of the forenoon, at the noon feed, the middle of the afternoon, and at the night feed. We do the same with the traps and no oftener. With the proper number in each pen that is often enough. The trip to and through the pens has to be made anyway, so does not figure for or against either system.

It certainly takes a little longer to remove the hen and record the number than to take the eggs from the open nests, but I find that I can easily and without undue haste attend to the traps of a hundred hens in five minutes, and about half that time would be required to collect from the open nests. One should remember that all the hens do not lay the same day, and those that do lay do not all lay at the same time, so it is distributed through five collections. The total number is divided that so much time is not needed as one would naturally suppose.

I figure that the extra time for each one hundred hens is about twelve minutes per day. A poultryman's labor is supposed to be well paid at twenty cents per hour. If he can happily realize more than that he can credit it up to skill or experience, and perhaps say that he is making money at least to the amount of that excess. It may seem that I have gone too far into the details, but the poultry business is pre-eminently a business of detail, and the poultryman must win along that line if he wins at all, for even the successful poultryman at the best can only earn money. He cannot make money in the sense that the promoter makes it, or the manipulator of speculative interests, or even as is possible in many other ways by the aggregation of capital and skill and opportunity.

Relative to the result of the present year's work, it would be gratifying if we could report the identification of a large percentage of two hundred egg hens. A conservative regard for truth, however, forbids that statement. The best we can say is that we found a few extra good layers, a fairly good number of good layers, and quite a number that were below the profit paying line. As this was our first year these poor layers were kept a little longer than we should do another time, as we wanted to be sure of their ability, but they were turned off as market poultry many months earlier than they would have been without knowing their records.

The cost of their feed was nearly a clear saving, as there was only a slight decrease in the total egg yield. Of course what eggs they would have laid would count as far as they went toward their feed, but probably hens that lay poorly during the best laying period would do almost nothing after the natural laying season was over. And as they are turned off we realize on their bodies at once, and there is more room and less labor. In addition to this is the fact that as a certain number are usually carried over to another year, some of these would be sure to be among those saved, as they were fine appearing hens and one could hardly believe that they were not among the best.

We found some that would lay a litter of twenty-one to twenty-eight eggs, with only three days of not laying while

**BARRED P. ROCKS** Exclusively. Cockerels from \$2 to \$5 each; pullets \$1 to \$3. Finest birds ever put on the market for the price. Please mention Poultry Keeper.  
9-13 GEO. W. SEIRPP, Edwardsport, Ind.

## WHITE WYANDOTTES NONE BETTER.

As white and good as the best. Fine birds, good for m. strong laying qualities. EGGS REDUCED balance of season; \$1. per 13. Stock for sale.  
D. C. ADAMS & SON, Box K, North Haven, Conn.

**\$3.50 for \$1.95.**

Success with Poultry.....\$1.00  
Farm Poultry..... 1.00  
Green's Fruit Grower..... .50  
Reliable Poultry Journal.... .50  
Poultry Keeper..... .50

ALL.....\$1.95

This is one of the best offers ever made to poultry keepers. It gives the cream of poultry literature and best fruit journal. Address,

Poultry Keeper Pub. Co.,  
QUINCY, ILL.

## Brooding Par-excellence.....

It is comparatively easy to hatch chicks; it is another thing to raise them with ordinary brooders.

You consider yourself fortunate if able to raise over 50 per cent. With the Neversink Brooding System you can raise from eighty to ninety-five per cent.

This system is entirely different from any other.

Dr. Hartman, manufacturer of Peruna, recently installed a Neversink System in his two hundred foot brood house.

Write for illustrated catalogue to-day—before you forget.

Neversink Incubator & Brooder Co.,  
Box 5CC, Columbus, Ohio.

# 12 FIRSTS AND 9 SECONDS

At Worcester, Clinton and Framingham,

Three of New England Largest Fall Shows

## Prove that Raymond's Barred Plymouth Rocks and Rhode Island Reds

Can win in any competition.

**YOUNG STOCK FOR SALE NOW.**

R. I. Red Standard and Catalogue Free if you mention Poultry Keeper.

**D. C. RAYMOND, Box 955, South Framingham, Mass.**



delivering those eggs, and then rest from nine to eleven days, and then do the same amount of laying again repeatedly during the year. Of course those will naturally be saved for breeders for next year.

Another matter of interest was the fact that a good layer would sometimes stop laying, would appear well, would go on the nest, eat well, seem all right in every way, but still could not lay. When killed and dressed we would almost always see plainly the cause, usually some derangement of the egg organs like the hardened yolk of an egg, or something similar which did not seem to effect the health of the hen, but yet prevented laying and would doubtless cause barrenness and ultimately death.

As a matter of profit that the use of the system has been to me during the past year, based on the most careful information and observation obtained first hand, and submitted to a strictly business calculation, we feel sure that the difference in our favor is at least twenty dollars on each hundred hens. The thought that our experience might possibly help some one else to a similar saving has prompted the writing of this article. I should add that one very convenient arrangement we have with reference to keeping the record is as follows: In each pen we have a small pad on one of the central nests, a sharpened pencil attached to a string is also there, and the number of the hen put down. At the last collection the day's slip is torn off and later entered in the record book. The pads cost ten cents per dozen and last perhaps a year or more.

#### Sales Have Trebled.

Millville, N. J., Oct. 6, 1903.  
Editor Poultry Keeper.

Our business during the past twelve months has nearly trebled that done in the year preceding. We sold every bird we could spare, and could have sold more good ones. During the height of the egg season we were forced to return money for orders we could not fill, as we had booked ahead nearly all we could spare for the year. The outlook for next year is the brightest I ever knew, and we have already sold a number of birds for the fall and early winter shows.

To meet our increasing trade requirements, we have nearly double the chicks we ever raised before and have selected 300 cockerels from over 1,000, that are good enough to head our customers' best breeding pens, and to go into hot competition and win for them. We have now completed our original building schedule, and will add new buildings, from time to time, as they prove necessary. We now have room for present stock, but will probably build another laying house next year.

The Poultry Keeper holds its own among the four leading mediums we use, and we consider it a fixture on our list.

Millville Poultry Farm Co.,

By Maurice F. Delano, President.

#### DON'T SUBSCRIBE!

Don't subscribe to any poultry or farm papers or magazines until you get our clubbing rate. We can supply at greatly reduced rates any publications desired. Send in a list of what you want. You can save money here. Poultry Keeper Pub. Co., Quincy, Ill.

#### RECORD OF LIGHT BRAHMA PULLET.

Melrose Park, Ill., Sept. 5, 1903.

Editor Poultry Keeper.

I have a light Brahma pullet that commenced laying Aug. 30th, being four months and twenty-two days old; has laid an egg every day since. Can any of the P. K. subscribers beat it? I have fed dry food exclusively this year, and did not have a sick chick the entire season. I am taking four poultry journals, but the P. K. is our favorite.

J. C. LaGrange.

#### Perfect Chick Feed.

Mr. W. F. Chamberlain,  
Kirkwood, Mo.

I wish to give a wholly unsolicited testimonial as to the splendid benefits I have received from your "Perfect Chick Feed," and I hope it will do you an unlimited amount of good, as well as convince the public in general that there is a saving of about the price of your feed on every one hundred chicks over the old methods. It will save one-half the time, one-half the feed and it has given me about 95 per cent returns on my flock. You will see by the circular inclosed that my strain proves the merits of both breeding and your feed.

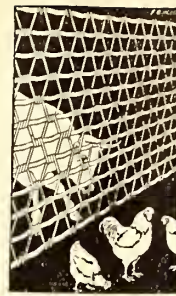
Yours for success,

Charley Gibbs, Specialist.

Wayzata, Minn. July 9, 1903.

(See bottom of outside cover for ad.)

Cut bone twice a week is ample where birds have a variety of foods. If corn and wheat only are used bone should be given at least three times a week. When fowls reject it they have been fed too highly. Where birds are on the range during the fall months it is not necessary to feed cut bone more than once or twice a week. Chopped clover, scalded, may be given every other day, alternating with cut bone. Chopped vegetables will not serve as a substitute, but will answer as a partial substitute if sprinkled with bran.



#### HORSE-HIGH.

Many styles and heights, made of High Carbon Colled Spring Steel Wire, heavily galvanized. REGULATES ITSELF.

#### BULL-STRONG

Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.

#### CHICKEN-TIGHT

Fence, that will turn all kinds of large stock as well, is seldom found. We have it. Send for our Catalogue. It's free. COLLIER SPRING FENCE CO., Box 222, Winchester, Indiana.

## de Wolf Farm,

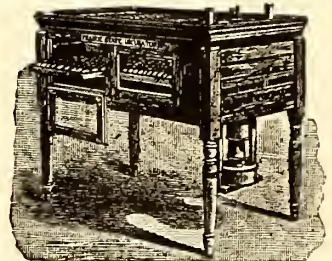
Papposesquaw, Bristol, R. I.

Prize winning RHODE ISLAND RED cockerels, pullets and two-year-old stock. SPECIAL OFFER OF WINTER LAYERS. PULLETS at \$1.25 each for six or more.

1-12

M. de W. Mudge, Prop.

## Prairie State Incubators and Brooders



Never in such demand. Export sales would keep factory busy to its limit, if we would let them take precedence of home orders. Factory ran full capacity all summer, to anticipate fall trade, and we are in position to make immediate shipment of orders. We suggest that those who think of buying a Prairie State Incubator or Brooder during coming season, to place orders now and avoid delay liable to occur latter in the season. Isn't the most popular incubator the best one for you to buy? Send for catalogue "T."

Prairie State Incubator Co., Homer City, Pa.

## RICH GOLDEN BUFF

## BUFF WYANDOTTES

## THE SANBORN KIND

DR. N. W. SANBORN, Box 66, Bellingham, Mass.

I have the best lot of cockerels ever owned. Size, shape and egg productiveness I have had several years. The color is the best I ever saw. I have ready to ship, 25 fine cockerels that will put the real golden buff into your strain. Prices, \$3, \$5 and \$7, and no more at these figures when this lot is gone. Money back if the birds don't suit.

# MILLVILLE YOUNGSTERS

WILL WIN AND BREED WINNERS FOR YOU.

THE GRANDEST LOT OF

## Barred and Buff P. Rocks, Buff and White Wyandottes and Pekin Ducks

we ever raised are now ready to ship. We can sell you choice show birds or carefully mated breeding pens that are line bred from our winners at

New York, Boston, Philadelphia and Other Leading Shows.

Sure winners in young or old at prices that will please you. Remember, if unsatisfactory, we pay return charges and cheerfully refund your money. Our catalogue will tell you our record, and our methods. Would you like it?

MILLVILLE POULTRY FARM CO., Box 1, M. F. Delano, President, Millville, New Jersey.



**CHOLERA REMEDY—TO KILL HAWKS.**

Editor Poultry Keeper.

In your September issue I notice some friends seem to be troubled with cholera in their chickens. I have a remedy that is a sure cure. If taken in time it will cure in twenty-four hours. I give it for the benefit of my friends:

- 8 ounces of sulphate of iron.
- 1 ounce of sulphuric acid.
- 2 gallons water.

Mix well. Dose, tablespoonful in quart of drinking water for fowls.

Keep this in bowls and change two or three times a day. This is an excellent remedy. I have used it and found it good.

Here is a good way to get rid of hawks: Feed ground nux vomica in soft food. It will help your chicks and kill hawks. Any bird or animal born or hatched with its eyes closed nux vomica will kill. My mother used this and found it good. You may use this information or not just as you please.

Yours truly,  
Mrs. O. A. Clapp.

**CEMENT FLOORS.**

Now is the time to fix the floors of poultry houses so that they may be in readiness for cold weather. A great deal of feed is wasted by throwing the feed on the ground or dirty floor. A subscriber in Ohio gives the following and says that if you use this cement you cannot say that it will cost too much.

Take four bushels of coal ashes and one bushel of fresh slacked lime. Mix well and let stand for four or five days. To the mixture add one gallon of salt and apply. It is rat proof and is as easily cleaned as any cement floor. The coal ashes should be coarse, as it makes more of a rock. To make the floor very firm, make a foundation of broken stone, and make the cement thin enough to settle well into the stone. Let it set a few days and apply a second coat. This is said to make a floor equal to any cement.

The price of the American Standard of Perfection, the authorized guide to the breeding of standard bred poultry, is \$1. We buy this book in wholesale lots and give our subscribers the benefit of our low price. For \$1.25 we will send the Standard of Perfection postpaid and a full year's subscription to the Poultry Keeper. Address Poultry Keeper Pub. Co., Quincy, Ill.

**Pullets Should Be Laying.**

Two or three weeks of judicious management now to assist the pullets in forming their first crop of eggs, so to speak will make a vast difference in the product of eggs during the next four or five months.

Mr. E. R. Stewart, of Lancaster, N. H., says: "I had twelve fine Plymouth Rock pullets. The early hatched ones commenced laying in the fall; when cold weather came on they stopped laying, while the rest had not begun to lay. I then commenced using Sheridan's Condition Powder, advertised to make hens lay. In ten days one pullet commenced to lay, in fourteen days three more began, and in just one month from the time I began using the powder, all were laying."

I. S. Johnson & Co., Boston, Mass., will send further particulars to any one free.

**Single Comb White Leghorns**

Stock from good to the very finest quality for sale.

H. C. BEEBE. BANNER, ILL.

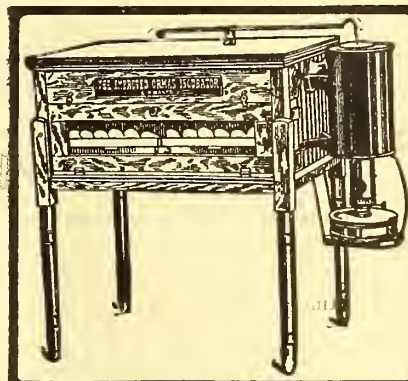
**WHITE PLYMOUTH ROCKS**

ONLY A FEW LEFT. If you want a good cockerel or pen let me hear from you at once. Breeders from a leading strain and the stay-white kind.

PEARL LAWSON, STAUNTON, IND.

**BIXLER'S PHYSICAL Training in Writing**

For home instruction and complete mastery of the pen; a book for all the people all the time. in all vocations. 60 pp. illustrated. Price \$1.00  
Prof. G. BIXLER, Cor. Ogden Ave. & Madison St., Chicago, Ill.



**INCUBATORS**

From \$8 up

**BROODERS**

From \$4 up

Self Regulators, Self Ventilators, No Supplied Moisture. Made of best California Redwood. Easy to operate. Fully guaranteed. Automatic Brass Regulator Automatic Ventilation. Send for Free Catalog.

L. A. BANTA, Ligonier, Ind.

**GET A DANDY**

There's no investment a poultryman can make which will yield a greater profit than a good bone cutter.

It turns easily and has automatic feed, leaving both hands free.

**SOLD ON 15 DAYS TRIAL.**

No Money in Advance.

If not entirely satisfactory you need not keep it.

Price from \$5.00 up. Send for our special proposition.

**DANDY**

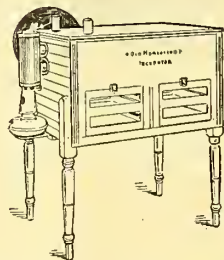
Green Bone Cutter



has nine years record as a thoroughly practical, satisfactory machine. It's the most durable of all bone cutters.

STRATTON MFG. CO.,  
Box 43 Erie, Pa.

**This Is The Old Homestead New Incubator**



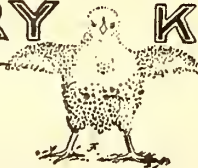
and it will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send

for it. It is free to all who mention Poultry Keeper when writing.

**OLD HOMESTEAD BROODER CO., Middleboro, Mass.**



# SUCCESSFUL POULTRY KEEPING



[This department is devoted especially to the cause, and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## THE TEACHINGS OF THE SEASON.

Dr. N. W. Sanborn, Bellingham, Mass.

**N**O ONE of us has kept poultry so long that he has no more to learn. No one of us is too old to learn to keep better poultry at a larger profit. We should gain from the experience of the seasons as they come and go. The past six months have not been without their teachings. To you and to me have come results, good and bad, that must have made impressions more or less lasting. Let us look at some of these.

### Grass Runs for Breeding Stock.

It has been a source of satisfaction to have grass runs for my breeding stock. Birds that are only laying eggs for the open market do as well on supplied green food, but it takes more than that to get strongly fertile eggs. A large range on grass covered soil helps toward producing an egg that will give a chick that is sturdy from start to finish. There is a difference in fertile eggs. Most of them hatch, but the progress of the chick tells quite a story as to conditions previous to the laying of the egg. The best breeding stock is that kind that has had right growing conditions back through more than one generation. It is a help to success in poultry lines to keep sturdy birds and one of the great secrets of getting

this kind of birds is to have practically free range. This does not call for all-outdoors, but demands a yard so large that the grass is not eaten faster than it can grow. A yard that is bare of grass is not the place to get fine results from any pen of birds.

### Gain in Eggs From Beef Scraps.

Another method of feeding has given results so sure as to make quite an impression on me. This has been the keeping of beef scraps before both breeding stock and growing chicks. I have fed my well balanced mash, as in former years, and also keep bins of bran and meat scraps within constant reach of nearly every bird. In fact, I have but two pens that have not had these bins, and there has been a decided difference in the number of eggs and the strength of the chicks hatched and raised. I might think these results simply an accident, if it were not for the reports that have come to me from other men who have begun to feed as I do. With a single exception, the words in favor of having beef scraps always in reach have been so emphatic as to make this one of the lessons of 1903.

It is not alone the breeding stock that does better work because of the protein

food at hand. The chicks round out in better shape and maturity is not so long delayed. A neighbor of mine who bought a pen of birds early in the year hatched chicks March 20th and is now, early in September, getting pullet's eggs. This is a good record for Wyandottes, not the White variety that has had so much to be said for it as an egg bird, but the Buff Wyandotte that has been largely handled by the fanciers.

I speak of this case because this neighbor has been most careful to see that the meat supply did not give out, and otherwise his birds have not had so good a range as mine. I have raised many chicks the past fifteen years under good surroundings, but this year's crop goes ahead of them all. I began to market the culls late in June (hatched late in March) and so stocky birds I have never owned. I consider that free range and an abundant supply of animal food the prominent factors in this result.

### Furnishing Ample Coop Room.

I have done this year what I never succeeded in doing in past seasons—that is, in so cooping my growing chicks as not to crowd them at any stage of growth. Most poultrymen get caught in this particular. The chicks double in size so suddenly that before it is noticed the birds have been injured by the results that surely follow crowding at night. Thousands of chicks are stunted by this crowding process, if indeed they do not die of catarrhal troubles.

I have moved my birds to larger coops as they increased in size, where it was not possible to remove the cockerels. As the pullets have neared maturity they have gone into their winter quarters, and the bothersome cockerels have been yarded by themselves. This has taken the pressure off the coops, as well as given more range room to the later hatched chicks.

### Feeding the Growing Chicks.

It has been my plan this year to feed the young chicks first in the morning as they were let out of their roosting coops. I take my measure of grain and scatter some of the contents in front of the coop

**“The Breed that Lays is the Breed That Pays.”**

We are the Most Extensive Breeders in the World of



**Single  
Comb**

# White Leghorns

We Have Hatched and Raised to Maturity this Season More Pure Bred Chicks Than Any Other Breeder.

If you want winter layers get our early hatched pullets—bred specially for egg production.

If you want prize winners, our young birds hatched from special, prize-winning pens will surely land you winners.

➡ **Extremely Fine Cockerels at Very Reasonable Prices.** ⬅

Birds are packed and shipped with very great care and every effort is made to meet the exact requirements of our clients. Send 2-cent stamp for catalogue.

**WHITE LEGHORN POULTRY YARDS,**

**Box 514,**

**WATERVILLE, N. Y.**



containing the last hatched chicks. These are then let out and I pass to the coop of the next size chicks, feeding as before. In this way every chick has had a chance to get a full breakfast without the trouble of being "nagged" by the older birds. This plan has proved a good one. It has saved more than one sick chick and furthered growth in all the birds. The birds have been well fed—morning, noon and night have they had food in abundance, all they could eat and a little for lunch.

I have always believed that it is good business judgment to feed growing chicks three full meals a day. I have seen more failures in chicken growing from too little feed than from feeding a full ration three times a day. We have to be careful about giving our laying stock too much food, but I have yet to see the pullet that is hurt by a liberal supply of food up to the time of completing her first litter of eggs. If she gets to laying in late fall she will need a good ration all through the winter months. It is the non-laying bird that suffers from too heavy feeding in the cold months.

**Lice and Mites.**

Lice and red mites have been in mind all the summer. They have been watched for from middle May and kept under during all the hot months when they flourish so largely. Poultrymen seldom do anything to kill lice until they see evil results right at hand. When that stage has arrived, mischief has been done that can never entirely be made right; when the chicks have been weakened by the loss of blood enough to show it to the owner they have received a shock to their system that is lasting. Most of the late hatched chicks die directly or indirectly from the ravages of the red mite, or spider louse as it is often called.

The red mites do ten times the damage of the louse. It sucks the red blood of the chick, while the common louse "fusses" around the feathers of the bird. The louse irritates the bird, while the mite weakens the strength. I have used a sprayer with two of the liquid lice-killers that are well advertised in the poultry papers, and have gone over roosts

and roosting coops once in two weeks. Even this would not have been perfectly satisfactory if I had not burned the contents of all nest boxes in middle June and late July. As it has been, I have not been annoyed by the usual number of mites, and the birds have done a more satisfactory season's work. Both chicks and adult birds show the good results of fighting lice and mites.

**Weeds Make Good Green Food.**

This season I have fed more weeds than in any past year. I was obliged in late June to take a forced vacation from my work as a physician and saw much of the northern Adirondacks in the care of one of Poultry Keeper's advertisers. During this vacation the weeds in my large vegetable garden got a tremendous start and have been my source of supply the past two months. A wheelbarrow full of weeds, not far from one hundred pounds in weight, disappears in two days when thrown into the yards of seventy-five laying birds. As the weeds went to seed I fed them in larger quantity so that the birds could eat only the seeds and part of the leaves, leaving the stalks for scratching material.

Any of the weeds that got dead in the field will be put into the long houses for scratching material for the shut-in months of winter. The feeding of weeds has supplied a good food for yarded stock and reduced the amount of material that otherwise would have to be bought.

**Maturing Pullets.**

I am yarding my pullets as they near maturity. I find that they get to laying earlier, and arrive at standard weight sooner, when yarded. The pullet that has free range runs off much of the food that should go to building up the body. Some of my pullets were nearly up to weight early in September and they are "showing the red" and singing that musical note that indicates that the egg will soon be found in the nest.

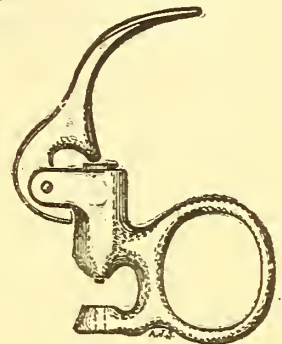
**Selling Surplus Cockerels.**

I have found it true this year, as in past years, that it does not pay to keep

the spare cockerels when there is any demand for their meat. They do not increase in weight enough to balance the constantly dropping price per pound as the weeks pass. The cull bird of the fancy breeder will bring more money in July than it will in October. While it is not always possible to cull closely, it is best to sell most of the doubtful birds just as soon as a market can be had. This brings you some ready money, removes much of the crowding of house and range, and leaves a flock that looks fifty per cent better.

These and other lessons have been taught me this season of 1903, and I would that you would think them over and try them another year. If they prove helpful in pleasure or money I shall be glad to have you tell me so. If they do not give you the results that they seem to me to warrant, will you tell me so?

**P. K. Poultry Marker.**



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the

web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

**SIMPLY WONDERFUL**

how, at nearly every poultry show being held, the winners in the

White Plymouth Rock Class are Birds Direct from or Descendents of the.....

**Fishel's White Plymouth Rocks**

Our last exhibit at American Poultry Ass'n, meeting at Indianapolis, Ind., September 14-18, 1903, the Fishel White Rocks won 1st, 2d, 3d prize cock; 1st, 2d, 3d prize hen; 1st, 2d, 3d prize cockerel; 1st, 2d prize pullet; 1st, 2d, 3d prize pen.

What better proof can I give you as to the excellent quality of this season's matings? At Chicago, Atlanta, New York State Show, St. Louis, Indianapolis,

Great Crystal Palace and Dairy Shows, England, my birds have won the leading prizes, I have something over 4000 birds to sell. Exhibition birds able to win anywhere,

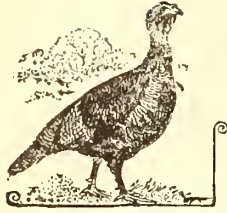
Send a 2 cent samp for my 36-page Catalogue. It gives half tones of my winners, tells how to feed, etc.

**FOX TERRIERS  
....FOR SALE....**

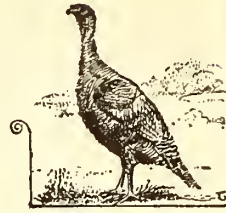
**U. R. FISHEL, Box K-2, Hope, Indiana.**







# TURKEYS FOR PROFIT.



[Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones, of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.]

## Nearing Maturity—Motherly Toms—Mistakes In Feeding—Remedy for Bumble Foot.

**A**S the cool nights come on the turkeys hover around the buildings to roost and show by their lingering around the house that the crop of grasshoppers is getting thin and they have to forage nearer home. I do not commence feeding grain until the ground begins to freeze, as they can pick what corn they need out of the field at this time, and if they are forced to pick up their own grain at first they are not apt to overeat and suffer from indigestion, which causes more mortality with turkeys than all other ailments combined. When the cool weather comes on, how they do grow!

### A Tom That Plays Mother.

A novel sight is one of my big toms trying to raise three motherless turkeys.

Their mother died from some unknown cause about a month ago and they commenced following this tom around, and now you can see the big tom with his wings spread out to their fullest extent covering them completely. Through the day he walks around as though he realized the responsibility of raising a family. I sold a tom to a man in Maine and this fall he wrote me for prices on hens, as he did not like to let his tom go, as he would take the young turkeys as soon as hatched and raise them himself.

### Mistakes in Feeding.

A lady wrote me in regard to the hatch of eggs bought. Her home is in Missouri, where they raise wheat and Kaffir corn. The eggs hatched well considering the

distance, and she was very well pleased with her poults. They all lived until the last week in July, when one commenced to droop, with a thin watery discharge from the bowels, with a yellowish, thick stuff in it. In twenty-four hours it was dead and the rest soon followed. She lost about ninety Buff turkeys. After that she fed wheat and Kaffir corn whole, with plenty of fresh water and grit; also fed some curd and a little corn-bread, with occasionally light bread crumbs. She asks what she should have done to have saved her poults. They had just reached the age when they began to "shoot the red."

If she had quit feeding about the first of July and turned them out on the range, bringing them home about four o'clock and feeding a light supper, I think she would have raised all her turkeys. When turkeys begin to "shoot the red" it is the trying time of their lives. If they successfully pass that stage they grow rapidly to maturity. All animals have a more or less critical period in their lives, after passing which they grow more strong and robust, the period of the change in their lives corresponding to the natural age they live. A yearling colt is often a very inferior looking animal, but after he passes what we would call the first molt in chickens, he begins to pick up and after shedding his second coat he matures into what may be one of our finest horses. Of course a turkey is short lived compared to a horse and reaches its critical stage sooner.

### Forage on the Range.

Now if turkeys are not overfed and the

# Let Us Do Your Printing

Our work is strictly first class, neat, attractive and Up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed will bring orders, where poor printed matter spoils all.

## Good Printing is one of the Secrets of Success in the Business.

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, *without extra charge*. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. *Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.* Terms, cash with order.

Size of cards, note heads, envelopes, etc., are given in inches. Prices for ruled note heads and letter heads quoted on two weights of high grade commercial paper. Either will give satisfaction. Prices of printing.

| BUSINESS CARDS.                 |        | ENVELOPES.         |        | LETTER HEADS.              |        |
|---------------------------------|--------|--------------------|--------|----------------------------|--------|
| 250, Size 2½x4½, Square.....    | \$1.25 | 250, No. 6½.....   | \$1.25 | 10-lb. Paper, 12-lb. Paper |        |
| 500, " 2½x4½, " .....           | 1.75   | 500, " 6½.....     | 1.75   | 250, Size 8½x11.....       | \$1.90 |
| 1000, " 2½x4½, " .....          | 2.75   | 1000, " 6½.....    | 2.75   | 500, " 8½x11.....          | 2.50   |
| 250, " 2½x4½, Round Corner..... | 1.50   | 250, " 9.....      | 2.00   | 1000, " 8½x11.....         | 3.75   |
| 500, " 2½x4½, " .....           | 2.00   | 500, " 9.....      | 3.50   |                            |        |
| 1000, " 2½x4½, " .....          | 3.25   | 1000, " 9.....     | 5.00   |                            |        |
| SHIPPING TAGS.                  |        | BILL HEADS.        |        | NOTE HEADS.                |        |
| 250, No. 4.....                 | \$1.00 | 250, Size 6x9..... | \$1.60 | 6-lb. Paper, 7-lb. Paper.  |        |
| 500, " 4.....                   | 1.25   | 500, " 6x9.....    | 2.00   | 250, Size 6x9.....         | \$1.50 |
| 1000, " 4.....                  | 1.75   | 1000, " 6x9.....   | 2.80   | 500, " 6x9.....            | 1.85   |
|                                 |        |                    |        | 1000, " 6x9.....           | 2.60   |
|                                 |        |                    |        |                            | 2.80   |

**HALF TONES.** If you want half tone made of a choice bird or pen, or portrait of yourself or any other subject, we can supply the best grade of work at 20c. per sq. inch; minimum, \$1.65. We have full office force and people are paid to answer questions and help you to get just what you want.

Let us supply you with up-to-date printing—the *klad that brings business*. We know we can please you. Order direct from this ad or write,

**POULTRY KEEPER PUBLISHING CO.,**  
JOB PRINTING DEPARTMENT.  
QUINCY, ILLINOIS.



lice are kept off they reach that stage of their existence in a strong, healthy condition and stand the change all right, providing they are turned out to pick up their own living, as it compels them to exercise in hunting grasshoppers and other matter that makes up their food on the range. It is a mistaken idea to feed turkeys all they will eat the season through. They should be fed a light feed, just what they will eat up clean in a few moments, always keeping them a little hungry. As soon as possible after the first of July start them out on the range, always bringing them home at night to roost. One can almost warrant them to live after that, barring accidents. The lice must be kept off until then, and again before they go into winter quarters they should be gone over for lice.

**Bumble Foot.**

A subscriber at Knox, Ind., writes: "One of my hen turkeys began to limp and one of her legs swelled from the foot to the joint. After a while a swelling came on the middle of the other foot. She was unable to walk for two months, although her appetite was good. At last she got so weak she died."

I think this trouble was bumble foot, caused by bruising the bottom of the foot by jumping from a high roost. I lost a very high priced and valuable tom in that way. After I discovered the condition of his foot I soaked it in weak lye made by pouring boiling water over wood ashes, putting the foot in as hot as he could stand, soaking it a long time, and poulticing with bread and milk or flax seed poultice. The trouble had gone too far before I began this treatment and his foot became putrid and blood poison set in. Bumble foot can be cured in this way if taken in time. A lady friend doctored a turkey a long time for this trouble and finally amputated the foot and the tom walked around on the stump. A gentleman wrote me that it is difficult to treat trouble of this kind, as there is such a quantity of blood flowing through the foot it causes a high fever, that is almost impossible to control and effect a cure.

**FEEDING IN WINTER.**

The matter of feeding in winter, in order to make the hens lay when prices are high, is one requiring the best judgment. There is much to do in observing the fowls. Any rule laid down for all to follow cannot be observed in general, as so much depends on locality and circumstances. Fowls differ, and it is only the one who attends to a flock who can judge rightly what should be done.

While it is an accepted fact that food is converted into eggs, yet success depends upon the kind of food. Poultrymen are admonished against corn, but there are days during the cold season when corn proves to be the best food that can be allowed, and the proportions given must be regulated by the condition of the fowls. The great problem in the management of poultry is to learn how to feed. No one can instruct on the subject, except to call attention to certain undeniable truths connected with feeding, for the one who knows how to feed must learn by daily observations; and while successful with one flock there will be much to learn in managing another.

**BREEDERS' CARDS.**

The "Breeder's Cards" style of advertising (see page 280) is especially suited to the breeder on a limited scale, who at a nominal sum can dispose of his surplus stock and eggs at a considerable profit. The cost of these ads is a trifle as compared with the returns. Our regular issues are 25,000 copies per month and every copy printed goes direct to some one who is interested in poultry. It is as much to our interest as yours that we get into a good field. Rates for "Breeder's Cards" are as follows:

- One month..... 3c per word
- Two months..... 6c per word
- Three months..... 9c per word
- Four months..... 10c per word

This means that you can advertise in 100,000 copies of Poultry Keeper at a cost of but ten cents per word for four months. The very best months of the poultry year are November, December, January and February. A thirty-word Breeder's Card for these four months would cost but \$3. The returns received will pay many times over. All ads are classified under attractive headings. Remember, we issue the fifteenth of the month. Questions cheerfully answered.

Write to-day. Poultry Keeper Pub. Co., Quincy, Ill.

A. J. Felthouse, the Light Brahma specialist of Elkhart, Ind., sends the following strong testimonial written by one of his customers on receipt of stock: "The fowls arrived safe and in good condition. I am very much pleased with them. I expect to give you another order before long.—Prof. L. D. Abbott, Huntington, W. Va." Mr. Felthouse asks Light Brahma breeders to send to him for stock. See ad on page 278.

**200 Egg Incubator**  
For \$12.80

The simplest, most perfect incubator made in the world. This is a new one at a remarkably low price. It is an enlargement of the famous

**WOODEN HEN**

and made as thoroughly good as any incubator on the market. It will hatch every fertile egg, and stand up to regular usage as well as the most costly.



Write for free catalogue with 14 colored views.  
**GEO. H. STAHL,**  
Quincy, Ill.

**LAST CALL.**

Orders bearing post mark of October 31, or earlier from anywhere on earth will be filled at 80 cents postpaid. Later orders will not be filled for less than ONE DOLLAR.

**SYSTEM IN POULTRY PRACTICE.**

30 Chapters; 147 Pages.

The price of chapters will not be advanced, for nearly every chapter sold results in an order for a book. Any one chapter postpaid, 10 cents; any two, 18 cents; any three, 25 cents; any four, 30 cents; more than four, 7 cents each.

- Feeding of Chicks.
- Feeding of Broilers.
- Rearing of Breeders.
- Main Causes of Mortality in Chicks.
- Real Value of Free Range.
- Crops in Poultry Yards. (Illustrated).
- Factors of Prolificacy.
- Process of Molting.
- Best Breed of Fowls.
- Hereditary Influence on Individuals.

- Differences in Eggs.
- Pekin Ducks. (Illustrated).
- Plumage of Fowls.
- Combs of Fowls.
- Main Causes of Degeneracy.
- Causes and Prevention of Diseases.
- Factors of Fertility.
- New Blood and Grading Up.
- Balanced Rations for Fowls (12 chapters).

**JAMES SHACKLETON, Box K-12, Milburn, New Jersey.**

**Young Stock Now Ready to Ship**  
**FROM STANDARD-BRED STOCK.**

Guaranteed true to name and first-class Stock. Have Hundreds of breeding birds, all varieties. We have all varieties of

- Plymouth Rocks, Wyandottes, Leghorns,
- Minorcas, Cochins, Langshans, Brahmas, Indian
- Games, Andalusians, Bantams, Black Spanish, Etc.
- Red Caps and White Crested Black Polish.

You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue, price 4 cts. Mention Poultry Keeper.

**Northwestern Poultry and Fruit Farm,**  
**WALTER SEIDEL, Prop., Box K, Eleroy, Ill.**



# ARTIFICIAL INCUBATING

AND

# BROODING



[In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another.—Editor.]

## THE "KNACK" OF RUNNING AN INCUBATOR.

Ansonia, Ct., Sept. 25, 1903.

Editor Poultry Keeper.

In reference to the indifferent success of Mrs. J. D., as reported in your August issue, I must presume that she has only run an incubator a few times, and that her courage does not come up to the required point, or else her directions in regard to running the machine are faulty. And right here let me explain just what I mean by courage, which I will do by relating an incident, trivial in itself, but clearly showing the point I wish to make.

A neighbor of mine, living an eighth of a mile away, was given a couple of hens, one of which was soon killed for a Sunday dinner; the other ran away and took up her abode with our fowls. In due time, when the weather had become mild and settled, that hen wanted to sit, and without as much as by your leave, went off into a nearby jungle for that purpose, as they all run at large and there was nothing to hinder.

Every effort was made to locate the nest, but without avail, and as the hen stayed around, sometimes three or four hours at a stretch, when at the house for food, we naturally did not look for any chicks, but one day she turned up with six chickens, good strong ones. This is the incident; now for the point, or the interpretation thereof:

That hen left her eggs exposed to the air in the aggregate not less than fifty hours during the period of incubation, the temperature at the time of day that the hen came up to feed was not less than seventy degrees at any time, and the nest was manifestly well protected from sun and wind, or it would quickly have been discovered. Lastly, it was located in a swamp. Now my own experience and my observation of others convince me that, as a rule, beginners lack the courage to cool properly, even when the directions are very explicit on that point.

An account of some of my experiences with incubators may help some. Some years ago a lady who had three machines gave me one in return for a couple of days' work, a sixty-egg, hot water affair, worth nothing and minus any directions. Being an all around mechanic I have fixed it up, and am at this time all the book of directions in my own person that I need. My first efforts were almost total failures, but when I caught on, and made practical application of prolonged cooling, my luck improved to a very satisfactory point.

In the absence of any general or special direction my first cooling operations

consisted in commencing to leave the eggs outside of the machine while caring for the lamp in the evening, commencing the first of the second week, and keeping the incubator door open as little as possible. This plan did not suit me very well, for the cellar where I ran the machine had a temperature as low as forty degrees some of the time, so, as the hatch progressed and the time of exposure lengthened, I would carry the tray of eggs upstairs and leave them on the kitchen table, not far from the fire, in a temperature of about eighty degrees, and for a time not exceeding two hours on the last cooling (nineteenth day).

This plan was very inconvenient, and the resulting chicks not satisfactory, either in numbers or quality, and mentioning my difficulties one day to a brother fancier, he said: "After you have turned the eggs, put them back in the machine and leave the door open awhile." But I objected. That practice would cool off the machine to such an extent as to ruin the eggs. "No it won't," he replied.

As the machine was small, the risk was light and the plan was tried with gratifying results, the second and third week being the time covered, beginning to cool five minutes or so at first, and gradually extending the time to the nineteenth day. I have never run my machine later than the fifteenth of April, so the cool weather has made it unadvisable or unnecessary to cool longer than an hour at the longest, but were I to run it in May or June, I should extend the average time nearly double.

I have never used any moisture; the cellar where the machine is used being that damp as to require the machine to be run a day or two before the door can be opened, in commencing operations, but were it a dry place, instead of putting water in the machine I would take a sprinkling pot and wet down the floor once in a while.

I determined the proper amount of ventilation for the machine by the behavior of the little chicks when first hatched, and have never been bothered on that point since. In brief, have learned the art and go at it without anxiety, solicitude, nervousness, sleeplessness or any of those worries that a beginner considers so essential.

Wm. H. Coyles.

Send Four Cents Postage for Catalogue to

**A. W. KOENIG**

NELSON BUILDING  
No. 19 Park Place, Dept. P,  
New York.

**POULTRY CUTS**

**WHY RUMLEY?** You will find the latest catalogue on Rumley's Rear Geared Traction Engines and New Rumley Separators full of reasons. Write us for it. Mailed free. Mention P. K. M. RUMLEY COMPANY, LA PORTE, IND.

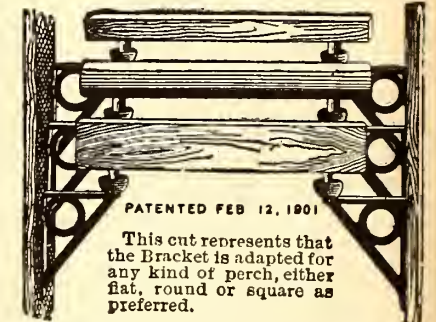
**DON'T SET HENS** the same old way while a 200 Egg Natural Hen Incubator Costs But \$5, when also equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against Infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue mailed all about and 25c Life Formals FREE if you write today. **NATURAL HEN INCUBATOR CO., 51, Columbus, Nebraska.**

## Bred to Lay

### White Wyandottes.

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper. 11-12  
**C. BRICAULT, Andover, Mass.**

## Catches Them Coming and Going



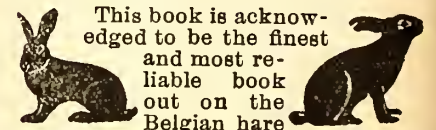
## Eureka Oil Cup, Bracket and Perch Supporter.

The Greatest Boon to Poultrymen, Practical, Durable, Cheap, Convenient.

A permanent fixture for all times. The spider or midge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.

Wm. M. Shrader, Box 94, Bucyrus, O.

## The Belgian Hare Guide



industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Crating and Shipping, Caponizing, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated

with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.

**PRICE, 25 CENTS.**

A year's subscription to Poultry Keeper (50c) and a copy of Belgian Hare Guide (25c) for 65c. Address Poultry Keeper Publishing Company, Quincy, Illinois.



**SUCCESS WITH POULTRY.**

The best book on poultry ever published, one which embraces every branch of the poultry business, is *Success With Poultry*. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? *Success With Poultry* will help you.

Do you want to know the methods in use on the big poultry plants of the country? *Success With Poultry* will tell you.

Do you want to get plans for building practical poultry houses? *Success With Poultry* contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? *Success With Poultry* tells this.

*Success With Poultry* contains 118 pages (9x12 inches in size), with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to *Poultry Keeper* and send *Success With Poultry* postpaid. Address *Poultry Keeper* Pub. Co. Quincy, Ill.

An advertisement of Climax Asphalt Roofings, manufactured by the McHenry-Millhouse Mfg. Company, of South Bend, Ind., makes its appearance this issue. See page 278. This is a superior article of roofing which deserves the attention of all builders, being worthy a place even on the most expensive dwellings, while sold at a price so low that it may be used for covering poultry houses, sheds and inexpensive out-buildings. A booklet setting forth its merits will be sent to any one who mentions P. K. when writing.

*Poultry Keeper* is recognized as the best practical poultry paper published. Our success is based on this reputation. Will you tell your friends about us; or better still, send us the names and addresses of persons interested in poultry so that we may send sample copies for their inspection. This will help us greatly. May we hear from you?

**WHITE WYANDOTTES**

Short Beaks, Short Legs, Red Eyes, Short Necks, Yellow Beaks, Full Breasts, Short Backs, Yellow Legs, Correct Combs. White all over.

E. H. SMITH, Beard of Trade, Duluth, Minn.

**SMITH SEALED LEG BANDS**



are used and endorsed by the best poultry breeders in America, because they insure positive identification of scored birds.

Prices: 12 for 30c; 25 for 50c; 60 for \$1; 100 for \$1 50. Sealers, 50c, 65 and 75c. Samples for stamp. Write for Leg Band Booklet and mention *Poultry Keeper*. The Keyes-Davis Co. Ltd., Battle Creek, Mich.

**You Will Not Fail** in the chicken business if you start right with a **Successful** Incubator and Brooder.

**SUCCEED WITH A SUCCESSFUL**

Not experiments but machines with years of successful record. Perfect regulation—perfect hatches. Do not swell nor shrink. A variety of styles and sizes. Large incubator book (156 pages) free. Books in five languages.

**Des Moines Incb. Co.,**  
Dept. 47, Des Moines, Iowa.,  
or Dept. 47, Buffalo, N. Y.

**Supply Your Poultry**

if you expect them to supply you. It is a good rule that works both ways. Try it. We carry a complete line of the best of

**Everything for the Poultry Business**

Incubators, Brooders, Oyster Shells, Grits, Foods, Roup Cures, Cholera Cures, Egg Producers, Beef Scraps, Meat and Blood Meals, Bone Cutters, Grist Mills, Food Cookers and hundreds of other items for poultrymen. Our descriptive, illustrated catalogue—makes good reading; is **FREE** if interested in pigeons, ask for Pigeon Supply Price List.

Write for Catalogue G **W. J. Gibson & Co., (Inc.) Union Stock Yds., Chicago.**  
H. M. Horton, Dept. Mgr. Gen'l Western Agents Cornell Incubators and Peep O'Day Specialties.

**VICTOR INCUBATOR**

The Victor's first claim is *Success*. It hatches every fertile egg—holds many records of 100 per cent. hatches. It is of simple but scientific construction, no delicate or complicated mechanism to get out of order. Self-regulating, requires no attention after starting. Well made and durable. 50 to 540 egg capacity. Lowest price for first class hatcher. Guaranteed as recommended or money refunded. Catalogue illustrated by photographs telling how to get increased results from almost any machine, for 6 cts. Write to-day.

**We pay the freight.**  
**GEO. ERTEL CO., Quincy, Ill.**

**PIONEER CLOVER MEAL.**  
**THE PERFECT POULTRY FOOD.**

**Genuine Northern New York Grown Clover**

We make announcement to the former customers of the Bennett & Millett Co., and Pioneer Milling Co., that we have secured the right and process to manufacture Pioneer Clover Meal and will now manufacture Pioneer Clover Meal in connection with our Champion Incubators and famous Champion Brooders. Every purchaser will secure prompt shipment in every case and if your order cannot be filled promptly it will not be accepted. If you wish your hens to lay when **EGGS ARE THIRTY CENTS** can be fed. The only substitute for green food and the only food which will make your hens lay when eggs are high. It is not a stimulant, but a natural food which supplies all parts of the egg and enables the hens to lay when deprived of green food from out of doors. Pioneer Clover Meal was awarded a **SILVER MEDAL AT THE PARIS EXPOSITION** as being the only perfect poultry food. If you wish eggs now, order a bag of Pioneer Clover Meal. Prices: 100 pounds delivered east of the Mississippi River on all main lines, \$2.25; 50 pound bag, f. o. b. factory, \$1.

**The World Famous Champion Brooders.** The only Brooder in the world which can be operated out of doors in the severest winter weather with the thermometer down to zero and below equally as well as indoors. A perfect brooder house which requires no shelter. The only brooder made having a **SAFETY COMPARTMENT, DOUBLE FLOOR or EASY CHICK FEEDER**, which teaches the chicks to eat and drink. Over fifty thousand of our brooders in use. Send for catalogue and be sure to mention *Poultry Keeper*.

**J. A. BENNETT & SON, Gouverneur, N. Y., U. S. A.**



## BUYING BIRDS OR EGGS.

Some prefer to buy fowls in the fall, while others wait until spring and buy eggs. Which way is the better one depends upon circumstances. It is usually the rule to buy a trio of fowls—a male and two hens—the cost varying from \$3 to \$10, or more, according to the quality of the stock. The two hens will lay enough eggs to permit of raising one hundred chicks, of which fifty may be pullets. If one gets a flock of twenty-five pullets, allowing for all drawbacks and the sale of culls, it will be a very fair return from a trio. There is therefore a saving of time by buying the trio. It is also more satisfactory to buy the birds, as there are many disappointments in buying eggs for hatching. When one has the hens on the place, the eggs used will always be fresh and will be surer in hatching.

Buy your stock now.

## COPPERAS AS A TONIC.

A small lump of sulphate of iron (copperas) in the drinking water will keep the fowls from diarrhea and cholera and acts as a tonic, too. I have used it several years and I don't have cholera, limber neck, diarrhea, nor anything of the kind. Just try it. S. E. Thompson. Kentucky.

## Mr. Shackleton's New Poultry Book.

The book, "Systems in Poultry Practice," written and published by James Shackleton, Milburn, N. J., represents the results of careful and intelligent research along the line of successful poultry raising. The book comprises 158 pages and is bound in pliable cover; price, 80 cents, postpaid. There are thirty chapters, covering the essential branches of poultry work. They embrace the feeding of chicks, feeding of broilers, rearing breeders, causes of mortality in chicks, value of free range, factors of prolificacy, molting, crops in poultry yards, best breeds, heredity, fertility of eggs, etc., etc., with much valuable information on the subject of rations, making in all a book that poultry breeders will value. Beginners especially will be interested and helped by this work.

## Puritan Chick Food.

We call special attention to the column ad of the Puritan Poultry Farm and Manufacturing Co., which appears on page 271. Their big catalogue, one of the best issued, dwells at length on the merits and reputation of their now celebrated Puritan Chick Food. They have extensive agencies in every county, and are looking for other good ones in every section. Poultrymen of good connections who can handle the food will find it to their interest to communicate with this company. Those in need of a good article of chick food should give the "Puritan" a trial and verify the claims made for it as "of best quality; tried and true."

Dr. N. W. Sanborn, Bellingham, Mass., whose Buff Wyandottes are not only strong in fancy requirements, but are an excellent egg producing and table fowl, has raised more cockerels this year than he can place in winter quarters and will put "bargain" prices on birds sold this month. Write to him.



## U. S. STANDARD

## INCUBATORS

Built RIGHT SIDE UP. The machine that uses a hover blanket. Has 10 distinct points over all others. Write for free catalog and mention P. K. STANDARD INCUBATOR CO., Ponca, Nebraska.

TRIBBY'S  
White Wyandottes

...AND...

## S. C. W. Leghorns.

Eggs for hatching. Write for prices and please mention Poultry Keeper.

1-12 J. D. TRIBBY, Brookfield, Ohio.

YOUNG CHICKS Thoroughbred and market. Two to six weeks old. Shipped safely any distance.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

VILLEVIEW POULTRY FARM COMPANY,  
SALEM NEW YORK.

HERE TAKE IT  
IT'S FREE

And will surely help you and start you right if interested in

Barred Rocks, S. Wyandottes, I. Games, Light Brahmas, Buff Cochins, Plt Games, Pekin Ducks, Quarter Wild and Bronze Turkeys.

ALL! ALL! ALL!

depends on the start you make. So don't make the fatal mistake of buying poor, cheap, haphazard bred stock, but let us start you right, with good line-bred birds from the most noted prize winners in all the south. We can and will honestly help you if you but give us a chance. Eggs from the very cream of our prize stock \$3.

O. V. POULTRY FARM.

Geo. W. Brown, Prop., Camden, Ark

## The Way Hens Digest

has about everything to do with the way they work. Make sure that they get the right kind of grinding material in the crop and you get industry and thrift—a laying, paying flock. The right thing is

Mica  
Crystal Grit.

It contains the right proportions of mica, quartz, iron and magnesia to tone up the fowl's blood. Experienced poultrymen agree that it turns dyspeptic, good-for-nothing hens into paying ones. Price, 100 lb. bag, 65c; 50 lb. bag, 35c. Other Darling Poultry Specialties in 100 lb. bags are—Chick Feed \$2.50, Laying Food \$2.25, Clover Meal \$2.00, Oyster Shells 60c; all f. o. b. Chicago, cash with order. Darling's New General Supply Catalogue, have you seen it? It's just out and it's a great poultryman's guide. Drop us a card now while you think of it and we'll send copy.

## DARLING &amp; COMPANY,

Dept. 29, Union Stock Yards, Chicago, Illinois.

My chickens have almost doubled their laying capacity since I commenced feeding them your foods. A. W. MUMMA, Macomb, Ill.

## Success

with

## Poultry

Contains MORE and BETTER Practical, Reliable Information on the general subject of

## POULTRY FOR PROFIT

Than any other book published. It treats of every branch of

## Practical Money Making Poultry

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains 118 Pages (9x12 inches in size) and Cover and is The Best Poultry Book Yet Published. Contents (briefly stated) are as follows.

How To Get Started.

Leading Standard Breeds.

Characteristics of Breeds.

Practical Poultry Houses (Plans).

Fowls; Care and Feeding.

Model Brooding Houses (Plans).

Care of Adult Fowls.

Feeding for Eggs.

A Hen Catechism.

Feeding Young Chickens.

Care of Growing Stock.

Artificial Incubation.

Incubator Cellars.

Broilers and Broiler Raising.

Care of Brooder Chicks.

Pekin Ducks For Profit.

5000 Ducks on Two Acres.

Starting with Standard-bred Poultry

Profitable Egg Farming.

Turkeys; Care and Management.

Capons and Caponizing.

Poultry and Fruit Combined.

Diseases of Poultry.

The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

POULTRY KEEPER PUB. CO.,

QUINCY, ILL.



**KEROSENE EMULSION.**

A subscriber asks for the method of preparing kerosene emulsion. For lice it should be strong. It is made as follows:

- Two gallons kerosene.
- One gallon water.
- One pound bar soap.
- One pint crude carbolic acid.

Boil the soap in water until dissolved, remove from the fire and while the water is boiling hot add the kerosene and acid, churning with a spray pump for ten minutes, and then add six gallons of hot water, stirring well. Apply on walls, floor, roosts, fences, yards, etc., twice a week with a spray pump.

**Facts That Led Us to Invent the Old Homestead Incubator.**

A long experience with the best incubators that are on the market satisfies us that they will hatch a good percentage of strongly fertile eggs, but we have found that a large percentage of the chickens and ducks hatched in them are predisposed to diseases of the internal organs. We attribute this to imperfect development of these organs during the process of incubation.

In our examination of dead chickens we have found many affected with tuberculosis, and a large proportion had failed to properly absorb or digest the yolk, resulting in diseases of the bowels and blood poison. Some will die in the shell, others will manage to get out, but are weak and soon droop and die. We attribute this all to imperfect ventilation in the incubator, or to too little oxygen. We believe that the whole secret of successful artificial incubation consists simply in the right ventilation in the incubator and brooders.

We find that the ventilation in all incubators before this time depends on the outside atmosphere. If it is favorable the results are fairly good, but if not they are poor. That explains why some hatches are good and some are poor. We believe and we think that all fair minded poultrymen will agree with us, that an incubator ought to have its ventilation so arranged that there will be a circulation of warm fresh air going down through all the eggs all the time, taking all the poisonous gases out and supplying the eggs with oxygen. If you coop up a flock of chickens in an ill-ventilated coop you can not expect them to be healthy and grow, and that is just what you are doing when you put your eggs in an ill-ventilated incubator. In one sense the eggs are chicks and have got to grow, and in order to grow they have got to have oxygen. If they do not get plenty of it, they will be too weak to break the shell and get out. Others that do hatch are weak, making it almost impossible to raise them.

These facts some time ago led us to experimenting and after years of hard work we have succeeded in making an incubator with perfect ventilation, one that will hatch all eggs that it is possible for a hen to hatch, and will hatch chickens and ducks that are strong and healthy, easy to raise, no matter what the outside condition. In hot or cold weather the ventilation is just the same in the Old Homestead Incubator. There is no moisture to bother with, no ventilator to close when they are hatching, so as to keep the moisture and poison gases that arise from them in, so they would have to open their mouths to breathe. All ventilators are wide open from start to finish, making it the easiest and simplest incubator to operate, and we feel confident that in placing this incubator on the market that we have put artificial poultry raising on a safe basis, for it produces poultry that are strong and sure to live. It is fully described in our new book, which is free to Poultry Keeper readers. Send for it. Old Homestead Brooder Co., Middleboro, Mass., manufacturers of the Old Homestead Incubators and Brooders.

**The "Two Fishels."**

It seems there is some misunderstanding among P. K. readers regarding the ads of Mr. U. R. Fishel and J. C. Fishel & Son, some thinking they are one and the same firm. Mr. U. R. Fishel and Mr. J. C.

Fishel each owns his own farm and conducts his business independent of the other. They are brothers, the former making a specialty of what is known as the Fishel White Plymouth Rock; the latter having the Fishel White Wyandottes. When writing them please address as requested in each ad.

**At New England's Best Shows.**

It will be seen by the ad of D. C. Raymond, South Framingham, Mass. (page 257) that his excellent strain of Barred Plymouth Rocks and Rhode Island Reds won twelve firsts and nine seconds at the three largest fall fair poultry shows of New England. This is proof without question that Mr. Raymond's young stock is of extra high quality and the birds he is now offering for sale are part of this flock. Mr. Raymond will send a copy of the R. I. Red standard free to P. K. readers.

**BREEDERS' CARDS**

**TOO LATE TO CLASSIFY.**

**BARRED ROCKS (RINGLETS).** Grand bargains in yearling breeding hens. Choice young stock of the finest quality for exhibition or breeding that have size, shape and color. H. B. Kipp, Red Hook, N. Y. 10-3

**ROSE COMB LEGHORNS, White and Brown.** Stock for sale. Mulberry Farm, Route No. 7, Blaffton, Ind. 10-4

**BUFF PLYMOUTH ROCKS,** bred from selected stock, from noted breeders. Thos. Perrine, Camp Hagerman, Ohio. 10-4

**DARK BRAHMAS.** We furnish fine breeding stock at reasonable prices. Thos. Perrine, Camp Hagerman, Ohio. 10-4

**BUFF ORPINGTONS, S. C. White Leghorns (Wyckoff strain).** Free range. Hawkeye Stump Puller, good order, for sale. Blue Ridge Poultry Farm, Waynesboro, Va. 10-4

**BARRED ROCKS.** Danbury, 1903, class of thirteen, 2 entries, won 1st cockerel. Youngsters \$2 up. Burt Cowles, Forestville, Conn. 10-4

**WHITE ROCKS FISHEL STRAIN.**

May hatched, bred from \$50 pen. direct from Fishel, Cockerels, \$1 to \$3.50. Pullets, \$1 to \$2.50. Terms cash.

BROWER & SONS, Box 50, Grafton, Ill.

**WHITE LEGHORNS, S. C., WYCKOFF STRAIN.**

May hatched, bred from pen scoring 93 points. Pullets, 75c to \$1.50; cockerels, \$1 to \$2.50. Offer for 30 days only.

BROWER & SONS, Box 50, Grafton, Ill.

**CUT PRICES ON STOCK AND EGGS.** 20 eggs \$1. Pure bred Barred P. Rocks, White Wyandottes, S. C. White and R. C. Brown Leghorns, S. C. R. I. Reds, \$1 per 15. Good stock for sale. RIVERSIDE POULTRY YARDS, Box D, Delaware N. J., C. B. HUFF, Prop.

**EGGS-KUM**

Makes the eggs come, and makes the hens moult in a hurry. Also makes the little chicks

grow fast. *Positively no reactionary effect.* Strongest Poultry Powder in the world. Price 25c.; by mail, 31c. Agents wanted everywhere.

**ROUPIO CURES ROUP.** Price 50c. postpaid. Agents wanted everywhere.

**RELIABLE REMEDY CO.,** 138 Washington St., N. Y. City. and Union Stock Yards, Chicago.

**My Pekin Ducks and White Holland Turkeys**

were winners at Chicago, Wisconsin State Fair, and other leading shows. A choice lot of young stock from above for sale at reasonable prices. L. GILLON, R. R. No. 15, West Allis, Wis.

**QUAKER**

Chick Food—a complete ration—\$2.50 per 100 lbs. Incubator Plan, brooder plan, recipes for lice killer, chick food, egg maker, and beginners directions for brooder chicks, all for \$1. All poultry supplies. Free catalogue of novelties.

QUAKER SUPPLY CO., Box E-3, OMAHA, NEB.

**WHITE AND BARRED P. ROCKS BLACK MINORCAS.**

First prize winners everywhere shown, scoring from 94 to 96 1/2 points.

**STOCK AND EGGS FOR SALE.**

We can please you. Be sure to mention Poultry Keeper.

ANTHRACITE POULTRY YARDS, STOCKTON, PA.

**THE IMPROVED CHAMPION LEG BAND.**



Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock, they can't lose off. Postpaid 12-15c; 25-30c; 50-50c; 100-80c; initials extra, 10c. per 100

The SUPERIOR is securely locked, can't lose off; six sizes. State bred and sex. Postpaid 12-20c; 25-35c; 50-60c, 100-\$1; sample for stamp. Cir. free. T. CADWALLADER, Box 704, Salem, Ohio.

**Cents Make Dollars**

When you pay \$2 for reading matter that you can buy for \$1. You throw \$1 away. But when you buy reading matter worth \$2 for \$1, you gain \$1.

Are you one of those who lose or one of those who gain?

To which ever class you belong it will pay you to get my catalogue.

If you read more than one periodical, I can positively save you money.

Here are a few samples from my new catalogue.

Poultry Keeper, 1 Yr. \$ .50 } My Club Price  
Poultry Herald, 1 Yr. .50 } 50 Cents.

Frank Leslie's Pop. Monthly, 1 Yr. \$1.00 } My Club Price  
Woman's Home Companion, 1 Yr. 1.00 } \$1.95.  
American Boy, 1 Yr. 1.00 }

My new catalogue is free. Simply write your name and address on a postal card and send to me. but be sure to mention Poultry Keeper.

**C. J. HOUSER,**

Subscription Agent,

228 Oak Street, California, Missouri.

**Few people know just what to do for MOULTING FOWLS.**

We were a long time finding out just what was best. We know now; so does everyone else who has ever tried

**STAR MOULTINE**

Like all other Star Products it works to perfection when moulting time comes. Star Moultime makes chickens get down to business, finish moulting, and get back promptly to their fall work of laying eggs. Try it just once and you never again will be without it. Money back if not satisfied. Price 25c. per lb., by mail, 40c. If you keep fowls send us your address and we will send you our catalogue of Incubators, Brooders and Supplies. There are things in it you need.

**STAR INCUBATOR & BROODER CO., Bound Brook, N. J.**  
New York; 216 Fulton St.







The Poultry Fanciers' Association of Milwaukee, Wis., will hold its second annual show Jan. 4-11, W. A. Hackbarth, secretary.

The Illinois Fanciers' Association will hold its annual poultry show at Lanark, Ill., Dec. 28-Jan. 2. F. H. Shellebarger, judge. E. D. Leland, secretary.

The Yorkville Poultry Association will hold their fourth annual show at Yorkville, Ill., Dec. 8th to 12th. J. A. Tucker, judge. S. A. Tarbox, Sec'y.

The Virginia Poultry, Pigeon and Pet Stock Association will hold their third annual exhibition at Richmond, Va., November 23rd-28th, 1903. Judges, Geo. O. Brown, Pigeons, Geo. Ewald. Frank Jenkins, Secretary, 517 W. Broad St., Richmond Va.

Western Poultry Fanciers' Association (Inc.), Cedar Rapids, Iowa, is noted for having always paid promptly every cent it has ever offered, and it has always had the largest of any show in the mid-west. It is planning to hold the greatest show in its history and every dollar offered will be as good as gold. Remember the dates (January 11-16) and arrange to exhibit at Iowa's Greatest Show this season. Premium list for the asking. A. J. Smith, secretary, Cedar Rapids, Iowa.

#### St. Louis Show.

The premium list of the ninth annual exhibition of the St. Louis Fancier's Association is now ready for distribution. The show this year will be given in the Coliseum, the largest building of its kind in St. Louis. The dates are November 30th to December 5th. Messrs. Russell and Butterfield have been engaged as judges of poultry and Mr. Geo. Ewald will place the awards in the pigeon classes. For premium list, entry blanks, and full particulars write to Ross C. H. Hallock, St. Louis, Mo.

The incubator season begins at any time after the warm days are over, October being the month some prefer, but hatching is continued until March and the work is specially a winter's pursuit. Don't wait until the "rush" of the incubator season is on to buy your machine. The manufacturer can give your order better attention if you "come early."

**YOU MAKE THE PROFIT**  
that the dealer charges you (if he sells you a fence) when you buy the celebrated  
**ADVANCE FENCE**  
sold direct to the user from the factory on  
**THIRTY DAYS' FREE TRIAL**  
We have no middlemen or agents. Our free fence book tells all about our many styles and gives prices. Send for it to-day  
**ADVANCE FENCE CO.,**  
46 C St., Peoria, Ill.

#### RAISING SQUABS.

(Continued from Page 251.)  
served to be of light weight, being much smaller than its nest mate. If there is in the pigeon house a nest with only one young squab of the same size as the weakling, it is a good practice to transfer the latter to this nest, when the parents of the younger squab will feed both, usually with good results. It must be remembered, however, that no change of this kind should be made until after the squab is a week old, or during the time the parents are furnishing the "pigeon milk."

(Continued in November.)

#### The Automatic Poultry Feeder.

Raceville, N. Y., Feb. 10, 1903.  
The Automatic Poultry Feeder Co., Genoa, N. Y., J. G. Whitten, Manager.

Dear Sir: When I receive the last consignment of machines ordered, I will have twenty-five of them in operation in my buildings, where they are feeding the largest and best flock of Rose and Single Comb Black Minorcas in the world. You do not recommend your feeders as highly as they merit. I think hens would never form the egg-eating habit if fed with your machine and it will break up the feather-pulling habit as nothing else that I have ever seen can do. Either of these vices in poultry will cost their owners more than enough to pay for the machine in a very short time, and as for promoting health, vigor and fertility of eggs I would consider them cheap at twice what they cost. They are also a great saving of time of the person who cares for the fowls and do the work better and more economically. If I could not replace them I would not part with mine for \$5 each. I think the invention of your Automatic Feeder is of as great value to the poultry industry as that of the incubator and brooder, and that it

only needs to become as well known to be as generally used.

Wishing you success, I am,

Very truly,

Geo. H. Northup.

P. K. readers will find the Automatic Poultry Feeder ad on outside back cover. Look into its merits, for it is good.

**CAPONS** are the poultryman's steers and bring him the top prices. Triumph Capon Tools, \$2.50 postpaid. Guide Book for stamp. ALLERTON (IA.) CAPONIZING CO., Box 2-B, ALLERTON, IOWA.



## Build Your Own Incubator

There is both fascination and profit in it. Any man or boy can do this easily with common tools and

**Save More Than Half.**

**How?** Get our complete Book of Plans for building *New Idea Incubators and Brooders*. We will then sell you at cost all fixtures like Tanks, Lamps, Regulators, Trays, Legs, etc. Big money in building and selling Incubators.

No Experiment. Success of our method proved by thousands of satisfied customers. No high-priced factory-made machine makes better hatches than the *New Idea*. Send for "How to Make and Save Money with Incubators," our new handsome Poultry Book and Catalogue. It is giving old line makers something to think about. Write to-day. It is free.

**CHANNON, SNOW & CO., Dept. D, QUINCY, ILL.**  
All Poultry Supplies at Cut Prices.

## Our 11th Annual Sale...

Of the Greatest Egg Producer and Health Preserver

# Banner Egg Food and Tonic

We again offer all our old customers and also those who have never tried it an opportunity to lay in a supply of this famous egg producer, as eggs will be SCARCER THAN EVER, there being fewer fowls raised this year on account of the high price of grains. FRESH LAID EGGS will sell at 50 CENTS PER DOZEN BEFORE CHRISTMAS, so you want to be ready to help to supply the demand and make the keeping of your fowls more profitable than ever before.

FOR THE MONTH OF NOVEMBER ONLY: We will sell BANNER EGG FOOD AND TONIC at the following reduced prices;

**1 Pound Box 15 Cents; 7 Pound Boxes for \$1.**

These prices do not include POSTAGE OR EXPRESS CHARGES. If sent by mail add 16 cents for each box for postage, but it is cheaper for the 7 boxes to go by Express; the buyer paying all charges. In November 1902, we sold over two tons of our BANNER EGG FOOD AND TONIC, and everybody who used it spoke very highly in its favor.

ORDERS BOOKED IN ADVANCE, but positively NO ORDERS FILL-ED BEFORE NOVEMBER 2d NOR AFTER NOVEMBER 30th. Our Large Poultry Supply Catalogue Free.

**Excelstor Wire & Poultry Supply Co., Dept. K,** W. V. RUSS, Prop., 26-28 Vesey St., New York City.



**WET WEATHER POULTRY.**

It would seem that ducklings would thrive in wet weather, but they don't. Even the water fowls thrive better if there is some sunshine. It's a great deal more so with chicks—health and growth do not go partners with damp, sour coops and continuous cloudy, cool weather.

When we come to think of it, sunshine is necessary to all life, whether animal or vegetable, and without it for a considerable length of time it shows for itself. There is something about sunshine that is very different from other kinds of heat. I have noticed this in poultry raising for a long time; live stock men notice it; the green house men perhaps more fully appreciate it.

While camping out in the mountains this past summer I got a new and very practical lesson on sunshine. The nights and mornings were cool, and the camp stove was sufficient to keep us warm, but we soon discovered that there was a balm in sunshine. It was so much more comfortable and bracing to get out in the sun. While enjoying a sun bath one morning it occurred to me that the new crop of chicks, back east, must be having a hard time. Cool, cloudy weather, rain after rain, damp, sour coops, lice, mites, chiggers, etc. While it is impossible to stop the rain or make sunshine, it is not impossible to clean out the coops, to hoist them up out of the mud and kill off the parasites, put in some dry chaff or something of that nature and give the chicks some chance for their existence.

We can go still further and thin out the bunches of them, piled up here and there in corners; everything goes to show that the trouble or bad luck attending raising chicks is mostly with ourselves. More care would mean greater success.

M. M. Johnson.

The demand for cockerels from bred-to-lay stock has been large this fall. There is an interest that is increasing in business birds and many farmers are buying good males to mate with the pullets of this year's hatch. It is not hard to increase the egg average three dozen a year by using good males for two seasons. Three dollars will buy a good cockerel of some of the varieties that have been bred up to the one hundred and eighty to two hundred egg average. This bird will be off in some of the show points, but can have shape and size, and will come of the "egg habit" into the chicks of the next season's hatch.

If you are after strength in your birds, never use a breeder that has shown signs of sickness. A bird that has been sick never has the vigor that you are looking for. Above all, avoid the bird that has gone through an attack of "roup." He may look all right, breed well, but his chicks will take on catarrh and roup when the cold days of the year come. Roup weakens vitality as do few other diseases of poultry.

Take good care of the maturing chicks. A well matured bird is needed to lay the winter eggs and decide the profits of the year. The birds are so large now that we are inclined to relax our care of them. They need the best of food and good housing until put into the winter laying houses.

**A DRY, WELL LIGHTED POULTRY HOUSE.**

(Continued from Page 247.)

the floor, for the storage of scratching material if desired.

In warm climates the partition between the roosting and scratching room will not be required, and a cloth-covered frame instead of window sash could be used in the front of roosting room.

A back walk or alley-way could be arranged in such a house, but the necessity for avoiding drafts along the bottom of the pens makes the construction of such passages quite expensive. I had a walk at the back of the house described here, but took it out. They are of little advantage except in very long houses on very large plants.

F. O. Wellcome.

There is no sure remedy for feather pulling. The first hen caught at it should be killed. Some smear the bare places with tar, and others trim the edges of the upper and lower mandibles so that the hens cannot hold a feather. Others separate them, confining them for two weeks. The surest preventive is to keep the hens at work, but as a cure is doubtful it is best to send the guilty ones to market.

Will you "help a good cause" by sending names of persons interested in poultry to whom we may send sample copies of Poultry Keeper?

**FOR SALE** Large line of new Poultry Cuts at about one-half regular price. Proof sheet for stamp. 9-12  
W. RENNEKAMP, 1200 Vine St., McKee's Rocks, Pa.

**Get Eggs in Winter**

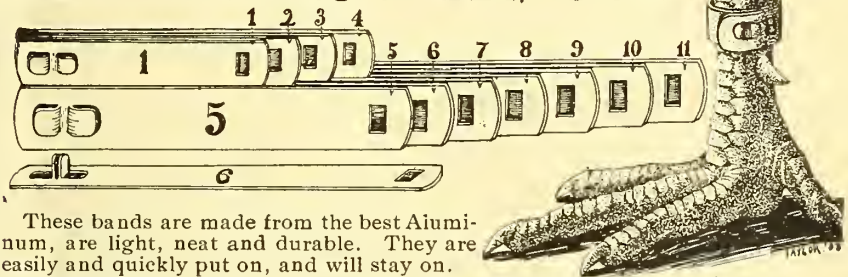
Whether you keep 12 or 1000 hens you want them to lay when eggs are high. Our booklet, Special No. 2 tells

**How to Feed What to Feed**

For 50 cents we will send the booklet and full year's subscription to the Poultry Keeper.

**Poultry Keeper Pub. Co.,**  
Box 217, Quincy, Ill.

**IDEAL ALUMINUM LEG BAND.**



These bands are made from the best Aluminum, are light, neat and durable. They are easily and quickly put on, and will stay on.

**PRICES:**—12, 15 cents; 25, 30 cents; 50, 50 cents, and 100, 75 cents; by mail post paid. When ordering, please name the kind of fowls you wish bands for.

Enclose 2c. postage for sample. **FRANK MYERS MFG. CO., Box 37, Freeport, Ill.**

**START RIGHT!**  
With an  
**IOWA**  
**Round Incubator**

in hand the poultryman is started right and success is assured. We say this because those who are using the Iowa say so.

MENTOR, MINN., Aug. 18, 1902.  
Iowa Incubator Co.: Gentlemen—The 129 Egg incubator I purchased of you is all you claimed it to be. I hatched 76 good chicks from 80 eggs in my Iowa. That is good enough for me, and I will do better next time. MRS. BENA REINSCHMIDT.

Fibre-board, non-shrinking, non-warping cases. Perfect regulation, correct ventilation, no cold corners. Our free book tells all about styles and prices. Ask for it.  
**IOWA INCUBATOR COMPANY, BOX 179, DES MOINES, IOWA**



# QUESTIONS & ANSWERS

[In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

## KEEPING 7,000 LAYING HENS.

In P. K. for January on "Eggs in Fall and Winter," by Edgar Warren, this occurs: "There is a man here in New Hampshire who keeps seven thousand laying hens in colonies of twelve each, in houses that are open to the weather on one side—the south—all the year round."

In P. K. for September in "Three Popular Styles of Poultry Houses," Mr. Warren again says, "There is a man in New Hampshire who keeps over seven thousand hens in houses of this kind, etc."

Now what we would like to know is exactly how he does it. How long has he been at it? Does it pay? Does he keep a rooster in each colony house? When and how often does he feed? Does he buy his stock or raise it? No doubt this will interest many other readers of Poultry Keeper. Will you kindly publish the information at your convenience.

R. M. Co., Oil City, Pa.

Last winter Mr. Warren made a special trip to this egg farm for the purpose of gaining for Poultry Keeper readers the information this correspondent seeks. This is what Mr. Warren found:

One of the points of interest on a recent trip made for Poultry Keeper was the famous farm of Mr. C. E. L. Hayward, in Hancock, N. H., where 7,200 laying hens are kept. These hens are kept in A-shaped coops, twelve hens to a coop, and are never permitted to set foot outside from the day they move in until the day they are sent to market. The coops are open to the south and the only protection the occupants have from the rigors of a New Hampshire winter is a wall of chicken wire on the south and hemlock boards covered with tarred paper or shingles on the other sides. When the mercury drops to 30 below the biddies can pull a coverlet of chicken wire about their heads and dream of green fields and sunny summer days.

It was a mild fall day when I drove over the hills to Hancock. The first view of the farm suggests the encampment of some great army. There are 600 A-shaped coops standing in rows about a rod apart, and covering acres of ground. These coops are exactly eight feet square, and eight feet from sills to apex of roof. In each coop twelve head of laying stock are confined. [An illustration of this coop was shown on page 206, Sept. 15 issue.—Editor.]

These birds are purchased in northern Vermont or southern Quebec in the autumn and shipped to Mr. Hayward. They are kept just a year, when they are sent away. As I have said, they never set foot outside their coops after they once enter them. The coops are cleaned twice a year. No green food is given to the hens, and in the winter they have no water to drink—only snow.

The lines along which this plant is conducted are so unique, so revolutionary, that men do not know what to think. Is Mr. Hayward a pioneer, pointing the way to the future, soon to be followed by hosts of others, or is his

plant destined to be unique and exceptional? I am of the opinion that the latter is the case. The success he has attained it seems to me, is the success of a strong and original and somewhat eccentric personality, rather than the success of a man who has thought out a new and better way of doing things.

It must occur to all that the number of farms like this one of Mr. Hayward's limited in the nature of the case be strictly limited. The principle on which it is conducted is that of renewal of stock by purchase rather than that of renewal by breeding. Mr. Hayward must buy his stock so low that he can sell out a year later substantially for what he paid. A farm like this one of Mr. Hayward's must exhaust the surplus stock in a large section. Mr. Hayward now has to go to northern Vermont and Canada for his birds, and he complains that they cost him more this year than ever before. A number of such farms bidding against one another, or even merged into a co-operation, would require so much stock that the price would go up beyond the point of profit.

It is reported that Mr. Hayward makes a dollar a year from his hens. I am unable to see how he does it. In the first place he has a large amount of money invested. His houses cost him \$12 apiece—\$7,200. His laying stock must cost him at his farm at least fifty cents apiece—\$3,600. Mr. Hayward must have enough more invested in his farm and buildings, feed and machinery to bring the aggregate up to \$20,000. The interest on this sum at five per cent, with five per cent more added for wear and tear, would be \$2,000.

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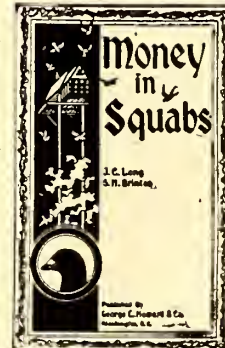
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A year's subscription to Poultry Keeper (50c) and a copy of Money in Squabs (50c) for 75c. Or we will furnish Money in Squabs free as a premium for 2 subscriptions to Poultry Keeper at 50c each. Address,

Poultry Keeper Publishing Co., Quincy, Illinois.



like this. Mr. Hayward employs three men all the time to assist him in the care of his hens. Allowing their wages to be \$25 a month and board there is at least \$1,000 to be added to the expense account.

Then the losses by death must be considerable. One dead hen to a pen a year would mean 600 dead hens—\$300. I should not be surprised if the interest on money invested, expense of help, losses by death, etc., footed up to \$3,600, or fifty cents apiece for each hen. In other words, the bird must earn fifty cents and her keep for a year before she can show a profit.

One would not expect birds picked up as Mr. Hayward picks them up, and housed as Mr. Hayward houses them, to begin to lay very early. When I visited the farm there were 1,200 young birds in the pens, and more coming in every day, but the day before, I was told, only one egg was picked up. Mr. Hayward told me that he did not expect his birds to lay until "along towards spring." What does this mean? It means that the egg output comes when eggs are at their lowest. I cannot figure out how Mr. Hayward gets anything like an adequate return on capital invested. Still he is satisfied, and that is the important thing. Mr. Hayward has other sources of income. He is the owner of one of the finest orchards in New Hampshire, and this year had 6,000 barrels of choice apples to sell.

**ENLARGED LIVERS IN TURKEYS.**

Please give a remedy for my turkeys hatched in April. They seem droopy and do not care about eating anything. I feed wheat at morning and night. They run at large. On post-mortem examination I found the liver much enlarged with light brown spots about the size of beans on them. Carcum and mucous membrane are not diseased as in black head and there is no diarrhea. They are sick about a week or two and then die.

Chas. P. G., Somerset, Ohio.

This correspondent's turkeys are sick from over-eating. An enlarged liver or any other organ that is enlarged is caused by that particular organ being overworked and made to do more than it is able. In trying to strain all the blood that too much food taken into the system makes, the liver is overworked and becomes enlarged and diseased, as the light brown spots show.

Trouble of this kind happened with a few turkeys in my yards this season. I had an old Cochin hen sit on turkey's eggs, expecting to put the turkeys with a turkey hen, but the two hatches did not pan out as I expected and I was obliged to let the turkeys run with their Cochin mother. She took the best of care of them, but as I let them run in the orchard with the chickens, they had to eat with them. All went well for awhile and they were growing fine. One began to droop and did not eat and soon died. At first I did not think it was from over-eating, but soon another went the same way, until out of the five only one was left and he began to act as though stricken with paralysis.

I began to see where the trouble was and knew that unless I got him away from so much feed he would follow the others. The question was, how was I going to get him in the field away from his Cochin mother? I had a flock of small turkeys. I would carry him way

back in the field with the turkey hen and her brood. He was so weak and languid he could hardly walk. I went after them at first about four o'clock. In a day or two he looked like another turkey and began to eat. At first I fed them a little as an inducement for them to come home, but soon dropped the feed. To-day he is one of the liveliest turkeys on the place. He was just eating himself to death in the chicken yard and had all the symptoms of diseased liver and a breaking down of the whole system.

The curious thing about it is that at first he grew very fast, but when he began to collapse the turkeys running in the field outgrew him so fast and to-day they are nearly as large again and he is the oldest young turkey on the place.

The only remedy for an enlarged liver is to quit feeding. Let the turkeys run in the field. Keep a box of sharp grit where they will be sure of finding it. I would advise Epsom salts dissolved in the drinking water for two or three days and small doses of quinine after the salts had been drank for two or three days, a little quinine mixed in a small portion of food scattered so that all could get a little. This treatment would cleanse out the great blood strainer, the liver, and tone up the system. Let them pick up their food or go without, as more turkeys and people have died from overeating than from starvation. Take a half starved street Arab. You cannot kill him by any kind of exposure or hardship, and he never succumbs to starvation. He has plenty of muscle to fight his way. When it comes to flesh on his bones, he has not got it, but he has a stomach that would digest pig iron, and some of our pampered multi-millionaires would give half their millions for such an appetite and stomach.

My advice to turkey raisers is, let the turkeys feed themselves in the field after they have reached the age that they be-

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gin to show signs of "shooting the red"; bring them home nights to roost, feed a little at first as an inducement for them to come home. Don't doctor them; don't feed. See that they can get plenty of fresh, clean water and sharp grit and you will raise all your turkeys and they will be larger and keep in perfect health better than turkeys that are fed after they are big enough to hunt their own living. I have been years in finding out what I might have known in a week if I had watched the natural habits of turkeys before. Mrs. Chas. Jones.

**FOOD AND CARE.**

Will you kindly answer through the columns of your valuable paper, the following questions:

1—If you had eight Rhode Island Red hens in a pen 7x12 feet, with a yard 10x30, what would you feed them for eggs? Please tell me what you would consider to be the best kind of food, the proportions, time of feeding, etc.

2—Is there any breed of poultry that in your estimation excels the Rhode Island Reds for an all around fowl? If so, will you please tell me what breed or breeds they are?

3—Would you consider it advisable to put April chickens of this spring in with two-year-old hens now?

E. A. E., Keene, N. H.

1—We should feed them as great a variety as possible. With so few fowls it would hardly pay to go to the trouble of mixing a mash, so we should feed corn, oats and wheat, mixed or alternated; the oats and wheat to predominate. We should place self-feeding boxes containing beef scraps, charcoal, grit and shells where the hens could help themselves. We should feed the grain in deep litter, soon after daylight in the morning and an hour or so before roosting time. An extra feed of green or succulent food, such as vegetables, roots, ensilage, clover or the like, can be given at noon or at either the morning or evening feeding time. This is important.

2—The Rhode Island Reds are excellent fowls. There is really very little difference in the weight of eggs laid in a year by the best laying strains of the various breeds, when fed according to their needs.

3—Not if it could well be avoided. The old hens would be apt to become too fat on a ration sufficient for the needs of the pullets.

**BALANCED RATION FOR 100 LEG-HORNS.**

Will you please give me the following information: What would be a balanced ration for one hundred S. C. W. Leghorns with available meals as below to be expressed in gallons, quarts and pints? The grain ration for each day will be hulled oats, one bucketful by 6 a. m. and another in sufficient time before going to roost. Mash to be fed at 5 p. m. while the days are long, earlier when the days get shorter. Good range, practically unlimited, bugs and grasshoppers in abundance; Middlings, shorts, bran, corn meal, one and a half gallons meal sifted from hulled oats available daily, meat meal, raw ground bone, linseed meal. I get very good results by guess, but I should like to get it exact. If I get it right for one hundred fowls I shall have no trouble when I have several hundred.

L. D., Cotati, Calif.

Any attempt at balancing a ration by measure must be largely guesswork, as the foods vary so much in weight. Make a mash mixture by thoroughly incorporating 50 pounds of wheat bran, 100 pounds wheat middlings, 50 pounds corn

meal, 30 pounds meat meal, 10 pounds dry ground bone and 10 pounds linseed meal. The nutritive ratio of this mixture is about 1 to 2.8. To make the mash take five quarts of this mixture and four quarts of the oat hull meal for an evening feed. In the morning feed eight quarts of hulled oats. This makes the day's ration have a nutritive ratio of about 1 to 4.9, which is plenty narrow enough. Do not feed but twice a day.

**BLACK IN HACKLE—BROKEN TAIL.**

1—Will you please inform me if a cockerel's hackle is tinted with black if he is disqualified from the show room. There are only three or four feathers that are tinted with black; the reason why I ask this question is because he is a beautiful bird in shape, and intend to enter him in the show.

2—If a cock breaks and pulls out his tail feathers can you tell me what remedy I can use for this?

B. V., Rochester, N. Y.

1—You evidently forgot to mention the breed, so we cannot tell you.

2—Your roost is probably so close to the wall that the bird breaks his tail feathers by rubbing them against it. If he deliberately pulls them out it is an in-

dication of an obstruction of the rump gland. If such a condition exists the region of the gland will be swollen. If the gland cannot be emptied by gentle pressure a small incision should be made into its with a sharp knife and the contents removed.

**SOFT SHELLED EGGS.**

Can you tell me through the Poultry Keeper (next issue if possible) the cause of my hens laying soft shelled eggs occasionally when they have shell and grit constantly before them? The pullets are just beginning to lay and have had several soft shelled eggs from them. I feed a mash in the morning of one-third corn meal, two-thirds wheat bran and some Fowker's Animal Meal, oats at noon, wheat and corn at night.

R. H., East Windsor, Ct.

This condition usually results from the fact that the hens which produce such eggs lay them before the shell has had time to develop or that they were not supplied with the proper kind of nourishment and therefore could not produce the lime salts necessary for the secretion of the shell. Sometimes the first symptom of beginning inflammation of the oviduct is the production of eggs with

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When your hens show signs of molting, feed them once daily, in a hot bran mash, SHERIDAN'S POWDER as directed. Do this and you will have as others do who have tried the plan, an abundance of eggs to sell in the fall and winter months.



soft shells. Hens that are over-fat are apt to produce eggs without shells.

If the egg is complete all but the shell, miss a meal; but if the egg is devoid of outer membrane and the yolk is dropped arrest egg production by giving a pill containing one grain of calomel, one-twelfth of a grain of tartar emetic and one-fourth grain of opium every four hours.

**EARLY MOLTING—PRESERVING EGGS.**

1—Please give me a formula for feeding my hens so they may molt quickly, and lay early.

2—Also, could you give me a good recipe for preserving eggs for two months—November and December? Do you know whether or not the People's Supply Co. at New Concord, Ohio, are reliable? They sell a recipe for packing eggs.

Mrs. G. W. G., Cheston, Tenn.

1—To force the molt restrain the fowls and gradually reduce the ration until about the third day they are getting only half of one ordinary meal a day. At the end of a week increase the food slightly and in ten days set them free and see that they have all the food they wish, especially succulent green food, Beef scraps or some kind of meat food, sunflower seed and a little linseed or cotton seed meal in the mash; if one is fed, will aid them to grow feathers.

2—For a good method of preserving eggs see September P. K., page 234. We know nothing of the reliability of the company you speak of.

**EMBARKING IN THE POULTRY BUSINESS.**

I am about to embark in the poultry business on a small scale. I want eggs and lots of them. I can have the use of two and a quarter acres of well shaded, well drained land lying in the bend of a river of clear, good water, the shore of which is covered with gravel and broken clam shells. I cannot fence along the river bank, but will it be necessary to prevent Leghorns from flying across—stream being from forty to eighty feet wide? How many hens will this piece of ground accommodate—the lot not being subdivided?

2—I also have one and a half acres that I can make into pens, these also are well shaded and drained. All of this land is in grass and weeds. How many hens will the one and a half acres supply range for?

3—I also intend to build a poultry house for laying hens (the length not determined), but after this idea: Upon a frame work of 2x4 pieces, I propose to cover completely with old but sound inch lumber. Then a good quality of building paper all over, then several thicknesses of newspapers, then shingle all over with clear cedar shingles, the sides of course not needing so much lap as the roof. A floor of heavy hemlock lumber covered with dry earth and litter in winter with wind kept from beneath; plenty of windows and roosts so arranged that they may be curtained in extreme cold weather. Will this house be warm enough for egg production in northern Illinois?

4—Will ordinary wire cloth such as is used on screen doors keep out skunks, minks, etc.?

5—My motto is, "Be clean." Can you suggest a better one?

Geo. W. W., Hanover, Ill.

1—We do not think the hens would attempt to fly over the water. If placed in colony houses, 25 or 50 hens to the flock, this two and a fourth acres would afford range for 200 hens.

2—This depends on how large you make your runs. A yard 20x100 feet is about right for 25 hens, which is a convenient number to have in a pen. This gives 2,000 square feet to the pen, and by making them a trifle smaller than this you

could have 32 pens or yards for 800 hens.

3—We should think a house so constructed would be warm, if the work is well done.

4—The wire cloth would probably answer while new, but why not use inch mesh poultry netting, which is cheaper and would last longer?

5—Your motto is a good one if lived up to.

**NUMBER OF EGGS TO THE POUND.**

If you can, will you please tell me about how many eggs it takes to make a pound from the different breeds? What I wish to learn is how many more Leghorn eggs to the pound than Minorca, Brahma, etc.; also taking an average during year, which would have the most weight of eggs to their credit. Have gotten into an argument on the question and would be glad to have your opinion.

J. W. W., Peoria, Ill.

Individual flocks vary greatly, but the following is supposed to be the general average: Leghorns, all varieties, 10; Minorcas, 8½; Langshans, 8; Wyandottes,

9; Plymouth Rocks, 8½; Brahmas, 8; Houdans, 9; Hamburgs, 12.

**SUNFLOWERS AND RAPE.**

Can you give me an estimate of how many sunflower seeds are raised on one acre of ground, and is rape valuable for poultry?

E. S. S., Elwood, Ind.

Fifty bushels is a fair yield, although some report three times that many. It depends much on how they are planted, season, etc. Rape is an excellent green food for fowls.

**DISTINGUISHING THE SEX.**

I wish I could distinguish the sexes of my growing chicks so as to spare the pullets for eggs and fatten cockerels for the table. But I have to wait too long and lose the benefit of spring chickens.

H. R., Port Kennedy, Pa.

The sex is easily distinguished by the comb long before chicks are large enough for broilers. Barred Plymouth Rock cockerels show their sex by color, shape



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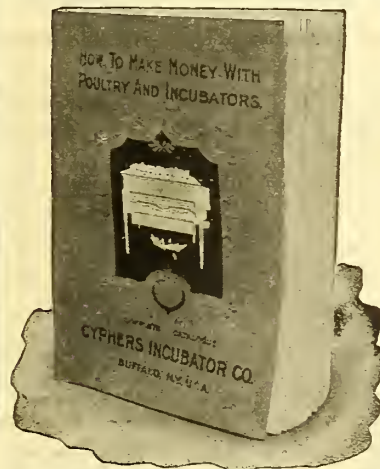
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and comb when four weeks old and Leghorn cockerels begin to crow by the time they are big enough to fry.

#### BUYING POULTRY FOR MARKET.

I want to go in the wholesale poultry business to buy and sell poultry for market purposes. Can you give me any information or advice? Subscriber.

We would suggest that you equip a small plant and especially fatten the stock purchased, thereby making a double profit. There is good money in this business, the writer knows, if stock can be secured in sufficient quantities.

#### HOUSING.

1—Would a house eight by eight be large enough for a trio of Leghorns, if they have a yard (shared with three ducks) about 50x50?

2—Would it be best, in boarding up the inside so as to leave a space of about three inches, to leave the space vacant or fill it with straw?

3—Where can I get some coal tar reasonably close? Subscriber.

1—Yes, but you would not be satisfied to have hens and ducks run in the same yard. The ducks would cause lots of trouble.

2—We should fill the space with straw, to more perfectly entrap the air.

3—Ask your local dealers.

#### SORE EYES—SORE HEAD.

I have four chickens two months old which have one eye closed and badly swollen around, with thin watery discharge. They seem all right otherwise. The disease started two weeks ago. The fowls have had free range for the last month.

Have also some other chicks which have what is here known as sore head, having small sores on the head around the mouth

and eyes. I am rubbing these sore with carbolated vaseline, which seems to dry them up. I would appreciate any information you could give me as to the cause of these two diseases and the remedy of same. D. R., Gainsville, Fla.

Wash the sore eyes with warm water to which boracic acid has been added in the proportion of 15 grains to the ounce. For sore head extract witch hazel is as good as anything.

#### PRESERVING EGGS.

Will you kindly send me the best recipe you know for packing eggs?

A. T., Benson, Minn.

See page 234, September issue of P. K.

#### LATE CHICKENS FOR BREEDERS.

I purchased thirty Barred Plymouth Rock eggs last May and hatched twenty-six chicks from them June 2d. Will they be old enough for breeders next spring? Would you use males of the same flock or get others? Will they be all right for line breeding?

H. W., Lavalette, W. Va.

If you push them along so they are well matured they will do to breed from in April or May. It is safe to use a male from this some brood. He may be only distantly related to the pullets.

Poultry Keeper is an old-time favorite and we pay the most liberal commission to subscription agents of any first-class publishing house. We furnish sample copies. Go among your friends who are interested in poultry and see how easy it is to secure a club of five, ten or twenty subscribers. You will be well paid for your time and trouble. Send for samples and try it. Address Poultry Keeper Pub. Co., Quincy, Ill.

#### A New Location.

Editor Poultry Keeper.

Please notify your readers that I have moved my entire business of manufacturing the Never Sink Incubators and Brooders, to Columbus, Ohio. Here with increased manufacturing and shipping facilities, together with greater capital, we shall be able to serve the trade better than ever. The high standard of excellence attained in the past will be maintained, and if possible, improved.

C. N. Hostetter,  
Manager Never Sink Incubator.

The flag that has become familiar to P. K. readers as marking the ad of the Excelsior Wire and Poultry Supply Co., has been replaced by a banner. Our readers will be interested also in the fact that the large catalogue issued by this company will be for free distribution. We are in receipt of a copy and can vouch for its completeness. Mention P. K. when writing and address Excelsior Wire and Poultry Supply Co., Dpt. K, 23 Vesey St., New York City.

#### Poultry Keeper Insect Bellows.

For use in dusting insect powder of any kind of fowls old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste



any powder if you use these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

# Have You Seen The Latest Thing

in bone cutters? If not send for catalogue of

## MANN'S LATEST MODEL.

New design, open hopper, enlarged table, new device to control feed. You can set it to suit any strength. Never clogs. This is the newest machine covered by latest patents. It embraces all the best features of the old reliable Mann's and a dozen radical improvements which have increased its efficiency fully 100%. Compare its self-regulating feed with the crude devices of other types. Compare its products with that of others. Compare its ease of operation and then decide for yourself.

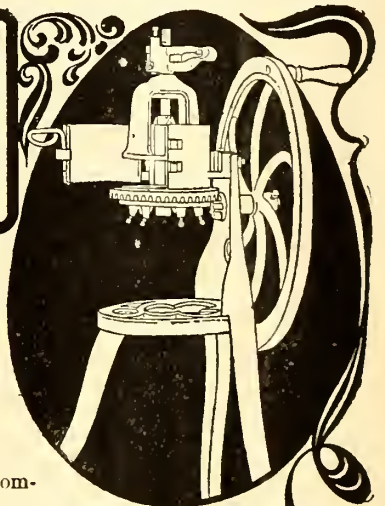
The Mann's is the only machine which cuts hard bones without any more exertion than is required for soft bones. The only machine which you can regulate to suit the strength of the operator. The machine which does not clog nor stall, and which cuts not only bone, but *any* bone and *all* bone, meat and gristle. We are so sure of our claims that we will send Mann's Bone Cutter on

## Ten Days' Free Trial.

No money asked for until you prove our guarantee on your own premises, that it cuts all kinds of bone, with adhering meat and gristle, easier and faster and in better shape than any other. If you don't like it send it back at our expense. Isn't this better for you than to pay cash in advance for a machine you have never tried?

F. W. MANN COMPANY, BOX 57, MILFORD, MASS.

Mfrs. of Clover Cutters, Feed Trays, Granite Crystal Grit, etc.





**INDIANA STATE SHOW.**

The poultry show of the Indiana State Fair, held at Indianapolis, September 14-18, was a record breaker in the way of quality and number of birds and attendance of visitors. There were close to three thousand birds on exhibition, besides attractive side exhibits made by leading incubator companies. Poultry Keeper readers will be especially interested in the following excellent winnings or our advertisers:

Chas. McClave, New London, Ohio, Barred Rocks, 2 cockerel; 1, 3 pullets; 2 pen. Golden Wyandottes, 1 cock; 1, 3 hens; 1 cockerel; 1 pen. S. C. Brown Leghorns, 1 cock; 1 hen; 1 cockerel; 2 pullet; 1 pen. S. C. White Leghorns, 1 cock; 1, 3 hens. R. C. W. Leghorns, 1 cock; 1 hen; 1 pen. Partridge Cochins, 1 cock. Indian Games, 1 hen. R. C. Black Bantams, 1, 2 cocks; 1, 2 hens; 1, 3 cockerels; 1, 2, 3 pullets; 1 pen. Toulouse Geese, 1 old pair; 1 young pair. White China Geese, 1 old pair. Rouen Ducks, 1, 2 old pair. W. C. B. Polish, 1 cock; 3 hen.

U. R. Fishel, Hope, Ind., won on his famous White Rocks, 1, 2, 3 cock; 1, 2, 3 cockerels; 1, 2 pullets; 1, 2, 3 hens; 1, 2, 3 pens. This was a clean sweep with the exception of a minor prize on pullets.

Mrs. J. C. Fishel, who has Bronze Turkeys equal to the best in the land, won first and second on old and young toms and old and young hens. When an exhibit labeled, "From Fishel," goes to a show it may be depended on to win first in its class.

Then there were a lot of beautiful White Wyandottes in the exhibit of J. C. Fishel & Son, Hope, Ind. J. C. and U. R. are brothers and the Fishel characteristic of having "only the best" is as strongly developed in one as in the other. Their White Wyandotte winnings were, 1 cock; 1, 3 cockerels; 1, 2, 3 pullets; 1 pen.

Among the incubator exhibits were the Cypfers, Prairie State, Petaluma, Cornell, New Ideal and the Great Scott.

**Millville Birds Better Than Ever.**

Record at two early shows fall of 1903: Atlantic City, August 27th-31st, with 32 entries, won, Barred Rocks, 2 cock; 3 hen; 2 cockerel; 4 pullet. Buff Rocks, 1 cock; 2 hen; 2 cockerel; 1 pullet. White Wyandottes, 3 cock; 1 hen; 2, 4 cockerels; 1 pullet, and special for best White Wyandotte in show. Buff Wyandottes, 2 cock; 1 hen; 1 cockerel; 1 pullet, and special for best Buff Wyandotte in show. Pekin Ducks, 1, 2 old drakes; 1, 2 old ducks; 1, 2, 4 young drakes; 1, 2, 3 young ducks, and special for best Pekin in the show. Won in a hot class.

Cambridge, N. Y., September 1-4, with a different lot of birds in a show of 3,000 entries: Barred Rocks, 1 cock; 3 hen; 1 old pen; 1, 3 cockerels; 1, 2 pullets; 1 young pen, and all specials. Buff Plymouth Rocks, 1 cock; 1, 2, 4 hens; 3 cockerel; 4 pullet; 1 old pen; 3 young pen, and special for best collection. White Wyandottes, with four entries, 1, 2 cockerels; 1, 3 pullets. Buff Wyandottes, with four entries, 1, 4 cockerel; 3, 4 pullets.

This record was made with birds left after furnishing our customers with winners for many of the leading fall shows. In some classes we had sold better birds than we showed ourselves, noticeably on young Buff Rocks.

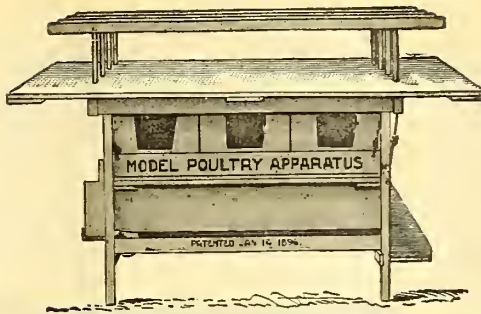
Millville Poultry Farm Co.,  
Maurice F. Delano, Pres. and Mgr.,  
Millville, N. J.

**A Testimonial for American Poultry Remedies.**

Dallas, Pa., March 20, 1903.  
American Poultry Remedy Co., 48 Cortlandt St., New York City:

No doubt you will be interested in knowing that every particle of the drinking water used by our breeding pens contains your American Roup Cure, which we use from early fall to late spring. This is the first year we have used this regularly and the result is that we have never had so little cold and roup among our stock. We have used your cure for years and have found it excellent as a prevention and also cure for the very worst cases. At the present time over four thousand of our stock get your cure to prevent by the medium of their drinking water.

The Meadow Brook Farm Co., World's Largest Poultry Farm.  
(See American Poultry Remedy Co. ad on inside back cover.)



**PITTMAN'S MODEL POULTRY APPARATUS.**

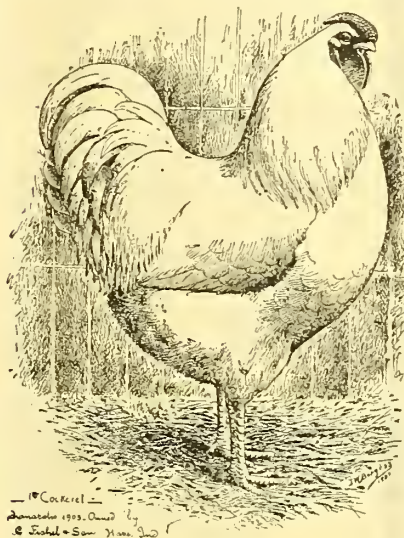
The most useful invention of the age for those who keep hens; the apparatus that it pays to use; the one that is admired by all who see it; the one every poultry raiser needs; stands without an equal in poultry house furniture. Complete illustrated plans and specifications for making in five sizes furnished for short time at half price. Can be made at home at small cost. Circular free if you mention Poultry Keeper.

C. PITTMAN, Dept. B,  
SANTEE, NEBRASKA.

**Standard of Perfection Free.**

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. **THIS OFFER IS GIVING \$3 OF VALUE FOR \$2.** A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

**Poultry Keeper Publishing Co., Quincy, Ill.**



**Fishel's White Wyandottes**

Show their supremacy once more. At the GREAT AMERICAN POULTRY ASSOCIATION SHOW held Sept. 14-18, 1903, in connection with the Indiana State Show,

**Fishel White Wyandottes**

Won 1st Cock, 1st and 3d Cockerels, 1st, 2d, 3d Pullets and 1st Breeding Pen.

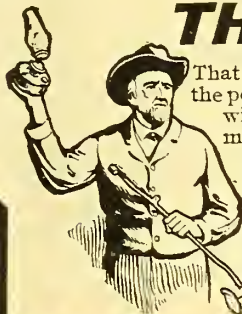
In competition with birds from the far East, West, North and South, is still a proof that we have the

**WORLD'S BEST.**

We have something over 2000 BIRDS FOR SALE and know we are in better position to select birds to please you than those who have a few birds to select from. Please allow us the pleasure of figuring with you.

J. C. FISHEL & SON, Box K, Hope, Ind.

**THROW THEM AWAY**



That old defective Regulator and Lamp are probably to blame for the poor work your Incubator did last year. The loss on one hatch will more than pay for our new Lamp or Regulator, which make the results of hatching a certainty, not a hazard.

They Fit any Incubator and Will Improve Its Work.

THE ACME COMPOUND REGULATOR is positively the simplest and most sensitive, and is sold under a guarantee that it is absolutely perfect and far superior to any other regulator on the market. Double Disc, gives double expansion and power. Patent allowed; beware of infringements or worthless imitations.

THE ACME AUTOMATIC SAFETY LAMP does away with the work and annoyance of frequent filling and trimming required by all other lamps. Large reservoir with automatic feed supplies oil to burner as needed and no faster. Indestructible wick, needs no trimming. Water jacket around burner. **POSITIVELY THE LATEST AND MOST IMPROVED LAMP MADE.**



Double Disc  
Makes it  
Doubly  
Sensitive

Price of Acme Compound Regulator, complete... \$2.00  
Price of Acme Automatic Safety Lamp, complete, \$2.50  
**BIG REDUCTION IN PRICE.** For a limited time only, we will send One Acme Compound Regulator, complete, for only \$1.60  
One Acme Automatic Lamp, complete, for only... \$2.00  
**BOTH IN ONE ORDER, for only... \$3.00**  
**SATISFACTION GUARANTEED.**



We Have  
Hundreds of  
Testimonials.

We have regulators from 75 cents up, and all other goods in proportion. Write for special offer circular quoting other bargains on Incubator fixtures, etc. Complete catalogue, testimonials, etc., free on application. Write to-day and keep in touch with the newest and best things in this line.  
**H. M. SHEER CO., Box 18, QUINCY, ILLINOIS.**  
Manufacturers of Regulators, Lamps, Tanks, Poultry Markers, Leg Bands, and all Incubator supplies and specialties.



### A Stir in Feathers.

Much interest is being centered in the H-O Co.'s original and unique Feather Guessing Contest, as announced on page 243, this issue. The company reports that more guesses are coming than they really expected so early in the contest. After all, it doesn't seem like such a formidable proposition as some might suppose, if you stop to think about it.

The H-O Company have opened up an interesting and instructive line of thought upon original lines. The feather question is likely to have a general discussion, and some interesting problems will no doubt be presented. For instance, how many times does a chick change its down and "featherlets" before it gets its real suit of sure enough feathers—how many feather changes during the first year? Does a fowl have more feathers than a chick or broiler, or is it just a difference in size of feathers? Are there really more feathers on a Cochin than a Leghorn, or is it just a difference in size and shape and the way they are put on? No doubt some of our readers could contribute some good matter of this kind,—on the market value of feathers, how to care for them, the drain on the vital energies of a fowl during the molting season, the necessity for correct feeding during that trying time, etc., etc.

Probably some data, that might serve as a basis to work on would stimulate even a greater interest in this contest,—although the best basis of course would be, to kill about that description of a fowl and count the feathers.

The H-O Company permits us to publish the following information for the benefit of our readers who may wish to guess: They say that a certain Plymouth Rock pullet (common stock) four and a half pounds live weight, was killed last March, and the feathers on the entire body except the head and a small portion of neck, saved and counted. There were about 5,000 feathers; and the estimate of small feathers on the head and neck would add, from 500 to 1,000 more.

One way of estimating would be to dry pick a Plymouth Rock (seven and a half pounds if you have one), weigh the feathers (which will probably come pretty close to three ounces), then weigh up say half an ounce on a postal scale, taking a fair sprinkling of feathers from the head, neck, wing, tail etc., count this small portion and multiply it by six, or whatever the right proportion is. If you take a chicken in molt, remember two things,—first, that the feathers are heavier on account of the animal matter in the quill, and second, that there are probably some feathers missing on account of the molting process. Remember also, if you weigh old feathers, that chicken feathers in particular gain weight with age.

The prizes offered by the H-O Company are so liberal that every one ought to take a hand in the contest. It only takes a little enterprise and patience. The H-O Company says that in a certain feather store, in Buffalo, 12,000 mixed chicken feathers, dry, were counted by one person in two hours' time. When writing the company please mention Poultry Keeper.

### Eggs in Fall and Winter.

An ad of special importance that will appear this month only is the Banner Egg and Food Tonic reduced price for the month of November. This food and tonic is a valuable preparation made by the Excelsior Wire and Poultry Supply Co., Dnt, K. 28 Vesey St., New York City—one of the biggest supply houses of the country. In view of the scarcity of eggs and the good prices they will demand this winter, it is especially necessary that hens receive the proper food. The "Banner Food" has been used year after year by progressive poultrymen who know how to feed for best results. By taking advantage of the Excelsior Wire and Poultry Supply Co.'s offer (see page 268) P. K. readers can get their supply of Banner Egg Food cheaper than they could prepare it. Full pound box 15 cents, or 7 boxes for \$1. Last November the company's sales exceeded two tons—this great demand is proof that wide-awake poultry keepers find it a paying thing to use.

We urge P. K. readers to look up the merits of the Vernon Egg Box, for it is not only convenient, secure and moderate

priced, but is the best thing in this line on the market. Those who cater to select market trade will appreciate the fact that the buyer of eggs will gladly pay a cent or two extra per dozen for his eggs when they are delivered in so wholesome and appetizing a way. Even as a matter of profit the seller of eggs needs this box. The illustration in ad on page 270 (F. R. & F. J. Vernon, 1013 Grand St., Brooklyn, N. Y.) shows what this box is like.

T. N. Smith, Atleboro, Mass., has a grand lot of Rhode Island Red cockerels and pullets from a 214-egg strain to spare, as well as birds fit to win in any competi-

tion. His Silver Penciled Wyandottes (direct from Cornell strain) have produced the finest birds in the country, some of which will be seen at Madison Square and Boston shows this winter. Every bird he raised is from a prize winner. See ad on page 270, and write to Mr. Smith for prices.

**CHEAP, GOOD, YOUNG AND OLD STOCK.**  
Young fowls, \$1 to \$3; Good trios, \$5. Br. Leghorns, W. Leghorns, Bar. and W. Rocks, Bl. Minorca, W. Wyandottes, Pit Games and M. B. Turkeys. Circular, Fowls and Buildings, free.  
E. W. GEER, Box 104, Farmington, Mo.

# The Wonderful State of Washington

Michigan, Minnesota and Wisconsin have iron and lumber—so has Washington.

The Dakotas and Texas have wheat fields and stock ranges—so has Washington.

Delaware and Maryland have fruit—so has Washington.

California and Nebraska have sugar beets—so has Washington.

Massachusetts has fisheries—so has Washington.

Maine has lumber—so has Washington.

New York has hops and apples—so has Washington.

The Atlantic Coast has harbors—so has Washington.

Pennsylvania has coal and lime—so has Washington.

Colorado has gold and silver—so has Washington.

Washington offers opportunities to men in every walk of life—to farmers, artisans, tradesmen, manufacturers and professional men.

Why not see what Washington can do for you?

Very low-price one-way tickets will be on sale to the State of Washington via the Burlington Route from September 15 to November 30.

Only \$30.50 from Chicago to Spokane, Ellensburg, Wenatchee or Umatilla; \$33 to Portland, Tacoma or Seattle.

The Burlington offers a greater selection of routes and better service to the Pacific Northwest than any other line.

Let me tell you more about Washington, the best way to get there, and what it will cost.



P. S. EUSTIS,  
P. T. M., Chicago, Ill.



## IN IRELAND EGGS ARE BOUGHT AND SOLD BY WEIGHT

### Production of Strong Shelled Eggs—Premium on Brown Shelled Eggs.

By H. deCourcy, Poultry Expert to the Irish Agricultural Organization Society, Dublin, Ireland.

SOME years ago the custom in Ireland, as elsewhere, was to buy eggs by the dozen or score and to sell them by the hundred, but this system is gradually giving way to the more equitable one of buying and selling all eggs by weight. This up-to-date system has been universal in Denmark for many years, and was introduced into Ireland when the Irish Agricultural Organization Society began to organize co-operative poultry societies after the model of the Danish societies.

The beneficial effect of the weight purchasing system is even now, after only a few years' trial, fully recognized, for the old-time adage, "an egg is an egg," no longer holds good. A small egg now brings a small price, a medium egg brings a moderate price, but a large egg brings a good price. The immediate effect is that people have a strong inducement to keep those breeds and strains of fowls which lay the largest eggs, and when setting eggs to hatch, those of large size are selected in the hope that they will produce layers of large eggs.

It is difficult to form an estimate of the great improvement wrought in the poultry industry of a district, even in a few years, by the weight purchasing system, but through the kindness and courtesy of Mr. F. Stanell, manager of Mallow Co-operative Poultry Society, Ltd., County Cork, I have been allowed to examine the books of this society and to ascertain what the real and tangible improvements are. The increase in the size of eggs is shown by the fact that when the Mallow Society opened business four years ago, there were scarcely any eggs received weighing seventeen pounds per one hundred and twenty, but a small proportion weighing fifteen pounds per one hundred and twenty, and about half of the total weighing thirteen pounds per one hundred and twenty, whilst during a single week of the present month the following are the weights of the eggs collected: Total twenty cases holding twelve hundred each made up as follows: Two cases of fourteen pounds per one hundred and twenty; two cases of fifteen pounds per one hundred and twenty; eight cases of

sixteen pounds per one hundred and twenty; five cases of seventeen pounds per one hundred and twenty, and three cases of eighteen pounds per one hundred and twenty.

It is therefore estimated that the weight of all the eggs produced in the district over which the Mallow Co-operative Poultry Society operates has increased by at least two pounds per one hundred and twenty. There are many poultry keepers, members of this society, whose eggs used to weigh eight or nine to the pound four years ago, but now make an average of five and one-half to six eggs to the pound, so that they obtain as much money for six eggs now as they got for nine eggs produced under the old system of purchase by count.

When making preparations for the production of eggs poultry keepers should remember that a very large proportion of the eggs produced are consumed in places remote from the farms on which the hens are kept; that is to say, in the cities, large towns and other centers of

population. It is therefore necessary not only to produce eggs, but to produce them with shells of sufficient strength to bear handling, packing and transit. Strange as it may seem, many people seem to forget this important requirement and hence there are many complaints about breakages of eggs in transit.

Many poultry societies and also private traders suffer heavy losses owing to the thinness of the shells of eggs with which they are supplied, as it is almost impossible to handle some of these without breaking them and they cannot possibly be packed so as to travel with safety. This peculiarity has been noticed especially in those districts where the greatest proportion of eggs are white-shelled, and those who have experience in the handling of large quantities of eggs have observed that as a general rule brown or tinted shells are stronger and thicker than white shells. This circumstance is probably owing to the fact that those hens which lay white-shelled eggs are the non-sitting breeds and they usually lay every day, with very few stops, for long periods. They therefore have not time to furnish their eggs with thick shells, unless they are provided with shell-making materials in suitable and abundant quantities.

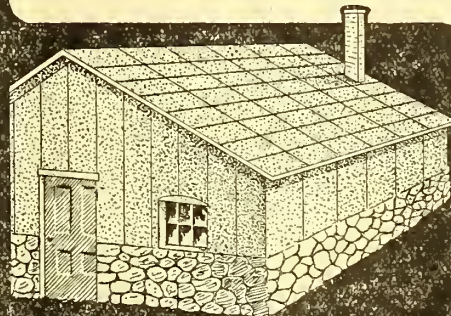
Those hens laying brown shelled eggs, on the other hand, take many a day off, and are consequently in a better position to produce strong shelled eggs. However this may be, one thing certain is that all

### Hen Comfort Means Hen Money.

Cover your poultry houses—roof and sides—with our Economical roofings. Keep out the cold and keep in the profits.

## Neponset

(Don't forget the name)



is the original red rope roofing. It will give you better service than any other low priced roofing made. Don't confuse it with cheap tar papers. Get the original with a lifetime's record behind it. You can apply it easily; complete roofing kit free with each roll. Send for booklet, "Building Economy," and free samples.

**F. W. BIRD & SON,**  
East Walpole, Mass. Chicago, Ill.

## Study Poultry Culture

### Poultry Profits

come only to those who proceed along right lines. There's no money in it for you unless you know your subject.

## Our Business is Teaching

With singleness of purpose the best talent we can procure is engaged in putting people on the road to success in poultry raising. We concentrate on one subject—Poultry. We know our subject and teach it in all its branches.

### Fifty Instructors

compose our teaching force. Every one is a specialist—practical men—not mere theorists. Qualified by close study of poultry conditions and principles, they made successes themselves and know the way. We will tell you of our plan of education which teaches you in your own home, without loss of time from your business, how to increase your income with poultry keeping as a side line, how to make a success with them as a business, or how to derive more pleasure from them as a fancy. Ask for it. Mailed free.

**American Poultry Institute., Dept. P13, Rochester, N. Y.**



# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected. Bred over 20 years, GREATEST EGG LAYING STRAIN IN EXISTENCE. LARGE, PURE WHITE, FANCY MARKET EGGS. STANDARD QUALITIES. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME. Unexcelled for INTRODUCING BLOOD or as FOUNDATION STOCK. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. Stock for sale, both old and young. Illustrated circular free if you mention Poultry Keeper.

H. J. BLANCHARD, GROTON, NEW YORK.

laying fowls should be provided with an abundant supply of materials suitable for shell making, and as these materials can be produced almost free of cost in most localities, I fail to see why poultry keepers should neglect to supply them to their fowls. The man who buys an egg pays for the shell as well as for the contents and he expects to get the edible portion encased in such a way that he can keep it, hatch it, boil it or send it by rail or post. When the system is to buy by weight it is especially true to say that the shell, as well as the contents, is paid for, and if an egg farmer can sell egg shells at six pence to ten pence per pound why should he not have them made as heavy as possible? If he only provides the material the hens will do the rest.

The material from which egg shells are made is carbonate of lime, and there are many forms in which this may be furnished. For egg shell making ground oyster shell is one of the best materials, but there is little or no use in recommending it since comparatively few farmers or cottagers can procure it. Poultry keepers who live near the sea coasts or close to rivers can, however, find a very good substitute in the broken shells mixed with gravel so plentiful on most shores. I know many poultry keepers who keep a regular supply of such material in their fowl runs and they speak highly of its excellent qualities as a shell former.

Those who live inland and who cannot easily get the materials referred to should procure old lime, mortar or plaster, finely ground limestone, etc. Of these things perhaps the best is old mortar. Any of these things should not be mixed with the food, but merely left in a corner of the yard or run, where the hens can reach them.

There is, however, one substance which if used at all it is advisable to mix with the soft food, and that is the shell of eggs that have been used in the household. Egg shells should never be thrown about the runs, lest from eating them in such a form the hens may learn to break and eat their eggs, but the shells should be broken fine and mixed through the mash.

It is not alone on account of their strength that brown shelled eggs are preferred in the British Islands. They are liked as well for their appearance upon the breakfast table and for their quality and flavor which are considered far superior to those of white shelled eggs. For this reason there is a premium on brown eggs and not only do they meet a greater demand than white ones, but also they sell at an increased price of one to three cents per pound.

A coat of whitewash will do good to the inside of the poultry house. It gets rid of most of the red mites, sweetens the pens and makes the inside of the building much lighter for the dark days of winter. Add a solution of carbolic acid to the whitewash when mixing and the work will be more profitable.

## SULPHUR INSECTICIDE—RAT TRAPS AND POISON.

Orlando, Fla., Sept. 30, 1903.

Editor Poultry Keeper.

I see several of your readers are interested in mites. I have used kerosene emulsion. It is good, but the sulphur insecticide is vastly superior and keeps my stock better. The fumes of the sulphur drive the lice and mites out of their nesting holes. We have here a chigger flea—the size of a pin prick—that is more pestiferous than any mite. This sulphur spray is very effective with them. The spraying should be well done, a full wetting down where things are bad, and repeated every day just before the hens go to roost (if house is well ventilated). Here is the formula:

Thirty pounds flour of sulphur.  
Twenty pounds caustic soda, 98 per cent strength.

Three gallons water.

Take flour of sulphur, place in a wooden tub large enough to hold twenty-five gallons (clean barrel), wet the sulphur with the three gallons of water. Stir it to a smooth paste, then add the caustic soda and thoroughly mix. In a few minutes it turns brown, then becomes a liquid. Stir well and add water to make it twenty gallons. Let it settle awhile, then pour off from the sediment. Keep this in a tight barrel or keg and use as needed.

Of this stock take one, possibly two quarts, to forty gallons of water for the common mites or chigger flea, double that for the red spider mite.

This mixture is very caustic and will eat your hands or clothes and destroy metal dishes.

Your correspondent who is troubled with rats will find that she makes her poison too strong, and sets her traps also too strong. The spring steel traps should have the trip filed off two-thirds, so it will only just stay. A rat's step is only about two ounces and a two ounce weight should spring the trap. I have a new wire cage trap (the Marty), very effective. I caught six at one time, four several times.

Now if your correspondent will take concentrated potash and put in the rat holes or along on the joist where they run (where the chicks cannot get it) they will "vamoose" the ranch.

Some day I will send you a sketch and description of my improved roost.

E. A. Peck.

### Keep an Egg Record.

We have on hand several hundred copies of Croley's Egg Record, a neat little book with ready-to-use ruled pages for keeping egg records and accounts. The regular price of this book is ten cents. We mail copy on receipt of ten cents in postage stamps. Address, Poultry Keeper Pub. Co., Quincy, Ill.

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**WHICH ARE THE BEST SQUAB BREEDERS?**

Which are the best variety of pigeons for producing squabs? This depends somewhat upon the size of squabs wanted. Some clubs, hotels and high priced restaurants are seekers after extra sized squabs, and are willing to pay what they are worth. There are others who want a large sized squab, but are not willing to pay the price. It costs more to produce an extra large sized squab for the reason that the variety of birds that breed them are not prolific breeders, nor are they apt to be as good feeders of their young.

To secure the extra sized squabs a Homer crossed with a Runt, Florentine, Mondane or Carnaux will produce them. There will be obtained from this mating a less number of squabs than from the straight Homers in a year, besides Runts, Mondanes and Florentines are not as hardy as Homers and are more expensive and an occasional loss of a breeder makes quite a hole in the profits. There are other crosses which breed a fairly good squab—the Homer crossed with a Dragoon, Duchess or common pigeon.

But none of the varieties mentioned is as hardy as the Homer, and there is none so prolific. There are no better feeders of their young in the pigeon family than a pure bred Homer, consequently every drop of foreign blood introduced to the Homer adds nothing of particular benefit, except when crossed with a larger breed, which gives increase of size. On the contrary, profitableness is diminished.

A well bred Homing pigeon will produce squabs at four weeks of age weighing ten to thirteen ounces, full, rounded, plump breasts, and a delicious table food, that commands a ready sale everywhere at profitable prices and will produce from eight to ten pairs of squabs in a year. So that as a money maker there is no breed or variety of pigeons that can approach the pure bred Homer. And right here I would like to say that in my experience I have found the larger birds are not always the most profitable, nor do they produce the largest squabs. Homers, with a full, round breast, medium size, full of action and vitality, will produce the most desirable squab.

A. P. Spiller.

Beverly, Mass.

When a flock is visited by roup and the disease puts in an appearance every year, it means that either the premises should be thoroughly disinfected or the disease is inherited through a liability or susceptibility thereto. For these reasons, not only should the entire premises be cleaned and disinfected, but the fowls should be gotten rid of and healthy birds procured elsewhere, especially if roup has at any time prevailed. It is a precaution that may save labor and time, for when roup becomes general it is only with hard work that it can be eradicated.

Hens are getting over the molt early this year and should make good winter layers. Do not let them lack for meat-scrap or green-bone if you want them to grow a good covering of feathers. A small bin of meat-scrap in every pen will give the birds a chance to balance the ration for eggs in cold weather.

**THE BUFF TURKEY.**

Benevola, Ala., Oct. 2, 1902.

Editor Poultry Keeper.

I agree with you about the good qualities of the Buff Turkeys, and fail to see why they are not more popular. I have tried several sorts, and have decided that the Buff are the hardiest of all. They are not as large as the Bronze when both are mature, but when marketed under one year of age will weigh as much, and their flesh is superior, as it is not so stringy, and their bones are smaller.

They are home lovers, and always come home to roost, at least this has been my experience with them. I always give them a little bread at night when they come, and they seem to think it the best bite of all. They are excellent layers, nearly all of my hens have brought off their second brood, and some of them are sitting the third time for this year.

J. W. Upchurch.

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-



class in every respect. With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

It is not too early now to be planning incubators and brooders for next year's work. Get the incubator set up a month before you plan to use it. If you order it when every one else is buying you may have to wait a month or two before it arrives. There is a "rush time" with incubator manufacturers, and you should see that your order gets in early. We shall illustrate a good home made brooder this winter. If you are so fixed as to make brooders you will find this better than most of the home made brooders have been. Everything considered, we think it best to buy all brooders, but there are not so many good brooders as incubators. It is easier to hatch chicks than to raise them, and much of this is owing to poor brooders.

**Lee's of Omaha**



makes the best lice and mite killer for poultry—Lee's Lice Killer. A liquid—simply spray or sprinkle on the roosts. No handling of fowls. No labor or bother. Kills both body-lice and mites. Sold in every state at 35 cts. per qt., \$1 per gal. Send for free catalogue, poultry booklet and calendar, list of 3,000 agencies, etc. GEO. H. LEE CO., Omaha, Neb.



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Four cents per word for one month; 8¢ per word for 2 months; 9¢ per word for 3 months; 10¢ per word for 4 months; 24¢ per word per year. No ad inserted for less than one dollar. Numbers and initials count as words. Terms, cash with advertisement. Be careful to count the words correctly and thus avoid delay. Copy of advertisement, **PLAINLY WRITTEN**, should reach this office by the first of the month.

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ANDALUSIANS. Fancy blue young stock \$1 up. Culls 75c. K. L. Chatterton, Freeville, N. Y. 8-3

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B. B. GAME BANTAMS—A few breeding hens, \$2 each. A few choice cockerels and pullets, \$3 to \$5 each. Cockerels not trimmed. A few show coops for sale cheap. L. F. Diddle, Chesterton, Ind. 9-4

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BLACK JAVAS exclusively. One hundred choice cockerels for sale. All orders received before December will be filled at \$1 each. Have your order booked now. Gerald J. Townsend, Poynette, Wis. 9-4

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HOWARD L. CRISP, Relay, Md. Eggs from heavy laying White Leghorns, bred from prize winners, \$1 per 15; \$5 per 100.

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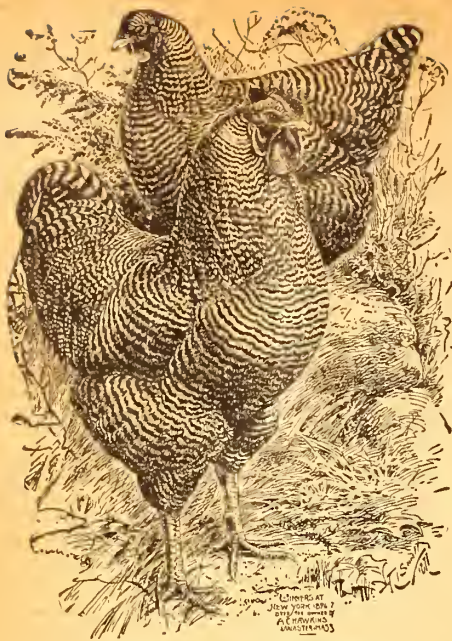
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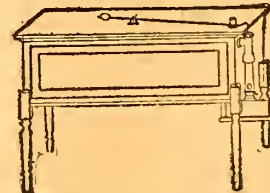
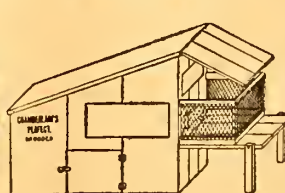
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Vol. XX.

November 15, 1903.

No. 8.

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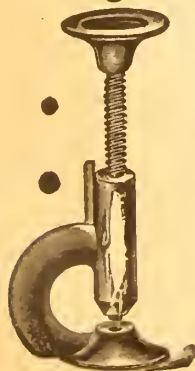
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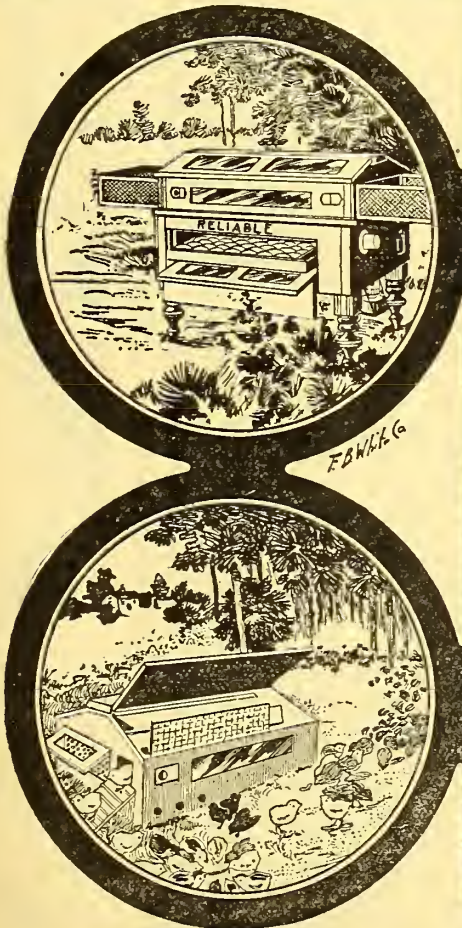
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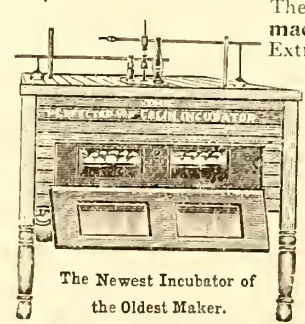
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Concerning the Mash Feed question—did you read Michael K. Boyer's interesting and instructive article in the June, 1903, issue of "The Feather?" Here's the meat of it:

"A prominent writer is trying to belittle the morning mash, but keep feeding it just the same if you want winter eggs. The reason for feeding mash food to laying hens, or to any fowls, in fact, is to gain the benefit from its partially prepared condition for speedy passage through the gizzard into the system. When hens are constantly laying during the winter months it is thought to be beyond their power of grinding to consume enough hard grain to keep up the demand to sustain the entire system and furnish heat for the body and manufacture eggs."

### **WHAT BOYER SAYS**

When hens are constantly laying during the winter months it is thought to be beyond their power of grinding to consume enough hard grain to keep up the demand to sustain the entire system and furnish heat for the body and manufacture eggs."

Mr. Boyer is a continuous user and strong endorser of the H-O Co.'s Poultry Feed. Also a host of other successful poultry experts. Look for some of these endorsements in future issues of this Journal.

**Can you afford not to try it?** Inquiries invited and promptly answered.

## **THE H-O COMPANY, BUFFALO, NEW YORK**



**MONEY MADE RAISING PIGEONS**

We supply you the breeders and buy all you raise. Particulars and book, illustrating and describing all varieties and how to care for them, 7 cents. Hundreds for sale. Homers, Runts, Dutchess, Dragons, Carriers, Barbs, Pouters, Fantails, Tumblers, Owls, Tarbits, Blondinets, Satinets, Magpies, Swallows, Archangles, Nuns, Starlings, Trumpeters, Jacobines, Helms, etc. 9-12

WM. A. BARTLETT, Box 23, Jacksonville, Ill.

**HAXTON HAS THEM**

If you are looking for WHITE WYANDOTTES. My young stock are developing into large, blocky, birds with nice yellow legs, and, the best of all, are pure, stay WHITE. Young stock and yearling breeders at a bargain. Satisfaction guaranteed. Write and mention Poultry Keeper.

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For 50c Per Sitting.**

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.

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**Roofs and Roofings.**

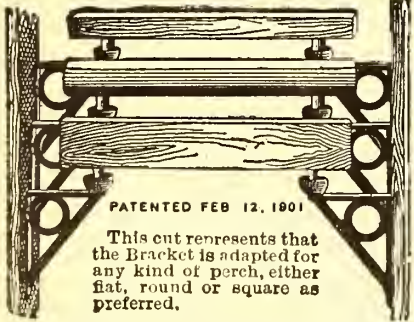
If you are interested in a clean, inexpensive, everlasting roof that is guaranteed, ask us about it.

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costs but little in the first place and nothing afterward. Anybody can lay it. Write for catalog.

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Also manufacturer of the famous **Climax Asphalt Roof Paint** for composite, iron or wood roofs. Ask for it.

**Catches Them Coming and Going**



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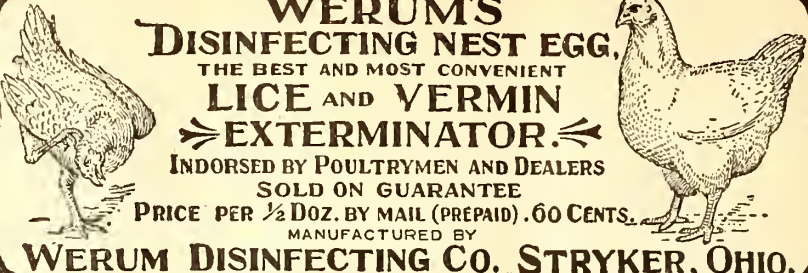
This cut represents that the Bracket is adapted for any kind of perch, either flat, round or square as preferred.

**Eureka Oil Cup, Bracket and Perch Supporter.**

The Greatest Boon to Poultrymen, Practical, Durable, Cheap, Convenient.

A permanent fixture for all times. The spider or midge louse cannot exist where this system is in use. Do not put it off, but send for circular, or send \$2.50 for a trial dozen and be convinced.

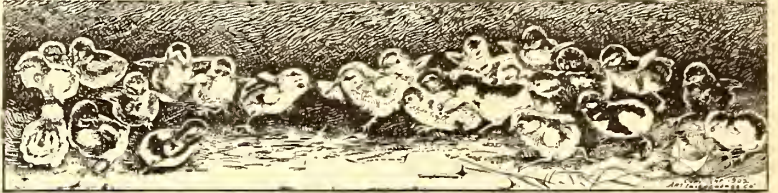
Wm. M. Shrader, Box 94, Bucyrus, O



**WERUM'S  
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THE BEST AND MOST CONVENIENT  
**LICE AND VERMIN  
EXTERMINATOR.**

INDORSED BY POULTRYMEN AND DEALERS  
SOLD ON GUARANTEE  
PRICE PER 1/2 DOZ. BY MAIL (PREPAID) .60 CENTS.  
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# CHAS. A. CYPHERS' ANNOUNCEMENT

To The Poultry World:

Having resigned as President of the Cyphers Incubator Company, of Buffalo, N. Y., thereby severing all official connection with that company, although remaining a minority stockholder, I hereby announce that I will again enter the incubator business under the title of Chas. A. Cyphers Co., of which company I am sole owner.

Since first placing an incubator on the market seven years ago, goods of my manufacture have been the standard for which other makers of incubators have striven; and my knowledge of artificial incubating and brooding justifies the assertion that my improved hatchers and brooders will excel anything in that line now being offered the public. I have leased for a term of years a large manufacturing plant giving me ample facilities, and shall have in my employ expert mechanics many of whom have been constructing incubators under my supervision for years.

I wish at this time to sincerely thank my friends and patrons for their appreciation of my efforts to give them the most efficient goods in my line, and ask for a continuance of the same hearty support and liberal patronage accorded me in the past.

A preliminary circular will be ready for distribution about November 15th; and my main catalogue on or about January 10th. I shall be glad to register your name and mail a copy as soon as issued.

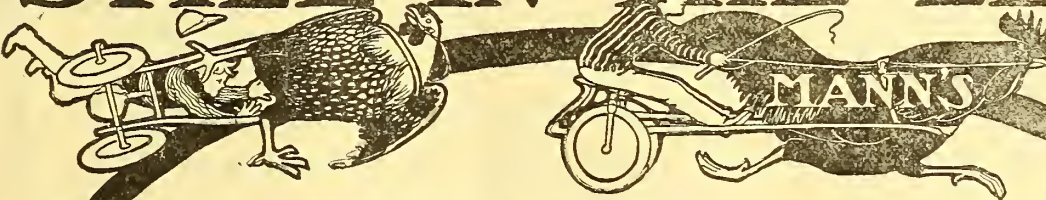
Very truly yours,  
CHAS. A. CYPHERS.



CHAS. A. CYPHERS CO.

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Incubators, Brooders,  
Poultry Feeds and  
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## STILL IN THE LEAD



Every year more and more successful poultry raisers buy

### Mann's Latest Model Bone Cutter.

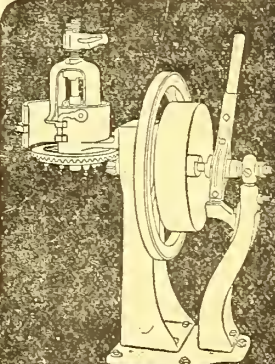
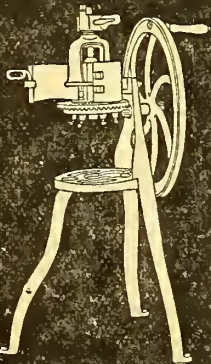
Why is it so? Why is it that more Mann's are sold—all over the world—than of all other makes combined? Is it not reasonable to suppose that the explanation lies in the fact that Mann's gives satisfaction? It is a fact that where others only claim, Mann's performs; where others only promise Mann's fulfills; what others try to do Mann's does. To let you prove these facts we will send you a Mann's for

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on your own premises—no money until you are satisfied that Mann's cuts all kinds of bone with the adhering meat and gristle, easier, faster and in better shape than any other bone cutter can. Note its late improvements, its automatic self regulating feed, open cylinder, its special cutting device, and decide for yourself. It has more late improvements than all other makes combined. Get our catalogue free and read our broad guarantee and trial offer.

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**DON'T SET HENS** the same old way white & 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue selling all about our Big Line Formals FREE if you write today. **NATURAL HEN INCUBATOR CO., Bt., Columbus, Nebraska.**

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Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied. Note Reduced Prices, 12 for 20¢, 25, 35¢; 50, 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples. **The Keyes-Davis Co., Ltd., Mfrs. Battle Creek, Mich.**



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Many styles and heights, made of High Carbon Coiled Spring Steel Wire, heavily galvanized. **REAR LATHES ITSELF.**  
**BULL-STRONG**  
Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.  
**CHICKEN-TIGHT**  
Fence that will turn all kinds of large stock as well as seldom found. We have it. Send for our Catalogue. It's free. **COILED SPRING FENCE CO. Box 222, Winchester, Indiana.**



**de Wolf Farm,**  
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Prize winning **RHODE ISLAND RED** cockerels, pullets and two-year-old stock. **SPECIAL OFFER OF WINTER LAYERS. PULLETS** at \$1.25 each for six or more. 1-12  
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**All The Year.**  
They infest little chicks, grown fowls and fancy birds. Don't experiment with unknown remedies. Get one that has proven itself of high value and stay with it. In season and out, large and small poultry raisers find nothing to equal these standards.  
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Liquid—quart can 35c; half gallon 60c; gallon \$1. Powder—16 oz. box 25c; 48 oz. pkg. 50c, f. o. b. Chicago. Cash with order. Both remedies are equally deadly in their effects. Liquid kills by rising fumes without contact with fowl. Powder to be used in ordinary way. Complete line of poultry supplies. The following in 100 lb. bags: Chick Feed \$2.50; Laying Food \$2.25; Mica Crystal Grit 65c; Crockery Grit 60c; Oyster Shells 60c; Clover Meal \$2.00. Each f.o.b. Chicago, cash with order. Ask for our General Supply Catalogue. Mailed free.  
**DARLING & COMPANY,**  
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Manufacturers of the celebrated Darling Pure Poultry Foods. (Beef Scraps, Beef Meal, etc.)

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**THE** Rose C. Browns up to 242 eggs to a pullet: Single Comb Browns are equal to them, although not counted. A fine lot of cockerels and a few females and cocks. Thirty prizes New York. White Wyandottes, great big white winners, and layers of the finest brown eggs. Customers say they never saw such big, nice eggs. Barred Rocks, (Bradley), Rose and Single Comb Whites. Also Collie Pups  
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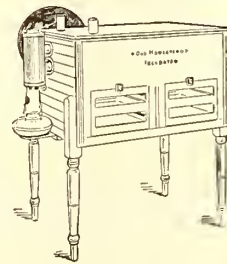
**Absolutely the best. Cure guaranteed.** Simply put the Cure in drinking water and the chicken takes its own medicine. Our 50c package makes 50 gallons of Medicine. Post Paid 50c and \$1.00.

The best and cheapest liquid louse killer is **Flood's Disinfectant and Germicide.** 1 qt. cans 35c, 1 gal. cans \$1.00. Easy to use and lasts the longest.

**Flood's Paragon Egg Producer** mixed with the feed for chickens especially in winter is sure to make your hens lay eggs when prices are highest. Remember this is not a medicine. Price, 1 lb. package 25c, 5 lb. package \$1.00. 1 lb. package by mail 40c, 5 lb. by express \$1.25. Our remedies are sold on an absolute guarantee. **Manufactured only by**

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## This Is The Old Homestead New Incubator



and it will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send for it. It is free to all who mention Poultry Keeper when writing.

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Handsome covers in colors—each a work of art—for the great live stock show editions—are some of the many treats in store for readers of

### THE TWENTIETH CENTURY FARMER

Each issue beautifully illustrated—"feature editions" every few weeks with colored covers.

"Not like other farm journals" as regards being out of a rut—unlike the "dry-as-a-bone" papers that drone on the same key from cover to cover. It is a modern magazine for the modern, progressive farmer, his wife and his children—clean, reliable—above all, interesting. The chief articles are written by noted men, leaders in the progress that has made the American farmer the envy of the world.

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## WHY NOT PROGRESS?

Why pin your chances of success with chickens to hens who refuse to set when you want them?

Why have setting hens when they ought to be laying?

Why not make some money out of your chickens? Why not adopt modern methods now?

## WE'LL TELL YOU HOW

Our catalogue is a mine of information for the chicken raiser. It will help the expert as well as the beginner. Two-thirds of the space is devoted to giving information about the poultry business. The rest tells the truth about the **Victor Incubator and Brooder**. We start with the egg and give pointers that mean profit and increased profit right through to the heavy fowls ready for market. How to make hens lay when eggs are scarcest. How to get chicks when chicks are high. Practical hints that may mean money whether you depend on the old hen or an incubator to do the hatching.

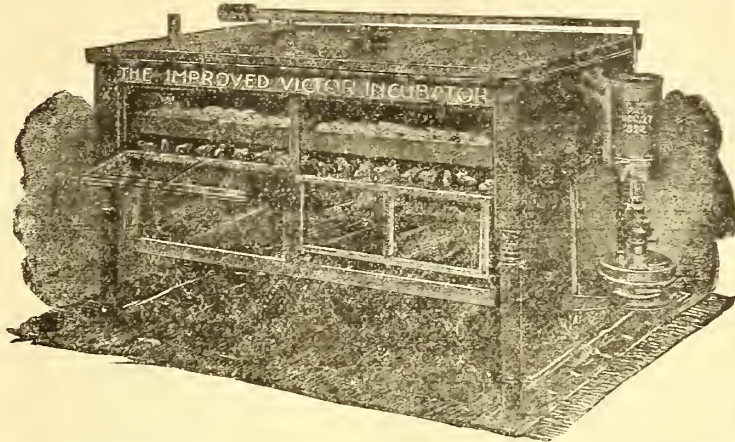
## OUR BOND PROTECTS YOU

With every machine we sell goes our guarantee, signed and sealed, which binds us to return your money if our machine falls short of our representations—if it isn't just as we told you. Could anything be fairer?

## OUR INTEREST DOESN'T CEASE

when we sell you a machine. We keep in touch with our customers. We are anxious for their success.

**GEORGE ERTEL COMPANY, Quincy, Ill.**



Every machine we sell is an advertisement of our company. Every one must do successful work or our reputation suffers. Our advice and help are freely given. We send literature on poultry culture to every customer to whom we sell an incubator.

## WE ARE RESPONSIBLE

The commercial agencies know us. Our credit is good. The banks and express companies will vouch for our integrity. Thirty-seven years of constantly growing business. Thousands of satisfied customers. Testimonial letters which are genuine—which are whole-souled endorsements of us and our machines. Could these be possible if we did not do as we agree? Would we have the same people buying additional machines year after year if they were not what we say they are?

**BETTER WRITE TODAY.**—You have only to say "Send me the Victor Book." We'll gladly do it. A postal-card request is enough.

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Our work is strictly first class, neat, attractive and Up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed will bring orders, where poor printed matter spoils all.

**Good Printing is one of the Secrets of Success in the Business.**

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, **without extra charge**. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. **Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.** Terms, cash with order.

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and ALMANAC for 1904

There is nothing in the world like it. It contains the following: 22 large pages, handsomely illustrated. A number of most beautifully colored plates, true to life. It tells all about all kinds of Thoroughbred Poultry, with life-like illustrations and prices of same. It tells how to raise poultry successfully and how to treat all diseases common among them. It gives working plans and illustrations of convenient Poultry Houses. It tells all about INCUBATORS and BROODERS. It gives full instructions for operating all kinds of Incubators. This chapter is marvelously complete and is worth dollars to anyone using an incubator. It gives descriptions and prices of Incubators, Brooders, and all kinds of Poultry Supplies. In fact, it is an encyclopedia of chickendom and will be mailed to anyone on receipt of only 15 cents. Your money refunded, if not pleased. Address C. C. SHOEMAKER, Box 714. - Freeport, Ill.



Save  $\frac{1}{3}$

of the cost of your Incubator by ordering the

**New Idea.**

It is a complete machine with every modern and up-to-date appliance for controlling temperature, etc. Is built of the best and most durable materials. Has Double Walls, Removable Egg Trays, Chick Nursery, Copper Heater, Improved Tanks, Safety Lamp, best Regulator ever made, etc. Self Regulating and Self Ventilating.

It brings the chicks even in inexperienced hands equal to any machine made. We guarantee it absolutely as represented.

Send for "How to Make and Save Money with Incubators," our handsome new Poultry Book and Catalogue. It will interest you. It is giving old line makers something to think about. Write today. It is free.

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All Poultry Supplies at Cut Prices.

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## Use AVENARIUS CARBOLINEUM Registered

It is acknowledged to be the best and most convenient Radical Remedy against Chicken-Lice and Mites. It does away with dusting, dipping, kerosening, whitewashing and insect powder. Easily applied with a brush. Shipped freight prepaid.

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Printed instructions free of great value. Cost of food to be fed. \$26 per ton from your grain dealer.

"MARY L." The Largest Poultry Plant in the World. SIDNEY, OHIO., Dec. 1, 1902.

W. H. Allen, Arlington, Mass.

Dear Sir: In reply to your favor of the 29th inst., would say; I am using 12 of your stuffing machines, with entire satisfaction.

Respectfully Yours,  
(Signed) JOHN LOUGHLIN.

CLEVELAND, OHIO, April 11, 1903.

Mr. Wm. H. Allen, Jr., Arlington, Mass.

Dear Sir: Your kind letter is at hand. The machine is in good working order and we like it very well. We have seen some other makes and are free to say that yours is the most practical and substantial of them all. Our work has been largely experimental, but the results are entirely satisfactory.

Cordially Yours,  
(Signed) HENRY M. LADD, Prop. Crescent Farm.

Send for testimonials. Please mention P. K. when writing.  
**W. H. ALLEN, JR., ARLINGTON, MASS.**

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# The Columbia School of Poultry Culture

**Successfully Teaches Profitable Poultry Raising.**

**Because**

Its faculty is composed of successful poultrymen and trained educators.  
 Its course is practical and helpful from the very beginning.  
 The lectures are profusely illustrated with cuts, charts, tables and architects' plans, etc.  
 The course is personal, being specially arranged to suit the individual needs and conditions of each student.

Thousands of people who are keeping poultry in a haphazard way, making little or no profit, can quickly learn how to utilize small spaces in the suburbs and elsewhere in the most profitable and advantageous way.

Fanciers are taught to breed their own winners by thorough instruction in the principles of mating and line breeding, while those who keep poultry as pets are shown how to obtain the most satisfactory results.

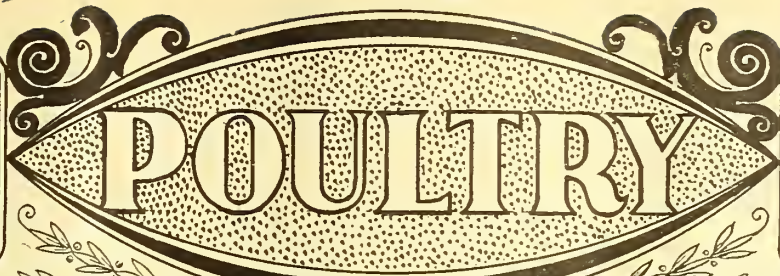
Students are assisted to lucrative positions as managers of poultry plants—the demand for competent men being greater than we can supply. A course will fit you to fill a good position at a handsome salary.

Write for handsome illustrated booklet with synopsis of course. Send for it to-day—it's FREE.

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# THE



A JOURNAL FOR  
EVERYONE  
INTERESTED

# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, NOVEMBER 15, 1903.

No. 8.

## SUCCESSFUL WINTERING OF DUCKS FOR EARLY HATCHES.

Food and Feeding—Housing Accommodations—Making Up Breeding Pens—Care of Breeders—Early Hatches—Dressing and Shipping Market Ducks.

Frances E. Wheeler, Chazy, N. Y.

**I**N response to requests for information on the winter care of ducks, I will try, through the columns of the Poultry Keeper to explain how we at Clovernook manage ours.

In the first place, we are of course very careful in the selection and rearing of our breeding stock; culling out carefully all but thoroughly vigorous, healthy,

### What and How We Feed.

They are fed night and morning a mash consisting of two parts corn meal, three and a half parts brown middlings, four and a half parts wheat bran and in bulk, one-third green clover. At noon a light feed of whole corn or oats is given. Through the fall, after they have their growth (or when twelve weeks old), the

the mashes and everything fed out. When grass and clover are exhausted, rye is substituted (which is planted September first) and dried clover is steeped in boiling water.

### Promoting the Vigor.

The year round no ducks are allowed to sleep on damp, dirty ground or floors. When it rains, they are driven indoors and kept there till the storm is over. The Pekin will stand quite severe cold, but damp quarters produce lameness, rheumatism and death; while filth creates vermin and disease. (I have never yet succeeded in curing a sick duck. Therefore the only safety at Clovernook is to secure as nearly perfect sanitary conditions for the flock as possible and I believe this rule may be adopted with good results by other amateurs in the business.)

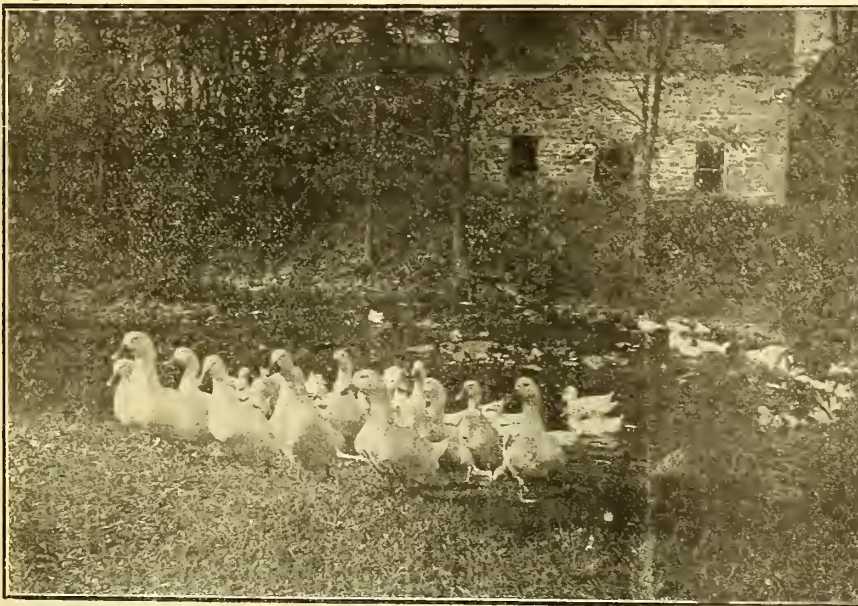
### Ideal Summer Pens.

Our summer sheds for breeding and fattening flocks are of No. 2 undressed hemlock boards: the frames two by four scantling. In dimensions they are 13x13x4½x7½ feet, set on skids, on the brow of the hill and about six feet apart. The roofs are covered with tar paper, and each building is divided so as to accommodate two flocks of about thirty-five birds each. Across the entire front a four-foot wire netting protects the open space of four by thirteen feet, and the same the four by six feet at back and four by three feet at end. Wooden shutters are furnished the back and end windows and the front an eight foot wide awning of canvas. There is also a draft and air space about six inches wide, front and back, under the roof.

These pens, with their yards and running water, make ideal summer accommodations for the Pekin duck, and with their weekly swims in the river, they thrive and take on size and flesh astonishingly quick and economically. Where free range is allowed, one hundred birds may be roomed nightly in one of the above described pens, provided a lantern is kept burning in it nightly. Otherwise it is unsafe to crowd the birds in too close quarters, as they are very timid and easily frightened and therefore liable to stampee and trample on and injure each other.

### Severe Winters and Early Hatches.

Where, as at Clovernook, the winters are severe, and providing early hatches are sought for, the housing accommoda-



"Our Ducks are not penned in yards, but go and come at their own good pleasure on river and field."—F. E. Wheeler, Clovernook Duck farm.

large and well formed birds. These have free range. By this is meant that they are not penned in yards after about ten weeks of age; but go and come at their own good pleasure on river and field.

breeding flocks are given beef scrap; but when cold weather sets in and the river freezes and worms and bugs "non est," we add to above ten per cent beef scrap and we mix same amount of sand with



tious must be tight, warm and well ventilated. As eggs chill at thirty-eight degrees above freezing, and are deposited by the ducks mostly on the floor, it is necessary to look pretty closely after them. I find that a coal stove is about the cheapest and best preventive for chilled eggs during the blizzards in February and March, that run our thermometers down to thirty-five and forty degrees below zero.

Our house is thirteen by twenty-six feet, boarded and tar-papered, a four-inch air space and lined, top, bottom and sides, with tongue and grooved lumber. One window, a four by eight, provides light and has a wooden inside shutter



Mr. Redfield's 3-months'-old Pekin Ducks Hatched from Clovernook Eggs.

that we drop down on cold nights. The stove is in the middle of the room and a forty-gallon barrel of water in one corner that we keep filled. When ice appears in it, we "fire up." It is for the use of the ducks.

#### Dangers from Damp, Frosty Houses.

Next month I will try to describe our ventilating arrangement to the Poultry Keepers readers. It is the most difficult problem I have been called on to solve, connected with the successful wintering of ducks for early hatches. They consume more oxygen than any fowl I am acquainted with, and therefore require a constant supply of fresh air, while at the same time we don't want their food, water or eggs to freeze.

In pleasant weather the birds are kept outdoors during the warm, sunny hours. The bedding is usually straw, and they are kept clean and dry as possible. Coal ashes they like to eat, so we give them all they want. I think a very cold place, if dry and not drafty, and the ducks are well fed, is much better than a warm place, poorly ventilated and damp. Frost collecting on the walls is very mischievous on the health; and all sorts of combinations result from colds and rheumatism.

#### Sorting the Breeders.

When the ducks are from eight to ten weeks old the females develop a good, loud "quack," and the males the sissing, whisper or whistle peculiar to their sex. We are then able to distinguish our birds and with a "catching board" (a light wooden frame about two feet high and six long) corner up a few birds at a time, and taking up each singly by the neck, we examine its bill, legs and back.

The males for breeders are put by themselves, also the females, and the balance reserved for market. We then stand off and watch the movements and examine the general appearance of those reserved for breeders, and the defective

#### Ducks Are Greedy Eaters.

The accompanying photo, taken about August tenth, of ducks produced from eggs shipped Mr. Redfield in May, show "A good hatch." He says, "You advised me not to let food lie around for them to pick at, but to just give what they would eat up clean. I have never been able to really satisfy my 'quacks' yet. I feed them a mash of two to three quarts corn meal, ground oats, middlings, bran and beef scrap mornings (sixteen birds in all), and wheat, corn or oats in the afternoon. Between whiles they feed on apples and grass in the orchard. They are immense birds, but do not seem to put on meat."

Mr. Redfield's success in the vigor and size of his ducks is, in a good share, due to his method of light feeds, dry and roomy housing and free range. He can, in two weeks, get on these birds a weight of from five to seven pounds each by yarding up and feeding carefully four times a day. Nearly every egg that I sent him hatched and I think he has not lost a single bird.

#### Treatment for Failing Appetite.

Regarding the cure of sick ducks, will qualify my statement. The first symptom of ailing is loss of appetite. When you notice a bird stand off and watch the others eat, look out! Take it promptly from the pen and put down its throat a wad or two of mash strong with beef scrap; feed it three or four times a day and care for it and quite likely it will recover. Frequently all the system needs is toning up.

#### Killing and Picking Market Ducks.

We send our doomed birds to "clean up" at the river, after which they are driven into the pen reserved for this purpose. With a sharp blow on the head the duck is stunned; the mouth is then opened and a long, slender bladed knife inserted back up into the brain, twisted, cutting the jugular vein; it is then bled freely head downward. We wrap the bill and head in a thick cloth (for cleanliness) and pick while warm.

The coarse feathers go into one pile, the pin feathers into another and the fine ones and the down into a big basket. (Every five ducks yield about one pound of feathers.) which at the close of the picking is carried to and spread on a clean floor to cure. They are turned about twice a week, and it is about six weeks before they are ready for sale.

Regarding the picking, we usually clean the wing, breast, neck and legs first, using a knife with which we catch hold of the most stubborn feathers and moistening our finger tips to help rub off the down. There is quite a little knack in picking ducks that cannot well be described, but which comes with practice.

At Clovernook, if our order is for a big shipment, all hands turn to and hustle it off, as a rule, shipping the day we begin killing. When the feathers are off, the mouths of the birds and the feet are carefully cleansed and they are then plunged in ice cold water, which is usually changed three times during the day. We then wipe them dry, weigh (five at a time) and pack in straw so that the birds do not touch each other.

#### The "Knack" of Picking a Duck.

When we first were learning the business, we picked, each of us, about four  
(Continued on Page 313.)

It is quite important to do the mating in the early fall, as ducks are pretty faithful Mormons and do not take kindly to marital changes after once becoming attached to their partners.



## PURITAN POULTRY FARM OF CONNECTICUT.

### An Example of New England's Big Poultry Establishments—Marked Success in Extensive Poultry Farming.

**T**HE Puritan Poultry Farms and Manufacturing Co., of Stamford, Conn., have met with such success in their immense poultry industry as to demonstrate to the public in general that "chicken farming" on a large scale is practicable, profitable, and possible, if carried on in the proper manner. The Puritan Poultry Farm claim that their plant is the largest poultry raising establishment in the world. The views herewith presented give an idea of its size. Their productive capacity is all in one plant, as they buy nothing but the food with which to raise the stock. The chicks are hatched from eggs laid on the place, the layers of which, as well as their mates, are hatched and bred on the farm.

The main building, comprising in one, as it does, the incubator cellar, office, store-loft, exhibition room, etc., is situated in the center of the group, the back door of the hatching room being conveniently located within a few steps of the brooder houses. This building is constructed upon a rock foundation two and one-half feet thick at the base and two feet at the top. On their coldest day last winter (ten degrees below zero) the thermometer showed thirty-two degrees in the cellar, no other heat being provided but the incubator lamps then in operation.

#### Care of Incubators.

The machines are seen to at daybreak, eggs turned, and cooled again at 5 p. m., and require no further attention. The eggs being well fertilized, are not tested out from the day they are set till they pip. The only eggs removed from a machine are those that show a tendency to decomposition and bad odors, and all such eggs are readily detected. When the temperature of the hatching room gets too dry moisture is supplied by saturating the floor on which the incubators stand. No moisture is introduced into the machines.

Their special care is to ventilate properly (the colder the day the less); to watch the development of the embryo every third night, keeping it slightly larger than it should be, and not to dry it all down by sending a hot blast of air over and under the eggs. Careful attention is given to cooling the eggs.

#### Brooding.

The improved hot air brooder, "The Puritan," which they now use principally is giving splendid satisfaction. They also operate with good success various sectional hot water brooders, which consist simply of hot water pipes, incased in brooder compartments, with oil-cloth flaps back and front. Below these pipes is an earth floor of hard-pan, always dry

and dusty. The distance of this floor from the pipes varies, of course, according to the age of the chicks. They always have their heads some four or five inches from the pipes, and never give them the fatal "contact" heat "to imitate nature." The ventilation is most important and a good general plan that they follow is to have the distance between the lower extremity of the oil-cloth flaps from the ground one-half the height of the chicks' legs. This will vary, of course, directly according to the age of the chicks. They are averse to high temperature in the brooder. They start the young chicks, strong and vigorous, at ninety-two degrees F. and keep them there for six days; then drop two degrees to ninety.

Their brooder houses are heated by hot water, thereby lessening the danger of chilling the early broiler chicks on their exit from the brooder. The brooder houses are built upon six feet of solid rock foundation, running the entire length of the house, as are all the laying houses. This insures perfect dryness and drainage. The whole bottom of the brooder house is wired with one-half inch rat wire to prevent the ingress of weasels and rats.

#### Laying Stock.

Their laying stock numbers in the thousands, and includes the popular breeds. It is kept in houses so built and designed as to attain the best results. Eggs are carefully collected at intervals and preserved in such a manner that they will not become chilled. The layers are kept busy from early morning till late at night, scratching in the litter for some hard food, usually wheat or oats. Large heads of cab-



FIG. 1.—General View of the Puritan Poultry Farm, Stamford, Conn.



bage are supplied, which they are allowed to eat up clean, after which cabbage is omitted one day and given to them on the next. This always keeps them 'cabbage hungry.' A pen of ten hens and a cockerel get away with three or four large heads weekly. The past season this farm raised 11,000 heads of cabbage of large dimensions, solely by the aid of that valuable fertilizer, "hen manure."

The pens in which the laying stock is kept have for their floor a soil of hard-pan composition, which at all times is as fine as road dust and as dry as tinder. This soil is removed to the depth of three inches every six months and fresh soil added.

#### Foods and Feeding.

Next in importance to the incubator house comes the feed house, from which is dealt the food and other living necessities to the whole plant. This building is supplied with the proper machinery for the grinding of the foods and bone, power to run which is supplied by a steam engine. Feed bins for the immediate supply are provided and an apparatus for the cooking and preparing of foods. They have a platform scale on which all grain is carefully weighed before dealt out, and before mixed into the mash. So not only does the stock get the prescribed quantity each day, but knowing what they paid per hundred pounds for the grain, they know what the food costs.

Thus, in feeding the layers in the morning, they give to each pen approximately one scoopful of mash, consisting of clover meal and Puritan Laying Stock Food, combined with boiled vegetables and fresh meat scraps, that same quantity

being slightly less than what they will eat up clean. The fowls are left hungry enough to induce them to start scratching, and work persistently all day long in deep litter to find a few kernels of small grain. Scorched wheat can be used to advantage as a scratching food. Their night food, composed of hard grain, is given them about one hour before they go to roost, for which they scratch; and such a quantity is given them that they have none before them when they await their morning mash.

Puritan Laying Stock Food, manufactured by this company and used by them, is meant to fill the requirements of birds that are kept in confinement, though it will give the best of results also when fed to free range poultry. Puritan Laying Stock Food is supplied to the consumer in two bags marked respectively, "A" and "B." In feeding Puritan food all other grain feed should be left out of the morning mash. In feeding this food the instructions are, start with bag "A," mix a quantity of it twice its bulk of cut clover, to which must be added lean meat that has been boiled the previous evening in with a suitable quantity of vegetables, such as turnips, carrots, beets and potatoes. Mix all thoroughly and add enough of the boiling hot soup in which the meat and vegetables have been boiled, so that the mass assumes a crumbly consistency. Cover with a piece of heavy cloth, after adding another dash of hot soup and allow it to stand for three or four minutes in order to give the clover a chance to steam, after which remove the covering and stir again thoroughly, then feed without any further preparation.

Dutch kale is used for green stuff in the

morning mash at least once or twice a week. Second crop clover properly cured is advised for use with Puritan Laying Stock Food. Alternate the use of bags "A" and "B," using "A" one day and "B" the next, and so on, giving them a little less than they can eat up clean. This benefits them for the 10 a. m. scratching, at about which time a small quantity of wheat is scattered in the straw that occupies the pens to the depth of at least six inches. The birds scratch this up clean and are fed some again about 2 p. m. A good handful or two to a breeding pen of eight hens and one cock suffices.

At night they feed about one hour before the fowls go to roost, enough whole grain so that the fowls feel well satisfied and yet continue to scratch for more, never putting such a quantity before them that they leave any. They use oats, wheat and occasionally corn (in winter about twice a week), and on very cold nights all the whole corn they will eat up clean. Three times a week the layers get green cut bone, which produces the best results. Two Wilson mills for grinding bones are in daily use on the Puritan plant. They are great labor-savers, and the use of one will pay for itself in a few months.

The catalogue of this plant is one of the best we have ever seen. It is an instructive work on poultry culture, giving many valuable pointers and is profusely illustrated with excellent cuts in half-tones of their buildings etc. Aside from its value as a poultry book it is most interesting, as it shows to what a marked degree of success extensive poultry farming has been carried. The book

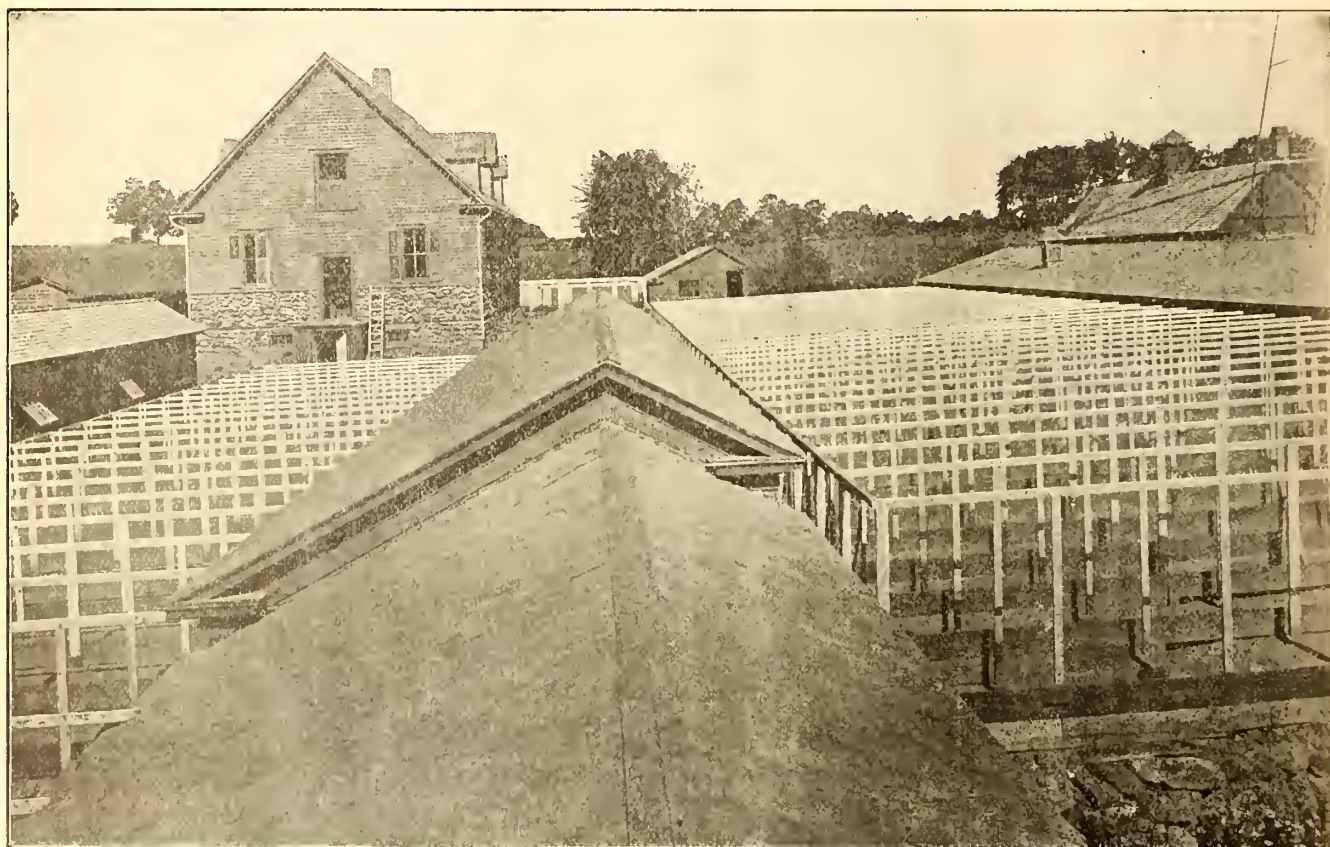


FIG. 2—Main building (comprising incubator cellar, office, store-loft, exhibition room, etc.) is center of group, back door of the hatching room being within a few steps of brooder-houses. Puritan Farm, Stamford, Conn



can be obtained by sending ten cents to the company at their New York office, No. 1 Hudson St., New York City. We advise Poultry Keeper readers to send for a copy.

Have you any cut clover for winter? Clover is the best green food for winter use. Cabbage and mangels are good, but if obliged to use one food, that should be clover. If you have clover in the barn, you will find the leaves that fall from the hay as it is handled in the barn good for the birds' use. It can be mixed with the mash or fed dry on the floor of the house. Feed clover for both food and "filling." Feed your hen for eggs—this calls for summer diet of free range. Think of all the good things the bird picks up in her rambles of a summer's day! So far as you can, supply this variety.

Winter is right at hand and those little improvements you had in mind for fall work should be attended to at once. The leak in the roof, the crack in that rear wall, the broken glass, these should be fixed now. Remember how that cold snap of last December caught so many flocks and nipped the combs and wattles! Lots of the birds on the way to the Providence show, in the first week of that month, had their combs frozen, and more than a dozen were returned at once by the managers to the owners for treatment. Get ready for winter.

Tarred felt is a very good thing to cover the poultry house, roof and all. If put on correctly, not a draft of air can enter the building.

## WINTER EGGS; FEEDING MATERIALS REQUIRED.

The Mash and When to Feed It—Great Necessity of Meat Scraps—Grains and Scratching Materials—Feed Liberally.

W. W. Kulp, Pottstown, Pa.

**E**GGs are one of the nicest products of the poultry business. The other product equal to it I would say is the elegant show bird.

Eggs are just as desirable in summer as in winter, but those who wish to gather together a lot of ready cash, plan to produce many during the late fall and winter months. The question is how shall we do to obtain them with the least labor and expense. I will not say that it is easy to produce eggs out of season, for it is no easy matter, yet at times it seems easy, then again it seems hard.

There are some conditions to "eggs in winter." They are about these: Pullets you should have. They should be fully grown by October first. They should be of a vigorous, good laying strain. They should have been kept growing from start to the time when full grown. They should have an owner who will do her or his part in feeding and attention.

Fully one-half or more of the full egg basket is due to the attendant. The attention must be every day, and at the proper time. Caring for a flock of fowls puts me in mind of rolling a hoop. You could say all there is to do is to start it and hit it, but there is much more. You

must hit it quick, now at an angle on the right side, now on the left, and now it will run for a number of steps alone, then again more quick attention—so with a flock of pullets. You may see they do not look right, will not be comfortable. You must judge if they had too much feed or if a little cold has been taken, etc.

### The Feed.

Pullets will lay and do well on a great variety of foods and it is a blessing they will, but if your feeds have a full per cent of protein you are pretty sure of success, providing you can score nearly perfection in the other conditions I have named, that is—age, condition and attention. And I might have added that success will be surer if the pullets are Leg-horns or partly of that blood. My advice is always along plain clear lines. I do not see the use of stringing out a lot of grains and formulas, for ninety-nine out of every one hundred readers will not follow it, but this they can, and cheaply.

Take fine bran and middlings, or corn meal, and meat (about an ounce a day if the meat is green, or if dry from one-third to one-half an ounce), with a little condition powder. Mix well, then moisten with milk or water. If milk is used you will need but little meat, if any. For

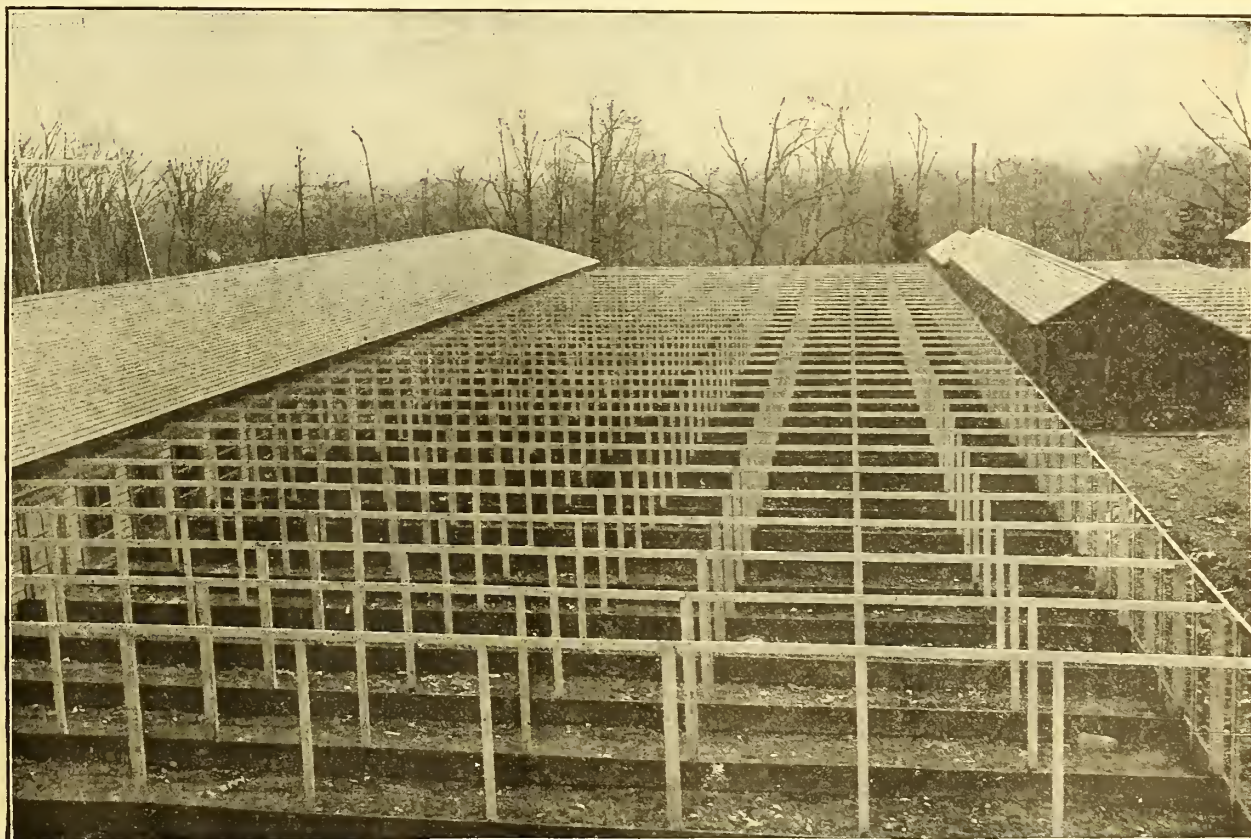


FIG. 3—A "cross country" view of yards attached to one of the long laying houses on the Puritan Farm, Stamford, Conn.

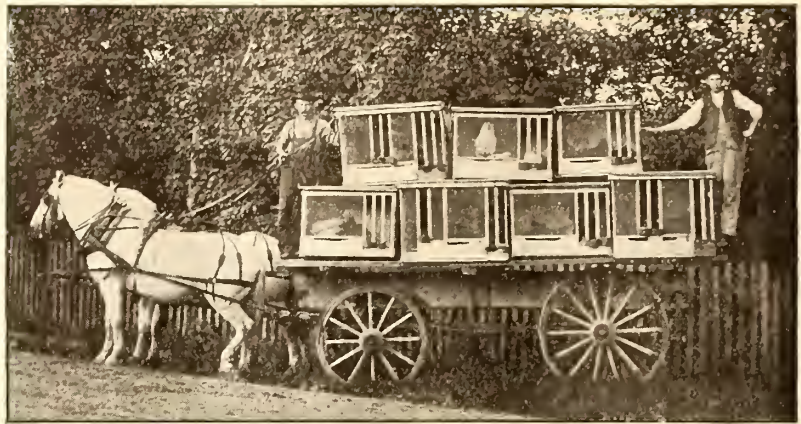


dry feed use whole corn with a little wheat at noon, or I would feed wheat and corn in the morning—mostly corn, with enough wheat to make them hunt in the litter. At noon a little more wheat, and if I am coaxing them hard, I take a little pure meat at noon. The taste of pure meat is wonderfully stimulating. At eve I fill them full of the mash as above. Some prefer morning to feed it. I seemed to do best feeding it in the evening, but that may be only a happen.

In August, a man near me penned his hens. Mind you they are hens, in the house with but little feed for ten days, then left them out. Of course, not one was laying. They are Rose Comb White Leghorns. He then got some beef cracklings and fed them as above. In two weeks they were paying for their feed and ever since three weeks they are paying over one hundred per cent on the cost of feed.

This can be done over and over again, and is the tangible result of the system I advocate. The cracklings cost us \$1.50 per hundred pounds right here in Pottstown and are steam cooked. They are richer than where cooked in a kettle right over the fire unless great care is used. We must axe them in pieces, then run them through a Mann bone cutter by horse power. A small quantity can be chopped fine and soaked, or bought of dealers ready to feed.

You are very much sure of success by the use of meat, and right here I must use the old caution, "Use judgment and brains." If you have Plymouth Rocks or even good sized Wyandottes you can kill nearly all with meat if overfed and given too little green feed and exercise. If your stock is Leghorns, or of that



Bradley Bros.' Latest Shipment of Poultry to South Africa.

blood, you will not hurt many, no matter how much you feed. The more you feed, the more they will lay. Some years ago a friend of mine killed an old horse in the fall or early winter and fed it. The eggs became very plentiful. There is absolutely no way to produce market eggs as easily, and I think as cheaply, as by the judicious use of meat.

Get those colds cured just as quickly as possible. If allowed to run into the winter they are likely to turn in so-called roup, and then prove difficult to manage. One-fiftieth of a grain of arsenite of antimony in the drinking water of twelve matured birds will answer for the treatment of one day. Give these birds plenty of pure air, night and day, but avoid the breeze that chills the inactive birds.

#### BRADLEY BROS'. SHIPMENT TO SOUTH AFRICA.

Bradley Bros., of Lee, Mass., report a great demand from foreign countries for their fancy strain of Barred Plymouth Rocks and are having a good trade.

Among other shipments they have recently sent seven trios, mated for breeding, including some others than Plymouth Rocks, to South Africa. On this longest distance shipment they find coops are placed on the deck of the steamer, hence a large, roomy, out-of-door coop is made, waterproof, open at the front and partly so at the end. Over these openings are adjustable curtains which may be raised or lowered at will.

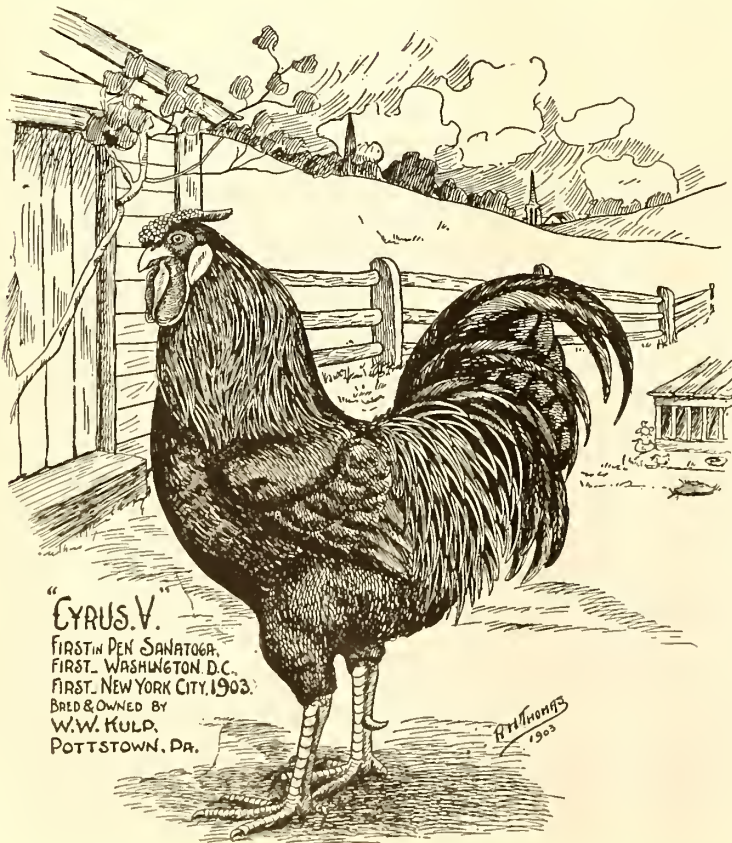
From a long experience they carefully prepare a variety of grains and bedding to send with the coops, with complete directions regarding care for the birds enroute. With such precautions birds carry safely and from no shipment have birds been lost.

So pleased are their customers they invariably desire to purchase again.

The accompanying photograph shows the last shipment in large steam-coops to South Africa to a party who has purchased before and who is so well pleased that he writes regarding a third shipment of particularly fine Barred Plymouth Rock show birds to be sent this fall

There is a steady demand for the buff birds. Why the buff color is in fashion we do not know, but the "fancy" poultry of to-day seem to be clothed in buff. The Buff Leghorn is coming to the front once more, while the Buff Wyandotte and Buff Plymouth Rock need no pushing on the part of their breeders. If the Rhode Island Red men would make their breed more different from the Buff Wyandotte and Buff Rock they would find their birds more in the fancy.

If you expect your birds to grind the grain you feed them, see that they have the grit necessary for the purpose. Some houses are bare of anything suggestive of grinding material, and most yards show little grit except that which has been used more than once by the birds. The birds need sharp edges to their grinding material and you should see that they have the right thing near at hand all the time.



"CYRUS V."  
FIRST IN PEN SANATOGA,  
FIRST, WASHINGTON D.C.  
FIRST, NEW YORK CITY, 1903.  
BRED & OWNED BY  
W. W. KULP,  
POTTSTOWN, PA.



## SQUAB RAISING; HOW TO BEGIN AND HOW TO PROCEED.

### How to Market—Killing and Dressing—Diseases and Remedies—Lice—Summary.

[From Farmer's Bulletin No. 147, issued by the U. S. Department of Agriculture. This bulletin was written by Wm. E. Rice, of New Jersey, a practical poultry breeder, who has been especially successful with pigeons, especially the production of squabs for market.—Editor.]

#### PART III.

**T**HE squabs should be killed before they get so large that they leave the nests. The standard size is eight pounds to the dozen. With properly kept birds this weight is usually attained in four weeks with straight Homers and five weeks with Dragons.

Preparation.—The producer should have a regular shipping day, selecting

from the ring four cords eight inches long, terminating in slip nooses.

Killing the Squabs.—Catch a squab from the hamper and suspend it by passing one of the nooses around the legs, tail and wings, letting about two inches of the ends of the wings project beyond the noose, and tighten it well. Insert the killing knife (sold for such purposes) well into the back of the mouth and draw it

bird, hold in the left hand as before, and remove the balance of feathers from the body. Now, with wings still in left hand, pluck quills from both wings at once, and also the larger feathers, and then finish each wing separately. This completes the "rough picking," after which they must be pinfeathered, in which operation a small knife is helpful. An expert picker, when he has finished the third bird, kills three more so that they may be bleeding while he is at work with the fourth. As soon as finished each squab is dropped into a tub of cold water to drive out the animal heat and make the birds more firm and plump.

An expert picker can kill and "rough pick" twenty squabs an hour or completely dress twelve to fifteen in the same time. It pays well to use care in picking not to tear the skin or leave any feathers on the birds. Well-fattened birds are seldom torn by the expert picker. The weighted wire is of advantage in slightly stretching the skin and making it less liable to tear. When all the squabs are dressed, the feet and mouths must be thoroughly washed of all filth and blood; they should be placed again for a few minutes in clean cold water, and then hung on a drying rack for five minutes to drain.

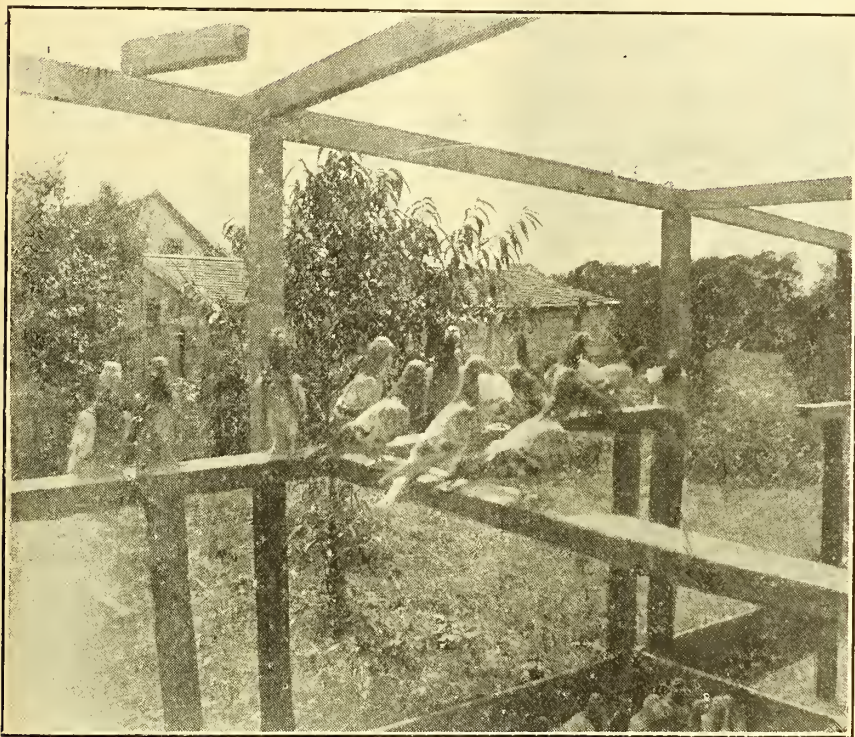
Marketing.—If the squabs are sold to a local dealer, they may be taken from the rack at once, placed in a suitable basket and delivered immediately. If they are to be expressed to a distant market, packing in ice is necessary, and a box or barrel must be used. Place a layer of cracked ice at the bottom, alternate with layers of birds and ice, and finish with a generous topping of ice. Only in quite cold weather is it safe to omit ice. Place a secure covering on the package and mark full directions to whom shipped, as well as your own address, and the number of birds.

#### Diseases, Parasites, and Remedies.

With good, wholesome food, proper housing and care, very little disease is usually encountered. The best preventives of disease are: (1) A dry house, free from drafts; (2) untainted grains; (3) pure water; (4) regularity of feeding; and (5) cleanliness.

Going Light.—This disease is characterized by moping and drooping of the bird, which, when examined, will usually be found to be thin in flesh. Diarrhea is frequently a first symptom, which may be checked by a dose of sweet-fern tea. If the discharge is slimy give a dropful of cod liver oil and creosote every night and morning until improvement is noticed. This remedy is prepared by mixing ten cents' worth of the oil and five cents worth of creosote in a two-ounce bottle. By a dropper is meant the little instrument which is used in filling fountain pens, and which is very convenient to use in giving drops or small doses.

If the disease has so far progressed that the bird breathes heavily or gasps for breath, use what some have designated as the "hatchet" remedy; that is, kill the bird. This disease usually manifests itself only during the molting season, and in all cases the tail quills should be plucked. I think the disease is often due to unsound grain or permitting feed to lie on the ground and sour. In light attacks three drops of compound tincture of gentian is sometimes sufficient to effect a cure, if the tail has been plucked,



Pure Bred 3-months-old Homers in Pigeon Yards of Arthur P. Spiller, Beverly, Mass.

such as best suits his convenience, and on that day he should kill all squabs which are of proper size. The squabs should be caught in the morning before the feeding and watering is done. This assures empty crops. Judgment must be used in selecting the squabs, or some which are too light may be taken, causing a cut in the price. As caught, the squabs should be placed in pigeon hampers and taken to the killing room, which in cool weather should be heated to be made comfortable for the picker. An oil stove lighted at the time of beginning to catch the squabs will temper the room nicely by the time the squabs are all brought in if the flock is large. Place the hampers within easy reach of the chair in which the picker is to sit, and have a basin of water close by. Directly in front of the picker, suspend in a horizontal position a ring of wood or iron, about a foot in diameter, and hang

forward cutting clear into the brain, hang a weighted wire in the bill and let the bird bleed. The wire is six inches long, hooked and pointed at the upper end, and weighted at the lower end with a piece of lead the size of a hulled walnut. Four birds are killed in turn, and picking begins on No. 1 as soon as dead. Novices may kill and pick but one at a time until some speed is gained, but an expert picker will kill four and "rough pick" them all before they get too cold.

Dressing the Squabs.—Allow the birds to remain suspended, but release the wings, grasping them both in the left hand back of the bird. Moisten the thumb and forefinger of the right hand in the pan of water and begin picking the neck, leaving about three-quarters of an inch next the head unpicked. Still hold the wings in the left hand until the entire front of the bird, legs included, is picked. Then bringing the wings in front of the



Too hard driving by the cock bird may cause the trouble, by preventing the hen from getting full quantity of food. The first diarrhea may be caused by feeding too much wheat or grain that is too new. A good remedy in such cases is to give two dropperfuls of sweet-feru tea at once.

**Roup.**—Roup may be known by a discharge from the nostrils and a very offensive breath, and is probably the sequence of a neglected cold, coupled with a diseased condition of the bird. It is very contagious and requires careful treatment. Fill a small oil can with camphorated oil, and after washing the nostrils well, put three or four drops in each of them and one or two in the mouth. Another remedy is to use two drops of kerosene oil in the nostrils and one or two in the mouth. Watch birds carefully until cured. If the birds are

iodine. I have successfully treated several cases in this way, but never had a successful one with the knife treatment.

A swelling sometimes forms on the wing joint next the body. All varieties are more or less subject to this. The swelling has no corruption in it. The remedy is to paint with iodine tincture, and, if the wing droops, lessen the weight by plucking the wing quills.

**Cauker.**—The appearance of canker is indicated by a profuse discharge of cheesy matter from the side of the mouth. As soon as noticed, treatment should be given. Prepare a solution of bluestone, and with a small camel's hair brush swab well the part affected. Do this two days in succession and then with a match stem carefully remove the cheesy growth, being very careful not to draw blood, and then put a small quantity of powdered sulphur in the throat. Do not attempt

ly decimate the pens. Happily, however, the cause of cholera may almost always be traced to bad management and bad feeding, so that a careful and intelligent breeder seldom is called upon to carry out dead birds by the bucketful, as sometimes happens with flocks poorly kept.

Usually when first affected the bird mopes about with a full crop which if examined will be found to be full of water with a very offensive smell. When this is observed the bird must be carefully caught, the water gently squeezed from the crop, and a dropperful of cod liver oil and creosote administered.

If the whole flock is diseased put ten drops of carbolic acid to a gallon of their drinking water for two mornings. Be very careful what you feed, and watch the flock very closely, because if this trouble gets a foothold the entire flock may die in a short time. After having used the carbolic acid, use a tablespoonful of tincture of gentian to the gallon of drinking water three times in succession.

If birds are well cared for this disease need cause very little anxiety, but lack of cleanliness and unsound food and impure water invite the disease in its worst form.

#### General Remedies.

In addition to the specific remedies already mentioned, there are two general ones which are most useful in squab raising.

**Gentian as a Tonic.**—For a tonic, after trying everything recommended, I find nothing equal to gentian. I use the compound extract, giving a tablespoonful to a gallon in the drinking fountain. During the molting season in September, October and November, I use a tonic every Sunday morning, and for the balance of the year only when the birds seem to be out of condition.

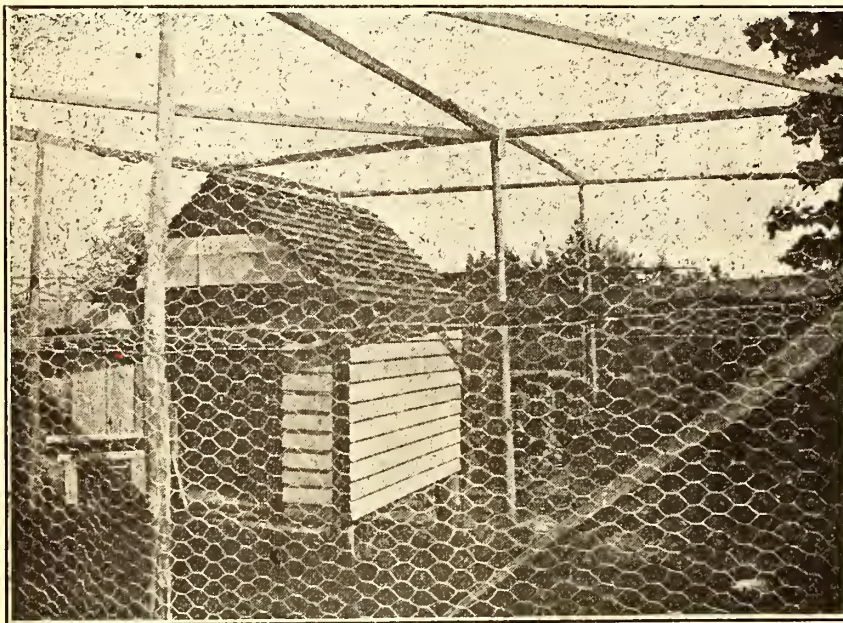
**Sweet-fern tea.**—Whenever it is noticed that the birds have looseness of the bowels, I use sweet-fern tea, a teacup of the tea to two gallons of water in the drinking fountain. The tea is prepared by boiling a good double handful of the dried leaves in about twelve gallons of water, letting it boil down one-half. Strain and put in bottles or jugs and set away for use, out of the reach of frost. Sweet feru is botanically known as *Myrica asplenifolia*.

#### Lice.

There are two kinds of lice which infest pigeons: (1) The long variety, which confines itself to the wings, and is seldom troublesome; and (2) the small round louse, which preys on the head and body of the bird, and, if allowed to increase, will deplete the blood and cause death.

These pests breed at so astonishing a rate in warm weather that if they once get a foothold, vigorous measures must be promptly used, or all weak or ailing birds will be literally eaten up. If a loft becomes infested, clean out thoroughly and use kerosene oil freely in nests and perches seeing that the oil saturates all surfaces and gets into all cracks and crevices, and that the corners are not forgotten. Then at the weekly cleaning scatter powdered lime well saturated with crude carbolic acid in the corners of all nests.

Sawdust should not be used for the bottoms of nests and on the floors, as is sometimes suggested, unless it be first



Fly Pen and Cote for White Homer Pigeons at Cloverbrook, Chazy, N. Y.

well taken care of, this remedy is a sure cure.

**Vertigo.**—When afflicted with vertigo the bird turns its head over its shoulder and seems dizzy, frequently falling down. It is probably an affection of the brain. I have known a bird with vertigo to live for two years, always having a spell when I entered the coop. I have never known a case to be cured, and the best treatment is the "hatchet" remedy.

**Leg and Wing Troubles.**—In some cases the legs of the bird seem too weak to support its body. Homers and short-legged varieties very seldom have this trouble. Inbreeding I believe to be one of the chief causes. Do not inbreed, always keep a record, and mate carefully, and you need not fear this trouble.

Birds sometimes may strike their wings in going in or out of the entrance, or may hit each other with their wings in fighting, and such blows may cause lumps to form. Some advise opening such a lump with the knife, but this treatment, in my experience, has always cause a stiff joint, and I cannot recommend it. The only remedy I have found effectual is to paint the part occasionally with tincture of

to check the discharge as it first appears except by treating as mentioned. If the bird is badly cankered before treatment begins, and the mouth well clotted, or if there is a large cankerous lump well down in the throat, treatment seldom is of any avail, and usually such a case is best remedied by killing the bird. In the case of valuable birds the knife may be used as a last resort.

To keep the flock free from this disease feed only sound grains and give the purest of water. Never place newly purchased birds in the flies until first inspected thoroughly by opening the mouth to see if any canker exists. When any is found, they should be handed back to the seller, for canker is one of the most dreaded diseases.

When the disease is mild in form, by the prompt use of the remedies recommended here, favorable results are almost always secured.

**Cholera.**—This is the worst of all diseases with which the breeder contends, and more loss is occasioned by this complaint than by all others combined. It runs its course with fatal rapidity, and, when once present in a flock, may quick-



treated well with carbolic acid, and even then the propriety of using it is doubtful. The worst affliction of lice the writer's pigeons ever suffered was when he used sawdust. The nest pans fairly swarmed with them. When he got rid of them, which required heroic treatment with kerosene and dusting the birds with Persian insect powder, after thoroughly cleaning the house, he never used sawdust again.

Attention to cleanliness and regular baths for the birds are essential in avoiding these pests. Birds that have three baths a week, houses well cleaned weekly, carbolated lime scattered in nests, and tobacco stems for nests will not be troubled with body lice.

In buying new stock carefully examine for lice, and if any are found dust with Persian insect powder or snuff, keep them separate, and be sure that you have killed all lice before placing them with the breeding flock.

**Summary.**

It will pay to go into the pigeon business for squabs only provided one gets the right kind of stock and gives careful attention and proper management. The best breed to use for squab raising is straight Homers or a cross between them and Dragoons. Successful breeders use Homers almost exclusively, because they are the best workers and feeders, and raise larger squabs in four weeks' time than any other variety. By a cross of straight Homers with Dragoons you get a larger squab in four weeks time than with straight Dragoons. A pair of straight Dragoons requires five weeks to bring squabs to market size, but the cross will result in a larger squab which can be put on the market in a little over four weeks.

One large pigeon house is better and more economical than several small ones, but in no case should a house be built to accommodate more than two hundred and fifty pairs. If larger numbers are to be kept, more than one house should be built. A room eight by ten feet will accommodate fifty pairs very comfortably. The fly should be extended thirty-two feet if possible.

Pigeons should be fed twice a day—in the summer time at 6:30 a. m. and 4:30 p. m., in the winter at 7:30 a. m. and 3 p. m.

The best kinds of feed to use are cracked corn, red wheat, Kafir corn, millet, peas, hemp, and rice. In the morning give wheat, cracked corn, peas, Kafir corn and millet. The birds should be fed in the pen rather than in the fly.

Water the birds every morning before feeding, using nothing except fresh pure water. Always clean out the fountain before filling.

Bathing is very essential to the health of pigeons. In summer they should have an opportunity to bathe at least every other day. In winter the bath should be given only on bright sunny days. It is essential to clean house once every week. After cleaning the nests, put powdered carbolated lime in all cracks, corners, and damp places. Sprinkle the floor with lime and sprinkle a bucketful of sand evenly over the lime.

The authors four hundred and twenty-five pigeons produced in one year forty-four hundred squabs for market. Any one with good stock and giving as good care and feed ought to do as well.

**COLUMBIA SCHOOL OF  
POULTRY CULTURE.**

**Receives High Praise from Poultry Lov-  
ers—A Well Deserved Success.**

The inauguration of the Columbia School of Poultry Culture a little over a year ago was hailed by a large number of poultry lovers as a step in the right direction and one which had long been needed. Booklets, pamphlets, poultry publications are all very well in their way, but inasmuch as they, of necessity,

Columbia School of Poultry Culture has proved to be invaluable, and the faculty are daily encouraged by the receipt of letters from their students acknowledging the very great benefits they receive from the course.

The secret, however, of the success which has attended the course has evidently been in its thorough practicability and in its personal quality. The faculty of the school being composed of men who not only stand high in the world as breeders and educators, but who have known by costly experience the difficulty attending experimental work in poultry raising,



**Proprietor and Faculty of the Columbia School of Poultry Culture, Waterville, N. Y.**

dealt with generalities, the field of their usefulness is essentially limited.

That a school could be inaugurated which would intelligently teach in a thoroughly practical way the science of Profitable Poultry Raising was acknowledged by all to be a consummation devoutly to be desired; although some there were who had their doubts as to whether or not it could be made a success. The doubting ones, however, have long since ceased to doubt, for the success of the school has been remarkable. Hundreds of pupils have been enrolled from almost every state in the Union, and some from far-distant lands. These students represent poultry lovers of all descriptions, fanciers, breeders of special types of fowls, small farmers, city men who live in the suburbs and women who have been anxious to see their few chickens placed upon a profitable and paying basis. To all of these the course of instruction given by the

have aimed to give each student such personal help and instruction as their individual conditions might require. The result has been that women who have taken the course to obtain more eggs from their fowls have found that the egg production has greatly increased, that fanciers who wished to get their birds to the exhibitions in the best possible condition have attained their hearts desire and carried off prizes, and that students who have taken up the course with a view of fitting themselves to become managers of poultry plants have found themselves not only thoroughly equipped for their work, but have been assisted in procuring lucrative positions.

It will thus be seen that the Columbia School of Poultry Culture is doing a good and valuable work and is playing an important part in the education of the people. The interest it has aroused in poultry (Continued on Page 314.)



# POULTRY KEEPER,

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TWENTIETH YEAR  
AND VOLUME.

NOVEMBER 15, 1903.

NUMBER 8

## TO NEW SUBSCRIBERS.

If you will send us a list of poultry and farm papers and magazines that you expect to take the coming year we will quote you a clubbing rate lower than you could otherwise obtain. We have cut rates on these publications and give our subscribers the benefit.

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## QUALITY IN BREEDING STOCK.

Poultry keepers are too prone to breed from second quality birds. We do not mean that they have no first quality birds, but they are inclined to add doubtful birds to the breeding yards to increase the number of laying stock. These pens look well when viewed through the wire runs or when ranging out in the orchard, but when you round up your chicks in the fall of the year there are so many off quality chicks that you are discouraged. We have been surprised at the number of second quality chicks to be found in the yards of some breeders this fall.

Poultry raisers get culls enough, even from the best of breeding stock, but it does not pay to plan to raise that kind of stock. You will get to the "top" more quickly to hatch from the few best birds than by raising a large number from over-large pens of doubtful quality.

Whether breeding for practical or fancy points, use for foundation stock just a few of the nearly perfect birds you own. Too many farmers buy a nice cockerel and then raise chicks from all the birds that may be owned on the place. Put that good bird with a half dozen nice yearling hens and see the uniformity of the chicks as they mature. Let the fancy breeder raise his chicks from a dozen birds of show quality. Let him, also, sell eggs from this "best pen" at such a price as he can afford. These eggs cost good money and cannot be had for a dol-

lar a sitting. Five dollars for thirteen eggs, from birds of the quality we refer to, is a cheap price for a good start with fine stock, and is cash well invested. If you have not five dollars to use for this purpose, pay less, but make the start with the very best you can pay for.

If you are after "200-egg birds" do not hesitate to pay five dollars for a cockerel from "bred-to-lay" stock. Quality counts in poultry matters, and quality costs more and pays better than the "other kind." S.

## IT IS NOT THE BREED, BUT THE STRAIN OR THE FLOCK.

There are times when a word should be spoken to check, in so far as a single protest can check, the overrating of very good things. We have quite a number of different breeds of hens. They are all good breeds, but there is no such thing as a "best breed" among them. The reason for this is simple and plain if one will apply rational sense to the proposition. To our mind the breeder who seeks to boom a breed, as a breed, regardless of breeding, is making a serious mistake and is helping to keep alive the very condition which fills him with unreasoning prejudice when some breed other than his own happens to receive unjustified laudation.

There has never been the slightest shadow of real evidence that any one breed of hens will lay any better or pay any better under any and all conditions than any other breed. Mr. A. has done better with Leghorns than he had previously done with Rocks. Or he may have a few specimens of two breeds on hand at one time and one, lot does better with him than the other. Mr. B. makes the same test, but the results are exactly reversed, so far as the relative work of the breeds is concerned. Mr. A. declares that his favorite breed are the better layers, while Mr. B. makes the same claim for the other. They are both right so far as the particular birds which they handled are concerned, but neither of them has demonstrated anything whatsoever regarding the relative merits of the

breeds, as generally bred and distributed throughout the land.

When a man states that a certain breed of heus is superior to others, he practically says that they will justify his claims no matter where we get them so long as we adopt a certain breed. He sinks his own personal skill, and the specific merits of a certain stock, in a general claim of merit for a breed bred by all sorts and conditions of breeders. That is not modesty, it is folly. Some breeds get more publicity than others because they are more numerous among breeders who obtain publicity. If those particular strains or flocks have exceptional merit in any direction, the credit should be given to the particular strain or flock, for that is where the credit belongs. Some stocks of all breeds are very low grade from every point of view. The breed is not to blame, but the fault or misfortune lies with the breeder of those particular birds.

We boast of our skill in breeding and feeding, exhibit show records or egg records to back up our claims, and then in a burst of irrational folly throw it all over in a wild endorsement of the breed as a breed. An old and popular breed will, very naturally, be represented by a greater number of successful breeders of superior stock than will a newer and less widely distributed breed, but, by the same token, the number of low grade stocks will also be greater with the older and more popular breed. Popularity is not always a sure proof of exceptional merit, not by any means.

If one were to obtain his blood haphazard, or where he could get it cheapest, his chances for getting good stock from any of the most popular breeds would be far less favorable than with a newer breed, for the newer breeds are still very largely in the hands of skillful breeders whose ambition is to breed as good stock as they can. So far as standard requirements or prolificacy are concerned the degree of merit lies in the strain or the flock, and not in the breed. W.

## MENTION P. K. WHEN WRITING TO ADVERTISERS.

The more successful a Journal becomes the better work it is able to do for its subscribers. The more successful an advertiser becomes the better he can serve his patrons. As a people we are independent and honest. All that we ask, as man to man, is a chance to work, and an opportunity to buy what we want and sell what others want.

Advertisers patronize most liberally those mediums that bring them the best results. Their patronage enables the journal to furnish the best of reading matter to its subscribers. When a reader writes to an advertiser and mentions P. K. the advertiser credits that inquiry and the future sale, if he makes it, and also does his best to serve the enquirer. That helps you, helps the advertiser, and helps us. Thus we can all help each other.

There is one point of advantage in the use of cut straw or leaves which largely influences laying in winter, and that is the warmth retained in the poultry house. It is not that these materially create warmth, but they keep the winds from coming in along the floor, and as



they also absorb dampness they prevent the settling of moisture on the walls. Let any one go into a stable or stall that has four or five inches or more of leaves on the floor, and the stall will be found warmer and more comfortable than the one having the floor bare.

**NECESSITY OF PROPER FEED AND CARE.**

A recent letter to Poultry Keeper editor from Mr. H. B. Humphrey, Joliet, Ill. (of the firm that makes the Humphrey Green Bone and Vegetable Cutter, Rapid Clover Cutter and Pure Air Brooder), contains so wholesome a sermon to people who go into the poultry business expecting big returns from small investment and little labor that we commend it to every reader of Poultry Keeper. Mr. Humphrey writes:

"I wish that we could get the poultry people at large to understand the necessity of proper feed for results and of the necessity of rearing chicks after once they are hatched. It is a strange fact, but true nevertheless, that ninety-nine people out of every hundred who enter the poultry business feel that all that is necessary to get results is to shovel the grain into the poultry yard and carry out the eggs by the wagon load. We all know this to be a fallacy, and we also know that the majority of eggs received cost more than the market price to produce them.

Again, a poultryman's idea of raising chicks is simply to get them out of the incubator. He does not know how he is going to handle them afterwards and he has not the least idea of how many he is going to raise. To give an illustration of the conditions: Last spring I happened to be in one of our agent's store rooms when a man and his wife bought an incubator. After the incubator had been paid for, the store keeper, who happened to be the proprietor, commenced to urge upon the man the necessity of buying a brooder. It was impossible to get him to even talk of a brooder. He said that his wife was going to take care of the chicks after they were hatched and admitted that neither of them had any plans for the future regarding the welfare of the little chicks. That is just the way the poultry man raises his stock.

"If they would get the true principle, that it is the chick that is raised that brings the profits and not the number of chicks hatched, better results would be secured."

**THE NEW CHARLES A. CYPHERS CO.**

Mr. Charles A. Cyphers, president of the Cyphers Incubator Co. ever since that company was organized, announces his withdrawal from the old company for the purpose of conducting a new business to be styled the Charles A. Cyphers Co., with factory and offices at 39-47 Henry St., Buffalo, N. Y. Mr. Cyphers is so well known to Poultry Keeper readers as one of our best incubator authorities that it seems needless for us to review his work. His book, "Incubation and Its Natural Laws," is the best treatise on the subject that has appeared. This was written after seven years of experimental work and study of artificial incubation. During the last seven years Mr. Cyphers has been president of the Cyphers Incu-

bator Co. and his good work here is known to all. "My name and reputation," he writes, "gave the public cause to demand excellence of my products, and in my new goods these demands will be more than met."

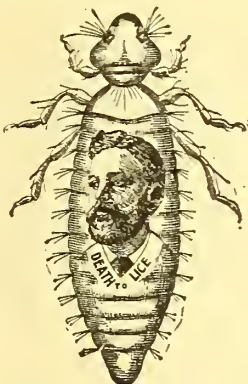
His preliminary catalogue is now ready for mailing, and the complete book will be issued in a few weeks. Mr. Cyphers will be glad to send copy to P. K. readers.

**IS THE SHOW MAKING THE MOST OF ITS OPPORTUNITY?**

The poultry show should be helpful along all lines. That the fancier who attends gets much of pleasure and instruction is well understood, but how about the person who makes his first visit to a poultry show? Very likely he keeps a few birds—possibly is a town man without any knowledge of fowls. He is at a loss to know how to get any good out of the exhibition. He wanders about, here and there, at random and no one says a word to him. His stay is short and he has made his first and last visit to a poultry show. He needs a friend, a guide in poultry matters, to tell him of the birds that are on exhibition, their good points and quite likely the names of the breed and variety.

The stranger who drops in to the early winter show should be met by some one of the management and helped in his appreciation of a good thing. It is wonderful how it helps to find some one ready to take time and trouble to interest a stranger at these times. It helps the guide, also, as he soon finds that he cannot answer all the questions that are put to him, and he has to put in a little work in gaining points in poultry knowledge.

Be ready to be pleasant to the stranger at your local show. It takes no special talent to do this. Just a little time and the willingness to help will do something toward making the show more successful to the poultry world. S.



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[This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.]

## THE WINTER DISEASES OF POULTRY.

### Symptoms of Diseases and Reliable Remedies For Their Cure— How and What to Do For Sick Fowls.

Dr. N. W. Sanborn, Bellingham, Mass.

**A**BOUT the middle of last December, Poultry Keeper began to get inquiries in regard to sick birds. These inquiries were anxious in tone and called for immediate answer. We did the best we could to help our subscribers, but some of them had to wait longer than we desired. We present in this number some of the diseases that were in evidence last winter and hope that this early appearance of this important matter will be of use in preventing and curing some of the ailments of our flocks. Knowing the causes will help avoid some of the winter diseases. Catarrh and roup were considered in a simple way in the September number, but so little was said about remedies that we go over the matter again more thoroughly.

#### Catarrh.

This may be a little watery discharge from one or both nostrils or so violent an attack as to involve all the mucous surfaces from the nostrils to the air cells of the lungs. Simple catarrh is common in the fall of the year among the half grown chicks. It is most often seen to begin in the late hatched chicks that have had red mites to contend with. From these it spreads to nearly all the chicks that run in the same flock. It has always seemed to me that the drinking vessel was the place where the disease was passed from one to another.

Crowded chicks in roosting coops, especially if the coops are seldom cleaned,

are prone to catarrh. A bird in a coop like that is more likely to show catarrhal conditions than is one that roosts all night in the trees. The bird with catarrh has some running at the nose, a more or less dry substance stuck to the bill, and the feathers near the wing are damp from the mucous discharge that sticks to them from the bird's head getting against them at night.

Catarrh is more common that it should be. It costs more to mature birds that have a month of catarrh in early fall and they do not get to laying as early as they otherwise would do. A case or two of catarrh may give the disease to the whole flock of chicks. A wholesale outbreak of catarrh is discouraging and is to be constantly kept in mind during the dull weather of the autumn of the year.

It is well to yard the sick birds, keeping them away from well stock. There is one remedy that gives good results in the treatment of catarrh, and this is arsenite of antimony. It is easily given, is not costly, and will help prevent the extension of the disease to well birds that are using this remedy. The dose is small. One one-thousandth of a grain, four times a day, is dose enough for a half grown pullet of four pounds. I usually advise the giving of arsenite of antimony in the drinking water. One-hundredth of a grain in one pint of cold water will supply medicine and drink for sick birds. Half this strength (one-hundredth of a grain to one quart of water) should be given all well birds on a plant that has had several cases of catarrh.

All drinking and feed dishes that have been used by sick birds should be scalded before well birds have access to them. Birds sick with any of the catarrhal diseases should have less than usual of meat fed in the mash, and the proportion of corn increased. It is not rare to have catarrh, or roup, appear in birds that have just been received by express, either returning from the shows or from some breeder's yards. It is always safe to quarantine all birds that come from outside your flock. In this way you can head off an outbreak of disease. It is more pleasant to prevent than to cure disease. These cases of catarrh need plenty of pure air, but should roost out of a draft. They need clean quarters—droppings-boards that are dry and free from odor, and floors well littered with leaves.

#### Roup.

This disease is a catarrh that has a tendency to increase in violence as the days pass, and to grow more severe as the disease spreads from bird to bird. You may introduce roup from outside by the contagion brought by a new bird, or it may come in connection with a badly eared for case of simple catarrh. The ordinary case of roup is one that began with a fall catarrh, and between the weakening effects of red mites and filthy droppings-boards, passed on to what is known as 'roup.' Given several cases of catarrh in a flock, loaded droppings-boards, damp weather and a leaky roof, it is a rare instance when some cases of roup do not appear.

You do not know for a day or two whether the disease that you have to handle is more than simple catarrh. The early symptoms are those of catarrh. There is a watery discharge at the nostrils, and it may be abundant enough to run down into the throat. The bird is evidently going to be sick, is not eager to get to the feed dish and is often at the water vessel. It is slow in getting off the roost in the morning and early in going to the roost at night. In a day or two the discharge thickens, is sticky and slightly yellow in color. There is swelling of the tissues between the nostrils and eyes and usually some small air bubbles in the corner of the eyes.

The odor of the breath becomes "strong smelling" and the air of the coop in the early morning is decidedly of a bad odor. The nostrils quite often become entirely stopped with mucous and there is difficulty in breathing, in accord with the amount of closing. One or both sides of the face may be swollen so badly as to be out of all proportion. The "big head" is to be found in most cases that resist active treatment. The swollen-head case of roup is not to be desired and can often

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be avoided by early treatment of the disease. Neglected cases of roup do badly and are usually fatal.

The treatment of the early stage of roup is the same as that of simple catarrah. Give moderate doses of arsenite of antimony. If the swelled condition of the face and the bad smell arrives then you need to do more. The air passages need spraying with peroxide of hydrogen, one part to three parts of water. Do this several times a day. If the nostrils are closed, rub some of the medicine into the openings, and when the mucous is started, spray as advised. The most satisfactory cure for roup is one that is within reach of all poultry keepers. It is the use of kerosene oil. Put a teaspoonful of the oil on a pail of water and dip the heads of the sick birds into it. It is a slow, steady motion. Dip the head through the film of oil, hold a second, withdraw slowly, and wipe dry. The oil seems to kill the germs of the local disease and stimulates the mucous membranes to renewed action. Used as advised, the oil does no harm and is surely a good remedy for roup.

When the cases all clear up, the houses and yards need cleaning and a good coat of whitewash will do much to avoid an outbreak of the disease in future months. The germs of this disease have a way of clinging to a place that is very costly to a careless poultryman. I have known roup to appear fall after fall, in a single house among several buildings, where the only apparent reason was previous cases. It pays then to put your building in good condition after roup has made you a visit.

Do not breed from birds that have had a severe attack of roup. Their chicks will take on this disease very easily when exposed to the germs and are sure to contract catarrah during the fall of their first year.

**Canker and Diphtheria.**

For convenience canker and diphtheria may be classed together. There is a dispute as to whether these diseases are or are not the same. It looks to me as though "canker" were diphtheria in a mild or local form. Canker is often seen in the winter months, and is commonly seen in birds soon after their return from a winter show. I have never had canker in my birds except when a bird has been away from home for a few days to some show. This has made an impression on me that must be taken into account in my statements. However, other men have had the same experience as mine and have come to the same way of thinking. Whether it is the change from the show room to the cold of the station platform, or exposure to disease germs in the coops of the exhibition I do not know. There is some danger in showing our birds from the standpoint of disease and it is well to bear this in mind as we start out to win that "blue ribbon."

**Canker.**

Canker is to be recognized by the yellow patch in mouth and throat. The patch or spot is thicker than in diphtheria, and is not joined so firmly to the mucous membrane underneath. When the disease has made any headway, you will notice that the birds are trying to swallow even when the mouth is empty. They go through the motions of swallowing quite often. Catching the bird you will find a more or less distinct spot

of disease in the mouth and throat. The usual place to find the disease is at the corner of the mouth. The cheesy substance increases in thickness as the days pass, until in severe cases it may fill the mouth or throat.

The local treatment is to wash all disease spots with peroxide of hydrogen, full strength. Give each bird, morning and night, a pill of calcium sulphide. This drug should be so fresh as to smell much like bad eggs when a pill is cracked. Canker is not so easily passed from bird to bird as is diphtheria, but is dangerous enough to call for quarantine of sick birds.

**Diphtheria.**

Diphtheria affects the whole bird more severely than canker. There is a period of incubation and the course of the disease is slower than canker. The sick bird plainly shows that something is wrong physically. Looking the bird over you will find no direct evidence of disease until you look at the throat. Then you will find a gray or leaden colored spot, several places that are covered with a thin membrane. This membrane has a distinct edge and is tightly bound to the mucous lining of the throat or mouth. Any attempt to pull off this membrane is followed by bleeding of the parts.

In severe cases of diphtheria this peculiar membrane extends into the nostril and windpipe. These cases seldom recover. Locally you can do little in diphtheria. A wash of sulpho-naphthol, one teaspoonful to a pint of cold water, will keep the patches in the mouth more free from germ life. After all we have to depend almost wholly upon internal treatment in this disease. A pill of calcium-sulphide of one grain, given three times a day, will do more to cure these cases than all the local applications you can try.

The birds need a sunny pen that is dry and clean. They take little food, and that little should be well cooked. Sick birds should go to the little hospital that should be provided on every poultry plant.

**Bronchitis.**

This is a disease that has for its prominent symptom "rattling in the throat." The noise is really the large bronchial tubes and is produced by the breath passing through the moisture that partly fills

the passages. Bronchitis is either acute or chronic. The chronic cases are not sick birds. They eat well, seem to be in good health, but are noisy in their breathing when on the roost. Chronic bronchitis is quite common in yearling cocks and does not seem to weaken the vitality of their chicks.

Acute bronchitis comes as the result of some sudden chill, from crowding in house corners or in brooders, and as the effect of irritating particles of air slaked lime. These severe fall colds are sometimes seen in old hens that molt late in the fall and are exposed to cold winds and rain.

The bird is slightly warmer than normal, is quick in its breathing and gives a rattling noise with the movements of breathing. The bird has less than the usual appetite. Its mash should have bran enough to keep the bowel movements somewhat loose, and its grain ration should be largely wheat. Acute bronchitis is best treated by the internal use of aconite. Add to the day's drinking water for each bird ten drops of

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tincture aconite. Prepare fresh every morning. Chronic bronchitis calls for a grain of calcium-sulphide morning and night. This can be had in pills of the size of field peas and are taken without difficulty by the bird.

**Pneumonia.**

Pneumonia is a general disease showing itself in the air cells of the lungs. It is one of the fatal diseases of poultry, and is not usually recognized by poultrymen. It is a disease of winter that takes many birds out of the flock. Severe cases seldom live over four days from the start. The dead birds are found under the roost or in the nest box. These dead birds have a dull red or purple color to the comb and ear-lobes. A bird sick with pneumonia will give to the ear, when held near your head, sounds of slight "bubbling" much like the crackling of parchment paper. The bird has no desire for food, is slow in all its movements, and is off in color of comb and lobes. When recognized, pneumonia needs active treatment. Aco-

nite needs to be pushed, say ten drops of the tincture in the course of twenty-four hours. This can be given in the drinking water if the bird shows thirst or can be poured down the throat in drop dooses. It can be made into pills of meal and given.

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ask you to get out of your present rut and give our methods a trial. We satisfy others and will satisfy you. There never was a better time than right now to begin, for we have just issued a new catalogue full of the things you will need to see you through this winter, and you can make no better investment than to fill out this coupon and send it to us now while the subject is in your mind. We ask 15 cents, merely as an evidence of good faith on your part. If you will risk 15 cents, we will risk sending you a catalogue that costs us over half a dollar to print and is so big that it requires 26 cents postage. It is our 76 cents against your 15 cents. Will you do it? Write today.

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Michigan Ave., Madison and Washington Streets, Chicago

Thousands noticed our advertisements last month and sent in their application for our Catalogue No. 72. A new edition is just off the press. Requests will be filled in order of their receipt. Do not delay.

Have you ever stopped to think about the question of getting your household supplies to the best advantage? Are you perfectly satisfied with the way things are running—with the prices you pay, the quality of the goods, the range of selection and the general question of making both ends meet? Perhaps you buy your supplies from the cross-roads store, just because your grandfather did. Perhaps you are tied up to the general store because you can trade in your butter and eggs at a low price and take it out in trade at a high price. Possibly you have never thought about it one way or the other. It is time to think.

You have got to live and support your family. Your income is limited to so many dollars per year, and you have got to figure out the expense account so that things will come out right at the end of the year. If you can make both ends meet nicely and lay aside a tidy sum for a rainy day, you are only doing what every head of a family should endeavor to do, and if you don't do it you are simply inviting misery for the next time the crop fails. If a dollar looks as big to you as we think it does, we want you to think over this question of modern merchandising and see just what it means. It means different things to different people. To some it means buying everything on credit, then mortgaging the farm when settlement day comes around. Others think cheap goods the pathway to economy—the cheap, worthless trash that is advertised so brazenly at "the lowest price on earth." Many people send off to the city and get a jack knife at a 25 cents saving, and then fall back into the old rut in buying the balance of their supplies. Our idea of modern merchandising is to supply ALL your wants—everything you eat, wear or use—for yourself, your family and the hired man, at an average saving of 15 to 40 per cent, which means that if your yearly purchases amount to \$200, you can save something like \$50; or \$100 if it costs you \$400 a year to live. Are you so well off that \$100, or even \$50 does not interest you? Then again, consider the advantages: Absolutely reliable merchandise of the very best quality, and an unlimited range of selection. New goods. Prompt service. Prices that spell economy, and the certain knowledge that absolute satisfaction is the keynote to every transaction.

To make trading with us possible, we issue a catalogue of 1128 pages, in which almost everything imaginable, including Vehicles and Farm Implements, is illustrated, described and priced. This catalogue can be absolutely depended upon and enables you to select your entire bill of merchandise without hurry or confusion and with the certainty that everything will be found exactly as described or you need not keep it. We

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**PREPARE FOR WINTER.**

Charles Stewart, Oil City, Pa.

**T**O THE person who keeps great numbers of fowls and who, to a considerable extent, makes a business of it, no word of advice is necessary. Such persons attend to the necessary work in a systematic manner and at a proper time. They, too, are usually equipped with a force pump to spray their poultry houses. But persons who keep fowls in a small way need not neglect the fall renovating, and many of them will not if they only knew exactly what to do and how to go about to do it in an orderly manner, and the time most suitable.

To such persons this specific advice is directed. Have ready:

I. Lice powder.

II. Lime whitewash.

III. Soap and carbon oil emulsion.

The lice powder is made thus:

Finely sifted coal ashes,  $\frac{1}{2}$  gallon.

Flour sulphur,  $\frac{1}{2}$  pound.

Crude carbolic acid, 1 ounce.

Mix all together and shake through the sieve two or three times to insure thorough mixing.

The whitewash is made thus:

Quick lime, 5 pounds.

Crude carbolic acid, 1 ounce.

Hot water, enough for 2 gallons or more.

The emulsion is made thus:

One 5c bar of soap shaved up.

One quart carbon oil.

Hot water to make 2 gallons or more.

November is the month to put your poultry house in condition for winter. If done earlier than November there may be warm weather enough to start another crop of lice and mites; if done later there may not be enough warm dry weather to thoroughly season the house before freezing weather sets in. If preparation is made the day before in getting the ingredients above mentioned, the work necessary to renovate an average sized poultry house and its occupants can be done before breakfast any morning by following these specific directions. You will need a whitewash brush.

Get up early, putting on some old clothes and a pair of old shoes. First thing to do is to put on the fire a kettle of water, so that it will be hot when you want it. Get the morning feed for the fowls ready and take it and the lice powder along with you to the hen house. If you are quite early the fowls will yet be on the roost. Leaving the feed outside, go in, taking with you the lice powder. Close the door so that none of the fowls can escape. Spread a large paper on the floor to catch the powder as it is applied and save waste.

Now catch one fowl after another and rub the powder by handsful thoroughly through the feathers, especially under the beak, under the wings and through the fine close feathers under the vent. Much of the powder will fall on the spread paper. It can be used over and over again.

Coal ashes will not soil the fowls' plumage, but care should be used not to rub so harshly as to injure the fowls' skin. Pass each fowl as it is dusted to the outside of the house, and when they are all out give their breakfast and, while they are eating, get the hot water and

pour it on the lime, adding the carbolic acid. What you want is a thin whitewash. Apply the wash hot in sufficient quantity to thoroughly wet the ceiling and walls of the house.

As soon as the whitewashing is done, sweep off the dropping board and sweep out the dust and litter from the floor of the house. Now you are ready to use the emulsion. The shaved soap has been macerated over night in the carbon oil, now add the hot water and stir the mixture till the emulsion is formed. With this mixture, while hot, thoroughly saturate the roost, droppings board and floor. You ought to have fresh litter to strew on the floor of the house the evening of the same day; burn the old.

Keep the lice powder one week and dust the fowls in the same manner again in order to catch any lice that may have escaped or that have hatched from escaped nits. After using it this second time throw it in the dust box, for if the spirit of this direction has been followed you will need no more of it till sitting hens are to be cleansed for their work as incubators the following spring, and then, perhaps, only as a precaution.

It is never wise to buy breeding stock at the beginning of the season. Buy it before, so that it will have become used to its new quarters before the breeding season is at hand. Besides, poultry breeders are anxious to sell their surplus birds before winter sets in and you get the pick of their flocks at better prices than you must pay later.

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T. N. Smith, Attleboro, Mass., writes under date of Oct. 24: "I have received an order for 20,000 Rhode Island Red eggs from a broiler plant in New Jersey, eggs to be shipped from October 1st to March 1st. This order came through my ad in P. K. I consider Poultry Keeper my best advertising medium by far."

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Oyster shells, we are told, are not needed by the hens, but they do seem to like them. Give some to your birds that have not seen any for a month and watch them make way with some. Like the "no corn" idea, oyster shells have been condemned, but nevertheless the bird does like corn and shells. They add to the bird's variety of food and should be fed in moderation.

How are the capons? Have none! Better caponize some of the late chicks of June and July. They will make good eating next winter.

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The State of Washington, with its iron, lumber, coal, lime, gold, silver, fisheries, harbors, wheat, stock, fruit, sugar beets, hops and apples is a truly wonderful region.

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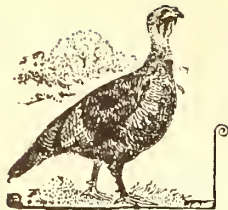


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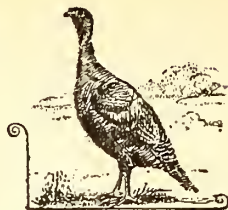
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# TURKEYS FOR PROFIT.



[Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones, of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.]

## THE TURKEY'S PLACE OF HONOR FOR THANKSGIVING.

### The Native Bird of the American Forest That Has Come To Be The Emblem of Thanksgiving Time.

**T**HE hard frosty nights and a few flakes of snow remind us that November and Thanksgiving are near, and we never think of Thanksgiving without its turkey. I have often wondered why the turkey is the king of the feast on the Thanksgiving bill of fare, as no Thanksgiving dinner is ever considered complete without roast turkey. The setting apart a day for giving thanks to God originated in a time of dire distress amongst the Pilgrim colonists, as famine and starvation stared them in the face at the setting in of a long cold winter, surrounded with forests with only small patches of clearings among the trees. That year a failure of crops left the Pilgrims without provisions, surrounded by wild Indians and wild beasts.

The outlook was dreary beyond our keenest imagination, as we look back from our vantage ground of wealth and prosperity to that little band in more abject poverty than the poorest citizen of our nation. We cannot imagine the despair that faced them; when, lo! out of the blank hopelessness of those poor Pilgrims there arose the star of hope—a sail in sight! Oh, if it only should prove a

ship load of provisions! We can see them bend eagerly forward, fearful that it would prove a delusion, but when it landed at last and proved to be the boon they had longed for, with one accord they dropped on their knees and with uplifted hands thanked the Ruler of the Universe that He had heard their cry for bread and had held the winds in the hollow of His hand and guided that frail bark to their shore.

We look across the long stretch of the past to that starting point of our great nation and feel that a day of thanksgiving should be set apart. In log cabins with their stone and mud chimneys, an iron pot and skillet, with perhaps a bake-kettle to bake their corn bread, with greased paper for windows, this is where the first Thanksgiving dinners were cooked. Look across the years from that Thanksgiving to the coming Thanksgiving. To-day the millionaires are counted by the thousands. Look from one of those log houses, with the Thanksgiving turkeys roasting before a roaring wood fire in broad fireplaces, to the millionaire's turkey roasting in one of our modern ranges, heated perhaps by gas. Look at the tables in the log cabins made of

planks chipped off the logs, nailed together with cleats, with holes bored in for legs. The roast turkey on the Pilgrim's rough table was just as juicy and sweet as the one served on the millionaire's table of to-day.

We as a nation have more to be thankful for than all the nations of the earth. When the first Thanksgiving dinner was thought of, as that precious ship of provisions was unloaded, our Pilgrim Fathers, loyal to the new home of their adoption, must have wanted to add something of home production to the bill of fare. And as we always want what it is the hardest to get, the wild turkey that roamed through the forest, and had scarcely ever seen a white man, and consequently was almost an impossibility to have for a Thanksgiving dinner, appeared to be just the thing. I can almost see those old Pilgrims, with their knee breeches and old muskets across their shoulders, start out to track a flock of turkeys.

But what of our own roast turkey for 1903? Look at the homes all over this broad land. Each year new hearthstones are laid and another and another family demand a turkey for its Thanksgiving dinner. Now how is this demand to be met? According to latest reports there are not half enough turkeys to go around among Uncle Sam's sons and daughters, his grandchildren and great grandchildren. What are we going to do, go without our Thanksgiving turkey, or get a hustle on the turkey raising business? The reason more people don't raise turkeys is the idea that they are hard to raise. It is not a hard task to raise a large flock of turkeys. It is true it takes care and a knowledge of the requirements of young turkhood to start them off on the road to success, but after the crisis of their lives is passed we are almost sure of success.

A baby in the human family has to be carefully cared for until its first set of teeth is cut. After that the critical period is passed and we expect it to grow strong and robust. A turkey's life is of much shorter duration than human life and a much shorter period elapses before

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**WHITE LEGHORN POULTRY YARDS CO.,** Box 5 14, Waterville, N. Y.



they pass the dangers. When they emerge from the period of "shooting the red," as it is called, they have passed the first milestone of their lives successfully. Later comes another trial test, when they molt their adult feathers. One has only to pick up a turkey molting its adult feathers to see what a drain on their system their new suit of winter clothing costs. I have made up my mind after examining their bodies with those feathers coming out so rough and uneven, that I had rather work a little harder and wear store clothes to protect me in cold weather.

We are more nearly akin to the dumb animal family than some of us would believe. Our anatomy is run very nearly the same in its process of taking food to build up the body, nearly the same organs are required to digest the food and carry it through the circulation. Fowls even have the appendix that is causing so much trouble to the human family, and who knows but they die with appendicitis! It is true they require a different kind of grit than man does, but we all know that more than one-half of the human family have not half grit enough or their livers would not be such dismal failures. Perhaps a little of the chickens' grit would not hurt them and would make them more successful men and women.

Farmers, wake up to the need of more turkeys! We surely ought to be willing to help Uncle Sam give all his children a Thanksgiving turkey, when they are willing to pay you a big price for your turkeys. Let there be enough turkeys raised in 1904 so that all the families in this broad land can celebrate Thanksgiving with at least one roast turkey.

We have a special clubbing subscription department and can supply magazines and journals (poultry, farm, dairying, whatever you wish) at wholesale rates. Send in list of papers on a postal card and we will quote our best rate by return mail. Address Poultry Keeper Pub. Co., Quincy, Ill.

**CULLING.**

By F. O. Wellcome, Yarmouth, Maine.

**W**HEN reorganization is begun by a new manager of a railroad, a manufacturing establishment, or any other enterprise, one of the first things to be done is to "cut out the deadwood." No men are wanted whose individual contribution to the work in hand does not represent a cash value to his employers that is greater than the amount paid him for his services. That is not sentiment, but plain business sense.

"Culling" means: To separate, select, to pick out (Webster). The importance of a careful and strict system of culling in the poultry yard has never been overrated. The poultry raiser's culling should begin with the birds that are to furnish the eggs from which the future chicks are to come. First remove every bird that is not in vigorous, rugged health so far as the most careful examination can determine. Do this with absolutely no regard to the score or the egg record of the individual. Only vigorous breeding stock will then remain. This healthy, vigorous flock should again be culled.

Is the Standard of Perfection in view? If so, every bird which shows its probable inability to throw chicks of standard merit should be removed or if allowed to remain its eggs should not be used for hatching.

We can now pass on to the eggs. The eggs should be culled. Avoid for hatching purposes every egg that in size, shape, color, strength and texture of shell, does not conform to your standard for a market egg, no matter how good the bird that laid it appears to be. For the best results the eggs should be culled again. When it is possible and practicable to do so, avoid for hatching purposes every egg that was laid by a bird whose laying ability has not been up to a fairly high standard, and every egg laid by a bird that was not in the best

of breeding condition at the time the egg was laid, even if she appeared to be all right when the breeding pen was made up.

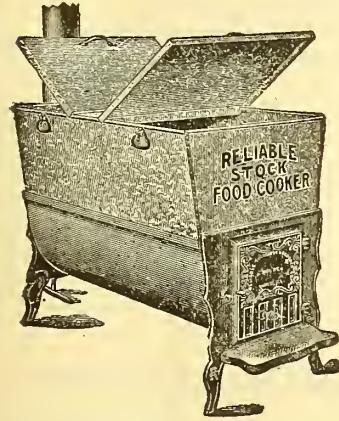
This strict culling will result in the use for hatching of good eggs from good hens only. It is not so much time that it takes as courage. It does take courage, lots of it, and some time. After the eggs have been set, under hens or in the incubator, they should be culled again. As soon as they can be surely distinguished by testing, cull out all infertile eggs, and if the "know how" has been learned, cull out all those in which the germs have died, or have not developed as they should.

The eggs should hatch in twenty-one days. A strict ruling would require that all eggs not hatched by that time be destroyed. "Let your own discretion be your tutor." The chicks that hatched in due time should be culled—if they need it. Cull out every chick that is deformed, crippled, and those which "don't look or act right." They are no good. If the previous culling, as outlined above, has been thorough, there may not be much more culling to do; but, as the chicks grow and thrive under good feeding and care, watch closely for a chance to cull again. "Get the habit" of culling. It would make a splendid fad, with an effect upon the poultry business that it will be safer for me to leave to your imagination than attempt to describe.

Cull from now on, as the chance presents itself, until the circle is completed and you arrive at the breeding pen again. Cull out those that do not appear right and those that do not perform right. A little flock well culled, like "a little farm well tilled," will be a greater source of satisfaction and profit than larger operations run hit or miss, without careful attention to details and constant culling.

Kerosene emulsion driven into every corner of the poultry house and splashed against the walls with a spray pump is an effectual method of ridding the house of lice.

|                        |                                                                                                                                                                                                                                                                                                         |                                                                                                                              |
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| <b>SANBORN QUALITY</b> | <b>THE BUFF WYANDOTTE IS ALL RIGHT.</b>                                                                                                                                                                                                                                                                 | Whether you are looking for fancy stock or practical birds it fills the bill and the egg basket. I have taken the best birds |
| <b>BUFF WYANDOTTES</b> | money could buy and bred them for good results. I have a string of fine show and breeding cockerels to sell for immediate shipping. Some of these will see Boston and New York shows. Do you want them or shall I send them? Some nice breeding stock at a price that will move them before snow comes. |                                                                                                                              |
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**Reliable Incubator & Brooder Co., U. S. A., Box A-15, QUINCY, ILLINOIS.**



## GREEN CUT BONE.

## The Cheapest of All Foods and One of the Best for Egg Production.

It must not be overlooked that a bone "cutter" is not a bone "mill." A bone mill cannot grind a green bone, though it can easily reduce a dry bone to powder, but a bone cutter will cut green or dry bones. There is also a difference in feeding value between green bones and dry bones. Their chemical composition is not the same and one is more digestible than the other.

The value of an article is not estimated according to weight, but in accordance with the objects desired from its use. If substances are used for food their real value depends upon the proportions of digestible nutrients contained, and the value of the nutrients depends upon the relative proportions of nitrogen, lime, starch, and fat.

There is a wide difference even in green bones. Some have more natural juices (solvents), and some are richer in nitrogen than others. The egg requires lime for the bones of the chick, also phosphoric acid. The nitrogen is to build up the structure around the bones, such as the muscles, liver, heart, nerves, sinews, etc. The starch and fat produce heat and motion, respiration being essential to oxidize the carbonaceous matter in order to produce warmth.

If an egg did not contain the substances mentioned no chick could be produced, and if the hen did not receive food containing nitrogen and lime she could not produce eggs. She can easily supply herself with starch and fat, as such substances exist plentifully in all foods, especially the grains, but there are times when she cannot secure the lime and nitrogen, so she waits until she accumulates enough of these substances and then she lays and waits for the next supply. If lime and nitrogen are abundant she will lay every day, but if not she will lay every other day, or twice a week, or not at all.

When the hen gets plenty of grain she cannot dispose of the surplus starch and fat unless she has sufficient nitrogen from some source to balance the great abundance of carbonaceous matter, hence the fat is stored on her body and after a while the hen will cease to lay because she has become too fat. Her organs are obstructed with fat, and she is diseased. She attempts to get rid of the imperfect eggs, or rather nature endeavors to do so, but they have no shells, or two of them will have the same shell (double yolks), or at times the eggs may be very small. She will sit on her nest for hours, or on the roost, but she cannot perform her natural functions because she is too fat, and she is too fat because she did not get enough nitrogen and lime in proportion to the amount of starch and fat received.

A bone consists of phosphate of lime, water and nitrogenous matter, as well as more or less fat, according to the kind of bone. There are about four pounds of nitrogen in one hundred pounds of green bone, but this nitrogen is nearly all eliminated when bone becomes very dry. This pure nitrogen is worth fifteen cents per pound as a fertilizer on the soil, but is, of course, more valuable as food.

Bone, being phosphate of lime, con-

tains lime in abundance, and as a bone is a very hard substance it will serve as grit when not too fine for adults, although it may be as fine as desired for chicks. There is almost no lime at all in wheat and corn, hence no materials in those grains for assisting the hens to form the shells of eggs and one pound of bone contains more bone-forming elements than several hundred pounds of grain.

Bones are cheap, as they can be obtained at much less than their real value. They are worth fifteen dollars per ton when used on the land as fertilizer, and they are frequently given away. But why are they thus disposed of? Simply because the farmer or poultryman does not know their value and because they are not sufficiently wise to use bone cutters. Just so soon as the farmer procures a bone cutter he is then willing to pay for the bones, and yet bones are cheaper than wheat at all seasons, even at double the price of wheat per pound.

But why are bones cheaper than wheat? Because the bones are rich in nitrogen and lime,—not one substance, but both,—and they make the hens lay. It is the results—the eggs obtained—that gives the real value to a food. Wheat and corn at ten cents per bushel are very expensive if the hens do not lay.

Bone is grit. It is hard and sharp, and assists the gizzard to reduce all other foods. Bone puts the gizzard at work and allows the fowls to follow the directions of nature. Mica grit is of course also excellent, but it is not food. Bone is both grit and food because it can be digested.

All foods should be ground fine by the gizzard. That is what the gizzard is for. Let it work. If the bone is cut with a bone cutter to a condition in which it can be swallowed by the hens the gizzard will complete the work.

The farmer knows that the feed cutter and grain mill are essential to the keeping of his cattle. He expects milk and beef in return for his labor. Eggs bring more in proportion to cost than any other product of the farm, and why should not the rich, egg-producing bones, fresh from the butcher, with their natural juices abounding in nitrogen, and with lime in abundance, be cut up with a bone mill and fed to poultry?

A bone mill will pay for itself in eggs the first season. Bone mills have now been so highly improved that the labor of cutting the bone has been reduced to a minimum, and the prices are within the reach of all. The more lean meat and the less fat on the bones the better.

Even the dry bones may be ground and used, for they are also valuable. They may be ground as fine as desired and will be highly relished, but there is no food cheaper, better, or surer than the bone fresh from the butcher, and the fowls will crowd each other in their eagerness to secure the wholesome and palatable pieces.

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Than any other book published. It treats of every branch of

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It contains 118 Pages (9x12 inches in size) and Cover and Is **The Best Poultry Book Yet Published**. Contents (briefly stated) are as follows:

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- Leading Standard Breeds.**
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- Practical Poultry Houses (Plans).**
- Fowls; Care and Feeding.**
- Model Brooding Houses (Plans).**
- Care of Adult Fowls.**
- Feeding for Eggs.**
- A Hen Catechism.**
- Feeding Young Chickens.**
- Care of Growing Stock.**
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- Broilers and Broiler Raising.**
- Care of Brooder Chicks.**
- Pekin Ducks For Profit.**
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The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

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**THE FEEDING OF PIGEONS.**

Arthur P. Spiller, Beverly, Mass.

The kind of feed and the manner in which pigeons are fed depends somewhat upon the purpose for which they are kept. If raising squabs for market is the end sought, then particular attention should be paid to the parent stock, as the parent birds feed their young until old enough to feed and care for themselves.

Feed should be kept before the birds at all times, cracked corn and red wheat one-half of each mixed, or if this proportion is found to be too laxative, increase the quantity of corn, giving a variety in limited quantities of buckwheat, Kaffir corn, hulled oats, hemp seed, etc. When the feed is kept before the breeders all the time the squabs are fed more and better and they are not heard squeaking for food so much as when the food is given to the old ones but twice a day.

The variety of food given serves to keep up the appetite. Green stuff, such as lettuce and cabbage, should be fed sparingly, not more often than once in a week or ten days. The object sought in raising squabs is to get a large fat squab in the shortest time, and the above kinds of gain will do it provided the parent birds are good feeders of their young.

In raising the young for breeders I have found that giving one-half the feed of cracked corn and the other half made up of red wheat, hulled oats, peas, Kaffir corn and buckwheat mixed or fed separately, with an occasional small feed of hemp seed, will produce rapid growth of birds with large frames and vigorous constitution. Plenty of fresh clean water must be before them all the time.

With good breeding stock, comfortable quarters, good care, etc., with above methods of feeding, squab culture is easy.

**PIGEON TIPS.**

Homing Pigeons are the best breeders and feeders of their young of all the varieties.

Lice cause more than one-half of all losses in the pigeon loft.

Lice powder and liquid lice killers are money savers if used intelligently.

Cracked corn is the principal feed for pigeons.

The pigeon pens must be kept free from draughts.

Tobacco stems make the best nesting material for pigeons.

The fall is a good time to buy breeding stock.

Squabs bring the highest prices in winter.

Sand sprinkled on the floors of the pens makes the work of cleaning easier.

Runts, Swiss Mondains, Polish Lynx are the largest varieties.

Stale bread soaked and fed in moder-

ate quantities to pigeons once in a while is good for them.

The less the breeders are disturbed the better the results.

Sick birds should at once be removed from the pens of the well ones.

Pigeon manure is worth about sixty cents per bushel. It is worth saving.

Muslin may be made to answer many purposes to poultrymen. It allows the heat of the sun to enter as readily as through glass, and does not radiate the heat away as rapidly as does glass. It is very cheap, and may be rendered waterproof in many ways. Fresh bullock's blood and freshly slaked lime make an excellent waterproof paint for such purposes, but pure linseed oil will probably answer nearly as well. If the muslin is drawn tightly in position it will turn the water without preparation. For covered runs to the chicken coops, or for shelter during storms, it is one of the cheapest materials that can be used.

At the Inter-State Show at Atlanta, Ga., Oct. 13-17, Wilber Bros, Petros, Tenn., won on S. C. White Leghorns, 2 pullet, 2 cockerel, scores 94½ and 93½. Judge Marshall said it was the best class of Leghorns ever shown at Atlanta. Wilber Bros. have several cockerels to spare that are of the same quality as these winners. For introducing new blood this strain is excellent. See ad on page 321.

The Century will publish during the coming year a daring and unique piece of historical writing, namely, "The Youth of Washington," told in the form of an autobiography, by Dr. S. Weir Mitchell, LL.D., author of "Hugh Wynne." Dr. Mitchell, in whose famous "Hugh Wynne" General Washington appeared as a character of the novel, with general acceptance, and whose address in Philadelphia on February 22, 1903, showed strong imaginative sympathy with his subject, has made an exhaustive study of the heredity, circumstances, and events which fitted the son of a Virginia planter for one of the greatest careers in history. Dr. Mitchell imagines Washington sitting down at Mount Vernon in his old age and recording, solely for his own eye, the story of his "youthful life and the influences that affected it for good or ill." The author has so fully entered into the habit of mind of Washington that it is impossible for the ordinary reader to separate in the text the passages taken out of his actual writings from those which Dr. Mitchell imagines him to write. No one can read this record without obtaining a new and vivid sense of the personality of Washington and of the remarkable experiences which made him the man for the hour and for all time.

**SCABBY LEGS.**

Scurvy (or scabby legs) are among the most disgusting sights that can be witnessed in the poultry yard. They not only disfigure the fowl and denote filth, but are a source of annoyance and discomfort to the birds. They arise from the rapid multiplication of a minute parasite, are "catching," and there is no excuse for them. There are a great many remedies advertised that are said to be sure cures for it, but a very simple remedy is to take a quarter of a pound of lard and gently melt it until it barely liquifies; then add a tablespoonful of coal oil. Mix well and give each fowl a good rubbing on the legs, putting it on thickly. Repeat this once a week for a month and it will effect a cure. If preferred, either sulphur or carbolic acid (a teaspoonful) may be substituted for the kerosene. When the fowls are rid of the difficulty occasional application will be necessary. It can be brought into yards by fowls from other places, and for that reason breeders should be careful to look out for it when procuring fowls from other yards. No good breeder who prides himself on his stock will allow such a disgusting sight as scabby-leg fowls in his yard.

**STANDARD-BRED LIGHT BRAHMAS.** Fowls and eggs for sale at all times. I ship fowls or eggs to any part of the U. S. and Canada, to reach you in good shape. Give me a trial order, or call and see me. Mention P. K. ARON J. FELT-HOUSE, P. O. Box 203, Elkhardt, Ind.

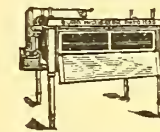
**Single Comb White Leghorns**

Stock from good to the very finest quality for sale.

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**CHEAP, GOOD, YOUNG AND OLD STOCK.** Young fowls, \$1 to \$3; Good trios, \$5. Br. Leghorns, W. Leghorns, Bar, and W. Rocks, Bl. Minorca, W. Wyandottes, Pit Games and M. B. Turkeys. Circular, Fowls and Buildings, free. E. W. GEER, Box 104, Farmington, Mo.

**..BURR INCUBATOR..**

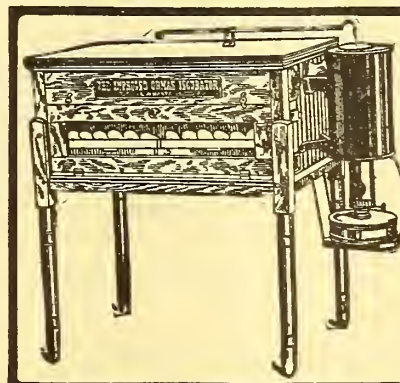


You can get the best incubator on earth, \$6.50 up; all the latest improvements, no night watching, because we use our Five-inch Double Wafer Regulator. 30 days' trial, and your money back if you say so. Catalogue free. **BURR INCUBATOR CO., Box K, Omaha, Neb.**

**Bred to Lay**

**White Wyandottes.**

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper. 11-12 **C. BRICAULT, Andover, Mass.**



**INCUBATORS**

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**L. A. BANTA, Ligonier, Ind.**



### THIN OUT FOR WINTER.

Now is the time to cull out the flocks. Nearly every poultry breeder has more young stock than will be kept over, and while the flocks are full is the best time for selecting those intended for next season. The pullets that will be the best layers are those that have been hatched early. They should be well feathered in appearance, bright, active and full of life. Such pullets should be kept growing from now to the approach of frost, in order to advance them on the path to maturity as rapidly as possible. They should receive no check and should be well housed and fed.

The reason why it is so important to push them is because if they begin to lay during the latter part of the fall, before the winter sets in, they will keep on laying and begin to set early in the spring, in time for hatching out the early broods. Should they not lay, however, before the winter begins, they will not lay at all until spring, but will begin early. The cold weather seems to have a curious effect in that respect, for young chicks stop growing, hens will not begin to lay, and even the cocks are indolent and selfish.

Nor is it any less important to push the cockerel. If the eggs are intended for hatching, a forward well-matured cockerel will be much more valuable and serviceable than one that has been slow in growth and not fully developed. When the small breeds have been used, they will be found approaching maturity much sooner than the large breeds, but do not make as good winter layers as do those breeds that possess heavy, fluff feathers, nor is the tall comb of any advantage to them when the frost is keen and the winds sharp. Liberal feeding, however, will assist to bridge over some of the difficulties, and it pays at that, as the eggs collected in winter are always worth much more than those of a later period. Thin out all the inferior stock, select the strongest, earliest and most active pullets, and pick out a cockerel full of vigor and strength.

A quart of millet seed scattered far and wide to twenty hens, so as to make them work in the morning with nothing at noon, and just as much as they will eat up at night, with a variety of other food, is an excellent plan of feeding. To know how much they will eat let them fill up until the last hen walks away satisfied. If fed twice a day, however (so as to fill them), they will become rolling fat. If done three times a day it may kill them. The millet seed is intended to keep them at work. The seeds being small, they will work hard to find them, and the fowls can only eat slowly.

One pound of cut bone for a dozen hens once a day, which should not cost over one cent a pound, will produce more eggs than five times as much grain, because the cut bone is complete in egg-making substances, while the grain is largely deficient in many respects. The cost of a bone cutter soon comes back to the poultryman in the increased egg yield of his flock.

Charcoal is not used as a grit, being too soft for that purpose. It has been found excellent, however, as a corrective of

bowel disorders, especially when indigestion from overfeeding exists. It is of little value unless freshly burned, as it then possesses the property of absorbing gases. Those who use it for poultry should never place a lot of it in the poultry yard, but put a lump in the stove, allow it to become heated, then grind or pound it, a small piece for each day being sufficient.

"Please say to P. K. readers that my new catalogue for 1903 and 1904 is now ready for distribution. Every reader of Poultry Keeper should send for this. It is free for the asking. I don't think I am wrong when I say—my prices are lowest. People who read more than one paper or magazine should write me for prices on the lot. I have been in the subscription business about three years and have made a thorough study of it.—C. J. Houser, California, Mo."

In breeding for market it is important to have a breed that grows rapidly and fleshes up young. The skin should be yellow, and if the feathers are all white both the chicks and old fowls will look much better when dressed than those with colored feathers. The color of the skin is sometimes important, so far as appearance is concerned, yet half the fowls that are sent to market have anything but a yellow skin. Small bone, short legs, and a well-rounded form are all desirable, and a size (when full grown) of not less than five pounds, and not over six before dressed, gives the best early fowl for market. None of these qualities are an injury to a laying hen, and if to them are added good laying qualities, a hardy and quiet disposition, we may often have combined the points necessary for both meat and eggs.

Take a few of your best birds to some near show. It will teach you more than one useful lesson and be helpful to the poultrymen of your section. Help the shows! They are working for you.

### TRYING YOUR OWN "IDEAS."

A mistake is sometimes beneficial, as it teaches the beginner what he should avoid. Nearly all who engage in poultry at first have their own ideas and peculiarities. They are willing to accept advice and learn, but they have some plan or invention on which they have depended, and unless it is tested the beginner will not be satisfied. The result is usually that a mistake is made, and one which could have been avoided if the beginner had considered the fact that hundreds of others had also been "discoverers" of old and abandoned methods before him. The most experienced persons, however, make mistakes and they profit by them. When one is determined to succeed, and seeks assistance and advice, the object should be not so much to learn what should be done as what not to do. As a rule, there is too much done for poultry by beginners. They make their hens too fat, waste food, and devote more labor than is necessary. When one has found out how to avoid mistakes he will have passed through the most difficult portion of poultry management, and may learn how to improve and increase the facilities for larger flocks.

The poultry business in its important branches has come to be a trade. Some experience is required in order to succeed.

Inbreeding is all right so long as you use birds that are perfectly healthy, and of a strain that is noted for vigor. If you will watch your birds as they grow from chicks up to maturity, and use only those birds that have a perfect health record, you need not be troubled by fears of spoiling your flock through mating birds of near kin. Healthy birds will reproduce themselves—both in looks and strength.

Don't be afraid to advertise your stock. If you bought birds from reliable breeders do not be afraid to try the pure-bred business for yourself.

## IMPORTANT AND PROFITABLE.

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three" for \$1, we **POULTRY KEEPER, Quincy, Ill.**

will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

**Enclosed find one dollar for three subscriptions to POULTRY KEEPER for one full year:**

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## WHITE AND BLACK IN BUFF ROCKS.

### Discussion of Proposed Changes in New Standard for Buff Rocks— Treatment for Crop Bound Fowls.

C. M. Chaplin, Evansville, Ind.

I HAVE noticed in the discussion of the new standard several poultry breeders have advised cutting severely or disqualifying the Buff Rock for white in plumage. I am satisfied that it would be a mistaken idea to deal any more severely with the White than with the Black in this variety, for this reason, that the most beautiful birds we have, the ones that have that bright golden buff (which is so much sought after) are bred from light buff parents, and some white is sure to manifest itself; even while the quill is a nice buff, some white will show, occasionally, on the edge or on the tips of feathers.

The tendency of all breeders if the white is too harshly dealt with will be to breed towards the black and dark buff and red and let the light severely alone. This will in time eliminate the beautiful golden buff which gives our Buff Rock its individuality.

It is a very delicate matter to draw the hue between the black and the white in breeding. Of course we do not wish to breed direct from either, but solid buffs are hard to find and so the task set us is to breed from the mediums or the two extremes, and this requires the mingling of both dark and light with some black and white in the extremes.

I think it is advisable to stay away from the white as much as possible and let the black predominate to some extent. But if we lean too much towards the black the pigment in the quills will get too strong and we will have Red Rocks instead of Buff. Of course we can not breed anything out by breeding from it, and the individuals in the breeding pen should all be as near as possible the proper shade, but as perfection is not obtainable, the only recourse is to balance the defects as near as possible. To reject a bird because he has a white edge and one or two flights when he is good in all other requirements that go to make up a good bird would certainly be a mistake.

The breeder of Buff Rocks has enough in sight to work for now without throwing more obstacles in his way. While it is a pleasure to strive to perfect a breed (and I would not accept as a gift a breed that produces no culls), at the same time we must be able to make a perceptible gain toward the perfect type or we will get disheartened.

These difficulties so serious to us that we have to overcome, and disasters that we meet with, while disheartening for the time, only make the true fancier strive the harder to succeed. While we read the journals and learn many profitable things from them of other people's experiences, yet it is the hard knocks that take the conceit out of us, and the experience that costs us many a bright dollar we never forget.

#### Remedy for Crop Bound.

I see in many of the poultry journals a remedy for crop bound chicks. I will give Poultry Keeper readers the benefit

of my experience in this line. I have tried oils, cutting the crop, and other plans, but the most successful way of treating the case, and in fact the most certain cure, is very simple. Now you must consider the trouble is caused by some obstruction to the passage from the crop to the gizzard, as very little food passes into the gizzard and intestines. The fowl is just as hungry with a full crop as if on starvation rations; in fact, is starving, consequently it keeps pecking at anything in the way of food to appease its appetite until its crop is almost ready to burst.

Of course the best remedy is a preventive in the way of plenty of good sharp grit, still this does not always control the situation. Not once in a hundred times is the obstruction of such a nature that it will not pass out without resort to a surgical operation or any other unnatural means.

My plan, which is always successful, is this: As soon as I notice a swelled crop (which will probably be in the morning) I catch the bird and place before it a dish of luke warm water, not milk or anything that will sour. If it refuses to drink I force enough water into its crop to soften up the food as much as possible. I knead the crop gently with the hand and put the chick in a good comfortable place where it can get absolutely nothing to eat or drink. In a few hours I place the water before it and compel it to drink. Repeat this every few hours and the crop will begin to soften in ten or fifteen hours and will eventually disappear. Do not give food until the crop is entirely empty.

Then again we have the hard and some-

times soft swelled crop. This hard crop is easily distinguished from the other, as it is smaller and solid, usually a mass of foul fermentation. These later conditions are indigestion caused from colds, and usually occur in spring in continued damp weather. As the larger part of the chick's internal machinery is composed of digestive organs a severe cold attacks this part of the system more frequently than any other.

This condition requires entirely different treatment from the other. Take the chick and force into it all the tepid water its crop will hold. Suspend it by the feet, head down, and gently squeeze its crop until you empty it as a sponge. Repeat this two or three times until all the contents of the crop are removed. Then take sweet milk, boil it, let it cool, and add finely pulverized charcoal until it is like paste. Let them eat freely; if any refuse, force it down them. This neutralizes the gases, sweetens the crop, acts as a purgative and regulates the digestive organs.

Feed nothing but this for twenty-four hours and then give bread crumbs mixed with chopped onions, with all the pulverized charcoal that will stick to it, and for thirty-six hours be sure to keep in a very warm place with sunshine if possible, and this will cure your chicks. If you have any valuable chickens, try it.

I saved two chicks this spring among others that were in a very serious condition that are now the largest and most vigorous of the batch and twenty-five dollars each would not buy them.

It always pays to try to effect a cure if possible, as you do not know how valuable the bird may be, and it is always the most valuable that we lose.

### Hoosier Incubators AND Brooders

Are better than others because:

They cannot possibly overheat—They furnish the most pure air—They require no moisture—They are built of the best material—They are sold at a reasonable price. Catalogue free if you mention Poultry Keeper.

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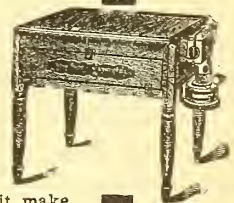
CHARLES McCLAVE, Box R, New London, O.

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Sure Hatch Incubator Co., Clay Center, Neb., Indianapolis, Ind.





## POULTRY ON SMALL FARMS.

In its crop report for August, recently issued, the Massachusetts State Board of Agriculture includes an article on "The Management of Poultry on Small Farms," by John H. Robinson, editor of Farm Poultry. This report may be obtained by applying to J. Lewis Ellsworth, secretary of the board, State House, Boston, and those wishing to receive these bulletins regularly may have their names placed on the mailing list for that purpose.

In this article Mr. Robinson says: A large farm offers the best opportunity to keep poultry with little labor and comparatively large profits, but the owner of the large farm is not often much interested in poultry. It is the small farmers, under the necessity of making the most of every opportunity to make money on their land, who are attracted by the possibilities of poultry culture. A very large proportion of the small New England farms are of such dimensions and proportions that the fowls cannot be given range. Because of this, many small farmers interested in poultry have adopted the intensive methods which small poultry keepers in towns often find necessary, but which large poultry keepers and farmers ought to avoid.

Intensive methods make the care of poultry a grind and a drudgery, so that the poultrykeeper's time is almost fully occupied in caring for a few fowls. Many farmers who follow the intensive system and find it profitable for a time have neglected other lines of farm work, while others, unwilling to do this, have reluctantly given up their intention of increasing their stock of fowls. The best solution of the problem of the small farmer who wants to keep a few hundred hens, and still give most of his time to other things, will be found in the adoption of methods intermediate between the intensive methods of the town poultry keeper and the free and easy methods that work well on large farms.

Mr. Robinson then goes on to say that for more than a decade the interest of poultry keepers has been almost monopolized by intensive methods, which are necessary to secure high averages of egg production. These large egg yields are often secured at such cost of care and food that the actual profit per fowl figures small. By the colony system the owner of a large farm will distribute his fowls over the farm, and, giving them room and range, relieve himself of the necessity of doing for them many of the things which the intensive poultry keeper must do daily. Then follows an extended illustration of the difference between the two methods, particularly as relates to supplying green food, meat food and exercise.

What we are seeking, says Mr. Robinson, is a method by which the farmer can keep as much poultry as possible without giving it the detailed attention that must be given when the land occupied is stocked to the limit. The problem is neither a deep nor a difficult one. As the farmer who cannot give his poultry range must have yards, the obvious thing for him to do is to lay out his yards according to the size of his flocks, limit the total of fowls kept to the capacity of the yards, make houses of such dimensions as are required, and place them singly or

in pairs where they can be most readily reached in making the rounds of the place.

He then gives details as to the size of the houses and yards required under this method, and points out that the expense of fencing is limited to the increased cost for the end fences, no more fencing being required for the division and side fences than when a continuous connecting house with narrow yards is used. He further explains the best methods of regulating the work of feeding, watering, etc., so that fowls may be kept in good condition and the greater part of the day still left free for regular farm work.

In closing Mr. Robinson says: Poultry keeping ought to be an important feature on every farm, and a pleasant feature of farm work. It may be, if the farmer will only study to adapt his stock and his methods to the capacity of the farm under conditions satisfactory to him.

## PREVENTING VICIES.

The fowls should be housed up every night, and not allowed to roost on sheds, fences or trees; even neglecting to shut the door on them for one night will cause the timid ones to seek a higher roost the next night (which can be found only out of doors); the experience of the fowl also leads it to lay its eggs outside, a great nuisance, and to constant loss from night enemies. At sunrise every morning scatter grain or millet seed for them. Let this always be done on the same spot of ground, simply to teach them to expect it and to come up regularly. Keep in a convenient place a vessel of clean, fresh water, if there is no running stream. At certain and regular times in the day you will find the whole flock at the feeding place. Throw no scraps of food around the dwelling, or you will teach them to become a house nuisance. Burn all the egg shells, or you will teach hens to eat eggs in the nest. If you coop your chicks, take the hens and brood to the hen house as soon as the coop is dispensed with; otherwise, when winter sets in, you will have to spend every night for a week before the chicks will learn to roost. Protect the sitting hens with a light board, or lattice cover, to the nest, so that they will not be annoyed by other hens wishing to lay with them. Any bad habit, or vice, may be entirely broken up and changed by reasonable preventive measures and with but little difficulty.

Will you "help a good cause" by sending names of persons interested in poultry to whom we can send sample copies of Poultry Keeper?

## This Lightning Lice Killing Machine



kills all lice and mites. No injury to birds or feathers. Handles any fowl, smallest chick to largest gobbler. Made in three sizes. Pays for itself first season. Also Lightning Lice Killing Powder, Poultry Bits, Lice Brushes, etc. We secure special low express rates. Catalog mailed free. Write for it. CHARLES SCHILD, Ionia, Mich.



## U. S. STANDARD

INCUBATORS  
Built RIGHT SIDE UP.  
The machine that uses a hover blanket. Has 10 distinct points over all others. Write for free catalog and mention P. K.  
STANDARD INCUBATOR CO.,  
Ponca, Nebraska.

## A REMEDY FOR CHOLERA.

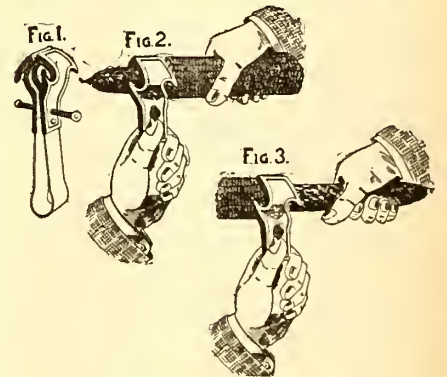
I will give my tried remedy for cholera. I copied it from the Atlanta Constitution. Tried it and found it good. It is a good strong tea made of smart weed. Use the tea to mix their mash with and put it in their drinking water. I tried it on two that were almost dead and the third day I turned them out well and hearty.

Mrs. M. J. Webb, Alabama.

It will pay every reader of this item to subscribe to his farm and poultry papers, magazines and publications of all sorts, through our Clubbing Department. Send list of papers and journals on a postal card and we will quote a special price on the lot. Address Poultry Keeper Pub. Co., Quincy, Ill.

If your birds must be yarded at this season of the year see that they get a large supply of green food. You can find plenty of tall weeds going to seed. Pull them up and throw into the poultry yards. Do this every day and give them more than they can eat. Weeds are good for food and pay back in this way some of the loss their growth in the garden has cost you. Weeds are just as convenient to feed as cabbage, cost little, and are always to be found in the growing season.

It will help everybody concerned if you will remember always when writing to our advertisers to say, "Saw your ad in Poultry Keeper."

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CORN SHELLER

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Shells any kind of Corn, from pop corn to the largest ear of common corn. Price of Sheller complete, prepaid, 50 cts.

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**CHOLERA.**

Cholera exists at all seasons. Nearly all diseases, especially indigestion, are termed cholera, but more frequently roup is the disease at fault. To distinguish cholera from roup is the difficulty with beginners. Roup may last for months; cholera gets in and goes out of a flock in a hurry. When cholera gets into a flock there is no sure cure. It is a matter of the "survival of the fittest." A large flock cannot be handled with the object of administering medicines, and the birds will not eat; in fact, they care for no kind of food, but they will drink and drink enormously. The remedy must then be given in the water, and of course some birds will drink more than others. The best remedy known is to add a teaspoonful of liquid carbolic acid to each quart of drinking water. It is a poisonous dose, but desperate cases require desperate remedies. The bodies should be burned, and every square inch of the ground (and buildings) saturated with a solution of a pound of copperas and a pound of bluestone in six gallons of hot water, with plenty of air slaked lime freely applied after the ground is dry. Cholera kills quickly. If the birds linger for three or four days, the disease will not be cholera. Watery, greenish droppings, great prostration and intense thirst are the symptoms. It may not be "epidemic," if no pigeons are near, as it is probably the spreading in that manner that gives it the name of "epidemic," but it is certainly contagious.

In preparing dressed poultry for shipment to market use only clean boxes or barrels, boxes preferred. Any size will answer, but the boxes should be strong. Bore a few holes in the sides, in order to allow the air to enter the box, and be sure that all the animal heat is removed from the carcasses by placing them in ice water for a few hours, wiping each carcass dry with a clean towel. Lay them neatly in the box, using no straw, wrapping cloth, or packing material whatever, and ship by express, first making all your preparations with the merchant before you begin to kill and dress the fowls.

"Double mating" is the system of using two yards, one for producing pullets and the other cockerels. For instance, the pullets of the first yard may be superior show birds and the cockerels not so desirable, and vice versa with the second. It is practiced with only a few breeds, and is forced upon the breeders by standard requirements to produce stated colors on males and females for the show room. Breeders who sell eggs do not sell them from double matings unless requested by the customer, but mate their birds as "breeding pens," so as to get the best results.

Male birds must now be gotten out of the way by breeders who are mating up their pens for the season's breeders and they can be bought at very reasonable prices. Any breed or variety desired will be found in our advertising columns and every advertiser is thoroughly reliable. Don't forget to mention P. K. when writing. It is to the interest of all concerned.

**JUST AS TRUE OF POULTRY.**

A horse with a brand on will travel just as far, pull just as much and go just as fast as one without; but would you pay as much for him? No, you would not. Why? Oh, looks! Yes, that's just it; looks are what we get the fancy price for.

Well, remember, if you are willing to pay a premium for looks, others will pay a premium for your products if they look better than your neighbor's. So, when you have something to ship, have it start out from home so you will not be ashamed of it if you had to claim it in town.

When shipping hay see that no stained, discolored or unsound hay is loaded in the same car with your good hay. It may be just as good feed, but—remember looks.

Reclean your seeds by fanning before shipping.

Sort your apples and potatoes and remember we city folks have to eat what you send in. Some shippers think we don't care for looks, but we do, and we pay for them.

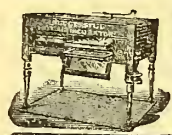
And so on down the line. It is the same in everything else. Given the same quality, conditions, etc., good looks will always bring a premium.—Harry Dallas Heltzell, with Geo. J. Schulte & Co., Chamber of Commerce, St. Louis.

**WE NEED YOUR HELP.**

We are eager to get all the helpful matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each year is no information, but when you tell how you made the hens lay then you tell something of value.

Poultry Keeper is recognized as the best practical poultry paper published. Our success is based on this reputation. Will you tell your friends about us; or better still, send us the names and addresses of persons interested in poultry so that we may send sample copies for their inspection. This will help us greatly. May we hear from you?



**No Guessing**

You know in advance what will come if the eggs are fertile when you use the self-regulating

**Successful**

**Incubators and Brooders**

The machines for busy people and the inexperienced because they run themselves. That's the unqualified experience of thousands. The same under all conditions. Eastern orders have prompt shipment from the Buffalo House. 100 pens of Standard fowls. Incubator catalogue free, with poultry catalogue ten cents.

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**USE SKIM MILK.**

Skim milk is a food which contains muscle and flesh forming material in a form to be readily taken up and digested by the system. Milk that has been skimmed has really lost but a small amount of its value as a food, the cream consisting considerably of fat, which in itself is the least nutritious part of the milk, except to create warmth. The cheesy matter left in the milk is its most valuable part for food, and tends to produce a vigorous, healthful growth when fed to calves, pigs and chickens. If chickens were fed less corn and more skim milk it would not only be to their lasting benefit, but it would also eventually result in financial benefit to the farmer.

Have a place for the storage of leaves under shelter and they will be found equal to anything that can be procured for the use of the hens in winter. They afford the best material in which to scratch and also prevent drafts of air along the floor. Along with the leaves lay in a plentiful supply of dry dirt and the winter work will be lessened.

**NORTH-WESTERN POULTRY**

**FARM.** Breeders and Shippers of Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Buff and White Cochins, Light Brahmas, Black Langshans, Black and Buff Bantams, Minorcas, S. S. Hamburgs, Cornish and White Games. All Birds shipped score 90 and upwards. Prices right.

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MY BARRED ROCKS are as fine and big as ever. Try them. Cockerels, \$2. Roger Talbot, Brook, Ind 11-1

A FEW CHOICE Buff Orpington cockerels for sale cheap. G. L. Beard, Layton, Ill. 11-3

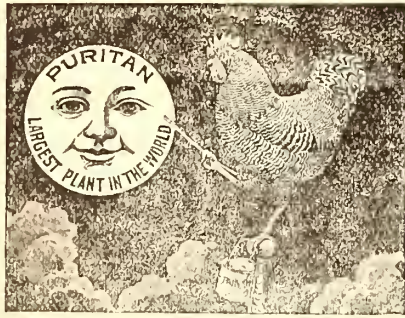
R. C. W. LEGHORN cockerels for sale from birds that have taken first prizes at Brockton and Barnstable fairs. E. L. Hoxie, Cotuit, Mass.

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**PURITAN CHICK FOOD....**

is bound to revolutionize the poultry raising industry of this country—in fact it is doing so very rapidly wherever used. We want all those that have not already tried it to do so at once. We are leaving no stone unturned to get everybody to do so. Just to try it, that's all. The food will soon convince you that you cannot possibly raise chicks for profit without it. It will positively stop that dreadful mortality amongst your chicks. That is what causes everybody to despair so in the poultry business. It is sold to you under that guarantee.

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**T**HAT'S your protection. No ifs and odds about it. No conditions of any kind. It will and it must. If not, why then you are not out one single penny. You get your money back, every cent of it, and also the transportation charges you have spent in getting the food to you. All that it costs you is one cent for a postal card to us.

We would not, we could not urge you to try this if we did not know what the result would be, and if you would not benefit greatly thereby, for if you do not benefit we are the losers, not you. This fact, and the voluminous testimony of all those that have once used the food must convince you that our extraordinary claims are just.

This unheard of offer really admits of your buying the food under a Positive guarantee—a guarantee that means something. Compare this for a moment with other "guarantees."

Incubator manufacturers, for instance, in some cases sell you their goods "on trial." But what does that mean? You try the machine, and if you are not satisfied you can return it at the end of a certain time limit, usually 30 days. It takes 21 days to hatch your birds. The machine must be uncrated and set up, and then run for three or four days more prior to using, then it will probably be the 22d day of the hatch before you can take your last chick out, and you must then recreate the machine, if you are not satisfied, and truck it down to the depot. If you can do all this in the 30 days, you will get your money back, provided the bank that holds it in trust has not turned it over to the company, the time limit having just expired. Thirty days is a very narrow margin. Even so, you are out the freight both ways, and the company gets their goods back. Now see the difference: You try the food—a five pound box. Use it all up. Take your time about making up your mind. If it fails to live up fully to all our claims, demand your money back; return us nothing. You simply say, "I am not satisfied," and your money is promptly refunded, and we pay the express charges! Will you resist an offer such as this? We trust not. Send to-day to our nearest dealer, a comprehensive list of which follows and drop us a postal, and we will keep your name on our mailing list and send you all our printed matter as soon as issued, and our elegant Free new catalogue, which will be far more interesting even than the last. We want to keep in touch with you, and want you to feel that our welfare is mutual.

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|                                               | Dayton            | Ohio      | Montgomery     | West              |
| Jas. F. Wright                                | Worthington       | Ohio      | Franklin       | Center            |
| Peoples' Forwarding Co                        | Salt Lake Cy.     | Utah      | Salt Lake      | Center            |
| <b>WESTERN—(Continued).</b>                   |                   |           |                |                   |
| Fobes Seed Store                              | Plymouth          | Ind.      | Marshall       | North             |
| Wernich seed Co.                              | Milwaukee         | Wis.      | Milwaukee      | Northwest         |
| John A. Salzer Seed Co.                       | La Crosse         | Wis.      | La Crosse      | West              |
| L. L. Olds                                    | Clinton           | Wis.      | Walworth       | Southeast         |
| Royce & Passmore                              | Detroit           | Mich.     | Wayne          | Southeast         |
| Jones Seed Co.                                | Gr. Rapids        | Mich.     | Kent           | West              |
| Curtis Bros.                                  | Reed City         | Mich.     | Osceola        | Center            |
| Economy Supply Co.                            | Battle Creek      | Mich.     | Calhoun Co.    | South             |
| Chester M. Lake Mer. Co. St. Joseph,          |                   | Mo.       | Buchanan       | Northwest         |
| C. S. Hunting                                 | 3817 E. 13 St.    |           |                |                   |
|                                               | Kans. City        | Mo.       | Jackson        | West              |
| Wm. T. Moore                                  | St. Louis         | Mo.       | St. Louis City | East              |
| Owen & Co.                                    | Topeka            | Kan.      | Shawnee        | East              |
| J. L. Troup                                   | Concordia         | Kan.      | Cloud          | North             |
| Edgar Padelford                               | Barnes            | Kan.      | Washington     | North             |
| Jos. A. Jacobs                                | Belleville        | Kan.      | Republic       | North             |
| Delmar Putnam                                 | Green             | Kan.      | Clay           | North             |
| Archias Seed Store                            | Carthage          | Mo.       | Jasper         | Southwest         |
| Seldomridge Bros.                             | Colo. Springs     | Colo.     | El Paso        | Center            |
| Voigts Sons                                   | Ft. Madison       | Iowa      | Lee            | Southeast         |
| C. H. Sherman & Sons                          | Fredricksb'g      | Iowa      | Chickasaw      | Northeast         |
| L. Matthews                                   | Mlan ia           | Ind. Ter. | Ottawa         | Northeast         |
| H. S. Fletcher                                | Watertown         | S. D.     | Codington Co.  | East              |
| Jacobson Bros.                                | Waconda           | S. D.     | Clay           | East              |
| Arnold E. Kealy                               | Vancouver         | Canada    | B. C.          | West              |
| <b>NORTHERN.</b>                              |                   |           |                |                   |
| Graham Bros.                                  | Ottawa            | Canada    | Ontario        | South             |
| A. J. Morgan                                  | London            | Canada    | Ontario        | South             |
| J. Raoul Co-ter.                              | Bic Rimouski      | Canada    | Quebec         | East              |
| <b>SOUTHERN.</b>                              |                   |           |                |                   |
| Fanciers Supply Co.                           | Richmond          | Va.       | Henrico        | Center            |
| J. H. Matthews                                | Stanton           | Va.       | Augusta        | West              |
| Forfolk Farm Supply Co.                       | Norfolk           | Va.       | Norfolk        | Southwest         |
| W. W. Kulp                                    | Pottstown         | Pa.       | Montgomery     | Southeast         |
| W. M. Roeder                                  | Hosensack         | Pa.       | Lehigh         | Southeast         |
| Woodlawn Poultry Farm                         | Johnstown         | Pa.       | Cambria        | South             |
| W. J. Magee                                   | Oil City          | Pa.       | Venango        | Northwest         |
| R. A. Hannah & Co.                            | Sharon            | Pa.       | Mercer         | West              |
| Electra M. Craig                              | Waycross          | Ga.       | Ware           | Southeast         |
| Alexander Seed Co.                            | Augusta           | Ga.       | Richmond       | East              |
| F. J. Marshall                                | Atlanta           | Ga.       | Fulton         | West              |
| Griffith & Turner                             | Baltimore         | Md.       | Baltimore      | North             |
| Waggoner & Bro                                | Johnsontonville   | Tenn.     | Humphreys      | West              |
| A. A. Chickering & Co.                        | Louisville        | Ky.       | Jefferson      | North             |
| H. M. Collins                                 | Charleston        | N. C.     | Charleston     | Southeast         |
| B. S. Davis                                   | Charlotte         | N. C.     | Mecklenburg    | South             |
| Barber's Drug & Seed Store.                   |                   |           |                |                   |
|                                               | Birmingham        | Ala.      | Jefferson      | Center            |
| A. F. Kotzebue                                | Moulton           | Texas     | Lavaca         | South             |
| The Norton Poultry Yds.                       | Dallas            | Texas     | Dallas         | Northeast         |
| Ed. S. Chmid                                  | Washington        | D. C.     | Dis. of Col.   | West              |
| Wm. A. Bours & Co.                            | Jacksonville      | Fla.      | Duval          | Northeast         |



**SUCCESSFUL WINTERING OF DUCKS FOR EARLY HATCHES.**

(Continued from Page 290.)

birds a day, and of all the dirty messes that we made of the work! When my woman's record reached eight ducks picked in a day, we felt decidedly elated and ready to compete with the world. As for those statements of thirty birds a day—they were simply fakes. If we could not do it, no one else could! And yet at the end of my first season Mrs. Bombard got her thirty-bird record. The largest number Clovernook's mistress ever picked was seventeen.

It is claimed that when ducks are three months old, just, they pick smooth and fast and have no pin feathers; but that after that, for the next four weeks, they are covered with either fine down or pin-feathers; either of which condition makes very tedious work. When we have short pin feathers that will not pull out without mutilating the bird, we snip them off close with scissors. For market, the last joint of the wings is left feathered, and about half way up the neck.

**A Lively Market and Good Prices.**

We are closing down this fall on a quite successful season. We had no advance over last year on feed stuff and prices on ducks were decidedly better. While we shipped more birds and our market stock weighed much heavier than heretofore, the consumption of grain was less.

The outlook for poultrydom next year is, to me, most encouraging. A lively market and good prices promise to rule.

**Encouraging Prospects.**

Clovernook, with all its nice conveniences and improvements, feels "quite in the swim" and looks forward to a spry, a noisy and, it is hoped, a profitable new year. There is certainly a very decided advance over last year in our Pekin breeding flock, White Wyandottes, White Holland Turkeys and White Homer Pigeons, and really I think the whole big farming interest of our entire country should have a great, hearty Thanksgiving this year, for the crops did look so discouraging at one time and have turned out so much better than any of us dared hope.

**What Poultry Keeper Has Done.**

Editor Poultry Keeper.

Results from my ad in P. K. have been very satisfactory—so much so that I shall renew another year. I have advertised in all the leading poultry journals and have discarded all but two of them, and Poultry Keeper is one to stay. I shall breed eight varieties this season—Barred Rocks, White Wyandottes, Single and Rose Comb R. I. Reds, S. C. W. Leghorns, S. and R. C. B. Leghorns and Light Brahmas. I expect to put in double the amount of stock for spring trade and will be able to fill orders promptly. C. B. Huff.

Delaware, N. J.

**999 Questions and Answers.**

The latest book on poultry is 999 Questions and Answers, by Frank Heck. There are 150 pages of practical information, tersely put. Price, 50c. For 75c we will furnish a year's subscription to Poultry Keeper and send copy of book postpaid. Address Poultry Keeper Publishing Company, Quincy, Ill.

J. F. Scholz, Erie, Pa., has an extra lot of good stock this fall (Golden Wyandottes) and is well fixed to fill orders—ad on page 322. Mr. Scholz has one of the best strains of Golden in the country.

**BREEDERS' CARDS.**

The "Breeder's Cards" style of advertising (see page 328) is especially suited to the breeder on a limited scale, who at a nominal sum can dispose of his surplus stock and eggs at a considerable profit. The cost of these ads is a trifle as compared with the returns. Our regular issues are 25000 copies per month and every copy printed goes direct to some one who is interested in poultry. It is as much to our interest as yours that we get into a good field. Rates for "Breeder's Cards" are as follows:

One month..... 3c per word  
Two months..... 6c per word  
Three months..... 9c per word  
Four months..... 10c per word

This means that you can advertise in 100,000 copies of Poultry Keeper at a cost of but ten cents per word for four months. The very best months of the poultry year are December, January, February and March. A thirty-word Breeder's Card for these four months would cost but \$3. The returns received will pay many times over. All ads are classified under attractive headings. Remember, we issue the fifteenth of the month. Questions cheerfully answered. Poultry Keeper Pub. Co., Quincy, Ill.

At Hagerstown, W. W. Kulp, of Pottstown, Pa., won as follows on Rose Comb Brown Leghorns: 1 hen, 1 pullet—in large classes.

**First Mark Your Chick**  
In keeping a record of your chicks of the different breeds, hatches, strains, etc., the mark must be absolutely individual.  
**THE Reliable Marker, 35c.** Postpaid, makes mark in small web between toes. Chick can then run with flock until you want him. Leverage makes marking easy. 20th Century Poultry Book tells all about full line of supplies and our 126 yards of thoroughbred stock. Sent for 10 cents.  
Reliable Incubator and Brooder Co., Box A 15, Quincy, Ill.

**90 Days' Trial**

We sell more reliable merchandise by mail than any house in the world. Volume of sales regulates prices. No firm can undersell us on reliable goods; we refuse to handle the other kind.

**Our Oakland Machine** 825  
Our Oakland Machine at \$8.25 is warranted for 5 years and is the best machine on the market at the price.

At \$12.75 our Amazon is as good as the regular \$20 kind; is beyond comparison with other machines at this price. 1275

For 1450  
our Brunswick Seven Drawer, High Arm, Ball Bearing, Drop Head Machine is a beauty, one that will do all kinds of work and can be depended upon. Price is much lower than any other firm asks for equal quality. Mounted on handsome Automatic Drop Desk Quartered Oak Cabinet like picture, only 1695

**Free Catalogue**  
of Sewing Machines containing our 90 days' free trial offer, sent on request. Write for it today.  
**MONTGOMERY WARD & CO.**  
CHICAGO

**\$2.00 FOR \$1.00**

We will send you each of the publications named in any of the four combinations for one dollar, Postage Free from publishers for a full year:

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| Poultry Gazette, monthly.....\$ .35        | Poultry Gem, monthly..... .25           |
| Wichita Poultry World, monthly..... .25    | Western Poultry World, monthly..... .25 |
| Oklahoma Farm Journal, semi-monthly... .50 | Fanciers' Gazette, monthly..... .50     |
| Western Poultry Journal, monthly..... .50  | Poultry Keeper, monthly..... .50        |
| Mid-West Fancier, monthly..... .50         | Mid-West Fancier, monthly..... .50      |

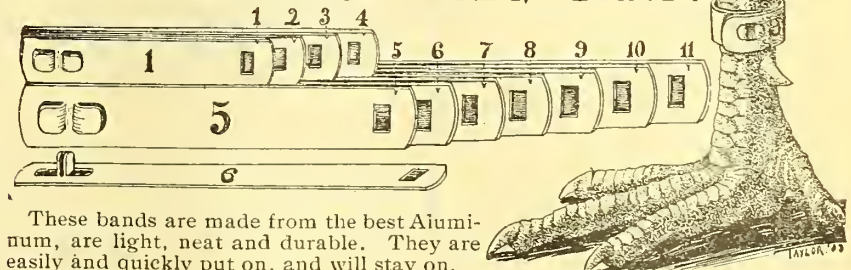
|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| <b>Publishers Price</b> .....\$2.10        | <b>Publishers Price</b> .....\$2.00         |
| Poultry Items, monthly..... .25            | American Poultry Advocate, monthly..... .25 |
| Poultry Topics, monthly..... .25           | Inland Poultry Journal, monthly..... .25    |
| Fancy Fowls, monthly..... .50              | Oklahoma Farm Journal, semi-monthly... .50  |
| Michigan Poultry Breeder, monthly..... .50 | Fanciers' Gazette, monthly..... .50         |
| Mid-West Fancier, monthly..... .50         | Mid-West Fancier, monthly..... .50          |

**Publishers Price**.....\$2.00      **Publishers Price**.....\$2.00

Send for our circular giving over 5000 combinations, if these do not please you. **60 VARIETIES OF FANCY FOWLS GROWING FOR THE FALL TRADE.**

**OMEGA POULTRY YARDS, BOX K, OMEGA, OKLAHOMA.**

**IDEAL ALUMINUM LEG BAND.**



These bands are made from the best Aluminum, are light, neat and durable. They are easily and quickly put on, and will stay on.

**PRICES:**—12, 15 cents; 25, 30 cents; 50, 50 cents, and 100, 75 cents; by mail post paid. When ordering, please name the kind of fowls you wish bands for.

Enclose 2c. postage for sample. **FRANK MYERS MFG. CO., Box 37, Freeport, Ill.**



COLUMBIA SCHOOL OF  
POULTRY CULTURE.

(Continued from Page 297.)

try culture cannot fail to be of national benefit, inasmuch as the industry is daily becoming more and more important, and the field of its profit is becoming larger and larger with the steady growth of our population.

The readers of Poultry Keeper who may be interested in this subject should write to the school at Waterville, Box 102, N. Y., and Poultry Keeper wishes them and the school every success for the future.

Those of our readers who wisely took advantage of the Farm-Poultry and Poultry Keeper combination offer made in the early part of the year are undoubtedly congratulating themselves upon their foresight. Our big eastern contemporary during the past months has upheld its reputation for giving its readers the very best poultry literature to be had. In the matter of timely subjects, appropriate illustrations and sound, practical, common sense teachings it is second to none. An evidence of its enterprise is the intention this year, as heretofore, to give full reports of the winnings at the different shows, a feature which appeals strongly to those who desire all the show news. Farm-Poultry, published the 1st and 15th of every month, is usually \$1 per year, but for a limited period a special proposition is made of two full years (48 numbers) for only \$1. Any one desiring to take advantage of this liberal offer should do so before it is withdrawn. A sample copy will be sent free upon request.

The best roosts are made from a piece of 2x3-inch scantling, flat side up, the centre being supported by an upright post, if the roost is very long. There is no necessity for having the roost more than six inches from the floor, as high roosts only serve to injure the birds when getting on or off. All roosts should be movable so they may be taken outside to be cleaned.

#### Bird's Economical Roofing.

Those old reliable manufacturers of low priced roofings, F. W. Bird & Son, of East Walpole, Mass., with branch house in Chicago, have again entered upon their seasons advertising in P. K. (See page 281.) This concern is fortunate in the possession of two of the best of the cheaper roofings on the market. Their Neponset Red Rope roofing is the cheaper of the two, and is specially adaptable to the roofing and the siding of poultry houses, out buildings, sheds, etc. While it is not claimed to be a permanent roofing, yet many are the instances where it is still in good condition after having done duty ten or twelve years. This quality, together with the ease of laying it and the exceedingly low price at which it is sold, have made it a familiar sight in all parts of the country. The Paroid roofing is of a highly permanent character. It is a fabric, not a paper, there's no tar in its composition. It never gets brittle or cracks and it is noted for its smooth flat laying and great length of service to be obtained from it. Its qualities adapt it to use for more pretentious buildings, as barns and even fine residences. For such service the price is exceedingly low, though sold, of course, for a higher price than the Neponset. Both roofings are alike in this, that a complete roofing kit accompanies each roll and anybody can lay them. Building Economy, a booklet about low priced roofing distributed by the manufacturer, is well worth reading. It is mailed free if you name P. K.

### RIVERSIDE POULTRY YARDS, Box D, DELAWARE, N. J.

**\$5** Buys a Trio of choice Barred Plymouth Rocks, White Wyandottes, Single and Rose Comb R. I. Reds, Single Comb White, Single and Rose Comb Brown Leghorns and Prize winning Light Brahmans. Choice yearling hens, \$1.25 each. Choice cockerels, \$1.50 up; pullets, \$1.25. Send me a trial order and get good stock. 15 years experience. Circular free if you mention Poultry Keeper. C. B. HUFF, Prop.

### Few people know just what to do for MOULTING FOWLS.

We were a long time finding out just what was best. We know now; so does everyone else who has ever tried

## STAR MOULTINE



Like all other Star Products it works to perfection when moulting time comes. Star Moulting makes chickens get down to business, finish moulting, and get back promptly to their fall work of laying eggs. Try it just once and you never again will be without it. Money back if not satisfied. Price 25c. per lb., by mail, 40c. If you keep fowls send us your address and we will send you our catalogue of Incubators, Brooders and Supplies. There are things in it you need.

**STAR INCUBATOR & BROODER CO., Bound Brook, N. J.**  
New York; 216 Fulton St.

# MILLVILLE YOUNGSTERS

WILL WIN AND BREED WINNERS FOR YOU.

THE GRANDEST LOT OF

## Barred and Buff P. Rocks, Buff and White Wyandottes and Pekin Ducks

we ever raised are now ready to ship. We can sell you choice show birds or carefully mated breeding pens that are line bred from our winners at

New York, Boston, Philadelphia and Other Leading Shows.

Sure winners in young or old at prices that will please you. Remember, if unsatisfactory, we pay return charges and cheerfully refund your money. Our catalogue will tell you our record, and our methods. Would you like it?

**MILLVILLE POULTRY FARM CO., Box 1, M. F. Delano, President, Millville, New Jersey.**

# How to Make Money with Poultry and Incubators

Is the title of the Cyphers Incubator Company's Complete Catalogue and Poultryman's Guide for 1903, which thousands of people have pronounced to be the finest and most valuable Year Book we have issued thus far, and we have been pace setters in the production of Valuable Poultry and Incubator Literature. This book consists of 196 pages, 8x11 inches in size, is profusely illustrated with over 300 half-tones made from photographs, showing the Largest and Most Successful Poultry Plants in the United States, Canada, England, New Zealand, South America, etc., and contains Twelve Special Chapters, covering all branches of profitable poultry keeping, Each Written by an Expert expressly for this book, as follows:

- I Starting with an Incubator
- II Handling Chicks in a Brooder
- III Feeding the Chicks
- IV Duck Producing on a Large Scale
- V Broiler Raising
- VI Profitable Egg Farming
- VII The Egg and Poultry Combination
- VIII Egg and Fruit Farming
- IX Scratching Shed House Plans
- X Incubator Cellar and Brooding House Plans
- XI Feeding for Eggs
- XII Standard Bred Poultry

### This Book is Free,

But we respectfully ask you to send ten cents in stamps or silver to pay postage. Positively and emphatically, it should be worth Ten Dollars to every earnest man or woman who wishes to do well in the poultry business. If we did not mean this, or did not believe you would agree with us on examining the book, we could not afford to say it, for we depend on this Guide and Catalogue to win your friendship

for our line of manufactures. Send ten cents for book No. 28 with this understanding and we will abide by your decision.

### Separate Poultry Supply Catalogue for 1903, Free,

postpaid, to any address. 64 pages, 8x11 inches. Illustrates and describes "Everything for the Poultryman"—120 standard articles, including Poultry Foods, Clover Products, Insecticides, Bone Cutters, Food Cookers, Latest and Best Poultry Books, etc.

Write to-day for both of these instructive publications. They will help you succeed in your poultry work. Kindly mention this paper and address our nearest office.

### CYPHERS INCUBATOR COMPANY,

BUFFALO, N. Y.  
Factory and Home Office.

CHICAGO, ILL.  
319 Fifth Avenue.

BOSTON, MASS.  
34 Merchants' Row.

NEW YORK, N. Y.  
23 Barclay St.



**MAKING THE HOUSE WARM.**

When the floor of a poultry house is covered to the depth of from two to six inches with litter, such as dirt, cut straw, refuse hay or leaves, there is not only a protection against loss of heat and the prevention of cold currents from below, but the drafts of air which flow across the floor are prevented. The additional comfort of a poultry house by the use of such litter will be appreciated by the hens; they will be more active, and will also keep busily employed in working in the litter.

A successful poultryman once remarked that he gave more attention to keeping the floor of the poultry house clean than he did to the food. His reason was that no amount of food would enable the hens to lay if they were not kept warm and busy; but if warm, they would lay even if the food was only of the ordinary kind.

Litter is cheap, and there is no reason for neglecting its use. A straw cutter should be kept not only to cut straw for litter, but also to cut clover for the fowls. If the straw is cut in lengths of about six inches it is all that is required.

The price of winter eggs will be high. Middle-fall eggs are selling higher than for years. Help start the birds to laying by giving them a bin of meat scraps that they can go to at all times. It pays well to stimulate the pullets to early laying. A little black pepper, or ginger, in the warm mash will appeal to the appetite of all your flock these cool mornings. Don't over feed, but just give what they will eat in ten minutes. Then set them to work scratching in the litter of the house. Good food and a moderate amount of exercise will help the filling of the egg basket.

The price of the American Standard of Perfection, the authorized guide to the breeding of standard bred poultry, is \$1. We buy this book in wholesale lots and give our subscribers the benefit of our low price. For \$1.25 we will send the Standard of Perfection postpaid and a full year's subscription to the Poultry Keeper. Address Poultry Keeper Pub. Co., Quincy, Ill.

**The Youth's Companion in 1904.**

As the years increase the Youth's Companion endeavors to keep pace with them in all that is wise, beautiful and progressive, and not only to retain but to deserve the honorable and exceptionally high place it holds in the confidence and affection of three generations of readers. The greatest living authors in all branches of literature continue to contribute to it. Among the important series of articles will be one on the occupation of the farmer in many parts of the world—in England, in Ireland, in India, in Argentina, etc. The annual Announcement Number of the Companion, describing the principal features of the Companion's new volume, will be sent to any address, free. The new subscriber for 1904 will receive all the issues of the Companion for the remaining weeks of 1903 free from the time of subscription; also the Companion Calendar for 1904, lithographed in twelve colors and gold. The Youth's Companion, 144 Berkeley St., Boston, Mass.

It is seldom that such an opportunity presents itself as is offered by Chas. M. Clime, Terre Hill, Pa., who is offering his entire stock of S. C. Buff Leghorns and White Langshans for sale without reserve. Mr. Clime has spent years in perfecting his strains of these two varieties, and that he has met with success is evidenced by his winnings at America's larg-

est shows, including Boston, New York, Washington, Atlantic City, Newark and Saratoga. Other business interests demand his entire time and attention, and he is compelled to sell his entire stock. Here is an opportunity for some one to get the benefit of the years of study and experience of one of the best breeders in the country. Mr. Clime will sell in quantities to suit purchasers, and in order to dispose of them in the shortest time possible will make the prices remarkably low. See ad on page 281. Write him at once.

The brisk attack on snobbery that was a leading feature of the October Everybody's has been followed up in the November issue by a significant article on "Successful Men Who Are Not Rich." Success without money seems anomalous to the modern American; yet, on reflection, the most eager devotee of plutocracy cannot deny that such men as Senator Hoar of Massachusetts, President Eliot of Harvard, Dr. Rainsford and General Joe Wheeler are, in the best sense of the term, successful. And the private income of the most successful men in the United States to-day—Theodore Roosevelt—is said to be well under \$7,500 yearly. It is good to be reminded of these triumphs that are not measured in dollars.

"I have 40 chicks from a pair mating, 15 males that will make a good showing in our coming show," writes A. P. Winslow, the Barred Rock specialist of Freeport, Maine. The dam of these birds has laid 179 eggs from Jan. 15 to date, thus proving that prolific laying and exhibition qualities can be combined in the same birds." For stock for sale see ad on page 321.

**We Want You to Try Us**

To send us a trial order and test our ability to satisfy you in every particular. We have special catalogues on almost every line you can think of. Tell us what kind of goods you are interested in, and we will send you, absolutely free, any of the following illustrated catalogues quoting wholesale prices. Be sure to mention the one you want, and we will send it Free of Charge.

- |                                                                              |                     |             |
|------------------------------------------------------------------------------|---------------------|-------------|
| Furniture                                                                    | Stationery          |             |
| Farm Implements                                                              | Toys                |             |
| Vehicles                                                                     | Musical Instruments |             |
| Sewing Machines                                                              | Silverware          |             |
| Hardware                                                                     | Carpets and Rugs    |             |
| Crockery                                                                     | Underwear           |             |
| Glassware                                                                    | Groceries           |             |
| Stoves                                                                       | Bicycles            |             |
| Sporting Goods                                                               | Baby Carriages      |             |
| Harness                                                                      | Dry Goods           |             |
| Blacksmith Tools                                                             | Photographic Goods  |             |
| Dairy Goods                                                                  | Notions             |             |
| Telephones                                                                   | Books               |             |
| Electrical Goods                                                             | Shoes               | 33 Years    |
| House Paints                                                                 | Millinery           | in the Same |
| Watches                                                                      | Cloaks              | Business    |
| Drugs                                                                        | Furs                |             |
| Men's and Boys' Suits (both Ready-Made and Made-to-Order) including Samples. |                     |             |

If you desire our complete catalogue, a book of over 1100 pages, and weighing 3½ pounds, send for Catalogue No. 72, and enclose 15 cents in either stamps or coin. The small catalogues are free. Buy your goods at wholesale prices.

**MONTGOMERY WARD & CO.**  
Michigan Avenue, Madison & Washington Streets  
**CHICAGO**



# The Ideal

This is the Incubator which is **Made by the Man Who Knows.**

You will find it just as successful in your poultry operations as he found it successful in his. He made it so it cannot fail. You put in fertile eggs and follow the few simple directions and Miller guarantees results. Entirely automatic in heating, ventilating and supplying moisture.

**THIRTY DAYS TRIAL**

will be given to anybody, anywhere. If it isn't any good you will find it out by that time. That's a fair proposition isn't it? The Ideal Brooders are the equal of the Incubators. Don't buy until you get Miller's Big Book, FREE.

**J. W. Miller Co., Box 19, Freeport, Ill.**

**Young Stock Now Ready to Ship**  
**FROM STANDARD-BRED STOCK.**

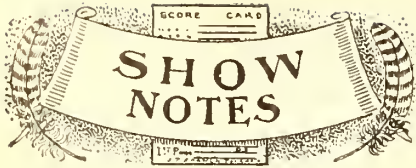
Guaranteed true to name and first-class Stock. Have Hundreds of breeding birds, all varieties. We have all varieties of

- Plymouth Rocks, Wyandottes, Leghorns,  
Minorcas, Cochins, Langshans, Brahas, Indian  
Games, Andalusians, Bantams, Black Spanish, Etc.  
Red Caps and White Crested Black Polish.

You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue, price 4 cts. Mention Poultry Keeper.

**Northwestern Poultry and Fruit Farm,**  
**WALTER SEIDEL, Prop., Box K, Eleroy, Ill.**





The Plow City Poultry and Pet Stock Association will hold a show at Moline, Ill., Dec. 17-20. O. Hogberg, secretary.

The Frankfort (Ind.) Poultry Association will hold a score card show Dec. 14-20, with W. C. Pierce as judge. Henry Wolf, secretary.

The Will Co. Poultry Association will hold its annual show at Joliet, Ill., Dec. 28-Jan. 2., with W. S. Russell as judge. H. B. Humphrey is secretary.

Poultry Breeders of Ogle County, Ill., have organized an association and will hold a show at Oregon, Ill., December 29-January 2. L. H. Valentine, secretary.

The Auburn, Maine, Fanciers' Association will hold its third annual show January 18-22. Quihot, Foxton, Crocker and Shea will judge. Fred I. Roe, secretary.

The State Silver Cup offered by the National White Wyandotte Club will be given through the Napoleon Poultry Show, December 1st to 5th. E. Judson Davis, Secretary, Napoleon, Ohio.

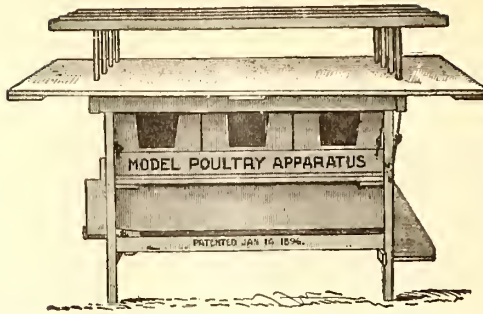
The Parkersburg-Marietta Poultry and Pet Stock Association will hold its second annual exhibition at Marietta, Ohio, Dec. 28-31, inclusive. Wick Hathaway judge. Jas. A. Davidson, secretary, Parkersburg, W. Va.

The Western New York Fanciers' Association will hold their show in the City Hall, Jamestown, N. Y., Dec. 8-12. George Burgott judge. This will be their first comparison show, and indications are that it will be their best. J. W. Morris is secretary.

The fifth annual exhibition of the Iowa City Poultry and Fanciers' Association will be held at Iowa City, Iowa, Nov. 24-27. Over \$400 will be given in cash premiums, besides a large number of silver cups and other specials. J. G. Marner, secretary.

The premium list of the Western Poultry Fanciers' Association's ninth annual show, to be held January 11-16, will be ready for distribution December 15th. If you expect to show in Iowa this season, get a copy—send name and address on a postal card—A. J. Smith, Secretary, Cedar Rapids, Iowa.

The next annual meeting of the American Buff Plymouth Rock Club has been



**PITTMAN'S MODEL POULTRY APPARATUS.**

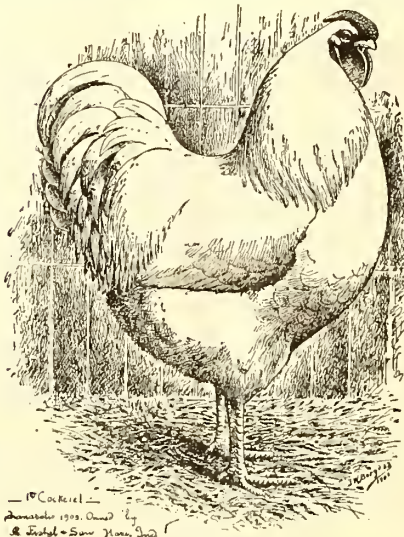
The most useful invention of the age for those who keep hens; the apparatus that it pays to use; the one that is admired by all who see it; the one every poultry raiser needs; stands without an equal in poultry house furniture. Complete illustrated plans and specifications for making in five sizes furnished for short time at half price. Can be made at home at small cost. Circular free if you mention Poultry Keeper.

C. PITTMAN, Dept. B, SANTEE, NEBRASKA.

**Standard of Perfection Free.**

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. THIS OFFER IS GIVING \$3 OF VALUE FOR \$2. A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

**Poultry Keeper Publishing Co., Quincy, Ill.**



**Fishel's White Wyandottes**

Show their supremacy once more. At the GREAT AMERICAN POULTRY ASSOCIATION SHOW held Sept. 14-18, 1903, in connection with the Indiana State Show,

**Fishel White Wyandottes**

Won 1st Cock, 1st and 3d Cockerels, 1st, 2d, 3d Pullets and 1st Breeding Pen.

In competition with birds from the far East, West, North and South, is still a proof that we have the

**WORLD'S BEST.**

We have something over 2000 BIRDS FOR SALE and know we are in better position to select birds to please you than those who have a few birds to select from. Please allow us the pleasure of figuring with you.

J. C. FISHEL & SON, Box K, Hope, Ind.



**PIONEER CLOVER MEAL. THE PERFECT POULTRY FOOD.**

**Genuine Northern New York Grown Clover**

We make announcement to the former customers of the Bennett & Millett Co., and Pioneer Milling Co., that we have secured the right and process to manufacture Pioneer Clover Meal and will now manufacture Pioneer Clover Meal in connection with our Champion Incubators and famous Champion Brooders. Every purchaser will secure prompt shipment in every case and if your order cannot be filled promptly it will not be accepted. If you wish your hens to lay when EGGS ARE THIRTY CENTS

A DOZEN, you must feed them Pioneer Clover Meal. It is clover hay ground as fine as middlings. There is absolutely no waste. Every ounce can be fed. The only substitute for green food and the only food which will make your hens lay when eggs are high. It is not a stimulant, but a natural food which supplies all parts of the egg and enables the hens to lay when deprived of green food from out of doors. Pioneer Clover Meal was awarded a SILVER MEDAL AT THE PARIS EXPOSITION as being the only perfect poultry food. If you wish eggs now, order a bag of Pioneer Clover Meal. Prices: 100 pounds delivered east of the Mississippi River on all main lines, \$2.25; 50 pound bag, f. o. b. factory, \$1.

**The World Famous Champion Brooders.**

The only Brooder in the world which can be operated out of doors in the severest winter weather with the thermometer down to zero and below equally as well as indoors. A perfect brooder house which requires no shelter. The only brooder made having a SAFETY COMPARTMENT, DOUBLE FLOOR or EASY CHICK FEEDER, which teaches the chicks to eat and drink. Over fifty thousand of our brooders in use. Send for catalogue and be sure to mention Poultry Keeper.



**J. A. BENNETT & SON, Gouverneur, N. Y., U. S. A.**



ordered, by the executive committee, to be held in Madison Square Garden, New York City, during the New York poultry show, on January 6, 1904. All members of the club are requested to attend. Those who intend showing and who are not members should join immediately, if they wish to be eligible to compete for club prizes. For particulars address W. C. Denny, secretary and treasurer, Rochester, N. Y.

During the coming show season the members of the Buff Plymouth Rock Club living in Connecticut, Illinois, Iowa, Massachusetts, Michigan, Missouri, New York, Ohio and Pennsylvania will compete for nine silver cups, one being offered by the club to the members in each of the above states for having ten or more members. The place for the competition to these cups is left to the members of each of the several states. The state vice president has charge of the vote in his state. The club is willing to donate a cup to the breeders of every state in the Union if they will comply with the conditions which call for ten members in good standing on the books from any one state. The annual catalogue will be issued as soon as possible after the annual meeting which is to be held in New York on January 6, 1904, during the New York poultry show. The secretary, W. C. Denny, Rochester, N. Y., will send further particulars and a catalogue for two cent stamp.

**The Chicago Show.**

The eighth annual exhibition of poultry, pigeons, cats, dogs and pet stock, under the auspices of the National Fanciers' and Breeders' Association of Chicago, will be held Jan. 25th to 30th, inclusive, A. D., 1904. The officers of this association are: E. B. Eddy, president and director; E. J. W. Dietz, vice president and director; Fred L. Kimmey, secretary and director; George G. Bates, treasurer and director; Grant Curtis, J. Lewis Draper, W. C. Hill, Prof. E. L. C. Morse, M. Wagner and Frank B. White, directors; H. N. Norton, superintendent and director, and K. J. Muir, superintendent of pigeons.

The judges engaged now are: John Glasgow, Frank Heck, Charles McClave, L. S. Jansen, James A. Tucker, Dr. O. P. Bennetts, T. E. Orr, Sharp Butterfield, C. E. Twombly, T. F. McGrew, Oscar Rehe, E. W. Rankin, Thomas F. Rigg, Theo. Hewes, D. J. Lambert, George H. Burgett. Correspondence is now being had with other well known and leading judges and there may be additions to this list.

Arrangements have been made with the Central Passenger Association for railway excursion rates for this occasion.

Premium lists will be sent out Dec. 1st to 15th, 10,000 copies will be mailed. It is the intention to send to all interested per-

sons, but if by mistake any should be missed, or if information of any kind is desired, apply in person or by mail to Fred L. Kimmey, Secretary, 1213 Manhattan Building, 315 Dearborn St., Chicago, Ill.

**The Practical Pigeon Book.**

There is a great demand at present for a good, up-to-date pigeon book, and the new "Practical Pigeon Book" supplies this need. It is a work of 163 pages and cover, well printed on good paper, extensively illustrated with new high-grade half-tones and etchings. It describes the different kinds of pigeons and tells how to feed and care for them. Price of the book is 50c, postpaid. We will send it in combination with a full year's subscription to Poultry Keeper for 75c. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**OYSTER SHELLS** Crushed for poultry. Fresh from Baltimore factory, 50 cents per 100 lb. bag; one-half ton, \$3.50; one ton, \$6.50. **Mica Spar Cubical Poultry GRIT** The best grit yet produced. 80 cts per 100 lb. bag; one-half ton, \$6.50; one ton, \$12. Catalogue free. **CANFIELD COOP CO.**, 31 Main St., Bath, New York 9-x

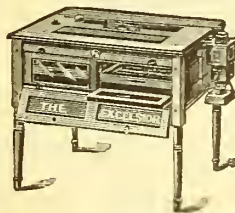
**THE LITERARY DIGEST**

"All the Periodicals in one"—The busy man's best friend—at least so say its hundred thousand subscribers. \$3 a year, 10c. a copy. 30 Lafayette Place, N. Y.

**THE LITERARY DIGEST**

**Hatch Chickens by Steam,**

with the simple, perfect, self-regulating

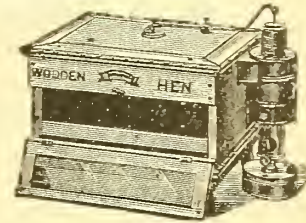


**Excelsior Incubator,**

Thousands in successful operation. Guaranteed to hatch a larger percentage of fertile eggs, at less cost, than any other hatcher.

**Lowest Priced First-class Hatcher Made.**

**THE WOODEN HEN,**



The most efficient incubator for raising poultry on a small scale ever invented. A perfect hatcher—automatic, self-regulating, thoroughly constructed, fully guaranteed.

**50-egg Capacity.**

Catalogue free.

**GEO. H. STAHL,**

Patentee and Sole Manufacturer, 114-122 S. 6th st., Quincy, Ill.

**SIMPLY WONDERFUL**

how, at nearly every poultry show being held, the winners in the

White Plymouth Rock Class are Birds Direct from or Descendents of the....

**Fishel's White Plymouth Rocks**



Our last exhibit at American Poultry Ass'n. meeting at Indianapolis, Ind, September 14-18, 1903, the Fishel White Rocks won 1st, 2d, 3d prize cock; 1st, 2d, 3d prize hen; 1st, 2d, 3d prize cockerel; 1st, 2d prize pullet; 1st, 2d, 3d prize pen.

What better proof can I give you as to the excellent quality of this season's matings? At Chicago, Atlanta, New York State Show, St. Louis, Indianapolis,

Great Crystal Palace and Dairy Shows, England, my birds have won the leading prizes, I have something over 4000 birds to sell. Exhibition birds able to win anywhere.

Send a 2 cent samp for my 36-page Catalogue. It gives half tones of my winners, tells how to feed, etc.

**FOX TERRIERS  
....FOR SALE....**

**U. R. FISHEL, Box K-2, Hope, Indiana.**



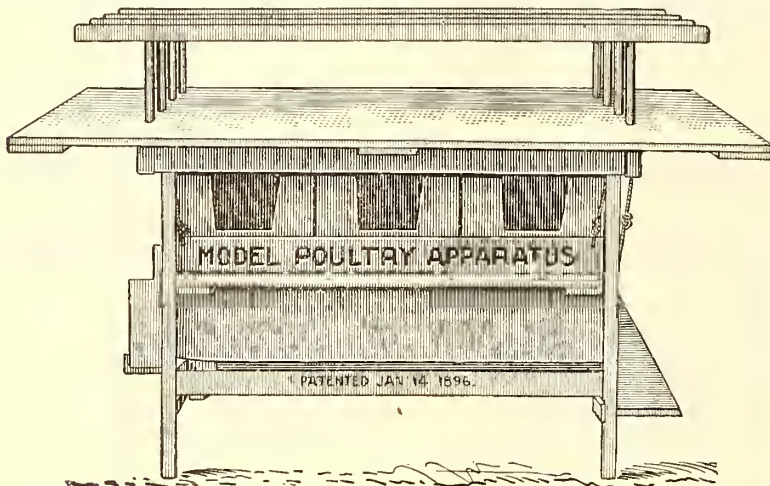
## The Poultry Keeper

### The Model Poultry Apparatus.

Mr. C. Pittman, of Santee, Nebraska, is now making one of the most liberal offers ever made to up-to-date poultry raisers. He is making a special offer, by accepting which you can get a farm-right and complete plans for making his Model Poultry Apparatus, for only \$1.25—just half the regular price. Every wide awake poultry raiser should take advantage of

the poultry house can easily be kept clean and pure. Lice and mites will be things of the past, and egg eating is out of the question. The food is always clean and pure and it is impossible for any of it to be wasted.

Although this is the first season that the Model Poultry Apparatus has been offered to the public, yet Mr. Pittman writes that poultry raisers in all parts of the United States and in Canada have been getting his farm rights and plans



The Model Poultry Apparatus, plans for making which are supplied by the inventor, Mr. C. Pittman, Santee, Neb., Dept. B.

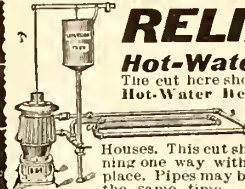
this offer and equip his poultry houses with this up-to-date article. No one should think of building or remodeling his poultry house until he has obtained Mr. Pittman's circular describing this splendid apparatus. It is unquestionably the most perfect and complete poultry house furniture ever invented, and can readily be built at home by following Mr. Pittman's illustrated plans. The plans consist of a handsome booklet of twelve large pages, besides the cover, containing illustrations of each separate part, and of the parts put together in different stages, giving complete plans and specifications for making in five different sizes, ranging in capacity from twelve to seventy-five hens each.

The use of this apparatus not only greatly increases the capacity of your poultry house, but it is a great time and labor saver as well, and largely increases your profits. It is the only inside fixtures needed in your poultry house, consisting of roosts, nests, feed troughs, drinking vessels, platforms, etc., all arranged in the most practical and scientific manner possible, and all can be taken apart or put together in a few moments. By its use

and equipping their poultry houses with this novel device. Any one purchasing a farm right may make as many of the apparatuses as he needs for use on his own premises.

As this is one of those things that must be seen to be appreciated, and can best be sold by agents, Mr. Pittman is offering liberal inducements to agents who wish to handle a desirable article. This is something that poultrymen and supply dealers throughout the country can do well with, and Mr. Pittman assures us that it will pay any poultryman who advertises largely to add the Model Poultry Apparatus, or the plans for making same, to his line. He now has the Model Apparatus manufactured in southeastern Iowa, and those who live in Iowa or adjoining states should write for prices on the ready made article. To others he especially recommends the farm rights and plans, as he considers it so much cheaper in most cases. Poultry Keeper readers who want the best there is in poultry house furniture should write Mr. Pittman for his circular and other information, and don't forget to mention Poultry Keeper.

**My Pekin Ducks and White Holland Turkeys** were winners at Chicago, Wisconsin State Fair, and other leading shows. A choice lot of young stock from above for sale at reasonable prices. L. GILLON, R. R. No. 15, West Allis, Wis.



### RELIABLE

#### Hot-Water Heaters

The cut here shown is that of our Hot-Water Heating Apparatus especially designed for heating Brooder Houses. This cut shows the pipes running one way with the regulator in place. Pipes may be run both ways at the same time. We make these heaters to order, and will take pleasure in quoting you price if you send us measurements of your house. We have them already for shipment, for houses 30, 40, 50, 60, 75 and 100 ft. Heaters are guaranteed as to quality, heating capacity, etc. More about them in our

**20th Century Poultry Book.**

We mail it for 10c. Tells all about the poultry business and our 115 yards of thoroughbred poultry. Reliable Inc. & Brooder Co., Box A-15, Quincy, Ill.

## Get Eggs in Winter

Whether you keep 12 or 1000 hens you want them to lay when eggs are high. Our booklet, Special No. 2 tells

## How to Feed What to Feed

For 50 cents we will send the booklet and full year's subscription to the Poultry Keeper.

**Poultry Keeper Pub. Co.,**  
Box 217, Quincy, Ill.

# Study Poultry Culture With The American Poultry Institute.

It's a profession of profit and fascinating interest. Learn its elementary principles and requirements with the one exclusive poultry institution in the world.

### Facts for Your Consideration.

The course of study includes twelve subjects and covers the entire poultry field. Study is carried on in your own home without loss of time from pleasure or business. We have a faculty of 50 instructors, every one a competent poultry specialist. The Advisory Board provides individual instruction for each student. Your exact wants are anticipated and met at every point. Graduates are assisted to lucrative positions. We have a large list of students throughout the United States.

**Our Free Prospectus** develops fully our entire plan. Gives details as to courses, instruction, terms, names of faculty, etc. Mailed free to any one upon application. Write for it. It points the way to profit in poultry raising.

**The American Poultry Institute, Dept. P-13, Rochester, N. Y.**



**Harding's Poultry Foods and Remedies.**

The excellent line of poultry foods and remedies manufactured by Mr. Geo. L. Harding, Binghamton, N. Y., embraces products that are absolute requirements in modern poultry raising. Mr. Harding has a large plant devoted exclusively to manufacturing his poultry foods and remedies, and it is his claim, backed up by proof, that during the years these goods have been on the market he has never received a complaint nor had anything returned as unsatisfactory, although he stands ready at all times to refund money if goods are not as represented.

The Harding goods include the following: Baby Chick Food, Egg-Builder Ration, High Grade Beef Scraps, Meat Meal, Ground Oyster Shells, All-Clover Meal, Rocky Hill Grit, Mico-Spar Poultry Grit, Mica Crystal Grit, Bone Meal, Granulated Bone, Selected Millet Seed, Charcoal. In the poultry remedy line he has the noted Uncle Sam Remedies, including Egg Producer and Tonic, Positive Cholera Cure, Successful Roup Cure, Antiseptic Lice Killer, Tobacco Dust, and Antiseptic Lice Ointment.

Nothing but the best is used in the Harding goods and every package sold is guaranteed. Mr. Harding's success is due to the fact that he makes strictly reliable goods, because he is prompt in his shipments, and because he uses only sound packages and is thoroughly up-to-date in his methods. There is not only a big demand for his products in the United States and Canada, but orders from foreign countries are constantly being received. Recently in one month his export shipments included consignments for Port Natal and Durban in South Africa, Cuba, South America and England.

The Harding Baby Chick Food has been one of the leaders in the Harding goods. The most important requirement for the poultry raiser is something that can be fed to the little chicks from two days to six weeks old. For the purpose of supplying this want, the Harding Baby Chick Food was compounded. It met with success and is now used in every state in the Union. It is composed of the best of ingredients, has unusual strength and Mr. Harding claims that it will go twice as far in feeding as other chick foods.

At this season of the year the Harding Egg-Builder is especially valuable, as it is a perfect balanced ration to increase egg production. Prices for this ration, also for the other goods, are given in Mr. Harding's ad on page 282. Readers of Poultry Keeper are requested to send for copy of Mr. Harding's book, "How to Feed and Care for Little Chicks," free if you name P. K. Address Geo. L. Harding, Box 111, Binghamton, N. Y.

Lice do more than eat your fowls. They eat your profits, for they sap the energy of the hen and take the "life" out of her. If the lice problem is neglected, a flock will not lay half as many eggs. The Lightning Lice Killing Machine is a simple and practical way to dust powder on fowls. It does the business in a common sense way, and thoroughly cleans six to a dozen fowls at a time with less work than you have to do in dusting one by hand. The first thing it does to them is to make them ruffle up all the feathers on their bodies, so that a surprisingly small amount of powder will kill all the lice on them. It is a simple, inexpensive machine and will pay for itself in a year if you have only twenty-five fowls. It is one of those things that you wish you had thought of yourself—it is so simple and practical. It is endorsed by some of the leading poultry experts in the United States. Any one who wants the whole story can obtain free a little book that tells all about it and gives a lot of practical information on the lice question, by addressing the manufacturers, the Chas. Schild Company, Ionia, Mich., and naming P. K. when writing.

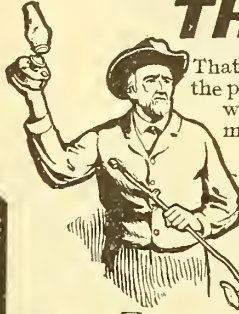


**The RELIABLE FARM POULTRY**

has a long list of well satisfied patrons whose pens year after year furnish hundreds of prize winners, bred from stock we have supplied. We develop through exact breeding under the hand of experts. At our great poultry yards we know how to do it, and we have the facilities. Young vigorous stock of all the best breeds, including ducks and turkeys, constantly maturing.

**TWENTIETH CENTURY POULTRY BOOK** (for ten cents, the postage) is the highest authority for poultry breeders ever issued. Send for it to-day. Address **Reliable Incubator & Brooder Co., Box A-15, Quincy, Ill.**

**THROW THEM AWAY**



That old defective Regulator and Lamp are probably to blame for the poor work your Incubator did last year. The loss on one hatch will more than pay for our new Lamp or Regulator, which make the results of hatching a certainty, not a hazard.

**They Fit any Incubator and Will Improve Its Work.**  
**THE ACME COMPOUND REGULATOR** is positively the simplest and most sensitive, and is sold under a guarantee that it is absolutely perfect and far superior to any other regulator on the market. Double Disc, gives double expansion and power. Patent allowed; beware of infringements or worthless imitations.

**THE ACME AUTOMATIC SAFETY LAMP** does away with the work and annoyance of frequent filling and trimming required by all other lamps. Large reservoir with automatic feed supplies oil to burner as needed and no faster. Indestructible wick, needs no trimming. Water jacket around burner. **POSITIVELY THE LATEST AND MOST IMPROVED LAMP MADE.**

**Double Disc Makes it Doubly Sensitive**

Price of Acme Compound Regulator, complete, \$2.00  
 Price of Acme Automatic Safety Lamp, complete, \$2.50

**BIG REDUCTION IN PRICE.** For a limited time only, we will send One Acme Compound Regulator, complete, for only \$1.60  
 One Acme Automatic Lamp, complete, for only \$2.00  
**BOTH IN ONE ORDER, for only \$3.00**

**SATISFACTION GUARANTEED.**  
 We have regulators from 75 cents up, and all other goods in proportion. Write for special offer circular quoting other bargains on Incubator fixtures, etc. Complete catalogue, testimonials, etc., free on application. Write to-day and keep in touch with the newest and best things in this line.

**H. M. SHEER CO., Box 18, QUINCY, ILLINOIS.**  
 Manufacturers of Regulators, Lamps, Tanks, Poultry Markers, Leg Bands, and all Incubator supplies and specialties.

**We Have Hundreds of Testimonials.**

**Our 11th Annual Sale...**

Of the Greatest Egg Producer and Health Preserver

**Banner Egg Food and Tonic**

We again offer all our old customers and also those who have never tried it an opportunity to lay in a supply of this famous egg producer, as eggs will be **SCARCER THAN EVER**, there being fewer fowls raised this year on account of the high price of grains. **FRESH LAID EGGS** will sell at **50 CENTS PER DOZEN BEFORE CHRISTMAS**, so you want to be ready to help to supply the demand and make the keeping of your fowls more profitable than ever before.

**FOR THE MONTH OF NOVEMBER ONLY:** We will sell **BANNER EGG FOOD AND TONIC** at the following reduced prices;

**1 Pound Box 15 Cents; 7 Pound Boxes for \$1.**

These prices do not include **POSTAGE OR EXPRESS CHARGES.** If sent by mail add 16 cents for each box for postage, but it is cheaper for the 7 boxes to go by Express; the buyer paying all charges. In November 1902, we sold over two tons of our **BANNER EGG FOOD AND TONIC**, and everybody who used it spoke very highly in its favor.

**ORDERS BOOKED IN ADVANCE, but positively NO ORDERS FILLED BEFORE NOVEMBER 2d NOR AFTER NOVEMBER 30th.** Our Large Poultry Supply Catalogue Free.

**Excelsior Wire & Poultry Supply Co., Dept. K, W. V. RUSS, Prop., 26-28 Vesey St., New York City.**



**A BUSY HEN**

is a profitable hen whether she be laying, hatching or taking on fat for market. Nothing will aid so much in all of these occupations as small daily feeds of **Prussian Poultry Food.** It not only helps in eggs, growth, etc., but also prevents and cures **gapes, cholera, roup** etc. and helps in **moulting.** "I have tried the Prussian Poultry Food for roup and it cured my flock. For keeping poultry in condition, and especially as an egg producer, it stands without an equal. Every one that keeps poultry ought to give it a trial and be convinced!"—B. H. PAYNE, Painesville, Ohio.

**Price 25 and 50 cents. If by mail, 40 and 75 cents, Pails \$3.50.** Ask your dealer. If not there, write us. We will see that you are supplied and send you our **68 page book free.**

**Prussian Poultry Food.**

**PRUSSIAN REMEDY CO., St. Paul, Minn.**





### The New Workshop of Incubator Man Johnson.

This fine new factory is the home of the Old Trusty Incubator made by M. M. Johnson, of Clay Center, Neb., who has been advertising and selling incubators for years. The new factory is equipped with all the latest and finest ma-

He is no doubt right about this, because his "Old Trusty Incubator" is the kind of machine that will sell itself and do a lot of its own advertising. At Clay Center everybody in town is Johnson's friend and a lot of them have worked for him for years. They have been brought up and trained to make incubators in the Johnson way and there are not any strikes or lockouts there. The boys turn



The New Workshop of Incubator Man, Johnson,

chinery and erected under the experienced eye of Mr. Johnson, who knew from his past work just what was needed to turn out the best of work in the shortest time and with the least expense. Johnson has in the last six years built up a business of from a few machines the first year, to over 20,000 annual output. In his new factory he went about the building of incubators in the characteristic Johnson way, putting in the kind of machinery that would help to turn out a high class machine at a low cost. Johnson has always been a man of that sort; he would rather make thousands of incubators and sell them at a low price and small margin of profit than to make a few at a high price.

in and hustle, the factory hums and out go the incubators. Being located out in the west and having "the boys" with him helps Johnson to turn out a lot of work and keep the cost down. His "Old Trusty" machine is to be sold on a thirty days' trial plan, and as Johnson says, "It's got to do the work or it won't stay sold."

We suggest that everyone who knows Johnson of Clay Center write to him this year and get his book. If you don't know him write and get acquainted. He is sending out a book that has in it a system for keeping eggs, poultry and incubator records that is a dandy. Write for one. Address M. M. Johnson, Incubator Man, Clay Center, Neb. He'll send the book free if you mention P. K.

A parlor organ,  
better in tone,  
handsomer in case,  
and very — very  
reasonable in price.  
That's the Lyon &  
Healy organ. Finest  
catalog free. Write for it  
today.

Lyon & Healy, 29 Adams St., Chicago.

## For a Half Dollar

You can get two of the best magazines published for a full year's subscription. These two leaders are as follows:

### The Feather

A large illustrated monthly on Poultry and Pigeons; with four beautiful color-plates of fowls. Worth at least a dollar.

### The National Illustrated Magazine

The leading literary magazine of the National Capital. Just the kind of a publication the whole family will read. Send the 50 cents and get these two great papers for a whole year. 11-3

**GEO. E. HOWARD,**

PUBLISHER,

714, 12th Street N. W. Washington, D. C.

# NEW YORK SHOW RECORD UNAPPROACHED.

## FOR THE LAST FOURTEEN YEARS

### BARRED PLYMOUTH ROCKS WE BRED AND RAISED HAVE WON AT NEW YORK SHOWS AS FOLLOWS:

- (1) **MORE FIRST PRIZES** than any other exhibitor has won on ANY STOCK.
- (2) **More FIRST Prizes on EXHIBITION PENS** than any other exhibitor has won.
- (3) **Nearly DOUBLE** the number of **FIRST PRIZES on COCKS and COCKERELS** of any other exhibitor.
- (4) **And THREE TIMES** the number of **FIRST PRIZES on MALES** that any other exhibitor has won on stock not our breeding.

### ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS.

No less than Thirty-five Winning Males at New York Shows, Singly or at Head of Pen, have been bred by us from our "Grandson's Brother" line and its near relatives.

OUR LAST SEASON'S PRODUCT were Winners at the Largest Shows held in this Country, also in England. \$250.00 was refused by two customers for a cockerel and Pullet hatched from eggs we sold.

THE HIGHEST PRICE EVER GIVEN in this Country, to our knowledge, for a Barred Plymouth Rock was received for a "Lee Belle" female, Bred and Raised by us.

AT NEW YORK SHOW, 1902, Our last exhibit—in a class of 223 of the Best America could furnish—we won Three-fifths of all the Regular Prizes and All the Special Prizes except one, including All Silver Cups, Gold Special, and Silver Medal.

THREE of the FOUR HIGHEST PRIZES on COCKS and COCKERELS were won by birds from our "Grandson's Brother" lines, and our First and Second Prize Pullets, Judge Scudder, who has placed the awards on Rocks at nearly every New York Show for fourteen years, stated, were the Highest Scoring of any he ever judged in the Garden.

We won Four of the Five Cockerel Prizes; Four of the Five Pullet Prizes; Four Prizes on Fowls, and Three of the Five on Exhibition Pens—1st, 2d and 4th.

ALL OUR TWENTY-SEVEN WINNERS were from our own yards except two; one of these was hatched from our eggs direct—the other, a fourth place bird, was bred from our stock.

**SHOW BIRDS** as heretofore, suitable for any competition. Also a grand lot of medium priced exhibition birds—hot ones for the money. For sale—Carefully mated Breeding Yards of Five Birds, mated for either Light, Medium, or Dark Progeny as desired, \$20 and up. Special Prices on Poultry in Large Numbers. Send for new edition of "America's Best—Illustrated," giving 22 pictures of Recent New York Winners, also for pamphlet, "What Our Hatching Eggs Produced for Our Customers Last Season"—Both sent free if you mention Poultry Keeper.

**BRADLEY BROS., Box 825, Lee, Mass.**



A "GRANDSON'S BROTHER" MALE, sired by a son of "Grandson's Brother 5th" for which \$100 was refused as a cock. The bird in the cut is the sire of more First National Winning Cockerels than any other male living.



# QUESTIONS & ANSWERS

[In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address Editor Poultry Keeper, Quincy, Ill. Give name and address in full and only initials will be used in our answer.—Ed.]

## MATING DUCKS—SORE EYE.

1—Please inform me if it is advisable to mate a drake from the same brood with my ducks. I have three Pekin ducks and one drake hatched the 12th of April. Please tell me when they will lay and if you can line breed them like you can chickens.

2—I sent away and bought a fine Buff Leghorn cockerel, and when he arrived he had a sore eye. It is so swollen that it looks as if it had a large marble inside, and is covered with a white, cheesy substance. I am afraid he will lose the eye. What can I do for it? I do not know whether they sent me a diseased bird or whether he was injured in transit.

Mrs. W. G., Tombstone, O. T.

1—We believe it would be all right to use the drake you have. The time your ducks will lay depends on the care they have received. If you breed exhibition ducks it will be necessary to line breed to some extent, but if market stock only is wanted, we should get new males every year. This may not be the best way, but it is the safest.

2—The cockerel's sore eye is probably due to an injury. Cleanse the eyelids with water, to which boracic acid has been added in the proportion of 15 grains to the ounce. The fowl should be kept in a dark place and fed small quantities of food. If after the inflammation has subsided there is a cloudiness in the front of the eye—the cornea—just a small quantity of calomel over the surface and repeat the application once daily as long as necessary. If the injury is not too severe you may effect a cure.

## LUNG TROUBLE.

I would like to ask about a Buff Coch-in rooster that I lost. He was sick several days and gasped for breath. I noticed when he crowed that he would check up the finishing tone suddenly with a mourning, stifling noise. He did this nearly all summer. I examined his windpipe after death and found that at the junction near the lungs it was very hard and brittle and was squeezed together, as though it had been pinched shut with your finger and thumb. It was so brittle that it would crack up like an egg shell. Can you kindly give me any information about this?

L. J. H., Eau Claire, Wis.

If you had examined further and with a microscope you would have found not only the lungs but the air passages filled with minute parasites. There are a number of forms of lung trouble that are caused, some by parasites and some by bacilla, both of which are classed as tubercular diseases. Those caused by bacilla are usually contagious and are known as tuberculosis, consumption, roup, etc., according to the form of bacilla.

## FIGURING THE BALANCED RATION.

I do not grasp the way to figure out a balanced ration. After reading Mr. Warren's article in July number of P. K., I sent for his book, which did not help me. Will you publish the way to figure it out? I do not mean for you to say that "1:4 is

about right for laying stock," etc., but to show by figures how a ration of 1 to 4 is built up. Take for instance out of the table published with his (Mr. Warren's) article, cottonseed meal, wheat middlings, wheat bran, beef scraps, dried blood, corn meal, ground oats and any other food that is needed. I suspect if you will kindly do so you will help more than myself.

F. A. W., Convent Station, N. J.

The correct method of exactly balancing rations by direct calculations depends on the principles of allegation. This method is explained at length in Bulletin No. 115, issued by the Kansas State Agricultural College, Manhattan, Kan. The methods in general use involve guesswork and tedious calculations. A comprehensive explanation would require more space than could well be given to this subject, but you can probably secure a copy of the bulletin mentioned by writing for it.

Assuming that the figures in Mr. Warren's table are correct, which is doubtful, as the same foods will vary greatly in analysis, and are only given as showing the general average, we will from it compound a mash mixture with the desired nutritive ration of 1:4. Mix 10 pounds beef scraps, 20 pounds wheat bran, 30 pounds wheat middlings, 20 pounds ground oats. Nutritive ration 1

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Short Beaks, Short Legs, Red Eyes, Short Necks, Yellow Beaks, Full Breasts, Short Backs, Yellow Legs, Correct Combs. White all over.

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## PLYMOUTH FARMS.

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Box K, York, Pa.



to 4.05, which is as close as it would be possible to measure it.

It is a hard matter to make a digestible ration as narrow as you desire, as all grains which should form the basis of our ration, have a much wider ratio. We must narrow them by the addition of small quantities of less digestible and highly concentrated foods. We do not in this mixture use cottonseed or linseed meal, as they are only safe to feed in quantities of about 5 per cent of the mash, and this not oftener than twice a week. It is doubtful if such a narrow ration is desirable.

At the Hatch Experiment Station fowls fed on a ration of 1:5.6 produced 20 per cent more eggs at less cost than an equal number fed on a ration of 1:4.7. The hens that took first prize in the National Stockman and Farmer's egg contest, averaging 289 eggs each in a year, were fed a ration of 1:6 or wider.

### HOT AIR OR HOT WATER INCUBATOR.

Which method of hatching is preferred by most poultrymen, using incubators, hot water, or hot air? Please answer through P. K. T. H. E., Creston, O.

The number of hot air and hot water machines in use is about equal, the hot water being, perhaps, slightly in the lead. The method of heating is one of the least essential features.

### WHITEWASH—LIMBERNECK.

1—Will you kindly tell me in what number the recipe for whitewash was published? I have loaned some of my books and cannot find it.

2—Can you give me a remedy, or rather a cure and preventive, for a new and terrible disease that has broken out in this county and takes little and big? It seems as though the fowls lose all use of themselves all over. They sit around, can't move, but once in a while they will squall. They look as if they were blind. Most of them die, but those that get well are stiff. Guineas have it the same as fowls. D. O. C., Forbes, Mo.

1—In August P. K., page 195.

2—The disease is what is generally known as limberneck. Venetian red mixed with the food will prevent the spread of the disease and in most cases effect a cure. A tablespoonful to a pint of meal is about the right proportion. It can be made into a pill with butter and flour and given to fowls too sick to eat.

### FEED FOR PIGEONS.

I noticed an article in your journal of Sept. 15 headed "Pigeons for Poultrymen," speaking of the feeding of common pigeons. Can you give me a formula for feeding common pigeons for squabs, where they are kept inclosed, and will they do as well confined as the Homer? H. E. H., Cincinnati, O.

For feed use cracked corn, red wheat, for main feed; then for variety, kaffir corn, buckwheat, peas, and a little hemp seed occasionally.

Common pigeons will do nearly as well confined as when they have their liberty. As producers of fine squabs they are not so good, and the squabs do not bring as much in the market.

### HOG KIDNEYS FOR POULTRY.

Will you please let me know in your next Poultry Keeper what you think of hog kidneys for chickens? I can get all I want at one cent apiece, or ten cents a

dozen, and how many would you feed to say 100 chickens, two times a week? I get them every Tuesday and Friday evenings. I am chopping them up fine and feed them in a bran and corn and oat chop mash two times a week, with all the cabbage leaves they can eat every day for green food. I live alongside of a truck farm and can get all the cabbage, etc., I want.

J. H. M., South Williamsport, Pa.

If from healthy hogs the kidneys make a fair animal food for hens. If fed but twice a week we should give five pounds at a feed. Your method of feeding them is all right. It might improve the kidneys to cook them, but the results would not pay for the trouble.

### MATING BROWN LEGHORNS.

Being a subscriber to your valuable paper and having received a great deal of help from it I take the liberty to ask if you will kindly advise me as to the mating of Rose Comb Brown Leghorns for best results. I have been keeping hens for three years of mixed breeds and last winter I decided to breed the R. C. B. Leghorns exclusively. My main object is raising eggs for market, and if possible to sell some of the extra good cockerels for breeders. Now I bought a trio of birds last winter of a well known breeder and told him just what I wanted and to mate them up according to his own judgment. When they came they were in fine condition and I was well pleased with them. They laid extra well all winter and spring and I have now seventy-five nice chicks

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### WHITE AND BARRED P. ROCKS BLACK MINORCAS.

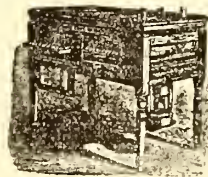
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Prairie State Incubator Co., Homer City, Pa.

nearly matured, but this is what I do not understand; the cockerels are very dark, many of them having the entire wing nearly black or purple, and a very few that are good enough to breed from. The pullets many of them are nearly black except the breast. If this would come under the department of questions and answers in your paper will you please answer it in the next issue?

W. D. W., Zoar, Mass.

You cannot expect more than twenty-five per cent of the chicks you raise to mature into standard specimens. Your pullets are altogether too dark. What

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Air-tight heater made better than others on the market and cheapest at our price. We do not sell the cheapest that we can make. This air-tight heater at \$1.14 is a better bargain than others at 95 cents up. It pays to buy the best.

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you want to produce is nice salmon breasts, shading off lighter, the surface of the back to be a light brown, the feathers penciled with darker brown.

For the breeding pen we should select the cockerel (a typical Leghorn, of course) with light colored plumage, even if it run largely to red, and mate him to the best and lightest pullets, even if we could only breed from a small number of fowls.

You will probably be able to get good females by this method. Those that come dark can be used for layers of market eggs. The old cock bird, if the right color, would do well to mate to these pullets.

**ENSILAGING GREEN FOOD.**

I saw a notice in the P. K., I think, in regard to packing green food in a barrel, for chickens in winter. Can you give direct information as to how it is to be done; and if it sours, will it not injure fowls? I use turnip tops, rape and clover. When should it be packed?

Mrs. G. W. Y., Chester, Tenn.

Clover will make the best silage, but all three can be used. They should be packed when in good condition to feed and should be cut about as you desire to feed them. Take a large molasses or kerosene barrel that has been thoroughly cleaned, sink it into the ground, so that it protrudes about a foot, and fill with the fodder, well packed down to within six inches of the top. Then put on smoothly a layer of tarred paper and fill with chaff, and then a tight wooden cover to exclude rain. Most of the contents of the barrel will keep in good condition for feeding. It will become acid and if fed in too large quantities may cause bloating from the excessive production of gases, but if charcoal is given the hens there is little danger of this.

**MARKET CHICKENS—FEEDING—CHARCOAL—DOUGLAS MIXTURE.**

Please answer the following questions in P. K.:

- 1—Can you raise any kind of chickens for market profitably?
- 2—Can chickens be made to lay on nothing but grain and green food; that is, feeding on a variety of grain?
- 3—Should charcoal be fed the same as grit or in a mash?
- 4—What is Douglas mixture composed of, and how should it be used?

H. L. R., Johnsonburg, Pa.

1—Yes, there is a good profit on most kinds of market poultry, when properly raised.

2—To some extent, but nothing like a maximum yield.

3—Hens should be allowed to help themselves, but little chicks should have it put in their food.

4—Douglas mixture is made by dissolving one pound of sulphate of iron (copperas) in two gallons of water, adding an ounce of sulphuric acid. Dose, tablespoonful to each quart of drinking water. Place in a stone jug and keep corked.

**LEG WEAKNESS.**

Can you please tell me through the P. K. what is the trouble with one of my hens? Her legs seem to be paralyzed, as she has no use of them. She has a good appetite. Is there any cure for her? As she is a fine bird I hate to kill her.

E. L., Banker, Mich.

Your hen has leg weakness. Give

ground bone and plenty of green food, and avoid the use of corn and all fattening foods. Give a pill three times a day of the following: Strychnine, 1-16 grain; sulphate of iron .1 grain; phosphate of lime, 5 grains; sulphate of quinine, 1/2 grain.

**THROAT TROUBLE—MATING PLYMOUTH ROCKS.**

Last January I bought eleven Silver Laced Wyandotte hens. They are fine layers, but their eggs will not hatch. The hens are very small, but full of life and energy. The male bird is young, but has some trouble with his throat, a "tech," "tech" noise all the time. I have treated him with kerosene, carbolic acid and carbolated vaseline, but nothing will do him any good that I can find.

2—I bought eleven Barred P. Rock hens for thoroughbred stock. They are very small, but the finest egg producers I ever saw. Not being satisfied with their size, I ordered two sittings of eggs, paying \$5 and \$6 for them. I got four young cockerels from the two sittings. One of the young cockerels is large, with yellow legs and bill, but hardly no comb, and almost barless—a pale, faded blue. Then I have the three others, better barred, better combs, nice yellow legs and bills, but are smaller in size. Now tell me how to mate with the thirty-five young pullets I have from my small P. Rock hens. Do you

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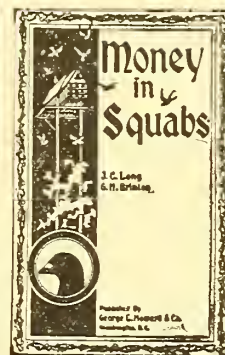
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A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had the most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—Douglas Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

A year's subscription to Poultry Keeper (50 and a copy of Money in Squabs (50c) for 75c. Or we will furnish Money in Squabs free as premium for 2 subscriptions to Poultry Keeper at 50c each. Address,

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There's a lot of good hen sense in it. It discusses feeding and brooding from the money-making point of view, and tells about the Humphrey line of poultry supplies, viz:

**The Humphrey Open Hopper Bone Cutter,** guaranteed to cut more green bone, in less time, with less labor and in better condition than any other of your money back. A free trial if you want it. Runs easily because you control the feed. No partitions in the hopper. No "feed screws" nor troublesome springs. Only three working parts.

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think I can bring them up to good size without buying any more?

Mrs. M. J. W., Bessemer, Ala.  
The Wyandotte male suffering from lung or throat trouble is useless as a breeder.

We should make two matings, using the large barless cockerel on the largest and darkest pullets with high combs, and the best of the other males on the lighter pullets. If you get your chicks off early and feed them well you will doubtless be able to bring them up to size.

**MOLTING—MILK.**

If practicable please answer the following questions in the next issue of P. K.:

- 1—Under ordinary circumstances how long would it take a Brown Leghorn rooster to molt and get fully feathered again?
- 2—Is fresh skimmed milk better for poultry than sour milk?

F. H. B., Watertown Arsenal, Mass.  
1—Some fowls molt quicker than others, but one hundred days can be considered a fair average under natural conditions.

2—No, not if the sour milk is fed before it becomes bitter and rancid. The change does not affect the nutrients.

**MOVABLE ROOST—PLASTERED HOUSE.**

1—I will be pleased to learn the best plan to make and attach movable roosts in poultry houses.

2—Also if the plastered chicken house is healthy for the poultry. If any objections, please state them.

J. F., Jr., Florence, Kan.  
1—That is something which we do not know—the “best” way. Some suspend them with wires or iron rods (a good way) and others have them set into holders which are supported by standards, against the side of the house, or by brackets. Either of these are also good ways.

2—A plastered house is good as any if it is dry. We know of no objection to plaster.

**CANKER IN SQUABS.**

What causes a lump in the throat of squabs and how can the trouble be cured? I lost eight in this manner. I opened them and found in the crop tube a hard, cheesy substance of a cankerous nature which seemed to have closed the passage.

J. P., Fall River, Mass.  
Lump in throat of squabs is canker. Primary cause obscure, it is hereditary, and anything tending to debilitate the birds, such as overfeeding, filth, dampness, long continued inbreeding, etc., promotes its development. For treatment, there is practically none that is satisfactory. No bird is fit for breeding purposes showing bad case of canker; it is better to kill them at once and forget it soon as possible.  
A. P. S.

**Two Poultry Papers in One.**

The publishers of Poultry Keeper and Farm Poultry (Boston Mass.) have formed a combination to increase their circulation. The arrangement is purely a business one, but the subscribers will be greatly benefited.

Farm poultry is the great semi-monthly of the east, price \$1 per year. Poultry Keeper is the great practical poultry paper of the country, price 50c per year. We offer both for \$1. This is a combination of the two papers mostly devoted to practical poultry. It is the best offer

we have ever made. Send your subscriptions in to us. Poultry Keeper Pub. Co., Quincy, Ill.

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Our new 1904 catalogue is now ready for mailing. No poultryman or fancier should be without this valuable book. It is beautifully illustrated and gives dozens of photos of the machines in actual operation and in the hands of the people in all parts of the country. The incubators and brooders are described fully in every section and in addition this book contains sound

poultry sense. Send for one. It is free if you mention P. K. Sure Hatch Incubator Co., Clay Center, Neb., and Indianapolis, Ind.

**YOUNG CHICKS** Thoroughbred and market. Two to six weeks old. Shipped safely any distance.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

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**When Eggs are High**

Begin to feed Sheridan's Condition Powder to your flock early in the fall and your hens will coin money for you during fall and winter months when eggs are high. It makes hens healthy and makes them lay abundantly.

**SHERIDAN'S Condition Powder**

Used and endorsed by prosperous poultry raisers for over 30 years. Sold by druggists, grocers, feed dealers. If you can't get it we send one pack. 25c; five, \$1. A two-lb. can, \$1.20, six, \$5. Express paid. Sample Poultry Paper free.  
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**You Want Them**

You do want every day a nestful of eggs from September to April, when they will command the highest prices per dozen in the large markets, and are in great demand.

Getting eggs when you want them is a matter of choice. You can have them or not. It depends wholly upon the care, feeding, and management.

Four essentials are absolutely necessary to succeed, as follows:—

1st. Hatch your chickens in the months of March, April and May.

2d. Keep them growing so the pullets will mature early and lay by October.

3d. Help your hens over the molting season, so that all will lay early.

4th. Follow the example of successful poultry raisers, who by the use of SHERIDAN'S CONDITION POWDER in the mash food, as directed, are doing all of the above, and increasing their profits yearly. It is a powerful food digestive. Therefore, no matter what foods you use in the mash, mix with it daily SHERIDAN'S POWDER: it assures perfect assimilation of the food elements needed to form new plumage; to make pullets mature early; to make hens lay when you want eggs.

**The Dandy**

**Green Bone CUTTER**

is sold on 15 days' trial. If you don't find it thoroughly satisfactory in every way, you needn't keep it.

**The Dandy**

**Green Bone CUTTER**

will pay for itself twice over in a single season. Poultry raisers say it's the best investment they ever made.

**IF YOU WANT MORE MONEY**

from your hens, it will pay you to send for our new common sense poultry book, telling how to save feed bills and increase the egg crop. The DANDY does it. It's the bone cutter that doesn't break, doesn't wear out and doesn't tire the person who uses it. Automatic feed, special cutting knives, large bone box, safety clutch and everything that makes the machine effective. Remember we sell it on 15 Days' Trial. Price \$5 up. Send for our proposition.

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GET A DANDY



# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected. Bred over 20 years. GREATEST EGG LAYING STRAIN IN EXISTENCE. LARGE, PURE WHITE, FANCY MARKET EGGS. STANDARD QUALITIES. BIRDS are LARGE, VIGOROUS, ACTIVE and HANDSOME. Unexcelled for INTRODUCING BLOOD or as FOUNDATION STOCK. WINNERS AT MADISON SQUARE GARDEN, NEW YORK, 1903. Stock for sale, both old and young. Illustrated circular free if you mention Poultry Keeper.

H. J. BLANCHARD, GROTON, NEW YORK.

### The Von Calin.

It will gratify many warm friends of Mr. Clayton Von Culin to know that the Wayland Incubator and Mfg. Co., of Wayland, N. Y., of which company he is the secretary, enters the field this year with greatly increased facilities. Mr. Von Culin, although still a young man, is one of the oldest incubator manufacturers in business to-day. He built his first machine thirty years ago, and has been at it ever since. The other active men in this concern are Messrs. C. G. Branch and E. A. Carpenter. Both are gentlemen of extended practical experience in the departments of which they have charge. Their announcement for the season of 1903-4 appears on page 282 of this issue under the heading of "The Great Question." Please refer to it, and write for their catalogue. Address Wayland Incubator and Mfg. Co., Box 52, Wayland, N. Y. Mention P. K.

### Quality First; Then Price.

W. F. Chamberlain, Kirkwood, Mo.  
I wish to say that I am just as well pleased with your brooder as I am with the rest of the poultry supplies you make, and that is saying a great deal. I like to send my orders to a firm that tries to make their goods just as good as they can, and will sell nothing cheap. The old saying, "You cannot get something for nothing," is certainly true in the poultry supply line, and I find that nothing but the best will do for good results. Your Perfect Chick Feed, Hen Feed, Mash Egg Food, Evergreen Clover and Your Brooder certainly show that you have put your experience to good use, and that your experience will be a great help to others.

J. T. Thomas, Georgetown, Mo.

### "Early Breakfast" Mash.

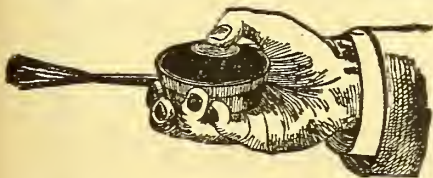
The time of year is now at hand when the old birds as well as matured young stock need a little forcing. To do this without leaving any bad effect is part of the business of the successful poultryman.

To get the best results it is necessary to feed the right kind of feed in the right kind of a way. "Early Breakfast" Mash is prepared by Steinmesch & Co., St. Louis, to meet these requirements. It is a mixture of the very best winter wheat bran and middlings, crushed oats, clover meal, beef meal, bone meal, charcoal, etc.

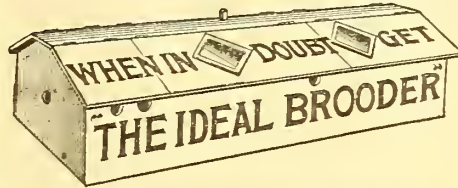
It is not an experiment, but has been used by Mr. Henry Steinmesch on his poultry farm at Normandy for five years with the finest results. "Early Breakfast" Mash in the morning and a grain ration in the evening will make poultry raising a pleasure and a profit. See ad of Steinmesch & Co. on page 326.

### Poultry Keeper Insect Bellows.

For use in dusting insect powder of any kind on fowls old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste



any powder if you use these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.



## The Brooder With Advantages.

Catalogue free upon mentioning the P. K.  
**THE IDEAL BROODER CO.,**  
High Point, - - N. Car., U. S. A.

## Supply Your Poultry

If you expect them to supply you. It is a good rule that works both ways. Try it. We carry a complete line of the best of

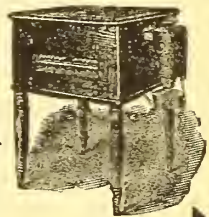
## Everything for the Poultry Business

Incubators, Brooders, Oyster Shells, Grits, Foods, Roup Cures, Cholera Cures, Egg Producers, Beef Scraps, Meat and Blood Meals, Bone Cutters, Grist Mills, Food Cookers and hundreds of other items for poultrymen. Our descriptive, illustrated catalogue—makes good reading; is **FREE** for the asking—gives many comprehensive ideas to any one interested in poultry. If interested in pigeons, ask for Pigeon Supply Price List.

Write for Catalogue G **W. J. Gibson & Co., (Inc.) Union Stock Yds., Chicago.**  
H. M. Horton, Dept. Mgr. Gen'l Western Agents Cornell Incubators and Peep O'Day Specialties.

# CORNELL INCUBATORS

INSURE LIFE TO FERTILE EGGS

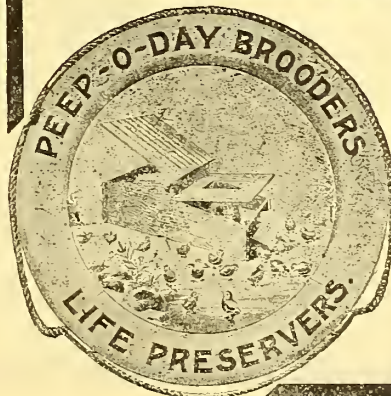


**R**EASONABLE attention and care are necessary in the successful hatching and rearing of poultry. Even mother hen has to attend to business in order to carry a brood of chicks through the period of babyhood. **CORNELL INCUBATORS** are automatically regulated, easily ventilated, and require little attention—five to ten minutes twice a day will do the business on a 216 egg machine.

## Peep-O'-Day Brooders are Life Preservers

Baby chicks should be looked after oftener than twice a day. But two minutes, five or six times a day with **PEEP-O'-DAY BROODERS** until chicks are ten days to two weeks old, is all that is required. After that three or four times a day is enough. If you do not already know from experience that **Cornell Incubators and Peep-O'-Day Brooders** are the **Acme of Perfection** in poultry hatching and rearing, write at once for free catalog.

**CORNELL INCUBATOR MFG. CO.**  
Box 11, Ithaca, N. Y.



Trinity School for Girls,  
St. Augustine, Fla., Aug. 19, '03.

The Cornell Incubator Mfg. Co., Ithaca, N. Y.:  
Dear Sirs—The incubator and Peep-O-Day Brooder bought from you in May have more than proved your statements. An incubator was entirely new to me, but by following your directions, the first hatch was 75 per cent of the fertile eggs; the second was 87 per cent, the third 89 per cent. During this last hatch I had to be away for 36 hours during the second week and a sixteen-year-old child managed the temperature, cooled the eggs (in the incubator) and turned them by hand, after an older child lifted out the tray for her. That speaks well for the simplicity and the reliability of the machine. The brooder has been a comfort. The third brood was put into it two days ago, and all three broods have done well. It is a far better and more trustworthy mother than a hen. About November, we shall need another incubator and two or three brooders, and we see no need to look further than the Cornell and Peep-O-Day. With best wishes,

Faithfully yours,  
SISTERS OF THE RESURRECTION,  
By Sister in charge of the Trinity Home School.



**LARGE PROFITS FROM POULTRY.**

**Feeding for Eggs in Cold Weather When Prices Are High.**

The poultry keeper who would get a large profit from his flock must learn to overcome natural conditions. He must not only learn how, by using incubators, to get broilers for the early market, but, what is equally important, he must learn how to feed so as to get eggs when eggs are scarce and fetch high prices.

The secret of making pullets lay early and making old hens steady egg producers all through cold weather is to feed them once a day a small quantity of Sheridan's Condition Powder, as directed. It costs about one cent in ten days per hen and the return in eggs when eggs are selling at from forty to fifty cents a dozen makes it one of the best paying investments in the world.

A lady said recently: "My fifty hens, half pullets, half year-old hens, are now Dec. 26th, laying two dozen eggs and upward every day." The secret of her success was that she had used more or less Sheridan's Condition Powder every month in the year, so her flock was in condition to lay when eggs brought most money. For over thirty years Sheridan's Condition Powder has produced results like this and the most successful poultry keepers are among its endorsers. Full information can be obtained from I. S. Johnson & Co., Boston, Mass.

The Advance Fence Co., G St., Peoria, Illinois, so well and favorably known to the farming public by the high quality of their wire fence and their successful advertising of fence "direct from maker to user," are now offering their fence on the thirty days free trial plan to our readers. The responsibility of the makers and the superior quality of Advance Fence make this offer one of decided interest to all concerned. The company making this fence show their confidence in their product by putting it in our hands to examine and erect, before final acceptance: Advance Fence being so good a fence that they find from past experience with thousands of purchasers, that its merits are self-evident, and Advance Fence needs only to be seen and examined to be appreciated. The matter of price-saving in taking advantage of their offer is an important item also to be considered by the man who wants the best fence and wants it at bed-rock, factory price. It will pay the reader to write to this firm and obtain price lists and full facts before placing any orders elsewhere. Mention P. K.

In order to secure enlarged facilities for manufacturing and to enable them to promptly meet the increased demand for their brooders, the Ideal Brooder Co. have moved from Glencaryn, Va., to High Point, N. C.

**Caponizing Instruments.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-



class in every respect. With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**The Dandy Bone Cutter.**

Cut green bone is one of the necessities of the poultryman who wants to make money. It is not a mere luxury which the hen with a little privation can do without; it is something that she must have if we expect her to do her best in laying eggs. When we keep a flock for the purpose of making money out of them, we must feed them and feed them right. A good record for eggs depends chiefly on the feed. A wild fowl does not lay more than a dozen or two of eggs in a year, but we expect the domestic hen to lay twelve to fifteen dozen, and we cannot get all this for nothing. We must feed her just what she needs. The hen needs certain elements which we can give her in cut bone at less cost than in any other feed.

The only practical question is, how to provide the bone, and the logical answer is, "Get a Dandy," the "Dandy" green bone cutter. Save the bones from the table and cut them up yourself, and if this is not enough, call at the nearest meat market, where you can get at a nominal price all the fresh bones you can use. The "Dandy" bone cutter is easy to operate. It is not a flimsy machine, but a strong and durable one, and it cuts the bone fine and makes a feed that will actually save grain and reduce the total cost of feeding a flock of fowls. All grains contain bone substance, but not enough, and if hens have to depend on grain for bone material, they eat more than they need to supply them with other things. When you supply them with good fresh bone, they do not need so much grain, and they will lay more eggs. "Every extra egg after the hen's board is paid adds just so much to the profits—makes her just that much more of a success.

The catalogue of the "Dandy" bone cutter, made by the Stratton Mfg. Co., Erie, Pa., is really a valuable book of hints on feeding poultry and is sent free to those who mention P. K.

**Lee of Omaha**



makes the best lice and mite killer for poultry—Lee's Lice Killer. A liquid—simply spray or sprinkle on the roosts. No handling of fowls. No labor or bother. Kills both body-lice and mites. Sold in every state at 35 cts. per qt., \$1 per gal. Send for free catalogue, poultry booklet and calendar, list of 3,000 agencies, etc. GEO. H. LEE CO., Omaha, Neb.

**WHITE WYANDOTTES NONE BETTER.**

As white and good as the best. Fine birds, good form, strong laying qualities. EGGS REDUCED balance of season; \$1. per 13. Stock for sale. D. C. ADAMS & SON, Box K, North Haven, Conn.

**\$3.50 for \$1.95.**

- Success with Poultry.....\$1.00
- Farm Poultry..... 1.00
- Green's Fruit Grower..... .50
- Reliable Poultry Journal... .50
- Poultry Keeper..... .50

**ALL.....\$1.95**

This is one of the best offers ever made to poultry keepers. It gives the cream of poultry literature and best fruit journal. Address,

**Poultry Keeper Pub. Co., QUINCY, ILL.**



**"I Saved More than Half!"**

on the cost of my Incubator and it gives perfect satisfaction." How?

**"By Building My Own Incubator"**

What this man did you can do if you get our Complete Book of Plans for building *New Idea Incubators and Brooders*. Only common tools needed. We sell you AT COST all necessary fixtures, Lamp, Tank, Regulator, Trays, Legs, etc. Big money in building and selling Incubators.

No Experiment. Success of our method proved by thousands of satisfied customers. No high-priced factory-made machine gets better hatches than *New Idea*. Send for "How to Make and Save Money with Incubators," our new handsome Poultry Book and Catalogue; it is giving old line makers something to think about. Write to-day; it's FREE.

All Poultry Supplies at Cut Prices.

Channon, Snow & Co., Box D, Quincy, Ill.

"Something New" Try it & if you like it Buy it. Sample free.

# STEINMESCH'S Mash

## EARLY BREAKFAST

Every authority on poultry recommends a morning mash for poultry, especially during the fall and winter months. Our Mash is made up of the very choicest Winter Wheat Bran, and Middlings, Crushed Oats, Linseed Meal, Bone and Beef Meal, Clover Meal, Charcoal, etc. Nothing better for growing and adult fowls; will push the young stock to quick maturity, will help adults through the moult, insuring health and vigor for both. The greatest egg producer ever offered.

**Price \$1.50 for 50 lbs., \$2.50 for 100 lbs.,** and we pay the freight on 100 lbs. or more to any part of the United States east of the Rocky Mountains. Write for catalogue. Circulars free.

**A Great Big Sack Full 100 FEEDS FOR 10 HENS.**

We are exclusive manufacturers of STEINMESCH'S EXTRA QUALITY "QUICK MEAL CHICK FEED" \$2.25 for 100 lbs. \$1.15 for 50 lbs. Samples free.

# STEINMESCH & CO.

—MANUFACTURERS—

Dealers in Fancy Poultry & Poultry Supplies of every Description  
No. 5 North Main St. ————St. Louis, Mo.



**The New Incubator Catalogue.**

One of the first of the new incubator catalogues to reach our desk is that of Channon, Snow & Co., Quincy, Ill., manufacturers of the New Idea Incubator. If the promptness with which they get out their catalogue and the high character of the book indicate their business methods and the quality of their goods, we should say they were good people to deal with, even if they were strangers to us, which they are not.

The cover of the book is a striking example of clay modeling, representing an old-time barnyard with fowls being fed by a comely damsel. The book is entitled "How to Make and Save Money with Incubators." It is well written, tells its story in a few words, and does not confuse the reader with matter foreign to the machines. A novel feature of their business is furnishing plans and fixtures for building one's own incubators, which seems to reach and interest a large class. Testimonials are given which show that the scheme is feasible and that these home-made machines succeed in getting good hatches. Everyone interested in poultry and incubators ought to have one of these books, which is sent free on request. Address, Channon, Snow & Co., Dept. D., Quincy, Ill., and mention P. K.

**World's Fair Superintendent.**

T. E. Orr, secretary and treasurer of the American Poultry Association, has been appointed superintendent of poultry at the Louisiana Purchase Exposition. Mr. Orr has already begun active work, and will devote considerable time during the winter at poultry shows and meetings and elsewhere among leading fanciers on behalf of the World's Fair. Poultry, pigeons and pet stock are placed in Division "E" in the World's Fair classification and have been allotted over \$16,000 for cash prizes. The dates for these shows at the World's Fair are October 24 to November 5, 1904.

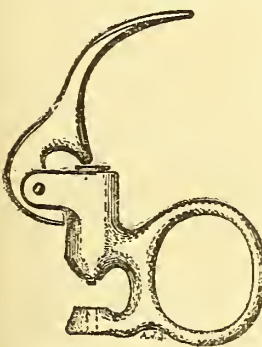
The Improved Champion Leg Band, made by T. Cadwallader, Salem, O., is so constructed that it can be adjusted to fit any fowl. It has a secure lock that makes it impossible to slip off. This is one of the most popular bands made. (See ad on page 322.) The Superior Band is easily put on or taken off and is securely locked so it cannot be lost. They are made to stay where you put them. Mr. Cadwallader will send samples free to those who name P. K.

Wilbur Bros, Petros, Tenn., whose S. C. White Leghorns are noted throughout the south, are offering special prices in their ad on page 321. At the prices named these birds will be ready sellers, hence it will not do to delay in ordering.

**P. K. Poultry Marker.**

There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the

web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.



**CAPONS** are the poultryman's steers and bring him the top prices. Triumph Capon Tools, \$2.50 postpaid. Guide Book for stamp. ALLERTON (IA.) CAPONIZING CO., Box 2-B, ALLERTON, IOWA.

**Our New Incubator**



Has Tripple Walls; Double Dead Air Space; Double Doors; Uniform Temperature; Runs the best; hatches the best; Is the Best. Need an Incubator? Drop us a card and please mention Poultry Keeper.

Hoosier State Incubator Co., Amo, Indiana.

**The Dandy Brooder**

Just what you have been looking for. Built to supply a long felt want. Safest, surest, simplest and most economical brooding apparatus yet produced. Has perfect ventilation, very easily cleaned and can be used indoors, outdoors and as a colony coop. You also want to know about THE DANDY EGG TRAP NEST - It traps the egg, registers and releases the hen. Very simple, opens at one end only and may be fastened to wall. You can make them yourself for 5 or 10c each. But the handiest appliance yet is THE DANDY DOOR MANIPULATOR - Operates any number of doors, opening them in morning and closing them at night. Has no batteries, wires, springs, etc. to get out of order. So simple you can make it yourself. Let's the chickens out at sun-up and shuts them up at sundown. It will pay you to investigate the Dandy Specialties.

**THE DANDY BROODER,**  
404, 1st Nat'l Bank Bld'g., Danville, Illinois.

**Poultry Cuts**

We have always on hand a supply of poultry cuts suitable for catalogs, circulars, or advertising. These are not "stock cuts" but in the majority of all cases are reproductions from life, photographs, painting, etc. They represent every variety and strain of fowls and all sizes, from those here shown upward. Write us for sample sheet of proofs, prices, etc.

**Reliable Incubator and Brooder Co.,**  
Box A-15, Quincy, Ill.

**BREEDERS' CARDS**

Four cents per word for one month; 8c per word for 2 months; 9c per word for 3 months; 10c per word for 4 months; 24c per word per year. No ad inserted for less than one dollar. Numbers and initials count as words. Terms, cash with advertisement. Be careful to count the words correctly and thus avoid delay. Copy of advertisement, **PLAINLY WRITTEN**, should reach this office by the first of the month.

**BANTAMS.**

**B. B. GAME BANTAMS.** A few breeding hens, \$2 each. A few choice cockerels and pullets, \$3 to \$5 each. Cockerels not trimmed. L. F. Diddie, Chesterton, Ind. 9-4

**BLACK JAVAS.**

**BLACK JAVAS** exclusively. One hundred choice cockerels for sale. All orders received before December will be filled at \$1 each. Have your order booked now. Gerald J. Townsend, Poynette, Wis. 9-4

**BRAHMAS.**

**DARK BRAHMAS.** We furnish fine breeding stock at reasonable prices. Thos. Perrine, Camp Hagerman, Ohio. 10-4

**LEGHORNS.**

**ONE DOLLAR** and up buys fine White Leghorn cockerel. Charles E. Parrott, Harrisonville, Mo. 11-2

**ROSE COMB LEGHORNS.** White and Brown. Stock for sale. Mulberry Farm, Route No. 7, Bluffton, Ind. 10-4

**HOWARD L. CRISP,** Relay, Md. Eggs from heavy laying White Leghorns, bred from prize winners, \$1 per 15; \$5 per 100.

**ROSE COMB BROWN LEGHORNS.** Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island, N. Y. 5-x

**500 HEAD S. C. W. Leghorns,** both sexes. Big, white beauties, and the heaviest laying strain in America. 135 acres devoted to this one breed. I will please you or refund your money. \$1.50 each; 12 for \$15. Chris. L. Rhodes, Mann, Iron Co., Mo. 11-3

**EMPIRE STATE S. C. White Leghorn Farm.** Cockerels and pullets 5 months old \$1 each. Wyckoff strain heavy winter layers. Catalogue free. Zimmer Bros., Weedsport, N. Y. 9-12

**VANATTA'S S. C. W. Leghorns** again victorious. At Missouri State Fair, August, 1903, in class of 82-8 exhibitors - 1st, 2nd cockerel; 1st pullet; 1st, 2nd pen. Good cocks and cockerels for sale. E. E. Vanatta, Vandalia, Mo. 9-4

**ROSE COMB BROWN LEGHORNS** a specialty; also S. C. Blacks. Stock from prize winners, scoring 90 to 96½. Free range. Stock for sale. Circular free. J. L. Randolph, Box A, Cutler, Ohio.

**IT WILL PAY YOU** to send for my Illustrated Circular of Brown Leghorns if you like to buy cockerels of the best laying and exhibition strain known for \$1 each. H. M. Moyer, Bechtelsville, Pa. Route 2. Lately of Shanesville. 8-12

**\$1 BUYS S. C. BROWN LEGHORN** cockerel. J. W. Wetzel, Enon, Mo. 10-x

**CHOICE SINGLE COMB** White Leghorn cockerels and pullets at \$1 each. Smooth Fox Terrier dogs. F. D. Matson, Rolfe, Iowa. 10-4

**SINGLE COMB BROWN LEGHORNS.** Fine young cockerels and pullets. Old breeders at a bargain. Mrs. I. A. Francis, Route No. 3, Paris, Ill. 10-4

**LANGSHANS.**

**BLACK LANGSHANS** from my yards won last winter for myself and customers at both Dayton and Pittsburg. Get my prices before placing your orders. S. W. Brackney, Santa Fe, Ohio. 9-4

**BLACK LANGSHANS.** Silver Cup State Fair and State Show winners, scoring to 95½. Old and young stock fit to show anywhere. Write at once. A. L. Nokes, Springfield, Ill. 9-12

**MINORCAS.**

**BLACK MINORCAS.** Pullets, cockerels, fine, large yearling hens. Show birds. Strain that wins everywhere. Limited number. Write quick. John M. Lightfoot, Penn Yan, N. Y. 10-3

**NORTHUP'S SINGLE** and Rose Comb Minorcas won 2,000 prizes for customers in America's largest shows, proving the quality Northup sells. Eggs guaranteed to hatch, regardless of distance. Minorcas for sale always. New large catalogue. Geo. H. Northup, Raceville, N. Y. 3-12

**SINGLE COMB BLACK MINORCAS.** Regular egg machines. No better on earth. Choice pullets, \$1 to \$2; cockerels, \$.50 to \$3. We are not so well known, but our birds are as good as the best. Try us once. Beechwood Poultry Farm, 267 West Jefferson Street, Louisville, Ky. 9-4



## ORNAMENTAL.

2,000 BELGIAN Jumbo Homers, heavy squab breeders. Stock unsurpassed; 900 pair. 1,000 Pheasants, 24 varieties, Golden and Silver. \$10 pair. Rare Pigeons, Bantams, Angoras, Swans, Ducks, Colliers, etc. Pamphlet illustrating all breeds, natural color plates, points on breeding, discount, exchanges, 10c. Reply for stamp only. 500 pigeons wanted. United States Pheasantry, Amityville, N. Y. 11-4

## ORPINGTONS.

ORPINGTON GAME FOWLS. More beautiful than Birds of Paradise. Our illustrated circular of best American and Cuban Game fowls, rare seeds, valuable recipes. It's free. Graham Bros., Cameron, N. C. 10-4

300 SINGLE COMB BUFF Orpingtons for sale cheap. Winners at New York, Chicago, Johnstown, N. Y., Orange, N. J., Trenton, N. J. Show birds a specialty. Get my prices before buying elsewhere. H. W. Ackerson, Drawer 69, Washington, N. J. 10-4

BUFF ORPINGTONS since 1898. Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island. President of the American Orpington Club. 5-x

FOR SALE—About 300 young Buff Orpington birds. Cook and Edward strain. Prices reasonable. Birds are all Single Combs. Henry Sult & Son, South Whiteley, Ind. R. R. No. 3. 9-4

373 PRIZES. White, also Single and Rose Comb Buff Orpingtons. Stock, eggs reasonable. Our paper, "Southern Poultry Courier," and "The Orpington" with order. Orpington-Belgian Hare booklets free. J. W. Eastes, Ill. Vice-Pres. American Orpington Club, "Western Home," Galesburg, Ill. 8-12

## PLYMOUTH ROCKS.

BARRED ROCKS, White Rocks. Thoroughbred cockerels and pullets. Fine stock reasonable. Address, Hattie Brown, Box 102, Esmond, Ill. 11-3

BARRED ROCKS. Danbury, 1903, class of thirteen, 2 entries, won 1st cockerel. Youngsters \$2 up. Burt Cowles, Forestville, Conn. 10-4

BARRED ROCKS (Ringlets). Grand bargains in yearling breeding hens. Choice young stock of the finest quality for exhibition or breeding that have size, shape and color. H. E. Kipp, Red Hook, N. Y. 10-3

BUFF PLYMOUTH ROCKS, bred from selected stock, from noted breeders. Thos. Perrine, Camp Hagerman, Ohio. 10-4

BARRED ROCK cockerels from early hatched birds, bred from pen direct from Sid Conger, \$2 up. Good breeding trios, \$5. C. J. Friestad, Glencoe, Ill. 11-1

BARRED PLYMOUTH ROCKS, Thompson's Ringlet strain. A limited number of fine breeding and exhibition cockerels, pullets and yearling hens for sale. Write me for prices. N. A. Gallant, Plattsburg, N. Y. 2-12

FORTY BARRED Plymouth Rock cockerels for sale. Pure Bradley Bros. strain. 15 ribbons on 17 entries at Sanatoga Show, 1902. They won five firsts. Wm. Wisler, Pine Iron Works, Pa. 11-4

FOR SALE—Pure bred Barred and White Plymouth Rock cockerels and pullets, \$1 each. Mrs. J. B. Tolson, Gadsden, Ala. 11-1

BARRED PLYMOUTH ROCKS. Best strains. Write me for prices before buying. W. E. Lamb, Ransomville, N. Y. 10-4

BARRED PLYMOUTH ROCKS. We are not as big as Bradley Bros., but we bought our pen from them to start with and we think we have succeeded. We will sell you a fine bird, male or female, for \$1.50 and one that is fit to compete with anybody's for \$3. If you want them at this price send the money. We guarantee to please or send the money back. Write to-day. Beechwood Poultry Farm, 267 W. Jefferson St., Louisville, Ky. 9-4

FOR SALE—White and Barred Plymouth Rock cockerels for over keepers. Also some pullets. Fine stock. Ellis Burkett, Barbortown, N. J. 10-3

100 COCKERELS for sale. High class White Plymouth Rocks. Prices reasonable. Satisfaction guaranteed or money refunded. C. Wilbur Humphrey, Pomeroy, Ohio. 9-4

BUFF ROCKS. Extra fine, large cockerels \$1, \$2 and \$3 each. Write for description on what price bird you want. Spring Run Poultry Farm, Washington, N. J. 9-2

BARRED ROCKS, line bred, from Bradley's New York winners, scored 99 to 94 show room points for me. Cockerels \$3 to \$5; mated trios, \$7. T. J. Rountree, Nora, Ill. 9-4

## RHODE ISLAND REDS.

SINGLE AND ROSE COMB Rhode Island Red cockerels from my finest birds and prize winners. Barred Rock cockerels, pullet and cockerel breeders. White Wyandotte cockerels. Edwin M. Wilson, Babylon, N. Y. 9-4

## WYANDOTTES.

DUSTON'S WHITE Wyandottes. Cockerels, \$1. Eggs, \$1 per 15; \$4 per 100. Elmer Gimlin, Taylorville, Ill. 11-12

DUSTON WHITE WYANDOTTES direct. Choice cockerels reasonable. Morris & Morris, Morrisonville, Ill. 11-4

WHITE WYANDOTTES. Four famous strains: Smith's "Promoter." (2) Cheston's. (3) Mack's. Duston's. Stock and eggs for sale in season. Cockerels cheap in the fall. D. MacCulloch, Glencoe, Baltimore Co., Md. 11-3

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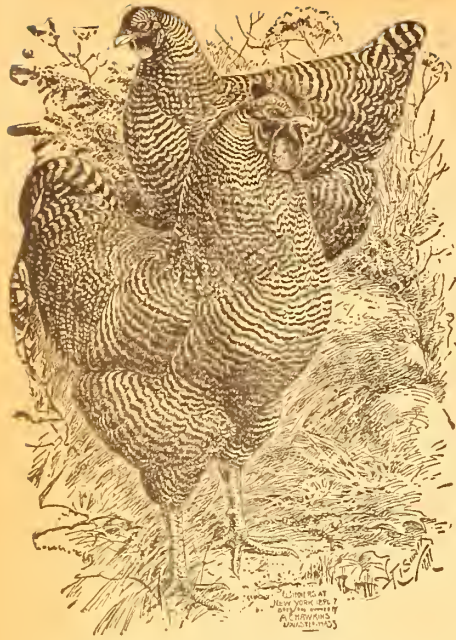
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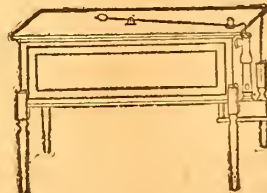
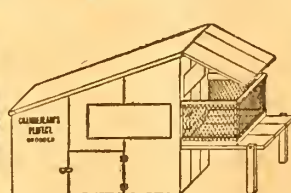
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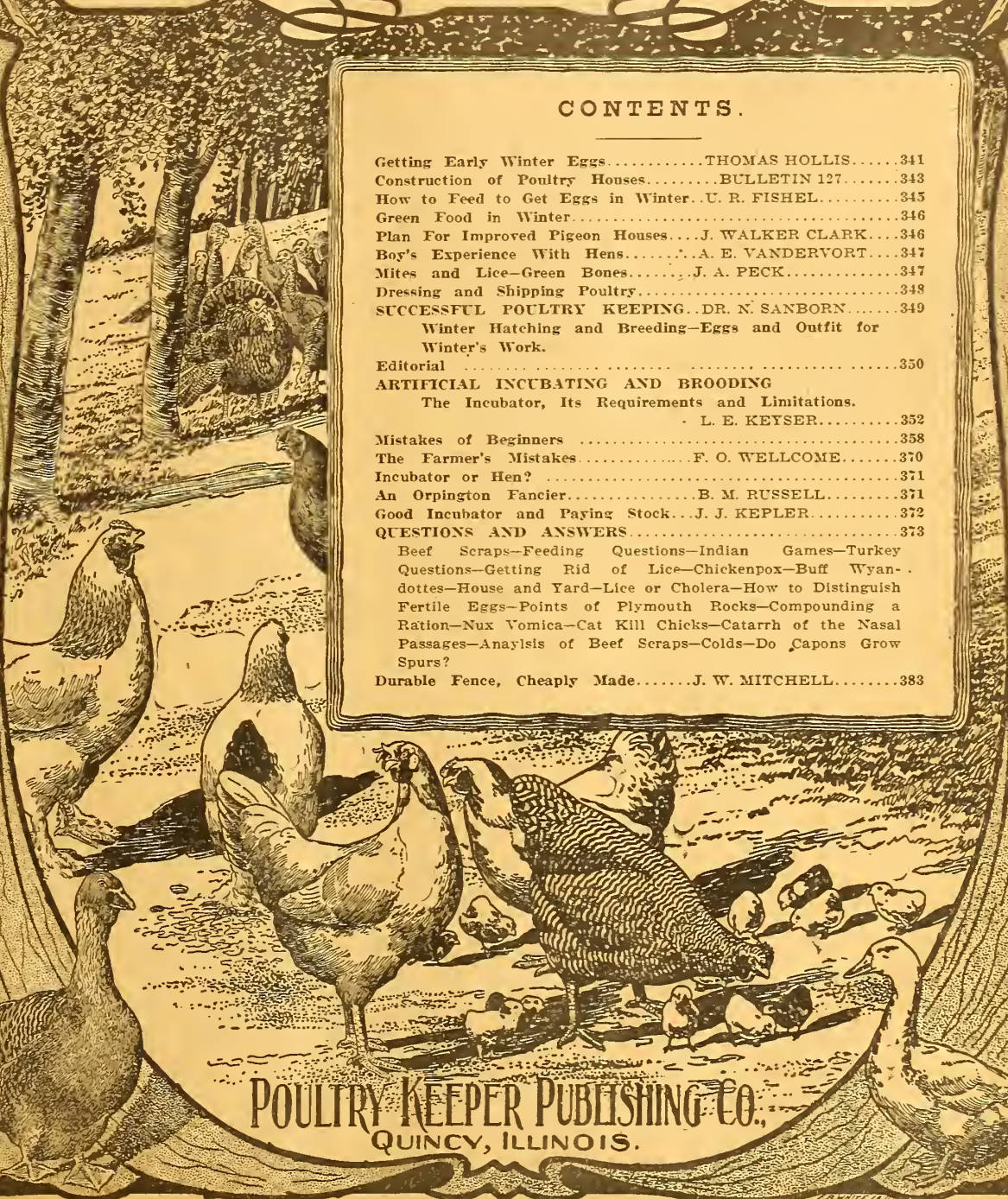
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You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue, price 4 cts. Mention Poultry Keeper.

**Northwestern Poultry and Fruit Farm,**

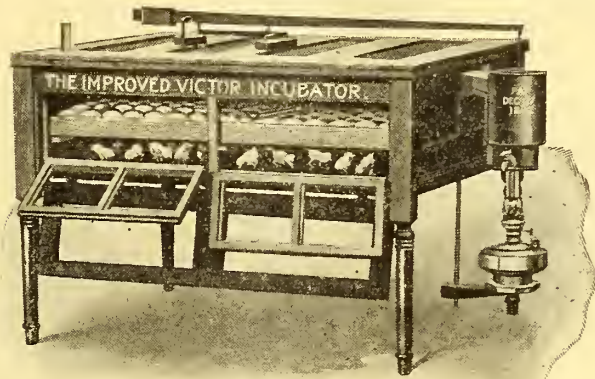
WALTER SEIDEL, Prop., Box K, Eleroy, Ill.



# It Is to Your Interest to Have the Victor Book

We are anxious to send you a copy whether you contemplate the purchase of an incubator now or not. The book contains information that cannot but be helpful to you. We would like you to have it at hand for ready reference. The results of our experiments in artificial incubation may be of benefit to you. You will at least be interested in checking our conclusions with your own. We will be glad, too, to have your criticisms.

If you are interested in the purchase of incubators or brooders or are desirous of fitting up a new brooder house, you will find chapters in this catalogue of vital interest.



When you get new incubators you want, of course, the best. The same also with the brooder. If any maker is able to overcome the difficulties you meet in operating the machines you have you want to know it. It is as much to your financial interest as it is to your convenience and comfort. We know our machines so well that we have no hesitation in asking you to read our book and then compare our machines with any others.

In design, workmanship and efficiency the Victor Incubators and Brooders are just a little ahead.

The book tells how and why. May we send it?

If you are still standing by the old hen and are not yet convinced that chicks can be more profitably hatched and raised by machinery than by the process of nature, you need this book. It will show you opportunities for profit that you are overlooking. It will help you get started in the right direction. It may even convince you that you need an incubator and a brooder. If not that, it will at least give you our latest prices on supplies. We do a large business in this line because our prices are low and the standard and quality of our goods are high.

Write us to-day. Just say "Send the Victor Book" and we'll do it. Ask us any questions about chicken raising that may be perplexing you. We'll answer promptly and cheerfully. Our experts are pretty well posted and it's very few of our correspondents we can't satisfy. At the same time it's good practice for us, as the more we know about the business the better we can make our machines.

We have been in business over thirty-six years. We are proud of our record and want to continue to so treat our customers and friends that our success in the years to come may be as satisfactory as has been our progress in the past.

The shipment of six carloads of our goods in one day last season—surpassing the largest single day's shipment of any of our competitors—shows the present volume of our business. We shall make every effort to continue to please our patrons.

In order that you may not forget to write us please fill out the coupon at the right and mail it to us to-day.

## THE VICTOR BOOK.

Our new issue with valuable information about poultry raising—wonderfully interesting articles on the science of artificial incubation—the story of the development of the chick in the shell—is now ready.

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I saw your ad in Poultry Keeper.

Name.....

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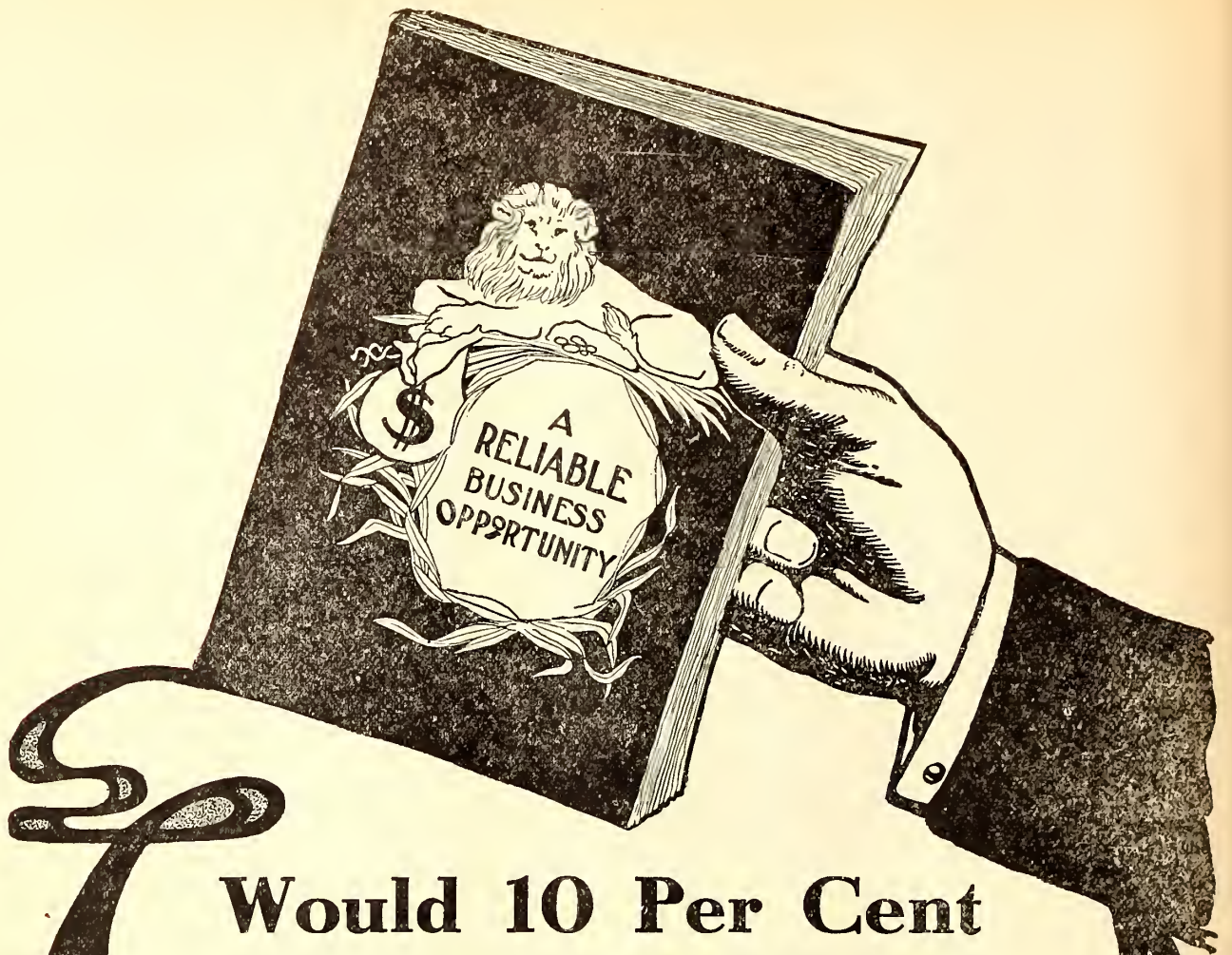
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## Would 10 Per Cent on Your Money Interest You?

If you are looking for an investment opportunity, you will look a long while and a long way before finding anything that will compare to the opportunity which the Reliable Incubator and Brooder Co., Quincy, Illinois, holds out to you. Here is an opening that affords a privilege of joining an old established, sound, successful business enterprise that is a leader in its field. A pioneer institution whose record is worthy of note, and an open book for public perusal. A record to be proud of—a record of success built on good management and honest dealing. There is not the least vestige of speculation in this investment—no risks to run. It is simply a opportunity to purchase stock in a business which paid last year over 10 per cent on every dollar invested. Did your money in bank or in other investments pay that well? We want to tell you more about this opportunity. It is a good thing worth knowing more about.

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It gives a history of the business since its formation—shows its growth year by year, gives its capitalization, earnings, assets and liabilities in plain dollars and cents, and shows the possibilities of of the enterprise. Tells why this stock is for sale—gives a reason that is a credit to its management. Shows the goods made and why they sell ahead all others. It is said "Opportunity knocks at everybody's door"—it is knocking at yours now. Will you let it pass unheeded: or will you investigate? Only a small block of stock offered. Send for a copy of this book today — Do it NOW.

**Reliable Incubator and Brooder Co., Box C-15, Quincy, Ill.**





Wherever poultry is raised you will find the

# Mann's Bone Cutter.

You won't find them stored away nor covered with dust, nor discarded, but you'll find them bright and active, in constant use, turning into good dollars the waste products of the market.

Why has the Mann's found such a wonderful sale? Simply because it is the machine that will cut any kind of bone with adhering meat and gristle, easier, faster and in better shape than any other type; because it possesses more labor-saving devices and has more late improvements than all other makes combined. We invite you to send for a

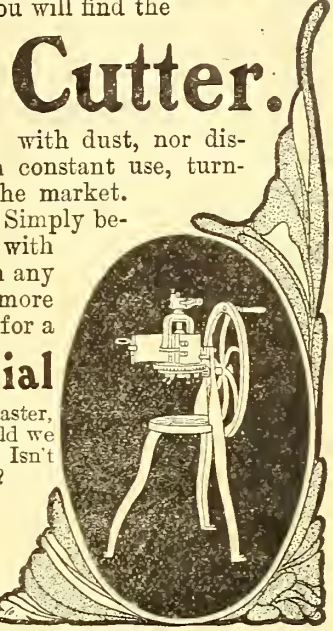
## Mann's Latest Model on 10 Days' Free Trial

on your own premises, without one cent payment in advance. If it doesn't cut faster, easier and better than any bone cutter you ever saw, return it at our expense. Would we dare make such a broad offer if our machine could not fulfill every claim we make? Isn't this better for you than to pay cash in advance for a machine you have never tried?

Catalogue Free.

**F. W. MANN CO., Box 57, Milford, Mass.**

Manufacturers of Clover Cutters, Feed Trays, Granite Crystal Grit, etc.



## To Whom It May Concern:

Friends of progress in poultry matters will be interested in the fact that the capital stock of the Cyphers Incubator Company has been increased from \$100,000 to \$200,000, to enable this company properly to develop and handle its large and rapidly growing business. Ninety-seven and one-half per cent of all new stock sold has been subscribed for by old stockholders.

# The Cyphers Incubator Co.

*is Sole Owner of all Patents*

and trademarks under which its goods have been manufactured during the seven years it has been in existence. As heretofore this company will rigorously protect itself and customers against any infringement of its exclusive rights, or the unlawful imitation of its goods.

The patents owned by the Cyphers Incubator Company are several in number, and were taken out at different times, covering the inventions of several persons. The thirty-two articles and preparations manufactured exclusively by this company are the products of the study, personal experience and observation of eleven widely-known specialists in practical poultry work, men who have devoted many years, practically their whole lives, to earnest work in this field of effort. With one exception these men are permanently in the service of the company, most of them being stockholders. At present, November 10th, this company has 218 persons in its employ, a majority of whom have been with it regularly from one to six years.

**In the Future** as in the past, the Cyphers Incubator Company will spare no effort in maintaining the high quality of its goods, which, because of their special value, are made and sold under patent, trademark, copyright and seal. It is by adhering closely to this policy that we hope to merit the friendship and receive the patronage of progressive poultry keepers who demand standard goods, right prices and prompt attention to their wants. Respectfully,  
CYPHERS INCUBATOR COMPANY.

*Grant M. Curtis*  
President.

*H. E. Moss*  
Vice-President.

*Geo. E. Littlefield*  
Secretary.

Factory and Home Office, Buffalo, N.Y.

### BRANCH HOUSES AND SALESROOMS

Chicago  
310 Fifth Avenue.

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Buffalo, N. Y., November 10th, 1903.



**GYPHERS CLOVER PRODUCTS**

*Put up in Sealed Bags. Guaranteed 95% Pure Clover.*

**Keep the Fowls Healthy. Increase the Egg Yield. Make Fertile Eggs.**

Green food of some sort is absolutely indispensable to the health, vigor and success of your flock. Clover—rightly prepared—supplies it in the most available form. The

**Gyphers Clover Products**

are cut and milled by us, in our own mill by special machinery. We use only best grade of selected, second crop clover. Largest and best mill in existence devoted exclusively to the manufacture of Poultry Foods and Clover Products.

**CYPHERS SHORT CUT SCREENED CLOVER HAY.**

Cut to short lengths and carefully screened. Absolutely no waste. May be fed either with mash or scalded alone. Price, 50 lb. bag, \$1; 100 lb. bag, \$1.75

**CYPHERS SHREDDED CLOVER.**

Resembles fine short cut excelsior in texture. All coarse parts finely shredded, making it easily digestible. Unequaled for breeding stock. Price, 50 lb. bag, \$1; 100 lb. bag, \$1.75

**CYPHERS MEALED CLOVER.**

Cut clover—blossom, leaf and stem—all the plant—reduced to a fine meal. The best form of clover for morning or evening mash and for feeding to small chicks. Price, 50 lb. bag, \$1.10; 100 lb. bag, \$2.

**CAUTION.**

Look for the Seal. Look for the Seal.

All Cyphers foods and clovers are in bags, bearing the Cyphers trade mark, and sealed with lead seal, having "Cyphers" on one side and "Buffalo" on the other. Do not accept a bag with broken seal. **Insist upon the genuine.** You are paying for it and ought to have it. Much better value than any other brand. We invite comparison.

**Ask your Dealer for Cyphers Goods in Sealed Bags.**

We are headquarters for every poultry necessity, patent appliances, supplies, foods, remedies, etc. Get our Supply Catalogue. Free if you name this paper. Address nearest office.

**Cyphers Incubator Co.,**  
New York, Buffalo,  
Boston, Chicago.

Why don't you  
**SEND YOUR NAME**  
TO  
**HUMPHREY**  
Glass St. Factory, Joliet, Ill.  
Get His Free Book

It's a good hen-sense book that talks about poultry profits in a common sense way. It has no mystical rules, but it does give valuable pointers on feeding, brooding and raising fowls. It treats the question from the money making point of view. If you raise poultry you'll be glad you sent. Of course it tells about the Humphrey machines—but you want to know about them, too. These are they:

**The Humphrey  
Open Hopper  
Bone Cutter**

The bone cutter that is guaranteed to cut more green bone, in less time, with less labor and in better condition than any other of your money back. A FREE TRIAL if you want it. Runs easily because you control the feed. No partitions in the hopper. No "feed screws" nor troublesome springs. Only three working parts.

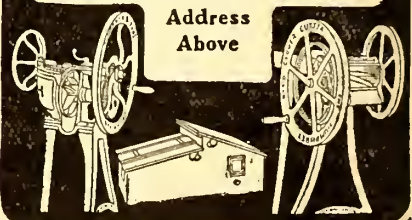
**The Humphrey  
Rapid  
Clover Cutter**

cuts clover and alfalfa to 1/8 inch lengths. No long pieces can get past the knives. Forty cuts to each revolution. Strong and durable.

**The Humphrey  
Pure Air  
Brooder...**

The only really sanitary, cleanly, perfectly ventilated brooder made. You'll be interested in its unique principle. Built on common sense lines. Circular chamber, no cold corners. It costs a little more than some, but it is worth much more.

If you keep poultry you ought to know about these machines—especially as it costs you nothing to investigate. Send your name to Humphrey.



Address Above

**Johnson's  
Old Trusty**

**Incubators**

are made by the man you all know. The chicken man, the practical man, the man who knows about incubators because he knows about chickens. Write and find out about

**Johnson's \$10 Offer.**

If you know Johnson write to him this year; if you don't know him write and get acquainted. He has something special to say to you about incubators and profitable poultry raising in his large, illustrated, **New Catalogue** The effort of his life. It has poultry and egg records, incubation tables, plans for poultry houses and yards. Better start the new year on the Johnson record system. Find out about the thirty days trial and that five years guarantee. All in the book. Plenty of them. They're mailed free.

**M. M. Johnson, Clay Center, Neb.**

Johnson has a special quick shipment plan.

**Trade Your Real Estate** for anything you want. Get our gigantic paper that prints thousands of exchange ads. 6 mo. trial sub. 10c. "This For That," 8-11 Star Bldg. Chicago.



Puritan Chick Food is World Renowned.



TRADE MARK REGISTERED

# Puritan Poultry Farms & Mfg. Co.

STAMFORD, CONN.

## Read our Stupendous Offer!

### PURITAN CHICK FOOD

is bound to revolutionize the poultry raising industry of this country in fact it is doing so very rapidly wherever used. We want all those that have not already tried it to do so at once. We are leaving no stone unturned to get everybody to do so. Just to try it, that's all. The food will soon convince you that you cannot possibly raise chicks for profit without it. It will positively stop that dreadful mortality amongst your chicks. That is what causes everybody to despair so in the poultry business. It is sold to you under that guarantee.

### IT HAS GOT TO DO THE WORK

**T**HAT'S your protection. No "its" and "ands" about it. No conditions of any kind. It will and it must. If not, why then you are not out one single penny. You get your money back, every cent of it, and also the transportation charges you have spent in getting the food to you. All that it costs you is one cent for a postal card to us. We would not, we could not urge you to try this if we did not know what the result would be, and if you would not benefit greatly thereby, for if you do not benefit we are the losers, not you. This fact, and the voluminous testimony of all those that have once used the food must convince you that our extraordinary claims are just.

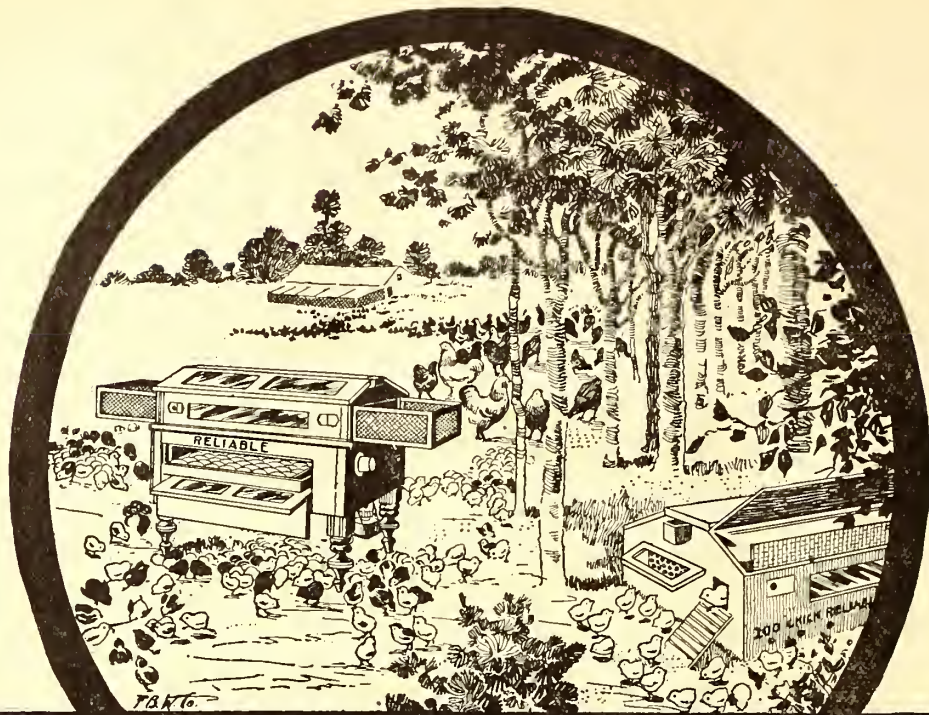
This unheard of offer really admits of your buying the food under a positive guarantee—a guarantee that means something. Compare this for a moment with other "guarantees."

Incubator manufacturers, for instance, in some cases sell you their goods "on trial." But what does that mean? You try the machine, and if you are not satisfied you can return it at the end of a certain limit, usually 30 days. It takes 21 days to hatch your birds. The machine must be uncrated and set up, and then run for three or four days more prior to using, then it will probably be the 22d day of the hatch before you can take your last chick out, and you must then recreate the machine, if you are not satisfied, and truck it down to the depot. If you can do all this in the 30 days, you will get your money back, provided the bank that holds it in trust has not turned it over to the company, the time limit having just expired. Thirty days is a very narrow margin. Even so, you are out the freight both ways, and the company gets their goods back. Now, see the difference: You try the food—a five pound box. Use it all up. Take your time about making up your mind. If it fails to live up fully to all our claims, demand your money back; return us nothing. You simply say, "I am not satisfied," and your money is promptly refunded, and we pay the express charges! Will you resist an offer such as this? We trust not. Send today to our nearest dealer, a comprehensive list of which follows and drop us a postal, and we will keep your name on our mailing list and send you all our printed matter as soon as issued, and our elegant Free new catalogue, which will be far more interesting even than the last. We want to keep in touch with you, and want you to feel that our welfare is mutual.

## PURITAN CHICK FOOD Is sold by all a few following. Write us for nearest dealer's name. Leading Dealers.

| DEALER'S NAME.                       | ADDRESS.                      | STATE.    | COUNTY.        | LOCATION IN STATE. |
|--------------------------------------|-------------------------------|-----------|----------------|--------------------|
| <b>EASTERN.</b>                      |                               |           |                |                    |
| A. I. Bickford & Co.                 | Bangor                        | Me.       | Penobscot      | Center.            |
| J. T. & F. J. Burns                  | Millford                      | N. H.     | Hillsboro      | South.             |
| L. M. Biddett & Co.                  | West Burke                    | Vt.       | Caledonia      | North.             |
| W. Barrett & Co.                     | Providence                    | R. I.     | Providence     | East.              |
| C. W. Shaw                           | Springfield                   | Mass.     | Hampden        | South.             |
| Squires Day & Co.                    | Lynn                          | Mass.     | Essex          | East.              |
| W. C. Hancock                        | Neponset St., Hyde Park       | Mass.     | Norfolk        | East.              |
| Meech & Stoddard                     | Mid-Jetown                    | Conn.     | Middlesex      | South.             |
| F. Grosbeck                          | Hartford                      | Conn.     | Hartford       | North.             |
| C. C. Fairbanks                      | Saybrook                      | Conn.     | Middlesex      | South.             |
| W. M. Blot                           | Rowayton                      | Conn.     | Fairfield      | Southwest.         |
| The Dickermann Hardware & Supply Co. | 33 Main St., Wallingford      | Conn.     | New Haven      | South.             |
| G. H. Smith                          | Town Mill, New London         | Conn.     | New London     | Southwest.         |
| Addison I. Cowles                    | Lakewood                      | Conn.     | Hitchfield     | Northwest.         |
| Schilling Zoological Stores          | 28 Coopers                    | N. Y.     | Westchester    | Southwest.         |
| Easton, Rising & Worden              | Hoodick Falls                 | N. Y.     | Rensselaer     | East.              |
| J. Martin Case                       | Hillsdale                     | N. Y.     | Columbia       | Southwest.         |
| Canfield Coop Co.                    | Bath                          | N. Y.     | Stenben        | South.             |
| The Poultry Supply Co.               | Elders                        | N. Y.     | Cattaraugus    | East.              |
| T. W. Parsons                        | Lyons                         | N. Y.     | Wayne          | North.             |
| W. Curtis & Co.                      | Ransomville                   | N. Y.     | Niagara        | Northwest.         |
| Rochester Poultry Supply & Seed Co.  | 341 Monroe Ave., Rochester    | N. Y.     | Monroe         | Northwest.         |
| Peter J. Krug                        | Herkimer                      | N. Y.     | Herkimer       | Center.            |
| Wm. D. Burr                          | Dalton                        | N. Y.     | Livingston     | West.              |
| John Rinnle                          | Baldwins                      | N. Y.     | Queens         | Southwest.         |
| The Geo. W. Head Co.                 | Utica                         | N. Y.     | Onondaga       | Center.            |
| F. H. Valentine                      | Jefferson                     | N. J.     | Bergen         | Northeast.         |
| W. G. Adams                          | 36 Jefferson Ave., Elizabeth  | N. J.     | Union          | East.              |
| A. Sprague                           | Putnerford                    | N. J.     | Bergen         | Northeast.         |
| Frank G. Weed                        | Hightstown                    | N. J.     | Mercer         | Center.            |
| <b>WESTERN.</b>                      |                               |           |                |                    |
| F. S. Birch & Co.                    | Chicago                       | Ill.      | Cook           | Northeast.         |
| Ripley Hardware Co.                  | Grafton                       | Ill.      | Jersey         | West.              |
| A. C. Brown                          | Springfield                   | Ill.      | Sangamon       | Center.            |
| C. H. Kempton                        | Normal                        | Ill.      | Montgomery     | Center.            |
| Arg. J. Bird & Carlo Store           | Peoria                        | Ill.      | Peoria         | Center.            |
| C. D. McVicker                       | West Salem                    | Ind.      | Wayne          | East.              |
| Cleveland Poultry Supply & Mfg. Co.  | 1185 Hamilton St., Cleveland  | Ohio      | Cuyahoga       | Northeast.         |
| Otto H. Magley                       | 40 Deshler Ave., Columbus     | Ohio      | Franklin       | Center.            |
| J. H. Davis                          | Caledonia                     | Ohio      | Marion         | Center.            |
| Louis Harley                         | 937 E. 5th St., Dayton        | Ohio      | Montgomery     | West.              |
| James F. Wright                      | Worthington                   | Ohio      | Franklin       | Center.            |
| Peoples' Forwarding Co.              | Salt Lake City                | Utah      | Salt Lake      | Center.            |
| <b>WESTERN—(Continued).</b>          |                               |           |                |                    |
| Forbes Seed Store                    | Plymouth                      | Ind.      | Marshall       | North.             |
| Weinich Seed Co.                     | Wilwaukee                     | Wis.      | Milwaukee      | Northwest.         |
| John A. Valzer Seed Co.              | LaCrosse                      | Wis.      | LaCrosse       | West.              |
| L. L. Olds                           | Clinton                       | Wis.      | Walworth       | Southwest.         |
| Royce & Passmore                     | Detroit                       | Mich.     | Wayne          | Southwest.         |
| Jones Seed Co.                       | Gr. Rapids                    | Mich.     | Kent           | West.              |
| Curtis Bros                          | Red City                      | Mich.     | Oscoda         | Center.            |
| Economy Supply Co.                   | Battle Creek                  | Mich.     | Calhoun        | South.             |
| Chesmore P. Lake Mer. Co.            | St. Joseph                    | Mo.       | Bethanan       | Northwest.         |
| C. S. Munting                        | 8817 E. 13th St., Kansas City | Mo.       | Jackson        | West.              |
| William T. Moore                     | St. Louis                     | Mo.       | St. Louis City | East.              |
| Owen & Co.                           | Topeka                        | Kan.      | Shawnee        | East.              |
| J. L. Group                          | Concordia                     | Kan.      | Cloud          | North.             |
| Edgar Padelford                      | Barnes                        | Kan.      | Washington     | North.             |
| Joseph A. Jacobs                     | Belleville                    | Kan.      | Republic       | North.             |
| Deimar Pntnam                        | Green                         | Kan.      | Clay           | North.             |
| Richias Seed Store                   | Carthage                      | Mo.       | Jasper         | Southwest.         |
| Seldomridge Bros.                    | Colorado Springs              | Colo.     | El Paso        | Center.            |
| Voigts Sons                          | Ft. Madison                   | Iowa      | Lee            | Southwest.         |
| C. H. Sherman & Sons                 | Frederic                      | Iowa      | Chickasaw      | Northeast.         |
| L. Matthew                           | Miami                         | Ind. Ter. | Ottawa         | Northeast.         |
| S. Fletcher                          | Watertown                     | S. D.     | Codington      | East.              |
| Jacobson Bros.                       | Waconda                       | S. D.     | Clay           | East.              |
| Arnold Kealy                         | Vancouver                     | Canada    | B. C.          | West.              |
| <b>NORTHERN.</b>                     |                               |           |                |                    |
| Graham Bros                          | Ottawa                        | Canada    | Ontario        | South.             |
| A. J. Morgan                         | London                        | Canada    | Ontario        | South.             |
| J. Baum Coate                        | Bic Rimonski                  | Canada    | Quebec         | East.              |
| <b>SOUTHERN.</b>                     |                               |           |                |                    |
| Fanciers Supply Co.                  | Richmond                      | Va.       | Henrico        | Center.            |
| J. H. Matthews                       | Stanton                       | Va.       | Augusta        | West.              |
| Norfolk Farm Supply Co.              | Norfolk                       | Va.       | Norfolk        | Southwest.         |
| W. W. Knip                           | Pottstown                     | Pa.       | Montgomery     | Southwest.         |
| W. M. Hoeder                         | Hosensack                     | Pa.       | Lehigh         | Southwest.         |
| Woodlawn Poultry Farm                | Johnstown                     | Pa.       | Cambridge      | South.             |
| W. J. Magee                          | Hill City                     | Pa.       | Venango        | Northwest.         |
| R. A. Hannah & Co.                   | Sharon                        | Pa.       | Mercer         | West.              |
| Electra M. Craig                     | Waycross                      | Ga.       | Ware           | Southwest.         |
| Alexander Seed Co.                   | Angusta                       | Ga.       | Fitchmond      | East.              |
| F. J. Marshall                       | Atlanta                       | Ga.       | Fulton         | West.              |
| Griffit & Brner                      | Baltimore                     | Md.       | Faltimore      | North.             |
| Waggoner & Bro                       | Johnsonville                  | Tenn.     | Humphreys      | West.              |
| A. A. Chickering & Co.               | Lonsville                     | Ky.       | Jefferson      | North.             |
| H. M. Collins                        | Charleston                    | S. C.     | Charleston     | Southwest.         |
| B. S. Davis                          | Charlotte                     | N. C.     | Mecklenburg    | South.             |
| Barber's Drug & Seed Store           | Birmingham                    | Ala.      | Jefferson      | Center.            |
| A. F. Kotzebue                       | Moniton                       | Texas     | Lavaca         | South.             |
| The Norton Poultry Yds.              | Dallas                        | Texas     | Dallas         | Northeast.         |
| Ed. S. Schmid                        | Washington                    | D. C.     | Dist. of Col.  | West.              |
| Wm. A. Bours & Co.                   | Jacksonville                  | Fla.      | Duval          | Northeast.         |





# What Incubator Will You Buy?

One that has been thoroughly tested and accepted for its merits by the majority of the principal shows in the world, or one that is in an experimental stage? There are Incubators of all sorts and kinds offered you, each claiming to be the best. We do not expect you to take our unsupported word as to the merit and value of the

## Reliable Incubators and Brooders.

We ask you to investigate our claims, ask any experienced poultry raiser who has tried the Reliable, and then decide for yourself. To help you to get at the root of the poultry question, we have published our elaborate

### 19th Annual Poultry Book and Catalogue Combined.

It discusses every phrase of the poultry question, containing chapters on Poultry Raising on the Farm, Feeding for Eggs, Raising Broilers, Capons for Profit, etc. It will be sent free on receipt of 10 cents to pay postage.

### Our Poultry Yards.

We give our personal attention to the breeding of extra fine fowls of the Standard variety. Eggs and prize-winning birds in season, described in the 19th Annual Poultry Book. Address,

**RELIABLE INCUBATOR & BROODER CO.,**

Box A-15, QUINCY, ILLINOIS.





**Read These**

**Reasons Why**

**The H-O Co.'s Poultry Feed  
is the Feed to Buy**

What some of the many users say:

We have just finished a very satisfactory test in feeding your H-O Poultry Feed to laying hens from a flock of White Wyandotte hens that were producing from 9 to 11 eggs per day on June 10th on our usual feed. The same flock on your feed increased to 20 and 22 eggs per day.

W. R. CURTISS & Co.

I like the mash much better than I expected.

A. C. LEDUC.

In the fall of 1901 I bought 10 pullets. In the following February they laid 198 eggs. Feed was H-O Company's Poultry Feed.

CHAS. O. FAY.

By keeping a careful record of the H-O Feed against other feeds and whole grains I find that even at \$1.75 or \$2.00 per bag one hundred pounds of H-O Poultry Feed is cheaper to the consumer by nearly one-half in total cost than other feeds. I feed one pound to twelve hens, and find it more than sufficient. I am always particular to mix it up with boiling hot water.

W. H. CARD.

It increases the egg output fully 30 per cent and shortens the moulting season greatly.

JOSEPH SOUTHWICK.

After having fed your H-O Poultry Feed for one week my pen of 25 hens increased their egg yield from 12 and 14 to 22 and 24 eggs per day.

JOHN CARROLL.

My experience is that the H-O Company's Poultry Feed increases the egg yield and keeps the fowls in excellent condition.

WM. F. BRACE.

It is the best food for chickens I have ever used. My hens laid all winter long, averaging twelve dozen a month on fourteen hens.

WM. SAUNDERS.

I use it. It is the very best egg producing feed on the market.

WM. ARTHUR THOMAS.

Am not only very much pleased, but surprised at the result, several of the cockerels now weighing 3½ to 3¾ lbs at 12 weeks old. I must say H-O is O. K.

B. J. HEWITT.

**Other good reasons for the asking. Send for Circulars. Local agents wanted.**

### **OUR FEATHER GUESSING CONTEST**

is creating wide-spread interest. If you have not registered a guess we would be pleased to mail you the conditions governing same, that you may avail yourself of the opportunity of winning one of the many prizes offered.

**Contest Closes Dec. 15th**

**The H-O Co., Buffalo, N. Y.**



**SMITH'S SEALED LEG BANDS.**

were designed to insure positive identification of scored birds, and they do it. No fast bands. No duplicate numbers. Prices, post-paid, 30c per 12; 25, 50c; 60, 51; 100, \$1.50. Five sizes wanted. Scales, plain, 50c; lettered, 65c; nickel plated, 75c. Sample and our leg band booklet for stamp.

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The childhood innocence, beauty, joyousness and healthy color in this picture must touch a tender chord in every heart. Maude Humphrey has made the faces, aglow with excitement in the butterfly chase, rival the beautiful roses around them. The subject "appeals" to old and young. It is a work of art well worth a prominent place in every home. It is **one yard long**, on finest heavy copper-plate paper; and in 12 colors, thus making it true to nature.

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**OUR OFFER:** Farm and Home, our national semi-monthly, already has a circulation of over 350,000. To introduce it into thousands of homes where it is not now taken, we will send you FARM AND HOME three months for 10 cents (silver or stamps). Further, if you will send us at the same time the name of one other person to whom we can send a free sample copy of FARM AND HOME, we will send you, postpaid, this beautiful yard picture.

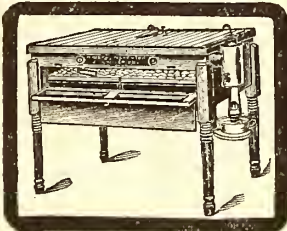
**MORE STILL** All accepting this offer will also receive our beautiful Illustrated Premium List, containing over 200 useful articles and some of the most remarkable offers ever made. Agents Wanted Everywhere. Liberal commission for good work. Address, mentioning this paper, FARM AND HOME, Chicago, Ill., or Springfield, Mass.

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are perfect as to regulation, ventilation and moisture. The one with the Ideal Nursery Draw. It gets the most chicks from the eggs and the brooder saves them all. Freight paid in the U. S. Send for free catalog.

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has put twenty years of practical poultry incubator and brooder experience into machines of this class. He put out thousands of them last year, and they gave the most perfect satisfaction.

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**Ideal Incubators and Brooders**

are good, common sense machines, made for the people who want results, without bother and loss. They are entirely automatic. They heat with hot water. Miller's experience found that to be the best. They are sent anywhere in the United States on

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**BARRED PLYMOUTH ROCKS WE BRED AND RAISED.**

**HAVE WON AT NEW YORK SHOWS AS FOLLOWS:**

- (1)  MORE FIRST PRIZES than any other exhibitor has won on Any Stock.
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- (3)  Nearly DOUBLE the number of FIRST PRIZES on COCKS and COCKERELS of any other exhibitor.
- (4)  And THREE TIMES the number of FIRST PRIZES on MALES that any other exhibitor has won on stock not our breeding.

**ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS.**

No less than Thirty-five Winning Males at New York Shows, Singly or at Head of Pen, have been bred by us from our "Grandson's Brother" line and its near relatives.

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THREE of the FOUR HIGHEST PRIZES on COCKS and COCKERELS were won by birds from our "Grandson's Brother" lines, and our First and Second Prize Pullets, Judge Scudder, who has placed the awards on Rocks at nearly every New York Show for fourteen years, stated, were the Highest Scoring of any he ever Judged in the Garden.

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**ALL OUR TWENTY-SEVEN WINNERS** were from our own yards except two; one of these was hatched from our eggs direct—the other, a fourth place bird, was bred from our stock.

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We were a long time finding out just what was best. We know now; so does everyone else who has ever tried

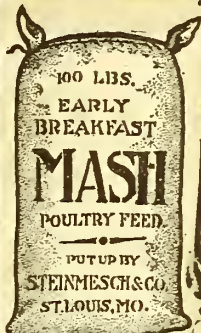
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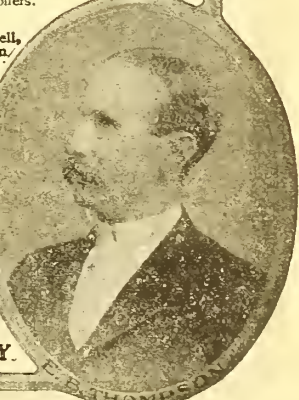
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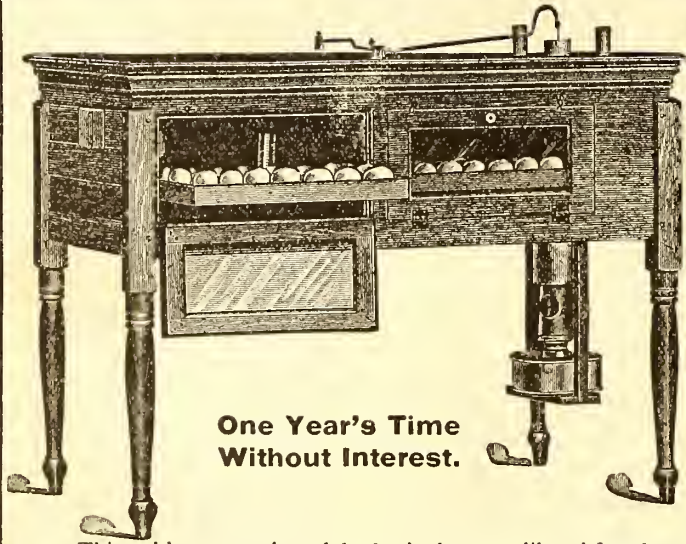
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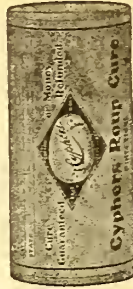
There are no conditions or strings to our proposition. We mean every word we say in this advertisement. If you are interested in Incubators and Brooders, for your own protection, you should write at once for our free, unique Incubator Book, which is a mine of useful information, and gives full description and prices of our machines.

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kills all lice and mites. No injury to birds or feathers. Handles any fowl, smallest chick to largest gobbler. Made in three sizes. Pays for itself first season. Also *Lightning Lice Killing Powder, Poultry Bites, Lice Marder*, etc. We secure special low express rates. Catalogue mailed free. Write for it. **CHARLES SCHILD, Ionia, Mich.**

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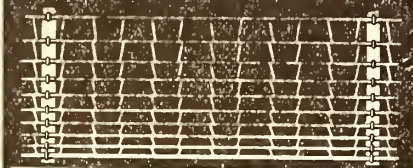
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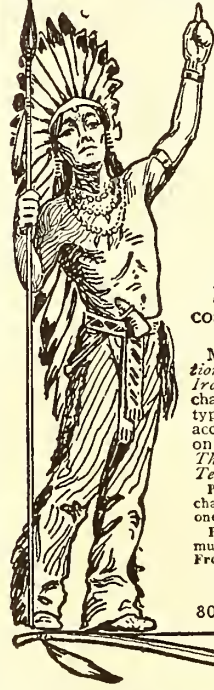
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# An "Honest Injun" Incubator



When choosing your incubator be sure to get one that is honestly constructed all through.

## The Hiawatha Incubator

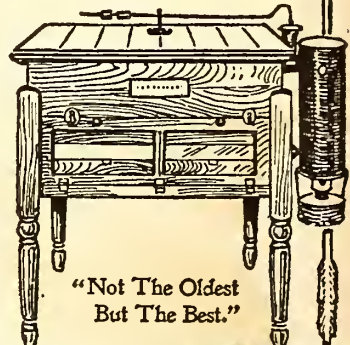
is just as good inside where you can't see as it looks outside. **The Lumber**—Red Cypress, carefully selected and kiln-dried. **Construction**—Double top and side walls, lined with sheet asbestos and strawboard. Framed panels instead of matched lumber only, as in many others.

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**Some Special Features.** Most perfect system of *Heat Distribution*. Cold corners impossible. *Russia Iron Heater*. No fumes can get in egg chamber. *Thermostat* is double wafer type; quickest, most positive and most accurate. *Extra large lamp* burns 40 hrs. on one filling. Flame won't creep up. *Thermometer* specially made for us. *Egg Tester* free with each machine.

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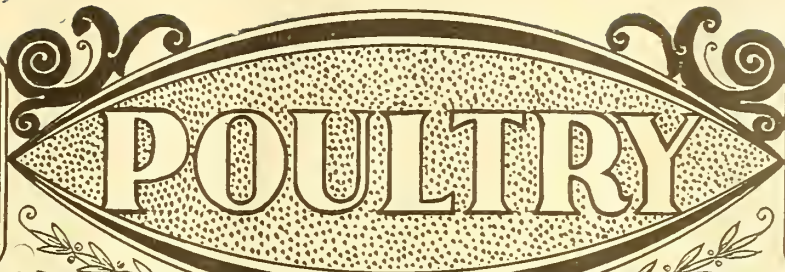
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EVERYONE  
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# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, DECEMBER 15, 1903.

No. 9.

## GETTING EARLY WINTER EGGS.

Conditions That Tend to Success Under Control of Poultrymen.  
When, How and What to Feed.

By THOMAS HOLLIS.

**G**ETTING early winter eggs is the one part of the poultry business which has succeeded beyond all others in my experience. Up to two years ago I had paid more attention to this than to

anything else and had reached results which seemed to me very satisfactory. It has become so easy for us to produce winter eggs that we never think of it as an impossibility.

I believe that good management and

oversight can overcome about all the influences that tend to affect poultry adversely. I have not much use for the fellow who is continually "hollering" about bad luck. I have had about all the unpleasant experiences that a poultryman generally encounters, and almost without exception I think I can say they were due to a lack of oversight rather than to what is usually termed "bad luck." I believe the conditions that tend toward success are mostly under the control of the poultryman. In poultry keeping, as in any other business, "if one would succeed he must conform to all the conditions of success."

To illustrate, it seems to be very easy for the average poultryman to keep the temperature under the hovers in his brooders at a fair degree of constancy for two or three weeks, then some night he gets a little careless and the temperature runs up 10 or 15 degrees and stays so for several hours. This one slip on his part may cost him his success for the winter provided his house is full of chickens at the time. The man who was not made to succeed will lay this to "hard luck" because a piece of coal got stuck in the door of the heater so that his automatic regulator could not work.

The one who was made for success, however, will ask himself why he did not have a check upon his automatic in the shape of a bell at the head of his bed worked by a second thermostat so that when the piece of coal got under the door he would have been warned of the danger in time to correct the trouble. The latter man would lose no time in guarding against another accident of the same kind, and would probably come out with flying colors in the end. This is simply because he recognizes the fact of his own imperfections and is willing to remedy the trouble. In other words, he is ready to use his brain, and expects to overcome difficulties rather than succumb to them.

Begin Laying in October.

We mate our pens about the middle of January and begin to hatch during February. We get the breeding stock onto free range, if possible, during the months of April and May, and find that the eggs are stronger and run much more fertile when we are able to do this. We



High-Bred White Minorca Pullet owned by C. H. Staunton, Barton Heights, Va. "This is one of my own raising," writes Mr. Staunton, "reared in a Cornell Brooder and fed Harding's Chick Food. 'The best' is my motto, and with Cyphers Incubators, Cornell Brooders and Harding's Chick Food I know just what to expect."





White Wyandotte male, bred by Ira C. Keller, Prospect, Ohio. This bird is almost ideal in pure white color and Wyandotte type and shape. He is line bred and represents the Keller strain, which is bred for eggs as well as for the showroom. One of these pullets, Mr. Keller reports, has laid this year 235 eggs, and it is expected that she will break the record for the breed.

also find that the chickens hatched from eggs laid by hens on free range are easier to grow, mature more quickly and are more to be relied upon for steady production of eggs during the winter. We get our chicken onto free range as soon as possible after they are hatched and keep them there until they are placed in the laying houses in the fall. We have meat scraps and corn always before them and feed a mash once a day, usually in the morning. Water and grit are always where they can get them. They are well housed, having a dry place to which they may retire in rainy weather, and a secure place at night. Under this treatment we have no difficulty in getting eggs from the first of October on through the winter months.

#### When, How and What to Feed.

We have done a good deal of experimenting upon feeding laying hens, and last winter settled down to the following system: In the morning a feed of grain was given in litter, perhaps two-thirds as much as would furnish a full feed. This kept them busy for half the forenoon, when they were at liberty to run about the yard, or dust themselves in the pens until noon. At noon a few handfuls of oats were thrown into the litter to keep them busy until the night feed, when we were particular to see that they had a full meal of a mash composed of cut clover, bran, cornmeal, middlings and meat scraps. The proportions of ingredients in the mash we vary according to results desired, and also according to the needs of different pens. Beside this feed we always place a good sized mangel wurzel in each pen, which helps to keep them busy during the day and usually disappears before night. Oyster shells, grit and water are always before them.

This general rule of feeding, coupled with the judgment that goes with long practice, makes hens lay eggs in winter on our farm. We have tried feeding a mash in the morning, but do not like it as well as the present system, our idea

being that it is more difficult to judge of the proper amount to be fed in the morning than it is to give a full feed at night. If the birds are overfed in the morning they are apt to be lazy through the day, which means that they will take on fat instead of laying eggs, while a full crop at night is a benefit to them, especially in cold weather.

We hear and read a great deal about the benefit of feeding whole corn at night because it is harder to digest and remains in the crop longer than the mash. Our theory on this, however, is that no food assists in warming the body until it becomes assimilated. Mash certainly assimilates faster than whole corn, consequently we believe the mash keeps the birds warmer at night. However this may be, our greatest success lies along the lines we have laid down in the foregoing.

#### Systems of Breeding and Maturing.

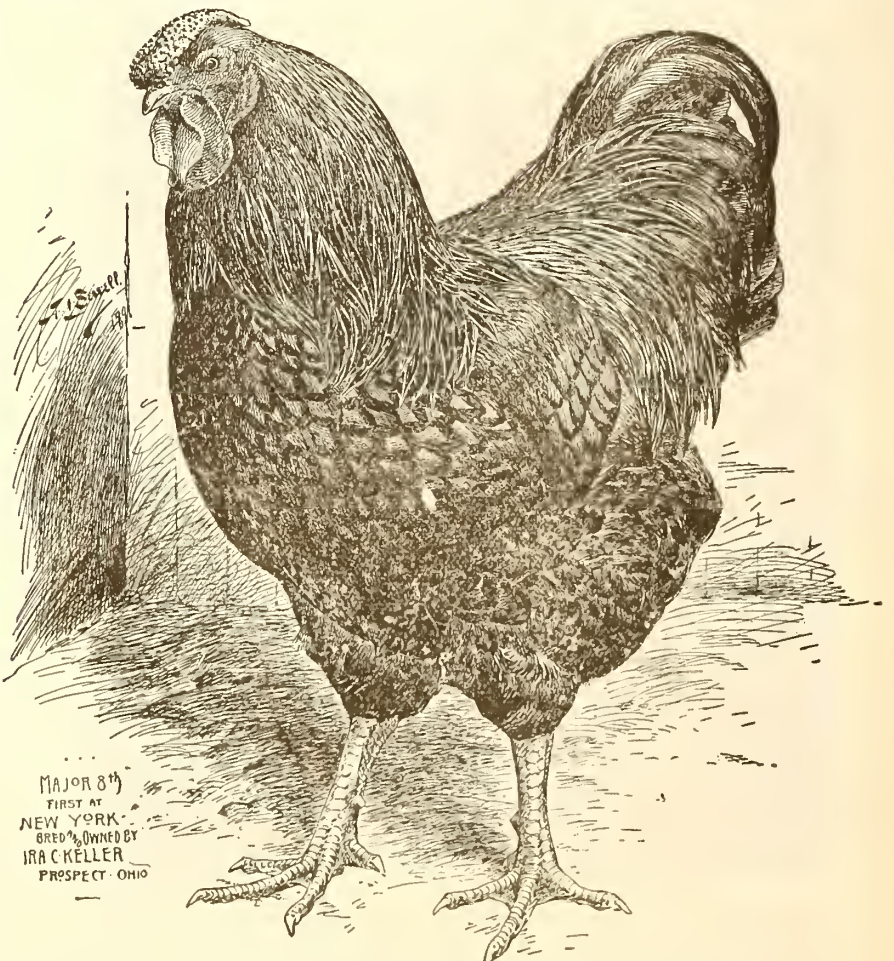
We prefer to breed within our own flocks as far as possible. If we decide that an admixture of new blood will be a benefit we generally do it through the female side. If we can find a hen that fills our eye as to type, and which is known to have laid well, we buy her and mate her with one of our own male birds, using the product of this mating to assist us in retaining the vigor we are seeking in our stock. This is a common method in use by many breeders, and has nothing original in it. We do not object at all to close inbreeding and

think line breeding an excellent thing if one can spare the time to carry it out to a definite conclusion. It requires a little more study and a little more pains in following the records of individuals than most poultrymen care to devote to it, but is no doubt beneficial where properly handled.

We mate indiscriminately according to the individual make-up of the birds, and seem to have good success. The most disastrous results we have ever had have been brought about by an effort to introduce new blood through the male line; that is, by purchasing male birds from other breeders to use in our breeding pens. The results from several matings of this kind were particularly disastrous last winter. We lost on size, shape and quality of the chickens; in other words, the "nick" was no good. We shall be very particular about this in the future. We tried about all the systems of breeding that were possible for an amateur to try, and later became quite interested in individual records and careful breeding based on these records. Winter before last we ran trap nests on some three hundred Wyandottes. We learned many useful things, but should never again attempt this system on so large a flock. We believe it a good thing on small breeding pens when careful records are to be kept. In fact, we do not see how the best results are to be obtained without the use of trap nests.

#### The Choice of Breeds.

The most serious mistakes we have



An excellent Golden Wyandotte male, bred and owned by Ira C. Keller, Prospect, O.



## CONSTRUCTION OF POULTRY HOUSES.

### Method of Housing Poultry to Keep Stock in Most Vigorous Health. A Scratching Shed Plan—Materials Re- quired—Inside Arrangements.

[From Bulletin 127, "Farm Poultry" issued by the Ontario Agricultural Department and written by Mr. W. R. Graham, Manager of the Poultry Department.]

made were in connection with choice of breed. Certain breeds seem to run out no matter how much effort is made to keep them where they belong. Other breeds naturally progress as they should and insist upon growing stronger year by year in spite of neglect. Why this is I do not know.

#### "Best Laying Flock of Hens."

The most fortunate thing that ever happened to me in this connection was an accidental introduction to the Rhode Island Red. I happened to become possessed of a pen of seventeen Red pullets. I did not expect to keep them, but while I was discovering a way to work them off they began to lay so well that I decided to keep them a while and see what they would ultimately accomplish. They were the best laying flock of hens I had ever had up to that time and their progeny has added to, rather than detracted from, their glory. The Reds are essentially a utility fowl. They do not breed to color with any particular regularity at present, although there are certain strains that show considerable prepotency, but as a utility fowl they are certainly far in the lead of anything with which I am acquainted.

Of course there are strains that are no better for poultry than some strains of Wyandottes, Plymouth Rocks or Light Brahmas. This is nothing against them as a breed. I have marketed some most excellent poultry from my Rhode Island Red flock and expect to market a lot more.

As layers the Reds have accomplished great results for me. They not only lay a great many eggs during the winter season, but have very few set backs, the records showing no serious falling off at any time. They eat less than any other breed I have handled. In short, they have laid for me 20 per cent more eggs than a good laying strain of Wyandottes, and have eaten perhaps four-fifths as much food. They mature a month earlier than the Wyandotte.

"The advent of trap-nests has been the means of more good in poultry culture than any other invention of recent years. They are the only guides to success."—M. K. Boyer.

"My motto is to give better value for less money than anybody else. My first step in all inventions is to provide the public with something it has not got, and to do so at a lower cost than any other man could do it."—Thomas Edison.

The technic of poultry keeping can be taught, but success does not depend wholly upon an understanding of the how and the why. A mechanical mind can follow strict rules according to some exact system and yet fail to get as good results as some other man who ignores both rules and system. The human brain is the seat of success as well as the soul, hence the successful man puts his brains into his work. Success cannot be learned or taught. It is inevitable to some and impossible to others, but keen interest and persistent labor always accompany genuine success.

WE FIND poultry thriving and yielding good returns in so many different styles of houses that it is very difficult to lay down any hard and fast rules. The tendency at present is towards cheaper houses, with better ventilation. The hot-house style of housing poultry during the winter has not been satisfactory, many of the houses being damp and the air in them anything but agreeable. Disease has been quite common, and the results in many cases have been disappointing. To the plans given below there are no doubt some objections, but there are strong points in

the fowls are allowed exercise in the open air, and are, at the same time, protected from the wind. It also furnishes a warm roosting pen.

After a very careful inspection of several hen houses erected on many of the leading poultry farms of the eastern states, Mr. Baldwin decided to build a hen house on the scratching shed plan. He came to the conclusion that this plan was best suited for a climate such as they have in Toronto.

His hen house is a frame building 72 feet long and 10 feet deep, and is divided into four scratching sheds and four hen

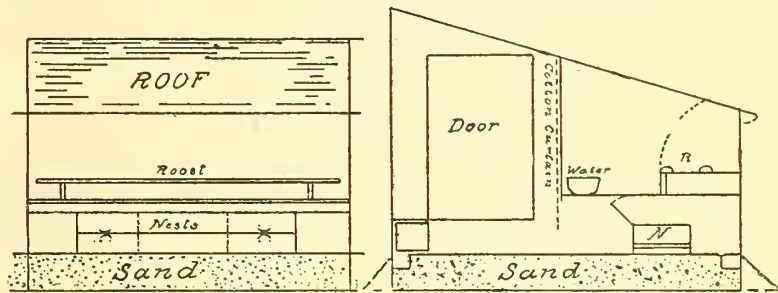
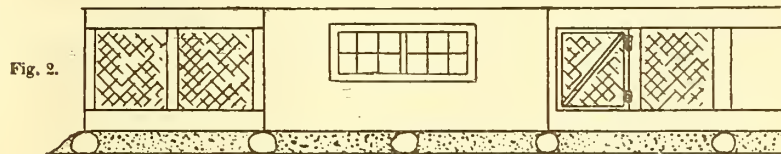
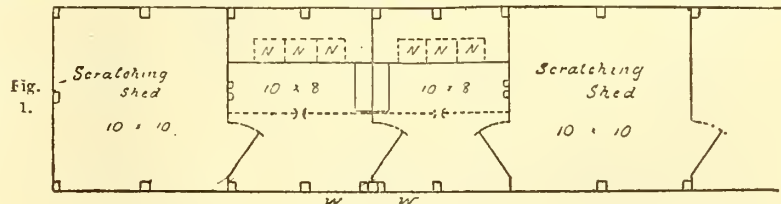


Fig. 1. Ground plan of one-half of the house. Fig. 2. Front elevation. Fig. 3. Cross section of a single pen from east to west. Fig. 4. Cross section of a single pen from north to south.

each. Many of these houses are giving excellent results.

Every poultry house should be light; at least one-third of the south side of it should be of glass, or otherwise opened to the sun. It should face the southeast or south. The sun's rays are very beneficial to fowls, especially during the winter months.

#### Poultry House of a Toronto Poultryman.

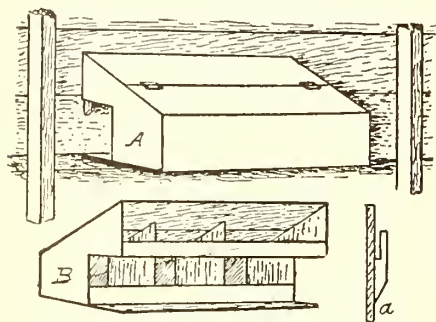
Mr. L. H. Baldwin's poultry house is a good one. It is well planned and has given good results. I have always found Mr. Baldwin's fowls very healthy and in good laying condition. The point of excellence in this plan of a house is that

houses proper. The ground plan is shown in Fig. 1. The sills are 4x4 cedars, resting on large stones. The end sill rests on stone, and the sill running the length of the building rests on top of the end sill. The studding used is 2x4 hemlock. The top of the sill is one foot above the surface of the ground, and a base-board is fastened on the inside of the sill, and the floor of the hen house is filled with sand to the top of the base-board.

The building is banked up on the outside to the same level. The stones upon which the sills rest are placed at varying distances to meet the joists and at intervals of about eight feet. The north wall



is four feet high from the top of the sill, and the south wall seven feet high. In the north wall the studding is placed at each corner of the hen house proper and an additional one in each center, also at the corner of each scratching shed, and an additional one in the center. In the south wall the studding is placed in the same way, excepting the one in the center of the hen house, which is placed so as to accommodate the window. At the east end an extra stud stands as a door post, and one at the west end, in the center. For rafters he used 2x4 hemlock,



Figs. 9 and 10 Front and back views of nests

placed at two feet centers. On the outside of the studding he used the most ordinary lumber, running the boards lengthwise.

The ends of the building, the north wall, and the south fronts of the hen house proper are covered with a two-ply "ready roofing," and for the roof he used three-ply "ready roofing." A scantling 2x4 reaches from the north sill to the south sill at the base of each division between scratching pens and hen houses proper, and between the hen houses. The division wall between the scratching shed and the hen house is made of rough lumber on the scratching shed side, with a lining of tar felt nailed on the interior of these boards and battened closely with laths to make the joints of the tar felt complete.

The division wall between the hen houses proper is made of 7x8 tongued and grooved flooring, and the other interior walls of the hen houses proper, that is, the walls against the scratching sheds and the north and south walls, are lined with 7x8 tongued and grooved dressed material. The ceiling is also completed in the same way. But before the putting on of this dressed material a second layer of tar felt was placed between the sheeting and rafters, so that there is a dead-air space. The large doors between the scratching sheds and the hen houses proper are about three inches thick, made of two thicknesses of 7x8 tongued and grooved dressed material, with a space of one inch between, and lined with tar felt on the inside of each thickness. These doors are raised a foot above the level of the sills, and in this space near the south wall is cut small doors for the poultry, ten inches wide, having sliding doors.

**Interior Arrangements.**

The droppings board is three feet wide and eighteen inches above the level of the top of the sills. Two roosts, each 2x3, are placed on the flat side, fastened together by a cross strip which is hinged to the north

wall. Two legs support the roosts hinged, they can be lifted up and fastened to the roof so as to leave a clear space when making the daily cleaning. The roosts come short of each pen by about two inches. Three nests are allowed to each pen. These are eighteen inches square, having the ends solid.

The nests are placed under the droppings board facing the north wall, rest on the sand, and can be taken out for cleaning. The back of the nest is made in two pieces. The upper part is fastened to the lower board by spring hinges, which enables one in collecting eggs to reach the nest conveniently, and the spring hinges make the top board fly back into place. Against the inside division between the hen houses proper a twelve inch board extends on the level of the droppings board to within twelve inches of the door, and an upright twelve inch board is fastened to the end of this and runs up to the ceiling. To correspond with it, a board is placed against the opposite wall and a cotton curtain on a two-inch roller is fastened to the ceiling.

This curtain is shown by the dotted lines across pens in Fig. 4 and at X in Fig. 1. When this curtain is down it comes to the bottom of the two last mentioned upright boards, that is, to about two inches below the level of the droppings board. The purpose of this curtain is to protect the fowls on very cold nights. Mr. Baldwin has found that it is not necessary to use it when the pens contain over fifteen birds, but if the number is reduced, and the thermometer drops to the neighborhood of zero, it is well to let it down.

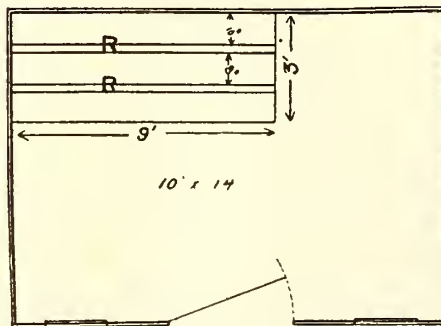


Fig. 5.—Ground plan of colony house at O.A.C.

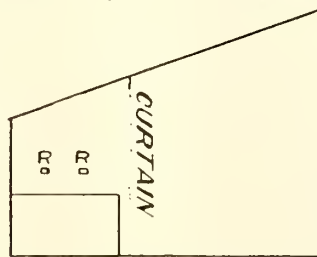


Fig. 6.—Cross section of colony house R, R, roosts.

**Plenty of Light.**

The windows in front of the hen houses proper are each three feet wide and two feet six inches high, containing six panes, 10x12 inches each. The windows are placed high in the front wall and slide to the right and left. The windows being placed high up, the sun in winter, when it is low in the heavens, shines on to the roosts and droppings board. The door between the hen houses

proper, which is also a foot above the level of the sills, is a simple door of 7x8 inch stuff, the upper half being made of wire netting.

The front of each scratching shed is divided in two by the center studding, on each side of which there are cotton screens hinged at the top, and reaching down to within one foot of the top of the sill, and, when down, close upon top of a rainboard which slopes to the outside, so that rain beating against the cotton screen is carried outside, and this keeps the interior dry. These screens swing up to the roof and are there caught by hooks from the rafters. The front of each scratching shed is closed with two-inch mesh wire netting. (One-inch mesh should have been used to keep out the sparrows, which now get in and run off with a lot of grain). An eaves-trough runs the length of the building, distributing the water east and west. Drinking fountains are placed on the end of the board that runs out from the droppings board, and on the wall opposite thereto the boxes for grit and oyster shells are hung.

**Sanitary Precautions.**

The interior of the hen houses and the scratching sheds is filled with sand to the level of the top of the sill, and on top of this a plentiful supply of loose straw is kept, to encourage the birds to scratch and thereby get exercise. In August the straw is all cleaned out, and the sand, so far as it appears to be soiled, say, to a depth of four or five inches, is all taken out and fresh sand put in its place. It is advisable to do this in August, so that the sand may become perfectly dry before the winter sets in. No

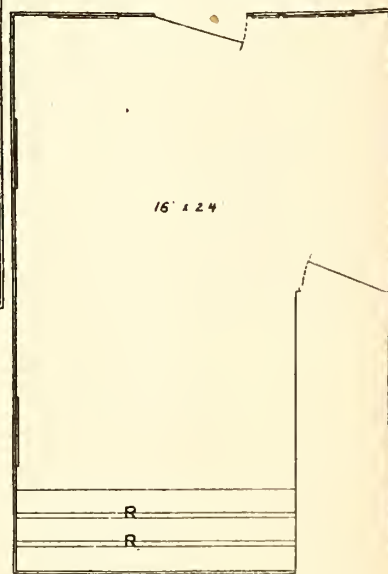


Fig. 7.—Ground plan of closed pen. R, R, roosts.

straw is placed on top of the sand until the time comes to close the birds up for the winter.

The windows of the hen house proper are open every day. Of course, when the weather is stormy or bitterly cold they are open only for fifteen minutes or half an hour in the middle of the day. When the sun is shining brightly they may be left open for some hours. This thoroughly ventilates the hen houses, dries up



## HOW AND WHAT TO FEED TO GET EGGS IN WINTER.

U. R. FISHEL, Hope, Ind.

all moisture, and keeps the place clean and sweet. The screen in front of the scratching shed is let down only on very cold days, and when the weather is cold and stormy, the idea being to keep the open shed dry where the birds take exercise in the open air.

This method of housing poultry keeps the stock in the most vigorous health, and this is the secret of Mr. Baldwin's success in obtaining a plentiful supply of fertile eggs. He began incubating in January last, and out of 1,100 White Wyandotte eggs set during the season he obtained 66 per cent of chicks. The runs of his hen houses extend to the north and west of his buildings, as it best suits the shape of his lot. The runs are in most cases placed to the south of the buildings, and sometimes, where it is possible, they are extended north and south, and are used alternately.

From the practical experience of five years' use of the building, Mr. Baldwin's opinion is that it is well adapted to this section of the country for keeping breeding stock and maintaining it in most vigorous health, which is the foundation of success. He keeps only White Wyandottes, and thinks that the building would, perhaps, be too cold for the more delicate breeds, although he at one time kept White Leghorns in it with considerable success. In one phenomenal hatch of Leghorn eggs he secured 95 chicks from 95 fertile eggs, out of a total of 100 eggs.

This affords some idea of the vigor of the stock and the fertility of the eggs secured from birds kept in hen houses erected on this plan. Mr. Baldwin believes that many who have adopted the scratching shed hen house have adjusted windows to the front of the scratching shed in place of the screen, and this might be an advantage, especially in sections of the country where the weather is more severe than in Toronto.

### Cost of the Building.

He estimates the cost of his building at \$250, allowing for his own time; but on account of the increased cost of lumber and labor, a similar building would now cost about \$300. The cost, of course, depends upon the facilities for obtaining material and labor. He keeps about eighteen hens in each pen during the winter and obtains a plentiful supply of eggs.

### The Poultry Houses at Ontario College.

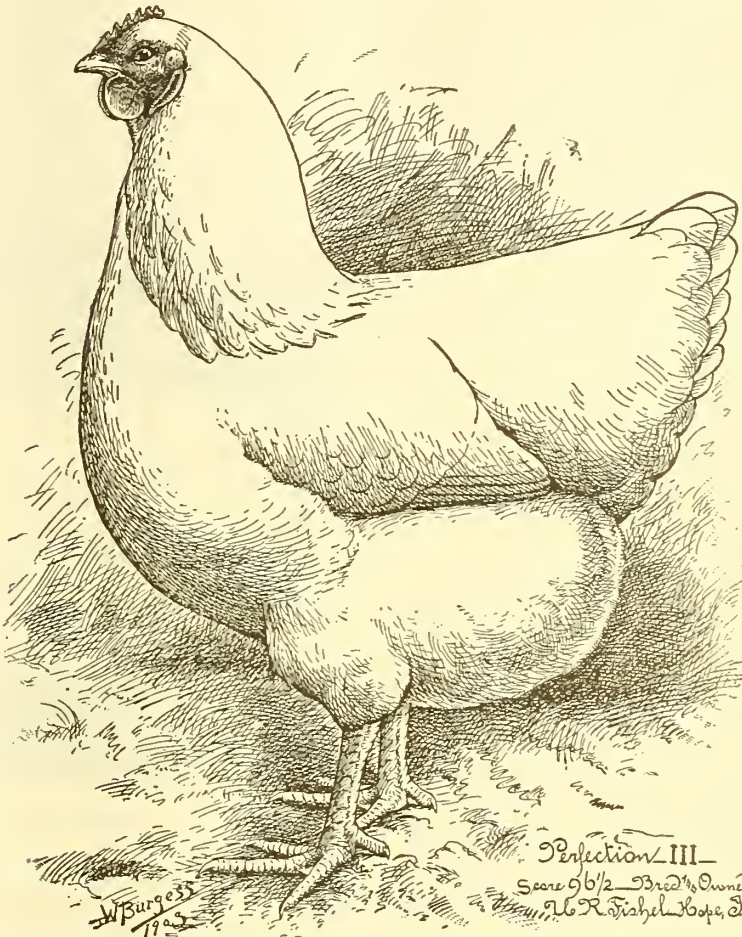
The colony house in use at this college is more or less of an experiment, but is cheaply constructed and allows a warm roosting pen and exercise in the open air. The canvas door protects the fowls from the extremely cold winds. In very severe weather the board door in front of the house may be shut.

This house is made of a single thickness of planed lumber, the cracks between boards being covered by battens.

(Continued on Page 369.)

THE high price that eggs have reached and have held for the past few years compels every owner of a flock of fowls to study how he can procure as many eggs as possible from his flock of hens. No matter how or what you feed to get eggs, the first essen-

ing them so well and how the egg yield was bred up in these birds, I can but call attention to them. By carefully selecting the best layers year after year I now have the best egg producing strain of fowls there is. In order to get eggs winter or summer you must first have a breed or



Type of the sturdy Fishel strain of White Plymouth Rocks, as bred by the White Rock specialist, Mr. U. R. Fishel, Hope, Indiana.

tial point is to have a strain of fowls that will lay eggs, fowls that have for years been bred to lay, just as fast horses are bred to increase speed, and beef cattle are bred to increase the yield of beef, and as Jersey cows are bred to increase the yield of milk.

Poultry Keeper readers will pardon me for taking the noted Fishel White Plymouth Rocks as a sample of what can be done along this line, but know-

ing them so well and how the egg yield was bred up in these birds, I can but call attention to them. After you have this the feed and care is a very important matter.

In the northern climate the best results can be had by housing the hens in a scratching shed house. For, say fifty hens, I use a house eight by twenty-four, roosting room being eight by twelve, scratching shed same size. In the morning I feed a mixture of oats, wheat and corn, one-third each. This is thrown in the straw in the scratching shed in the winter months, or is scattered among the matted grass in the summer months, making the hens work for the grain.

At noon a very light feed of wheat, sun-flower seed and kaffir corn is thrown in the straw in the winter. There is no noon feed in the summer. At night every other day I feed a mash food, using two parts wheat

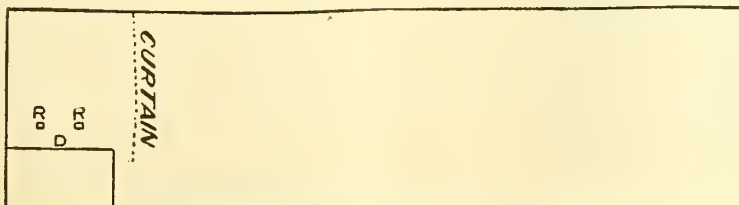


Fig. 8.—Crossed section of closed pen R. R. roosts; D. dropping board



bran, one part shorts, one part corn meal. In this mash we put green cut clover (steamed), green cut bone, cooked vegetables, etc., just whatever is convenient to use. In feeding mash never feed it sloppy or wet, but dry enough to crumble when thrown in the trough. Twice a week in the mash is put (say for fifty hens) a tablespoonful of Cayenne pepper. We keep before the fowls all times granulated bone, oyster shell and grit and if possible granulated charcoal. If you do this sickness will be a rare thing in your flock.

Do not keep the birds too fat, nor starve them. Keep them free from lice, and never forget to always give them plenty of clean fresh water. It is impossible to tell just how much to feed for some flocks will eat and need more than others. Here is where your own judgment must be used. Any one who studies his birds knows the minute he steps in the yard how much food they need at this feed. Green cut bone if judiciously fed is a great egg food and should be fed if it is possible to get it.

To secure eggs then we must have a breed of fowls that are bred to lay, feed them as stated above and the returns will astonish you.

#### GREEN FOOD IN WINTER.

Green food should be given in some form if it can be obtained, as it is essential to thrift and egg production. The object in feeding green food in winter is not because such food is valuable in the essential elements composing the eggs, but because the concentrated food deranges the digestive organs and the fowls get out of condition. It is because dietary systems are advantageous that they are suggested.

Cabbages, potatoes, turnips, carrots, etc., are largely composed of water and will not provide a large proportion of the matter devoted to the production of eggs but it is in dietary more than in the quantity of food allowed that the best results are obtained. For instance, feed a small flock on one quart of corn meal and a pint of cooked potatoes, and another on a pint and a half of corn meal, and the hens that receive the mixed food will lay more eggs than the others, yet there is more real nutritious matter in the three pints of corn meal than in the mixed food, but the hens receiving the mixed food will digest their food better, and a variety promotes health.

Bulky food in winter always gives excellent results, and if cabbages cannot be obtained use anything that will prove acceptable that can be procured, rather than to feed exclusively on grain.

Intelligent disagreement is morally and substantially healthy. Watch the man who always tries to agree with you. He may be incapable, if nothing worse.—Printer's Ink.

The perversity that never agrees is equally as bad.

## PLAN FOR IMPROVED PIGEON HOUSES AND FLIES.

J. WALKER CLARK, Vineland, N. J.

**M**Y pigeon houses and flies are built in what you might call a half circle, taking up a space 38 feet by 64 feet; diverging from a central or feed house into eight separate houses and flies.

Figure 1 is a photograph of the interior of the houses, showing partitions separating one house from the other. As before stated there are eight houses, each can accommodate fifty pairs of birds comfortably. The square place in the rear with windows at the top, is my feed house, which is twelve feet by twelve feet, and from which as you see all the rest branch off, is two stories. Part

Figure 3 is the rear, showing entrance to feed room. From this room twelve feet by twelve feet, you enter into the eight different pigeon houses through double doors, the first door being solid, the second one wire. The object of these two doors is for the purpose of ventilation in summer and warmth in winter; that is, during the summer when you have closed up the front of the houses at night you just close the wire doors into the feed room and it does not make the houses so warm or close. When the front doors are open to the flies during the day, the solid doors into the feed room are closed, thus preventing a draught. During the winter nights by this same

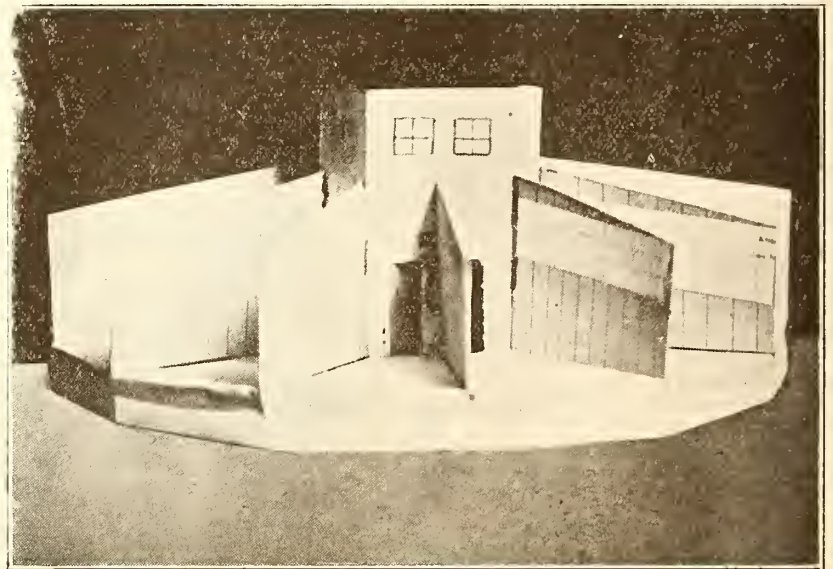


Fig. 1. Partition arrangement showing houses diverging from central feed house. J. Walker Clark, Vineland, N. J.

of the upper story I use for storing feed in bins, letting it down into the first floor by chutes. The balance of the second story I use for sick pigeons, this being an excellent place, as it is entirely separated from the rest of the houses, being above them and free on all sides to air, thus preventing any disease from spreading. The sick ones are completely isolated from the rest, and the two windows give the necessary ventilation.

Figure 2 is the house and fly complete, showing how the birds are separated. The flies which are sixteen feet by twenty-six feet are covered with small mesh wire on the outside to keep out sparrows, and on the inside separating the flies with larger mesh wire. The houses as you see are raised from the ground about two feet. The partitions between the flies separating the birds, as is shown in the picture, are raised higher than the roof of the houses, thus giving the birds a resting place on the roof besides their perches around the flies, and that much additional room in the fly.

arrangement all the houses are heated to a certain extent.

As the eight houses open into the feed room, by placing a stove in this room, the heat has a chance to circulate through all the houses, and by running the stove pipe (fully protected by wire netting) up through the sick room on the second floor, you get sufficient heat for that room also, thus heating eight houses and a sick room with one stove.

Then as to the time saved in feeding and watering, as the feed is let down into the feed room from the store room on the second floor by chutes, all that is necessary is to draw sufficient feed into a can and go from door to door inside this twelve foot room. So in cleaning, as the houses are elevated two feet from the ground, you place your barrow at the door of a house and sweep the droppings into it and so on to the next one, feeding, watering and cleaning eight houses from a twelve foot square room, thus saving considerable time in walking back and forth if the houses were built in a continuous line.





Fig. 2. Front view of Mr. J. Walker Clark's Pigeon house.

Another great advantage about this arrangement is, you can stand in the middle of the feed room and by just turning your head see into every one of the eight houses, giving you a better chance to compare the pigeons in the different houses.

**A BOY'S EXPERIENCE WITH HENS.**

Unadilla N. Y., Nov. 13, 1903.

Editor Poultry Keeper:

I am fifteen years old and live on a small farm. During the past year I went to the high school about forty weeks. The monthly record of ninety five hens is as follows:

|            |          |         |          |
|------------|----------|---------|----------|
| Jan. ....  | \$ 21.28 | \$ 8.81 | \$ 12.47 |
| Feb. ....  | 16.65    | 7.51    | 9.14     |
| March .... | 24.17    | 8.10    | 16.07    |
| April .... | 27.70    | 11.74   | 15.96    |
| May ....   | 29.60    | 5.25    | 24.35    |
| June ....  | 22.60    | 7.28    | 15.32    |
| July ....  | 21.88    | 9.63    | 12.25    |
| Aug. ....  | 20.36    | 11.44   | 8.92     |
| Sept. .... | 21.26    | 8.50    | 12.76    |
| Oct. ....  | 12.94    | 8.05    | 4.89     |
| Nov. ....  | 15.07    | 8.65    | 6.42     |
| Dec. ....  | 22.64    | 10.17   | 12.47    |

Total .....\$256.15 \$105.13 \$151.02

This leaves a net profit of a little over \$1.58 per hen. They laid an average of one hundred and thirty five eggs each. They were mostly old hens of Plymouth Rock and Leghorn breeds. In winter I keep them in a warm house of modern build, 12x30 feet, and in an old shed. They are fed wheat or oats scattered in a litter of straw in the morning. At noon they are fed a mash consisting of bran and corn meal with boiled potatoes, beef scrap and red pepper occasionally added. Salt is given every day. At two o'clock they are fed cabbages or other green food, and at four all the corn they will eat. In summer they are fed about the same except the green food is omitted, as they are given the range of the whole farm.

I raise my chickens and hatch them by hens. I remove my sitting hens

from the hen house to another place when setting them. They are set in cheese boxes. By the use of these I hardly ever have a hen break her eggs. I have now over one hundred young stock, all of which are thoroughbred Single Comb White Leghorns, Mottled Anconas and Silver Penciled Wyandottes. I have no trouble in getting fertile eggs. Last year they were over ninety per cent fertile, and this year equally as fertile.

Archie E. Vandervort.

**MITES AND LICE—GREEN BONES**

Marshall, Mo., Dec. 3, 1903.

Editor Poultry Keeper:

I have been a reader of your valuable journal for a short time and congratulate you in giving to the public such valuable reading and feel that I could not afford to do without it as our success depends a great deal on the experience of others.

I find it almost impossible to handle poultry without having some trouble with mites and lice, but the last few years I have been practically without them. In the spring and fall I thoroughly spray my hen house,

roosts and nests with coal oil, lime and a small part of carbolic acid, and place in the nests under the straw plenty of fresh tar paper. When the chicks are hatched I sprinkle them thoroughly with sulphur, being careful not to allow them to get wet or damp for a few days, and I am never bothered with lice or mites.

For preparing green bones, such as we get from the butcher shop, I have a flat rock about eighteen inches square with a frame of six inch boards around it. I put the bones in it and with a heavy hammer, (a sledge hammer is best) hammer them to a pulp. I find it a good way to prepare bones which are a great benefit to those who are not able to procure a bone cutter.

Yours with best wishes and success to the Poultry Keeper,

J. A. Peck.

You can save money by subscribing for all your magazines and periodicals in connection with Poultry Keeper. You have only to mail us a postal card to find out prices of all you want.

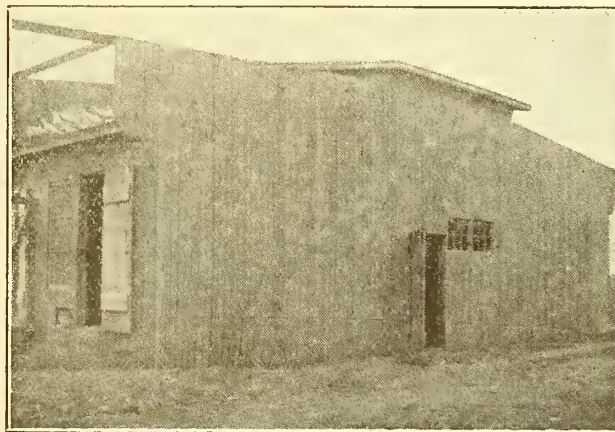


Fig. 3. Rear view of Mr. Clark's Pigeon House.



## DRESSING AND SHIPPING POULTRY.

[Mr. W. R. Graham in Bulletin 127, issued by Ontario Agricultural Department.]

**A**LL fowls should be fasted from twenty-four to thirty-six hours before killing. Where this is not done, the food decomposes in the crop and intestines, the result being that the flesh becomes tainted and does not keep well.

There are two methods of killing that are considered proper. One is to kill by bleeding, which is accomplished by making a deep incision with a sharp knife in the roof of the mouth, immediately below the eyes. This method is considered to be the better one in the eastern states and also in some parts of Canada. The other method is to kill the bird by wringing or pulling the neck. This is done by taking the chicken in the hand, stretching the neck, holding the crown of the head in the palm of the hand, and giving a quick turn backward and at the same time a steady pull. This method is favored by the exporters of dressed fowls, and is much cleaner than bleeding the fowls. It is claimed by the exporters

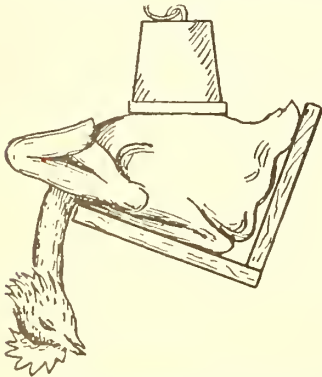


Fig. 1. Chicken weighted in shaping board. (Lewis Wright.)

that the flesh will keep longer and will not be so dry as where the birds are bled, I prefer the latter method.

After the bird is killed, plucking should begin at once. Care should be taken to keep the head downward, to allow the blood to collect in the neck. Where the birds are allowed to become cool after being plucked it is very hard to avoid tearing the skin, and the plucking is much more tedious. The birds should be plucked clean with the exception of about two inches of feathers adjoining the head.

After the chicken has been plucked, it should be placed on a shaping board, as seen in Figs. 1 and 2. The weight placed on the top of the chicken is used to give it a compact appearance. This weight may be of iron, as seen in the cut, or a brick may be used in its place. If chickens are hung by the legs after being plucked, it spoils their appearance, making them look thin and leggy.

Many good chickens are spoiled by being packed before they are thoroughly cooled. Care should be taken that all the animal heat is out of the body before the fowls are packed. We always cool the birds at least twelve hours before packing them.

The chickens are packed in boxes as seen in Fig. 3. The box is lined with

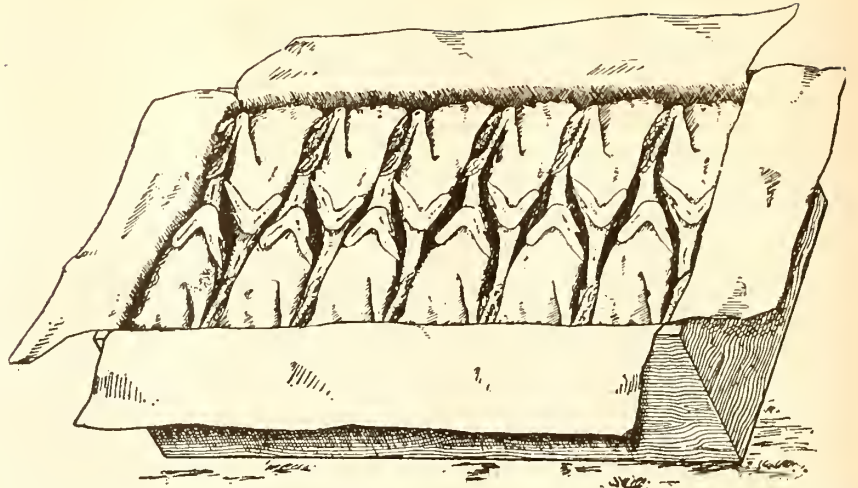


Fig. 3. Showing the top layer of chickens in a shipping case as used for the trade. This is one system of packing dressed poultry. The boxes are usually three feet long, seventeen inches wide and seven inches deep for twenty-four chickens weighing about five pounds each.

parchment paper, and, if the chickens are to be shipped a long distance, each bird is wrapped in paper. This prevents the chickens from bruising each other, and at the same time, to a considerable extent, checks decomposition. Do not use ordinary wrapping paper as it draws dampness, and will cause the chickens to become clammy, which makes them more or less unsalable.

There are several other kinds of boxes used for shipping poultry. Nearly every exporter has his own shape of box, and his own method of packing. For shipping locally, we use a box three feet long, twelve inches wide and twelve inches deep. The chickens are packed similar to those seen in Fig. 3, with the exception that they are three tiers deep. The box will hold thirty-six four and one-half pound chickens. The boxes are made strong so that we can have the dealer return them to be refilled. Do not use cedar in the construction of the boxes, as in some cases it taints the flesh. Basswood or spruce answers well.

Green cut bone—that is the egg producing food. It makes the hens lay right along.

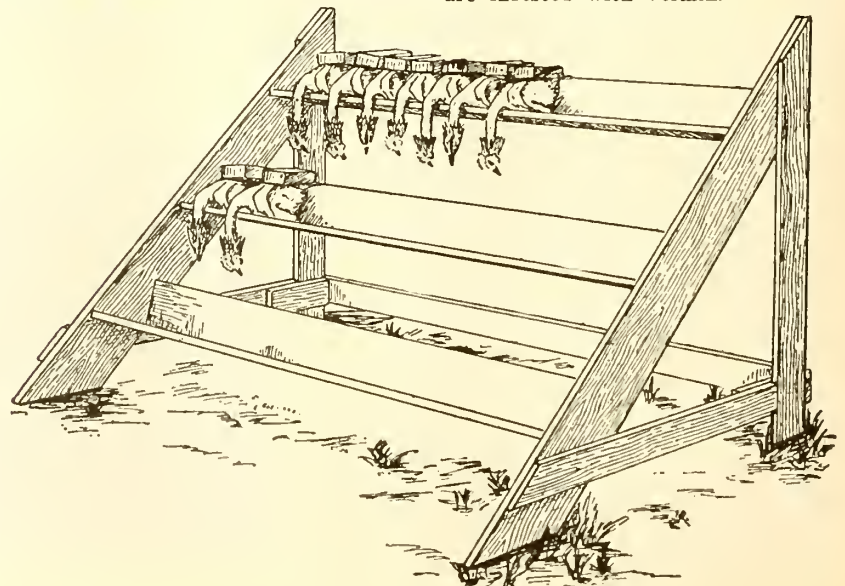


Fig. 2. Showing a number of Chickens in the shaping boards.

The incubator is one of the greatest inventions that has been made not that it is as valuable to the community as some other inventions, but because it wrestles with the problem of imparting life. It is easier, better, cheaper, surer and more profitable to use incubators than to use hens, but do not forget that much depends on the operator and his experience.

Brewers' grains are the refuse from breweries, as is well known. The dried grains contain about four pounds of mineral matter in 100, about 47 pounds of starchy matter, and about six pounds of fat, and 22 pounds of crude protein. As the wet grains contain about 75 pounds of water, they are consequently less valuable. The principal substance is the 22 pounds of protein, of which 16 pounds are digestible. It is the protein that produces the albumen of the eggs. Brewers' grains provide a safe, cheap, and excellent food for poultry.

When fowls are restless and constantly picking at their feathers, they are infested with vermin.



# SUCCESSFUL POULTRY KEEPING



(This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.)

## WINTER HATCHING AND BREEDING.

### The Eggs—Outfit For the Winter's Work—Knowledge of The Work—How to Do It.

Dr. W. N. Sanborn, Bellingham, Mass.

**T**HE winter poultry work is fast becoming a strong feature in the poultryman's life. Men who used to do all their hatching in April and May, during the last few years have been getting out the bulk of their chicks in March and late February. This has led to the adding of more incubators and brooders, and with this complete outfit for winter work it is no wonder that men see no reason why they should not begin operations in middle January. They have found that these early chicks come to market condition just at the time of the best demand and high prices. If you are so fixed as to hatch and care for winter chicks it might be well to try your hand at the work this coming month. The cold incubator and empty brooder might as well be in use as to remain as they are.

Winter hatching and brooding demand strongly fertile eggs, good incubators and brooders, good house surrounding of incubator and brooder, with a lot of knowledge of "how to do it." Experience must be had to succeed with winter chicks. This calls for a small beginning if the work is new to you. Book knowledge and poultry paper teaching is all right in its place but you need to take hold of the work to really understand it. "Practice makes perfect" is no where more true than in chicken work in the cold months of the year.

#### Strongly Fertile Eggs.

If you have strongly fertile eggs from a breed that is suited to this special winter work you have one essential to success. Fertile eggs are not so very hard to find in mid-winter, but eggs that will produce a chick under the trying conditions of zero weather are not to be found in every poultry house. Can you produce such eggs? If so, you are fortunate. You save expense of buying, of express, and of the dangers that come in the shipping of eggs from a distance. If you have not eggs that come up to the standard I refer to, then they must be bought.

In the buying of eggs you are free

to get those of some good practical breed and variety. The Plymouth Rocks, White, Barred and Buff, have long been considered good for broilers and roasters. The Wyandottes, White and Buff, have come to the front lately and seem to be the long looked for market bird. You will not go far wrong if you buy eggs of one of the five varieties I have mentioned. If you can find a breeder who has been working for early chicks and quick maturity it would seem wise to buy your eggs of him. At all events, try to get eggs of some one who is interested in getting strongly fertile eggs. They are to be found. One of our advertisers has just made a contract to supply twenty thousand eggs for hatching, eggs to be shipped the coming three months.

#### Hatchable Qualities of Eggs.

Do not use "store eggs," or eggs that "any neighbor" may have. Look well to the hatchable qualities of the eggs you depend on to succeed in this line of work. The price of the eggs makes some difference to you. If you are going to market all the product of incubator and brooder then you should find good eggs at from five to six dollars per one hundred. If you have in mind the saving of the best of the winter's hatch for your own breeding another year, it will be better to pay more cash and get eggs from the best birds for your purpose. A little looking about will make plain to you that such eggs can be had for eight to ten dollars per one hundred, during the months that there is little hatching by fanciers. If you are really planning to get a good breeding pen, or two, out of that two hundred eggs, it will be money well spent to pay the extra price of the eggs from quality birds of the variety you select.

In the shipping of these eggs, I should not demand that they be started on a certain date. Tell the seller that you want him to use his judgment in the matter, according to the weather. To send the eggs in the face of a rapidly dropping thermometer is to take chances that are unnecessary. If you can get the shipper to wrap the eggs in excelsior they will stand less danger of "jar" in the express than when packed in other material.

#### Getting the Incubator Ready.

Before the eggs are expected to arrive start your incubator. Get it to running evenly several days. Have it in the best place that is at your

service. A temperature that changes least between day and night, is more satisfactory than one that may be more comfortable for you, personally, during the working hours of the day. When the eggs arrive, let them rest for a few hours—not long, because they are ageing, day by day. If they are quite cold as they come from the train, put in a room that is warmed to sixty or more, and warm up.

In the evening, probably, you will fill your machine. Take out the tray, close the doors and hold all the heat you can. Fill the tray in the warm room, take to the incubator, put into the machine and close the door quickly. The mercury will fall! Do not let this drop in temperature "rattle" you. Let the regulator alone. It will bring the heat up to the required point in a day or two, and all will run smoothly for a week.

If you have a hot air machine the moisture question need not trouble you. At all events, follow the printed directions that came with your incubator. You have little to do, except to take care of the lamp and turn the eggs. The air of the room that contains your machine should be pure as possible. It is this air that is passing through and through the incubator "day in and day out" during the three weeks of waiting.

#### As the Hatch Progresses.

The time of hatching is a time of danger. Then is when the neighbors want to see the "dear little things" and if you are not careful, they will open the door when your back is turned to give the chicks more air, "they gasp so." Keep all the neighbors away at this critical time, yes, stay away yourself. If the thermometer runs up a degree or two, don't worry. Do not help any chick out of the shell. If it has not strength enough to make its own escape it will be money in your pocket to leave it there, in its egg.

Do not be in a hurry to take the chicks from incubator to brooder. If the current of air through the machine is of full volume the chicks will do best to stay in the incubator until nearly time for their first feed.

#### Brooder for the Young Chicks.

The brooder, and brooding, I shall take up in next month's Poultry Keeper. A home-made brooder has been called for all through the months of the year. This I shall illustrate and tell how to run it. I do not advise the making of an incubator but this brooder is all right, and simply to make. It is no new idea. This brooder has been in use in my town for over twelve years and some poultrymen depend upon it for all their brooding.

So plan for some winter hatching. Engage your eggs just as soon as you can make terms with the seller. Get your incubator into the place it is to do its work, clean it, and be sure it is ready for use. By the time you need to begin work on those new brooders the plans and instructions will be ready.



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,

(INCORPORATED)

QUINCY, ILLINOIS.

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Advertising rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, Editor.

Associate Editor, DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR  
 AND VOLUME

DECEMBER 15, 1903.

NUMBER 9.

## A LOOK AHEAD.

As we approach the coming year it will be well to consider some of the difficulties we have to encounter and how to overcome them. One of the obstacles in winter poultry work is infertile eggs, it is not over hard to get eggs in winter but to have these eggs hatch sixty per cent, instead of thirty, would be a boon indeed. There are two special requirements to the production of fertile eggs. One is moderate laying and the other exercise. The pullets that have been laying for three months do not give the fertile eggs that you can get from yearling hens that have laid only a few eggs since molting. The long rest of the molt is not without its benefit along the line of fertile eggs. These hens lay an egg that is large, well formed and is probably strongly fertile. Pullets for market eggs—old hens for eggs for winter hatching!

Exercise is needed for the health of all our birds. Poultry of all ages need to work for part of their living in order to have good health. It is the busy bird that gets time to visit the nest and it is the lazy bird that gets fat and produces the eggs that seldom show a living germ at the first test.

How shall we meet these two requirements? The pen of birds that did so wonderfully as layers last year are now over the molt and ready for work. Of course you did not sell them with the clearing out of your yards at the opening of the molting season. Poultry Keeper has preached too strongly the saving of the best yearling hens for breeders to have you make the mistake of selling all the yearlings at the end of summer. If you did dispose of all the last year's stock it will be money well spent to buy a pen of yearlings to hatch from the coming five months.

Having the birds well housed, well fed, make them scratch for all their

grain. This calls for litter. Six inches of cut hay, leaves or corn-fodder, are required. Sand and earth will not take the place of litter. Real scratching material is needed. Supply this, work the oats and wheat into it several times a day. Feed at night enough grain to leave some hidden in the litter for early morning work. Yearling hens, of bred-to-lay stock, obliged to labor for the food they consume are most likely to lay the kind of egg that the winter poultryman is seeking to produce. S.

## THE POULTRY BUSINESS.

There is a distinction between poultry keeping and the poultry business. When profit is sought as a whole or partial means of livelihood we have a business. Success in the poultry business depends upon many and varied rules and conditions which have no direct connection with the breeding, feeding and general care of poultry.

Perhaps poultry journalism has neglected this fundamental principle too much. Perhaps we have magnified the details of the workshop where the goods are made and overlooked somewhat the equally important matters connected with the disposal of the goods at a profit.

Probably the most important factor in a successful business is that the business man or woman be well and favorably known throughout the field where his goods are offered for sale. Advertising, good quality, and honorable dealing are, therefore, essential.

The poultryman who cannot create and maintain a good reputation at home, where he is personally and intimately known, contains within himself the positive elements of failure, no matter how great his skill in producing good goods may be. A conscientious, fair-minded, honorable man has, by the constant practice of business virtue, acquired a self-respect which un-

consciously stamps itself upon all his business conversation and business literature. While he may be more or less unconscious of this the public recognize it intuitively and instantly.

If a person's mind is filled with distrust, envy, jealousy or low-born prejudice against his competitors, his neighbors, his business associates or allies, those qualities will surely be reflected in his conversation, business correspondence and literature. Such a person should study to keep his mouth shut and should employ some bright individual to write his letters and his advertising literature. Otherwise, it will only be a question of time when he will join the great majority who do not succeed in business.

We all doubt the man who doubts. We all distrust the man who distrusts. This may not be always just or wise, but it is an inherent and unchangeable principle in our human nature. Those who do not know this do not know mankind.

The writer recently examined the circular of a poultry breeder who belonged to the class of unprofessional professional poultrymen. The description of standard-bred, heavy-laying stock was uncommonly excellent and received the support of a number of testimonials from satisfied customers; the strongest feature that can be put in any circular.

But to all this was added an attempt to discount the work and the claims of other breeders. Even the testimonials were offered with the suggestion that other testimonials were unreliable. The tone of the circular as a whole broadly suggested an attempt to deceive the reader into believing that the writer had a monopoly on good stock, honesty of purpose, fair dealing, and satisfied customers.

It is sometimes the case that certain special products have not arrived at the point where there are large numbers of competent and reliable producers. If but few firms in the country were making good and durable shoes and were hampered by a host of dishonest manufacturers of shoddy goods, they would be justified in defending themselves against an illegitimate competition; but the breeding of fine poultry is a business that is conducted by thousands of competent and thoroughly honorable breeders who do not feel obliged to defend themselves in an unprofessional manner. Poultrymen who do not get the results from their advertising that they think they should, ought to examine closely their own business methods; the trouble may lie there.

W.

## POULTRY KNOWLEDGE.

This is the time of the year when we have evenings for improvements. None of us know all there is about poultry. We know, ourselves, the points in which we are lacking. Our chicks are all matured and have gone to the laying house or market. It will be two months before many incubators are filled. We have then a breathing space of time in which we



can add to our knowledge, if we will make the effort. Look into the Poultry Keepers that have been coming since last winter. Some of the summer numbers are as fresh as when they left the press. They came to you when the rush of the summer work was upon you and you had hardly time for work and sleep. Look them over. They are full of "meat" for the hungry poultryman.

In renewing your subscription, why not take in combination with this paper some other poultry journal or one of the books we offer?

A visit to a show this month will be helpful. You will find the men who attend ready to answer your inquiries and glad to assist in the solution of your problems. If there is a Farmers' Institute within reach, attend it. Even the feeding of cows may have some bearing upon the hen's ration. Perhaps the Institute will have a speaker along the line of our interest in poultry.

Let us advance "along the line" this winter and improve the leisure that we now have to our advantage in poultry knowledge.

**THE BOSTON SHOW.**

Since the first of the small score card shows, even back to the time of the county fairs, the fanciers of New England have had in mind the climax of the year—"the Boston Show." So it is with regret that poultry lovers, those of all states as well as the few that make up little New England, learn that there will be no Boston show this winter.

It is the desire of the fancier to show at Boston. In past years many a man who early in the season had planned to send birds to Boston did not do so because of being defeated at the small score card exhibition. More than one man has sent his birds to Boston because he had been awarded first prize at some local show, and then found, on visiting the city, that the judge had hardly considered his birds. Last year a number of men who had never shown birds at any exhibition sent birds to Boston and learned something by the experience. One new fancier sent some Rhode Island Reds and found that his birds were buff rather than red. He said to us, "I'll sell all my birds and buy real Reds!"

We shall miss the friends that we seldom see except at the Boston show. There is something about the interest of poultryman in poultryman that is always fresh. Fanciers are generally free in giving of their knowledge to new men in the fancy, and nowhere is this more prominent than at Boston.

We shall miss the exhibit of eggs and dressed poultry. No show has ever attempted to handle the practical side of poultry as has that at Boston. New England is intensely practical, and its poultrymen have made the market side of the Boston show always an attraction.

Let us hope that plans will be made to hold an exhibition in Boston in 1905 that will be up to the "high water mark" of previous years. S.

**Everything for Everybody**

Tell us what kind of goods you are interested in and we will send you without charge any of the following illustrated special catalogues quoting wholesale prices. Merely mention the number or letter of the catalogue you want.

100 Artists' Supplies, 105 Athletic Goods, 110 Blacksmiths' and Machinists' Tools, 115 Builders' Hardware and Supplies, 120 Carpenters' and Builders' Tools and Materials, 125 Crockery and Glassware, 130 Cutlery, 135 Dry Goods, 140 Fancy and Novelty Goods, 145 Farm Implements, 150 Fishing Tackle, 155 Popular Priced Furniture, 160 Harness, 165 Jewelry, 170 Kitchen Supplies, 175 Laces, Embroideries, Ribbons, Trimmings, 180 Lamps and Lanterns, 185 Linoleums, Carpets and Curtains, 190 Men's Hats and Gloves, 195 Men's Shoes, 200 Men's Wearing Apparel, 205 Music and Musical Instruments, 210 Notions, 215 Saddles and Saddlery, 220 Silverware, 225 Sporting Goods, 230 Stationery and Office Supplies, 235 Stoves, 240 Toys, Dolls and Games, 245 Underwear, 250 Vehicles, 255 Wagon Makers' Supplies, 260 Watches and Clocks, 265 Women's Shoes, 300 Women's Catalogue (Cloaks, Furs, Suits, Skirts, Waists, Hats, etc.), B Bicycles, C Baby Carriages, D Dairy Supplies, G Drugs and Patent Medicines, J Telephones and Electrical Goods, K Cameras and Photo Supplies, M Books, P Fancy Grade Furniture, R Trunks, U Youths' and Boys' Clothing, V Men's Made-to-Order Clothing, with samples of fabrics. Suits \$10.50 to \$16.50, V2 Same as V1 except suit prices \$18.00 to \$30.00, Y Made-to-Order Overcoats with samples, W Men's Ready-Made Clothing, McKinosh Catalogue, Butterick Fashion Catalogue, GL Grocery List (published every 60 days).

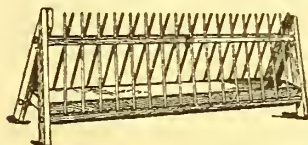
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**Montgomery Ward & Co.,**  
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**Single Comb White Leghorns**

Stock from good to the very finest quality for sale.

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Feeds 3 ver!  
No rolling or wasting feed.  
Always ready. All sizes like 20 bird size

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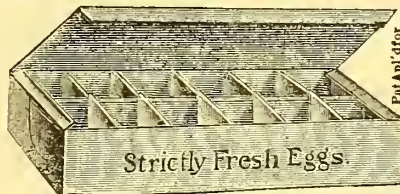
**PLYMOUTH FARMS**

**BUFF, BARRED, WHITE ROCKS.**

Booklet describing our farm, history of our birds, etc., mailed free, if you mention P. K.

**Plymouth Poultry Farm Co.,**  
Box K, York, Pa.

**Egg Box With Nests Attached.**

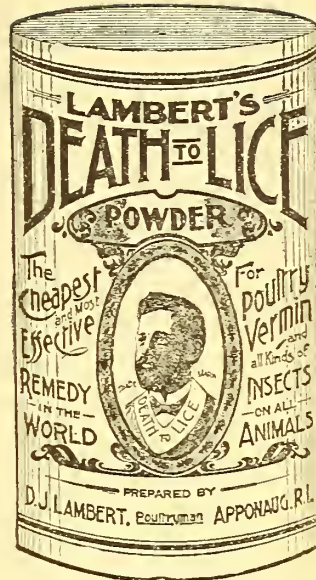


Strictly Fresh Eggs.

OBLONG OR SQUARE.

Doz. 20c; 50, 60c; 100, \$1; 500, \$4.25; 1000, \$7.50; delivered FLAT f. o. b., N. Y. City. Orders of 1000 or over special printing. Write for prices for larger quantities. Waxed paper butter print boxes—special boxes or cartons.

F. R. & F. J. VERNON,  
1013 Grand St., Brooklyn, N. Y.



**This is the Remedy**

That I have manufactured and sold for upwards of twenty years. Other insecticides come and go but Death to Lice Powder has been and is now the most popular. Those who use it say it is the best for the purpose, the handiest and the most effectual.

**This is the Remedy**

That can be used with safety on show birds; will not stain their plumage or discolor their shanks, but acts as a cleanser, polisher and beautifier on all kinds of feathered birds. There are a number of things that will kill lice, but the most of them will kill the birds, stain their feathers, taint their flesh or make them unsightly or unsalable.

**This is the Remedy**

Used by the most successful breeders and exhibitors everywhere. It must do nice work or the upper ten of the poultry world would not continue to use it from year to year. But few keep hens for fun, the majority have to make money with them or quit the business, and they know that vermin invite failure and therefore use Death to Lice freely.

**This is the Remedy**

That is put up in all sizes of packages, from a 10c sample to a \$1.50 lb barrel. It is sold by agents and dealers in nearly every city of importance in this country and also in foreign climes. We also have Ointment, Special and Liquid Lice Killers which we advise and sell for special purposes. Samples 10c each postpaid. Book free if you mention Poultry Keeper.

**D. J. LAMBERT,**  
Box P, Apponaug, R. I.



# ARTIFICIAL INCUBATING AND BROODING

(In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another—Editor.)

## THE INCUBATOR; ITS REQUIREMENTS AND LIMITATIONS.

### Getting Ready for the Hatching Season.

By L. E. Keyser, Sayre, Pa.

**A**T this season the poulterer's mind naturally turns to the incubator, being reminded of it, perhaps, by the advertisements of the incubator man-

ufacturers which are now running strong in the poultry press. Old machines should be examined, and needed repairs made before they are wanted for use. With many, 'tis true, the hatching season will not begin until after the commencement of the new year, but it is a good time now to put the machines in order.

Perhaps they did not hatch well last season. If so, did you discover

the cause? It may have been some fault of the machine which can be remedied now, or it might have been due to improper management. Find out the cause whatever it is, if you have not already done so; also how to remedy it, and do not discard your machine under the impression that it is no good. My experience in the use of incubators has convinced me that no matter what make of machine we have, if we thoroughly understand the phenomenon of incubation and take the pains, we can remedy its defects and produce good hatches, nearly if not equal to the most careful sitting hens.

If a new machine is to be purchased it is certainly time to be looking into the matter. Send for and study the catalogue of the various makes and be sure you are familiar with the principle upon which the machine works before buying. The manufacturers will, of course, tell

# Christmas Gifts for All



Christmas time is spending time. Jolly old St. Nick can successfully manipulate the key to our purses when all other attempts fail.

Let us suggest the advisability of buying all your Christmas presents from the largest and most reliable stock in the world, selling direct to the user, and saving you the jobbers', dealers' and agents' profits.

Our prices are always the same—the lowest. We cannot take advantage of the liberal Christmas spirit and advance our prices as some do, for our regular catalogue figures must stand for all seasons.

We can send you everything you want in one shipment, saving you endless effort and delay in buying from several sources.

By purchasing your entire Christmas needs from us we believe you will save almost one-third of the regular Christmas prices you would pay elsewhere.

It is easy to order from our 1128-page Catalogue No. 72, with fine pictures of the articles you desire, and you can do it all in one evening with scarcely any effort.

Once your order is mailed you need not think of it again until you get the goods, for we will take care of it promptly and carefully, guaranteeing safe delivery and perfect satisfaction.

Your neighbors who know will tell you it is a pleasure to deal with us.

We mention here a few suggestions, all taken from our Catalogue No. 72.

Thousands of other desirable presents for every member of the family from the hired man down to the baby.

If you have never seen our big catalogue you have missed a great treat. It's never too late to begin, however. Fill in the coupon and mail to us to-day. Don't wait until it is too late to get your goods before Christmas. Although the catalogue costs us almost one dollar each, we make no charge for it, only asking you to send 15 cents to bear part of the postage expense of sending it.

## Montgomery Ward & Co.,

Michigan Ave., Madison and Washington Sts., Chicago

### For Men:

Pair of slippers.  
Smoking jacket.  
Smoking set.  
Half dozen dress shirts.  
Half dozen colored shirts.  
Silk umbrella.  
Pair of gloves.  
Dozen initial handkerchiefs.  
Morris chair.  
Shaving cabinet.  
Leather couch.  
Shaving set.  
Neckties.  
Match boxes.  
Suit case.  
Cigar jar.

Watch charm or fob.  
Half dozen pairs half hose.  
Pair of suspenders.  
Pocket or bill book.  
A good warm cap.  
Heavy overcoat.  
Muffler.  
Fleece lined mittens.  
Warm overshoes.  
Magnifying glass for reading purposes.  
A pair of boots.  
Buckskin mittens.  
Sweater.  
Banjo or guitar.  
Box of collars.  
Meerschmum pipe.  
Box of cigars.  
Shot gun.  
Hunting jacket.

### For Women:

A pretty apron.  
Dress pattern.  
Wrap or bonnet.  
Toilet set.  
Manicure set.  
Sewing machine.  
Piano or organ.  
Handkerchief.  
Pair of fine shoes.  
Leather purse.  
A new carpet or rug.  
Piece of cut glass tableware.  
Pair of glasses.  
Warm mittens.  
Medicine cabinet.

Hat.  
Books.  
Easy chair.  
Bible.  
Cut glass flower vase.  
Jewelry.  
Silverware.  
Fine clock.  
Bronze parlor ornament.  
Set furs.  
Up-to-date suit or jacket.  
New stove.  
Dining table.  
Box stationery.  
Talking machine.  
Pair of gloves.

Cut this slip out and send it with 15c in stamps TODAY.

MONTGOMERY WARD & Co., Chicago.

Enclosed find 15 cents for partial postage on Catalogue No. 72, as advertised in Poultry Keeper.

Name \_\_\_\_\_  
(Be sure and write very plainly)

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you that their systems of heating, regulating and ventilating are the very best, but you are not obliged to take their word for it. Buy a machine that according to your judgment will meet every requirement, if such a machine can be found.

The price does not always determine the quality of an incubator, but a strictly first-class machine cannot be built at a low price. This I discovered when building some incubators to meet my own ideas. While these machines were excellent hatchers they had some faults, due to the lack of machinery and appliances for building them in the most perfect manner, and cost more than I could have purchased a machine of standard make for.

Both hot water and hot air machines have their advantages and disadvantages, so the choice between the two systems of heating is really an unimportant question to decide. With hot water it is easier to secure a uniform distribution of heat and extra large machines of this type can be operated more economically, while hot air incubators are easier to regulate as they respond more readily to the action of the thermostat.

A good regulator is one of the most important parts when coupled with thoroughness of construction. We must know our machine does not leak air, for if it does it will be impossible to hold the temperature anywhere near steady, even with the best regulator in the world. We do not depend entirely on the regulator, however, but assist it by raising or lowering the lamp, unless it is what is known as a "trip regulator," in which case the regulation depends on increasing or diminishing the flame, and the regulator attends to that work.

These regulators are not largely used, owing to the fact that the lamp burner must be kept scrupulously clean or they will not work at all. The great majority of incubators have what is known as the "damper

regulator," which allows the heat to escape without passing into the machine or heating the water in the boiler. Such regulators can be greatly assisted by turning the lamp up or down.

Another important factor is the system of ventilation, and incidentally the application of moisture. Here is the rock on which many beginners have been wrecked, and over which old operators stumble. Experts disagree both as to the method and amount of ventilation, and very few of them are really satisfied as to the exact stage the eggs should be in to indicate the application of moisture. The only thing for us to do is to use our own judgment, as there are no fixed rules that can be applied.

Early in my experience with incubators I found my judgment was almost invariably at fault, so turned my attention to overcoming the necessity of applying moisture at all. I reasoned that if a hen could hatch equally as well in a dry as a moist atmosphere an incubator could be

made to. It is true there is a vast difference between a nest full of eggs and an incubator full, the latter requiring more ventilation, consequently carrying off more moisture.

There is, however, no necessity for forcing a current of air through the machine in order to supply sufficient oxygen and get the foul gases out. If we turn and air the eggs often these gases will have an opportunity to escape without forcing them through the ventilating flues to the top of the machine or somewhere else where the manufacturer has made an opening for them to pass out. Carbon dioxide is the most poisonous of these gases and is several times heavier than air, so if left to itself it will seek the lowest level. Yet it has a work to perform—that of rotting and dissolving portions of the shell, so the chick may get out—and should not be removed too rapidly.

Even with a very sluggish move-

*Every branch of Poultry Culture covered by the American Poultry Institute's correspondence course. See large ad on page 339.*

## RAYMOND'S

200-EGG STRAIN BARRED PLYMOUTH ROCKS and RHODE ISLAND REDS are

BRED RAISED SOLD **RIGHT.**

If you want exhibition birds, grand breeders, or the best utility stock, write me. R. I. Red Standard and Catalogue FREE if you mention Poultry Keeper.

**D. C. RAYMOND,**

LOCK BOX 955.

SOUTH FRAMINGHAM, MASS.

### "The Breed That Lays is the Breed That Pays."

We are the most extensive breeders in the world of

## Single Comb White Leghorns



We have raised this season more than 5,000 pure-bred White Leghorn chicks, all from the choicest matings.

We can justly claim to have the finest selection of exhibition cockerels and pullets of any of the breeders in this country.

If you want prize-winners, our young birds hatched from special, prize-winning pens will surely land you winners.

Prices of exhibition birds, with full description, will be gladly quoted upon application. We have also a large number of choice breeding fowls,

and offer first-class breeding pullets early hatched and ready to lay at \$2.00 each. If you want winter layers get our early hatched pullets—bred specially for egg production.

Birds are crated and shipped with very great care, and every effort is made to meet the exact requirements of our clients. Send 2c. stamp for catalogue.

**WHITE LEGHORN POULTRY YARDS CO.,**

**Box 514,**

**Waterville, N. Y.**



ment of air in the egg-chamber, if the machine is opened twice a day for cooling and turning the eggs, we will get rid of most of this gas. Then really all the ventilation we need is to supply oxygen sufficient to sustain life. This is a constant quantity and should be the same at all times.

Renewing the air in the egg-chamber, of course, gives a fresh supply of oxygen, but not sufficient to last the twelve hours the incubator is closed, so we must have another and a continuous supply. This is provided for in all incubators, but in many the supply comes in most too rapid a form, so we have to regulate it with the ventilators, or by some other method. Covering the trays with two or three thicknesses of burlap I have found to be a good method of checking too rapid a movement of air through the egg-chamber.

Currents of air striking the eggs during incubation kill many germs, consequently causing dead chicks in the shell. These eddies of air carry off much of the natural moisture and vitality of the eggs that should be retained, so must be prevented as far as possible. If the embryo is kept growing it does not matter what the size of the air cell is. Chicks get out of the shell with all sizes of air cells, and the air cells of eggs that hatch vary greatly both in incubators and under hens.

If the embryo grows so that it is fully prepared for the change when the time comes for it to leave the shell it will get out all right regardless of the size of the air cell. This can be told by the development of the allantois, the function of which is to supply oxygen and gather nutriment for the embryo. It can be plainly seen through the tester on the fourth day, as its blood vessels are then important. By the eighth day it has spread out over the greater portion of the yolk sac, and on the sixteenth day it is carried over the poll of the yolk opposite the embryo and is completed. In the early stages the blood vessels should show dark. If bright red there is too much oxygen and the life is being burned out of the embryo by the combustion of the carbon in the blood.

If one becomes familiar with this

*"Success With Poultry" is worth more than all other poultry books put together if you want to learn how to make money with poultry. Price of book, \$1.00. For that amount (\$1.00) we send book postpaid and full year's subscription to the Poultry Keeper. This is the biggest value ever offered in poultry literature.*

**IRON AGE BOOK—FREE.**

Seed Drills, Wheel Hoes, Potato Planters, Iriding Cultivators, etc.

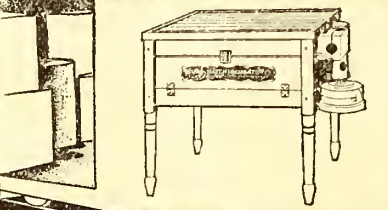
BATEMAN MFG. Co. Box 25, Grenloch, N.J

Farm Poultry, semi-monthly \$1.50 **BOTH \$1**

Poultry Keeper, monthly .50

This is a Special Bargain Offer. Address Poultry Keeper Pub. Co., Quincy, Illinois.

YOUR ORDER SHIPPED QUICK



**You Don't Have To Wait and Wonder**

We realize that it's profit you're after—that you know the Sure Hatch will bring you money as soon as it "gets to work." Our machines are tested, crated and ready for shipment. In a few hours from the receipt of your order your machine is on the cars. We have a force making and shipping

**Sure Hatch**

**INCUBATORS AND BROODERS**

that would make some of our competitors stare. Don't worry about getting your incubator—we'll do our part in a hurry as we'll prove by the freight receipt. When you get the Sure Hatch you'll have a steady money maker that will work over time without complaint or delay. Are you after profit? Send for our attractive catalogue A-14. It's free.

Sure Hatch Incub. Co., Clay Center, Neb., Indianapolis, Ind.



IT SCATTERS THE CORN.

**Acme Corn Sheller**—Most convenient and efficient little sheller ever made. Strong, light, compact. Just the thing for shelling corn for poultry, seed corn, etc. Shells from pop corn to largest ear common corn. Price, prepaid 50c. For 80c we will send sheller and year's subscription to Poultry Keeper. Address, Poultry Keeper Publishing Co., Quincy, Ill.

# Gopper Pliant Leg Bands



are the best and most easily adjusted, to the legs of fowls. Will not corrode or canker. Will not come off. The numbers are large and bold. Made in three sizes. When ordering name kind of fowls you have

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| Price—Postpaid per dozen.....15 cts | Price—Postpaid per 50 .....40 cts  |
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Special prices on large lots. Address,

**Reliable Incubator and Brooder Company,**

BOX A-15. QUINCY ILL., U. S. A.



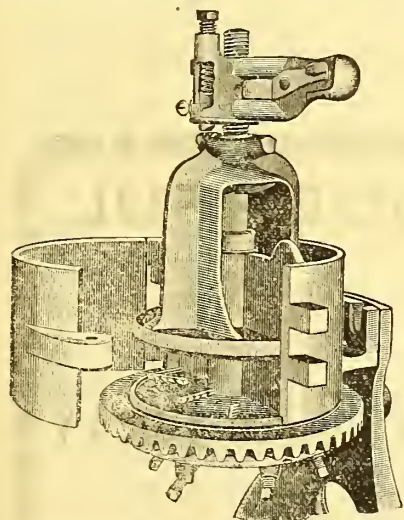
growth, keeps the temperature even and the ventilation right, which he must do to secure a proper development of the embryo and which will be indicated by the growth of the allantois, he can have uniformly good hatches.

Scaly shanks look bad and are not to the credit of any poultryman. Get rid of this disease before winter sets in and the birds are crowded on the roost. It will spread from bird to bird and from the mother hen to the chicks she covers. Work into the "scale" of the shanks an ointment of one part kerosene oil to six of lard. Do this three times, two weeks apart, and the insect that causes the trouble will be exterminated. Then, keep all scaly shanked birds away from your birds and it will not appear again.

**LIGHT WORK OF BONE CUTTING.**

Readers of the Poultry Keeper who are so fortunate as to be users of the machine itself will quickly recognize in the illustration the business end of Mann's Green Bone and Vegetable Cutter. By the "business end" we mean the feeding, regulating and cutting devices, and it is right here that the Mann Cutter shows its excellence. The advantages of green bone for poultry are everywhere admitted, yet many poultry raisers refrain from its use, not on account of cost or difficulty in procuring the bone, but solely because of the difficulty in properly preparing it for the hen's use.

The grinding of bones has been thought to be a hard matter. This in times past and with some devices used has been true. But this bugbear and all other objections of like character go for naught with the machine here shown. As we understand it the grand distinguishing feature of the Mann Cutter is in the feeding, the devices peculiar to it which secure easy turning, which in fact make the mill accommodate itself to the strength of the person operating it, man, woman or child. Thus, while the child will not cut so much as the man in a given time the turning will be just as easy for her as the man's job is for him. All this is accomplished by simply turning the screw which controls the governor.



Mechanism of the Mann's Bone Cutter.

Again, it is nicely arranged that the feed shall not be regular in all cases. The hard bones are not forced up to the cutter as fast as the soft ones. The knives revolve in the bottom of an open top cylinder, open to show the knives in the illustration. The bones are brought against the revolving cutter plate by a follower which is forced downwards by a feed handle on the upright feed screw.

The feed handle is threaded to fit the screw. When the handle revolves with the screw it has no effect upon the follower. On the lower side of the handle is a small plunger manipulated by a spiral spring.

The plunger is prevented from revolving by a small lug on either side of the follower. While at a stand still it forces the follower down against the bones and secures rapid grinding. But when the hard bones appear and the resistance is greater the spiral spring releases the plunger so that it slides over the lug and the feed handle revolves with the screw until the knives cut off the hard pieces of bone they have engaged. Thus, in hard dry bones the knives are automatically prevented from engaging more than can be easily cut. The operator will not be cutting as much but he will not know from the turning whether he is cutting hard bones or soft.

The manufacturer of the Mann Cutter is the F. W. Mann Co. of Milford, Mass., who will be pleased to send a catalogue for full description to any Poultry Keeper reader writing for it. Their attractive ad appears on page 331.

Students of the American Poultry Institute are assisted to paying positions. See large ad page 339.

**Lee of Omaha**

makes the best lice and mite killer for poultry—Lee's Lice Killer. A liquid—simply spray or sprinkle on the roosts. No handling of fowls. No labor or bother. Kills both body-lice and mites. Sold in every state at 35 cts. per qt., \$1 per gal. Send for free catalogue, poultry booklet and calendar, list of 3,000 agencies, etc. GEO. H. LEE CO., Omaha, Neb.

**PINELAND**

INCUBATORS HATCH GREATEST NUMBER OF FINEST CHICKS. BROODERS HAVE NEVER BEEN EQUALLED.

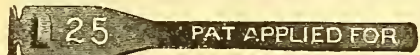
**FIDELITY FOOD FOR YOUNG CHICKS.**

Used everywhere by practical poultrymen and special 1st fanciers with unfailing success. Insures perfect health and promotes rapid growth. Concise catalogue from

**Pineland Incubator & Brooder Co.,**

Box C, Jamesburg, N. J., U. S. A.

**THE IMPROVED CHAMPION LEG BAND.**



Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock they can't loose off. Postpaid 12-15c; 25-30c; 50-60c; 100-80c; initials extra-10c per 100. The SUPERIOR is securely locked can't lose off, six sizes. State breed and sex. Postpaid 12 20c; 25-35c; 50-65c; 100-81; sample for stamp. Circular free. T. CADWALLADER Box 704, Salem, Mo.

**From the Sheep to Consumer.**

his beautiful, all-wool, handsomely tailored walking skirt, \$4.98 made like cut, by same mills that make cloth. Sold direct to wearer at wholesale prices. Skirts noted for graceful cut, attractive style, dependable wearing quality. Samples of goods free for the asking. When ordering, give size around waist and length desired. We will sell goods for 95c per yard. 56 inches wide. We will deliver this skirt to you for \$4.98, C. O. D. We pay express.

**Moline Woolen Co.,**  
Moline, Illinois.

Write today for free samples of material. Do it now and mention Poultry Keeper.

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Send in a list of the publications you wish and we will quote a reduced price on the lot. Address.

**POULTRY KEEPER PUB. CO.,**

QUINCY, ILLINOIS.





Ormas Incubator Factory, Ligonier, Indiana, Mr. L. A. Banta, proprietor.

**ORMAS INCUBATORS & BROODERS.**

Fourteen years of successful use all over the world have firmly fixed the Ormas Incubators and Brooders among the standard machines. These machines are made by Mr. L. A. Banta, Ligonier, Ind., a practical poultry man who has a thorough knowledge of the principles of artificial incubating and brooding. Mr. Banta's motto is "A first class machine at a reasonable price." The half tone herewith shown we

had made from a photograph Mr. Banta sent us to show how well equipped he will be this year to handle his rapidly increasing business. The character of this building indicates the worth of the output, i. e. good and substantial.

In his letter Mr. Banta states, "The dimensions of the new building are 62x32 ft. three stories. It is connected to the old factory by a covered passage way, giving a floor area of 20,000 square feet, to

be utilized solely in the manufacture of Ormas Incubators and Brooders.

The success of the Ormas Incubators and Brooders has been phenomenal. Mr. Banta does a strictly cash business and makes himself personally responsible for the good working of every machine he sends out. His new 1904 catalogue will be of interest to many P. K. readers and to those who name the paper when writing Mr. Banta will gladly send a copy.

The cold days have shut off most of the supply of green food. Are you prepared to feed clover or vegetables when your birds go into their winter quarters? If you have a bag, or more, of cut clover hay in your barn, and a bin of cattle beets and cabbage in the cellar, you can face the first freeze with a feeling of having made

provision for winter eggs. Some of our most successful subscribers feed steamed cut clover at noon—either alone or mixed with just enough bran to attract the hens. A full feed of mash in the early morning, the light amount of clover at noon, with a full feed of whole grain at night, will

bring a full egg basket—if other needs of the birds are supplied.

The man behind the ad is largely responsible for results.

*How to feed your poultry is included in the American Poultry Institute's correspondence course. See ad on page 339.*



**SIMPLY WONDERFUL**

how, at nearly every poultry show being held, the winners in the

White Plymouth Rock Class are Birds Direct from or Descendents of the

**Fishel's White Plymouth Rocks**

Our last exhibit at American Poultry Ass'n. meeting at Indianapolis Ind., September 14-18, 1903, the Fishel White Rocks won 1st, 2d, 3d prize cock; 1st, 2d, 3d prize hen; 1st, 2d, 3d prize cockerel; 1st, 2d prize pullet; 1st, 2d, 3d prize pen.

What better proof can I give you as to the excellent quality of this season's matings? At Chicago, Atlanta, New York State Show, St. Louis, Indianapolis, Great Crystal Palace and Dalry Shows, England, my birds have won the leading prizes. I have something over 4000 birds to sell. Exhibition Birds able to win any where.

Send a 2 cent stamp for my 36-page Catalogue. It gives half tones of my winners, tells how to feed, etc.

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**U. R. FISHEL, - - - - Box K-2, Hope, Indiana.**



**TO NEW SUBSCRIBERS.**

If you will send us a list of poultry and farm papers and magazines that you expect to take the coming year we will quote you a clubbing rate lower than you could otherwise obtain. We have cut rates on these publications and give our subscribers the benefit.

Do not renew any of your subscriptions nor send in new subs to any journals, until you get our prices. Send list on postal and answer will be sent by return mail. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**SUCCESS WITH POULTRY.**

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

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Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9-12 inches in size,) with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

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**WHY RUMELY?** You will find the latest catalogue on Rumley's Rear Geared Traction Engines and New Rumely Separators full of reasons. Write us for it. Mailed free. Mention P. K. M. RUMELY COMPANY, LaPorte, Ind.

**STANDARD-BRED LIGHT BRAHMAS.** Fowls and eggs for sale at all times. I ship fowls or eggs to any part of the U. S. and Canada, to reach you in good shape. Give me a trial order, or call and see me. Mention P. K. ARON J. FELTHOUSE, P. O. Box 203, Elkhart, Ind.

**KEEP POSTED**

as to what is going on in the east. You can get the leading monthly poultry paper of New England from now until April 1, 1904, for only 10 cents by mentioning where you saw this adv.

POULTRY STANDARD, Stamford, Conn.



**DOLLARS AND DOLLARS** in the poultry business. Profits greater today than ever before. Start right and your success is certain. The Inland with 64 to 100 pages a month is the finest paper published and tells how to make poultry pay. Sample copy for asking. Subscribe now and receive Book, "Plans for Poultry Houses," FREE. Inland Poultry Journal Co., 805 Ford Bldg., Indianapolis, Ind.

# LEE'S LICE KILLER

Is the best lice and mite killer for poultry, the easiest to use; surest in results. Sold by dealers everywhere. If you don't know who sells it near you write us and we will tell you. Ask for Poultry booklet. Mention Poultry Keeper.  
GEO. H. LEE, Omaha, Nebr.

**HOOSIER INCUBATOR**

Hatch every egg that can be hatched because they furnish more pure air than any other incubator. Triple-strength regulator. No moisture. Reasonable price. Guaranteed.

Hoosier Brooders have hovers fitted with regulators. Require less care than any other brooder. 90 days' trial. Catalogue free if you mention Poultry Keeper.

**HOOSIER INCUBATOR & BROODER CO.,**  
Columbia City, Ind.

## BANNER ROUP CURE.



Banner Roup Cure is guaranteed to cure Roup, Colds and Canker in Poultry or Pigeons, or money refunded. Given in the drinking water and they take their own medicine. Price, 50 cents and \$1 per box. Postpaid. Our immense Illustrated Catalogue Free, if you mention Poultry Keeper. Send for one.

**EXCELSIOR WIRE & POULTRY SUPPLY CO., Dept. K.**

W. V. RUSS, Prop. 26 & 28 Vesey St., New York City.



**Who Said They Were't King Cramming Machines?**

Printed instructions free of great value. Cost of food to be fed, \$26 per ton from your grain dealer.

**"MARY L."** the Largest Poultry Plant in the World. SIDNEY, OHIO, Dec. 1, 1902.

W. H. Allen, Arlington, Mass.

Dear Sir: In reply to your favor of the 29th inst., would say; I am using 12 of your stuffing machines with entire satisfaction. Respectfully Yours,

(Signed) JOHN LOUGHLIN.

CLEVELAND, OHIO, April 11, 1903.

Mr. Wm. H. Allen, Jr., Arlington, Mass.

Dear Sir: Your kind letter is at hand. The machine is in good working order and we like it very well. We have seen some other makes and are free to say that yours is the most practical and substantial of them all. Our work has been largely experimental, but the results are entirely satisfactory.

Cordially Yours,

(Signed) HENRY M. LADD, Prop. Crescent Farm.

Send for testimonials. Please mention P. K. when writing.

W. H. ALLEN, JR., Arlington, Mass.

## IMPORTANT AND PROFITABLE.

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three"

for \$1, we will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

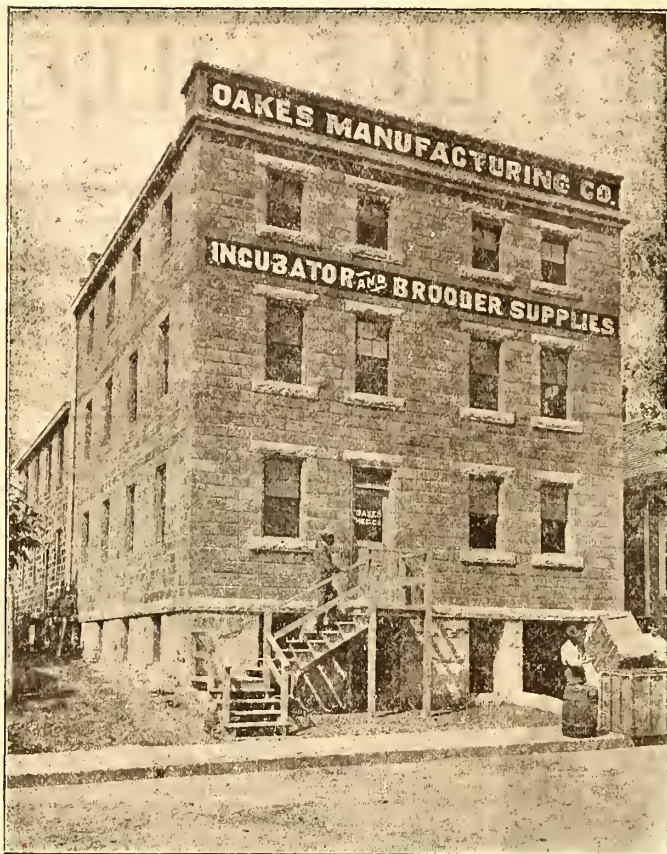
Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

POULTRY KEEPER, Quincy, Illinois.

*Enclosed find one dollar for three subscriptions to POULTRY KEEPER for one full year.*

|   | Name. | Postoffice. | State. |
|---|-------|-------------|--------|
| 1 |       |             |        |
| 2 |       |             |        |
| 3 |       |             |        |





The plant of the Oakes Manufacturing Co. at Bloomington, Indiana, is one of the largest and best equipped incubator and brooder supply factories in America. The business of this company was established in 1892 by Mr. L. R. Oakes, who began the manufacture of the Oakes Hydro Safety Lamp in a little frame building 12x24. From this small beginning the business has increased year by year, until the Oakes Mfg. Co. (recently incorporated) now occupies the entire stone building shown on this page; and manufactures, not only the now celebrated Oakes Hydro Lamps and Thermostats, but also all kinds of regulators, heaters, tanks, etc., and in fact all the metal parts used in the construction of incubators and brooders. This company has among its customers many of the leading incubator manufacturers, and annually furnishes supplies and repairs to thousands of poultrymen and farmers who make their own incubators or repair old ones. The rapid and steady growth of the business of the Oakes company during the past eleven years, is the best possible evidence of the high quality of their goods. They issue a nicely illustrated catalogue which is sent free to those who name P. K. when writing.

#### MISTAKES OF BEGINNERS.

Stamford, N. Y., Dec. 3, 1903.  
Editor Poultry Keeper.

I am one of the going-to-be poultry keepers so would like to chat with you about my failure. Most people tell of success but it is well to tell of failure also. I am city-bred and my health failed, the story of many. After being in the country a year and improving in health I bought a fifty-egg incubator, second hand. There was no book of instructions except the simple directions given by the first owner (being like many penny-wise pound foolish).

I thought to get eggs from a farmer, mostly Plymouth Rocks, but not full-blooded. They let me have three dozen, then one dozen White Leghorns. I read the articles by different writers in Poultry Keeper and started

*The American Poultry Institute teaches Poultry Culture by mail. See large ad page 339.*

#### WILBER'S S. C. WHITE LEGHORNS

Bred-to-lay. Known as leading strain of heavy layers and winners in largest Southern shows. Unexcelled for foundation blood or introducing new blood. Few excellent pens, trios, single cockerels and hens. Our 1904 breeding yards now mated (the best we have ever mated.)

If you want as good as the best, send for our beautiful free catalogue. Tells all, with prices, etc. Write your wants. Satisfaction guaranteed.

WILBER BROS., Box E., Petros, Tennessee.

my machine. Oh, how I watched it. I never forgot to turn the eggs, never let the lamp burn out, and was so very careful I tired myself all out, going into the cellar to see if it was doing all right.

Out of that entire lot of forty-eight eggs I got but five chicks. I opened all the rest. Five were dead in the shell, rest nothing but a gummy substance. One chick later showed he could not stand, jumped like a hop toad, so we disposed of him. One was chilled and died, leaving three. A neighbor who had some chicks hatched by hens came in on the third day and told me they would all die as I was not caring for them right. I asked her to take them, and later I gave them to her outright.

I was not going to fail, so I bought from another party four dozen eggs. I started again early in June. After the fifth day I tried testing, but after

#### North-Western Poultry Farm

Breeders and Shippers of Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Buff and White Cochins, Light Brahmas, Black Langshans, Black and Buff Bantams, Minorcas, S. S. Hamburgs, Cornish and White Games. All Birds shipped score 90 and upwards. Prices right.

L. B. JENNINGS & SON, Polk City, I wa

#### Bred to Lay

##### WHITE WYANDOTTES

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper.

C. BRICAULT, Andover, Mass

#### For a Half Dollar

You can get two of the best magazines published for a full year's subscription. These two leaders are as follows:

##### THE FEATHER

A large illustrated monthly on Poultry and Pigeons; with four beautiful color-plates of fowls. Worth at least a dollar.

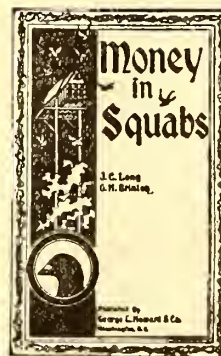
##### The National Illustrated Magazine

The leading literary magazine of the National Capital. Just the kind of a publication the whole family will read. Send the 50 cents and get these two great papers for a whole year. 11-3

GEO. E. HOWARD,

PUBLISHER,

714, 12th Street N. W. Washington, D. C.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had most generous sale during the past year greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Houers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. Price, 50 Cents.

A subscription to Poultry Keeper (50c) and a copy of Money in Squabs (50c) for 75c. Or we will furnish Money in Squabs free as a premium for two subscriptions to Poultry Keeper at 40c each. Address, Poultry Keeper Publishing Company, Quincy, Illinois.

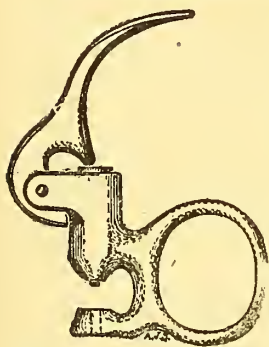


trying ten I gave it up for every egg looked like a fresh egg does before going into the incubator. Not one of that batch of eggs hatched and the secret was every egg had a pin hole in the shell, a trick of some who sell eggs to market.

I have learned my lesson and next spring I shall spend more money and buy from Poultry Keeper advertisers. I want to warn other beginners in the business—don't be as economical as I was—buy eggs that you can depend on, and deal with those you can trust.

K. A. M.

**P. K. POULTRY MARKER.**



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching the web between the toes.

A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

**VENTILATION IN INCUBATORS.**

You will often hear the question asked, "What is the matter with my chicks? They look all right when they first come out of the incubator, and seem smart until they are a week or ten days old; then they begin to droop and die. Some will have bowel trouble, some will have a whitish discharge which means sure death sooner or later." You, perhaps, will lay it to the stock, some lay it to the feed, and others to the heat in the brooders. But they hardly ever think of the incubator. And that is where all the trouble began.

We must all admit that no living thing can live and thrive without oxygen. You compare a child brought up in a stifled tenement house in the city with one of the same age brought up in the country. What is the difference? The city child will look delicate, has no appetite, has no strength, while the country child will look healthy, has lots of strength and is a larger child, will eat all the time. He has had good, fresh air to breathe. You take that same child and put him in a city, what effect does it have on him? The first thing you will notice he doesn't eat as well as he did, his appetite is not good, consequently he don't grow so fast.

Take a good fertile egg. You will find it contains a germ of a chick. When you put that egg in an incubator, if the conditions are right the germ begins to grow; nature has provided just so much of the egg for the germ to live on for just twenty-one days, the rest is supposed to evaporate. Now if that germ doesn't get plenty of oxygen, what is the effect? Like the city child, no appetite. Therefore it has not absorbed or digested all that nature has provided for it. But the time is up for it to hatch, and it must hatch or die in the shell. Those that do hatch, having not absorbed all the yolk, will live and seem smart for about a week or ten days, then what they didn't absorb for the lack of oxygen during the twenty-one days of incubation begins to decay, causing a whitish discharge which sticks to the feathers. Thus the bowel trouble.

In some it will not show itself on the feathers, but they all die with blood poison, caused by too little oxygen during incubation. You may think that by starving them for a week will overcome this, but you cannot. Those chicks are doomed to die. Most likely you will say, "Why do any of them live? Why don't they all die?" In most incubators the ventilation goes through it in streaks, some eggs get fresh air and others don't. For instance, the air will come in on top at one end and out at the bottom at the other end, thus giving some part of the eggs fresh air. When outside conditions are good with those incubators, the better the outside conditions are the better the hatches are, and the better the chicks are, and the more of them you will raise.

Now with the "OLD HOMESTEAD" incubator, and eggs from good healthy stock, with the incubator in a well ventilated

room, you will get a good hatch every time, and have no trouble in raising them. We claim OUR incubator is the only one on the market today that is self-ventilating and self-moistening. If you have a machine with ventilators on it, and with directions that say keep them open until the chicks begin to pip, then close them to keep the moisture in that rises from the chickens do you think you have a self-ventilating and self-moistening incubator? We don't; but there is one thing we know by experience. That is, you have a job on your hands to raise chicks hatched in that way. The "OLD HOMESTEAD" incubator has no ventilators that you can close. It has a system of ventilation of its own, and gives the eggs just ventilation enough all the time to hatch them without moisture. Therefore we are safe in saying it is a self-ventilating and self-moistening machine. J. Brown, Pres. Old Homestead Brooder Co., manufacturers of Old Homestead Incubators & Brooders, Middleboro, Mass.

**WHITE ROCKS, Fishel strain**

May hatched, bred from \$50 pen, direct from Fishel. Cockerels, \$1 to \$3.50. Pullets, \$1 to \$2.50. White Wyandottes for sale. Terms cash.

BROWER & SONS, Box 50, Grafton, Ill.

**WON AGAIN NOVEMBER 25.**

See my list—1st S. C. Brown Leghorn cockerel; four firsts Rose C. Browns; two firsts White Wyandottes. Only breeds shown. Will show Rose C. Whites next show. I have four extra fine Buff Wy. cockerels at \$3 and \$5 for sale. Females \$2 each. Some extra nice chl's and females of above breeds. Collie pups, very fine.

W. W. KULP, Box 30, Pottstown, Pa.

**SINGLE COMB BUFF**

**ORPINGTONS**

**COOK'S STRAIN.**

A few good breeders CHEAP, which we do not wish to winter. Hens and pullets, a lot of cockerels good for grading up common stock at your own price. Be quick if you want them. Catalog free if you mention Poultry Keeper.

A. EDWARD GREEN, Chicago, (Morgan Park Station) Ill.



**Just As Soon As**

you get through experimenting you'll be using Page Fence. Our lithographed catalog tells why. It tells how the page differs from all others, and you'll find it interesting, and well worth while. Page Woven Wire Fence Co., Box 77, Adrian, Mich.



I. J. F. Siems, want every one to know all about the

**Natural Hen Incubator**

and will be greatly pleased to send our catalogue, telling all about it, together with a 25c Lico Formula Free of charge if you send us your address. Only plan totally different from all others. 200 egg hatcher only \$3. Agents wanted everywhere, either sex. No experience necessary. Secure your territory at once. Address

NATURAL HEN INCUBATOR CO., Box R-1, Columbus, Neb.

**Standard Poultry Food**

**Your Hens Will Pay**

bigger profits if you give them a little help right now—I have the Poultry Food you've been looking for—a combination of vitalizing elements and most needed nutrition. It's the

**Standard Poultry Food**

and it surely does make fowls thrive, and thrifty fowls pay—mix it with the feed. 4 pound box 25c, 10 pound bag 50c. If your

dealer hasn't it send your name to us at once for our great \$2.00 offer and agency proposition.

F. E. Sanborn, President.

The F. E. Sanborn Company, 1505 Howard Street, Omaha, Neb.

Used and indorsed by Mrs. A. H. Hansel, Loup City, Neb. Leader in great Australian Laying Contest.



**RIVERSIDE POULTRY YARDS, - - BOX D, DELAWARE, N. J.**

**\$5** Buys a Trio of choice Barred Plymouth Rocks, White Wyandottes, Single and Rose Comb R. I. Reds, Single Comb White, Single and Rose Comb Brown Leghorns and Prize winning Light Brahmans. Choice yearling hens, \$1.25 each. Choice cockerels, \$1.50 up; pullets, \$1.25. Send me a trial order and get good stock. 15 years' experience. Circular free if you mention Poultry Keeper. C. B. HUFF, Propr. Printing for Poultrymen, write your wants.

**OUR BEST CLUBBING OFFER!**

Farm Poultry, The great semi-monthly \$1.00 }  
Poultry Keeper, poultry paper of the east } Both \$1.10  
The greatest practical poultry paper of the country... 50c }

Offer good for renewals as well as new subscription. This is the strongest combination ever offered. Address, Poultry Keeper Publishing Co., Quincy, Illinois

**116 ACRES DEVOTED TO POULTRY.**

**WILD MALLARD DUCKS. BARRED PLYMOUTH ROCKS.**

Our entire time and attention given to the business. Egg orders for 1904 now booked.

Hatching Capacity 2500 Eggs Every 21 Days. 400 LAYERS  
HOUSE CAPACITY A 24-page catalog for a stamp, if you mention Poultry Keeper.  
Correspondence cheerfully answered. (That's what we are here for.)

SUNNYSIDE POULTRY FARM, Coldbrook, Ill.

**The 20th Century Fowl.**

**A trial will convince "WHITE PEARLS" you that**

of the fowl kingdom are the best general purpose fowl. For layer and market they lead. If you want profits buy my strain of WHITE PLYMOUTH ROCKS.

Get the best. I breed them. W. P. ROX exclusively.

PEARL LAWSON, Staunton, Ind.



**NECESSITY FOR INSTRUCTION ON POULTRY.**

Mr. Harrison Weir, the famous English poultry artist, and recognized authority on poultry, says: "Most people have an idea that for poultry keeping, whether for pleasure of profit, little, if anything, is required beyond common sense, inclination and a sufficient amount of capital—as though there were nothing to learn, no knowledge or experience necessary, but simply to take or buy some ground, build sheds, make runs, and stock them with fowls, turkeys, geese and ducks—the thing is done. But unfortunately, it is not; excepting that so far as a certain amount of money has been spent in the hiring or buying of the land and the poultry, a doubtful responsibility has been incurred, while the profit is by no means so apparent; and then the tyro begins to realize, if he or she had not done so before, that the keeping of poultry, like any other business, must have an especial training."

Many of our readers have become familiar with the ads of the American Poultry Institute, who offer a correspondence course of Instruction on Poultry Culture. Connected with this school, as instructors, are more than fifty of America's foremost and successful poultrymen. Such men as Mr. Henry E. Moss, Dr. N. W. Sanborn, Mr. Thomas F. McGrew and other equally well known, each one a specialist and an expert on the particular work he is doing for this institute.

Their system of study has many advantages. Studying is done at home, in spare time and without loss of time from business. Students can progress as rapidly or as slowly as desired. The tuition fee is small and can be made in monthly payments when desired.

Those who are not having success with their poultry, as well as those who intend starting, should send for their prospectus, which gives course of study, names of faculty, terms etc. Address, American Poultry Institute, Dept. P. 13, Rochester, N. Y.

W. W. Kulp, Pottstown, Pa., reports following winnings at the Sanotoga, Pa., show, in November: Showed one Barred P. Rock and won 3rd hen, 1st Buff Rock cock in class of seven; 2nd Wh. Wyandotte cock and hen, 1st cockerel and pullet (four shown), special for best shaped cockerel (all classes). S. C. Brown Leghorns, first cockerel in large and fine class. This cockerel was judged the best bird of the breed ever shown and won color ribbon over all. Rose C. B. Leghorns, four firsts, three seconds, three thirds and three fourths—two exhibitions. Also a valuable silver cup on Leghorns and Rocks.

This is to certify I have sold my entire flock of White Langshans, comprising my Boston, Philadelphia, Washington, D. C., Hagerstown, Atlantic City and Newark prize winners, to Mr. James Rennie, Esopus, Ulster Co., N. Y. I recommend him to my customers and to prospective buyers with pleasure.

CHAS. M. CLIME, Terre Hill, Pa.

*We do printing for the poultrymen and have the best line of cuts for this work. It makes a big difference in your business what kind of stationery you use. Your customers judge you by the letters you write. Let us send you samples of envelopes, letter heads, tags, etc., free on request.*

**EXCELLENT WYANDOTTES.**

At this age we are a great many of us looking for the man that has the goods we want. Did you say Silver Wyandottes? Yes, they are at A. & E. Tarbox, Yorkville, Ill. I saw them there on Nov. 12, 1903, and scored one hundred head. I wish to make this simple statement about what I found in these yards.

The quality, taking the entire flock, is the best I have ever seen in any one breeder's yards. They have size and shape, and when you come to color they have those clear open centers, with good black lacing that is so desirable, yet hard to produce. To sum it all up, if one is looking for quality to improve his flock, I would not know where to find better. They also have a grand flock of White Wyandottes that will keep the boys busy "down the line" to get around. (See ad on cover.)  
F. H. Shellabarger, West Liberty, Iowa.

The Hoosier State Incubator Co., Amo, Ind., when sending in their order for ad in Poultry Keeper write, "Improvements in machinery are often suggested by customers or the worker in the actual field of operation. Just so with the Hoosier State Incubator, a product of necessity for the farm, it is built for the benefit of the user. It's even distribution of heat in the egg chamber is the acme of success. It is not our ambition to be the largest manufacturers of incubators, out to make a good machine at a moderate price. We have not built a factory and then made a machine, but machine first and factory next. We want every Poultry Keeper reader to send for the description of the Hoosier State Incubator and see if we are not worthy of confidence.

Wilbur Bros., the S. C. White Leghorn specialists of Petros, Tenn., have an attractive and interesting eight page catalogue that will be sent free to P. K. readers on request.

**CAPONIZING INSTRUMENTS.**

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-class in every respect.



With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**SAVE SUBSCRIPTION MONEY.**

Don't be bothered with sending subscriptions to your magazines and periodicals to each different publication. Let US Send For You and Save Money. We have Clubbing Rates on everything published. If the following offers do not include what you want send list on postal and we will quote price by return mail. The following offers include the highest grade publications in the country. You know them all. When ordering please give club number.

**NO. 1.**

|                                           |        |
|-------------------------------------------|--------|
| Ladies Home Journal (monthly).....        | \$1.00 |
| Saturday Evening Post (special rate)..... | 1.25   |
| Success (monthly).....                    | 1.00   |
| Poultry Keeper (monthly).....             | .50    |
| Our price.....                            | \$2.95 |

**NO. 2.**

|                                        |        |
|----------------------------------------|--------|
| House Beautiful (monthly).....         | \$2.00 |
| Country Life in America (monthly)..... | 3.00   |
| Poultry Keeper.....                    | .50    |
| Our price.....                         | \$4.40 |

**NO. 3.**

|                                 |        |
|---------------------------------|--------|
| Breeders Gazette (weekly).....  | \$2.00 |
| Country Gentleman (weekly)..... | 1.50   |
| Poultry Keeper.....             | .50    |
| Our price.....                  | \$3.00 |

**NO. 4.**

|                                         |        |
|-----------------------------------------|--------|
| National Stockman & Farmer (w'kly)..... | \$1.00 |
| Green's Fruit Grower (monthly).....     | .50    |
| Poultry Keeper.....                     | .50    |
| Our price.....                          | \$1.50 |

**NO. 5.**

|                               |        |
|-------------------------------|--------|
| Inter Ocean (weekly).....     | \$1.00 |
| Vicks Magazine (monthly)..... | .50    |
| Poultry Keeper.....           | .50    |
| Our price.....                | \$1.50 |

**NO. 6.**

|                                         |        |
|-----------------------------------------|--------|
| Farm Poultry (semi-monthly).....        | \$1.00 |
| American Poul. Advocate (monthly).....  | .25    |
| Success With Poultry (120-page bk)..... | 1.00   |
| Poultry Keeper (monthly).....           | .50    |
| Our price.....                          | \$1.95 |

Address, Poultry Keeper Pub. Co., Quincy, Ill.

**GOLDEN WYANDOTTES** Winners at American's Greatest show. Bred and owned by I. X. L. Poultry Yards, J. F. Scholz, Prop., Erie, Pa. Stock and eggs for sale. Circular free if you mention Poultry Keeper. 11-7

**I AM SELLING NEARLY ALL OF**

**My Breeding Stock at Greatly Reduced Prices**

Hens \$1 and \$1.50 each; cocks that won in the Show Room, \$3 to \$4.50 each; other cocks \$1.50 and \$2 each; all are good sized stock. The hens weigh 7 1/2 to 9 lbs. each; cocks 8 1/2 to 10 lbs.

**J. J. French,**  
838 W. Grove Place,  
Toledo, Ohio

**Don't Waste Advertising Money—Take the Paper that Pays**

Attleboro, Mass., Oct. 12, 1903.

Publishers Poultry Keeper.

I have just received an order for 20,000 R. I. Red eggs for a broiler plant in New Jersey, to be shipped between October 1 and March 1. This order came through my ad in Poultry Keeper. Your journal is my best advertising medium.

T. N. Smith.

January, February, March and April are the four months when nine-tenths of the Poultry, Eggs, Incubators and Poultry Supply Sales are made. These are **OUR MONTHS OF HEAVIEST CIRCULATION**. In addition to our paid subscription list of 25,000 copies per month we shall circulate during the four months named **OVER 100,000 EXTRA SAMPLE COPIES**, mailing each book direct to some one interested in poultry.

**This Great Circulation Will Positively Afford the Best Advertising Medium in the Field this Season.**

**DISPLAY RATES**—(by the inch) 1 month \$2.80; 2 months, \$5.60; 3 months, \$8.40; 4 months, \$10.10.  
**BREEDERS' CARDS**—(by the word) 1 month, 4 cents; 2 months, 8 cents; 3 months, 9 cents; 4 months, 10 cents. This means that a 30 word ad under attractive classified heading, run in January, February, March and April will cost but \$3. (No ad accepted for less than \$1.)

Your Entire Season's Profits Depend on the Sales You Make Between Now and April. We Can Sell Your Stock and Eggs. Write for particulars. We will answer any questions promptly and cheerfully.

**Poultry Keeper Publishing Co., : : Quincy, Illinois.**



**BREEDERS' CARDS.**

This style of ad (see pages 383 and 384) is one specially suited to the breeder on a small scale who has for sale a limited amount of stock and eggs. Our charges are as follows: (By the word) .4 cents for one month, 8 cents for two months, 9 cents for three months, 10 cents for four months.

The four months to follow (January, February, March and April) are the months when practically all the sales in this branch of the poultry business are made.

These are also our months of heaviest circulation, as in addition to our regular paid subscription list of 25,000 copies per month we shall circulate over 100,000 extra sample copies. This gives the advertiser a two-fold circulation during the best months, at no increase over our regular rates.

A thirty word Breeders' Card in January, February, March and April would cost but \$3 and would bring many times its cost in sales. It is not a risk, but a "sure thing." Read what Mr. T. N. Smith says on page 360.

**POULTRY KEEPER INSECT BELLOW.**

For use in dusting insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste any powder if you use



these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**GREAT OPPORTUNITY.**

Poultry Keeper readers who know the value of good stock have an excellent chance to get bargains this month from the Millville Poultry Farm Co., of Millville, N. J. (See big ad on page 369). For those who do not happen to be familiar with this stock we quote here from an editorial item which appeared in our February 15, 1903, issue.

"The largest price ever paid for a single bird in the United States was given for the first prize Buff Plymouth Rock cockerel at the Boston show last month. This bird was bred by Mr. M. F. Delano of the Millville Poultry Farm, Millville, N. J., and was part of his exhibit at that show. Mr. Delano also sold for \$200 four hens of the same strain to go with the cockerel, making \$500 he received for the five birds. Mr. Delano made the best record ever made on Buff Rocks at the Boston show."

We specially advise buying "December Bargains" direct from Mr. Delano's ad on page 369. Poultry Keeper vouches for the good value of these birds. He guarantees to please or birds can be returned, and he will

pay return charges and refund purchase money. This guarantee makes the buyer absolutely safe. Don't delay.

**WANTS REASONABLE EXPRESS RATES.**

Editor Poultry Keeper.—If the breeding of thoroughbred poultry is to flourish and be profitable in the future, some arrangement must be made with the express companies whereby we can ship stock and eggs at reasonable rates.

There is no covering up the fact that the present exorbitant express charges are doing more to kill our business than all other adverse conditions combined.

Few customers will buy when they have just reason to fear that the express charges may be more than the breeder's price for the stock or eggs. W. H. Harwod, M. D., Chasm Falls, N. Y.

**TWO POULTRY PAPERS IN ONE.**

The publishers of Poultry Keeper and Farm Poultry (Boston, Mass.,) have formed a combination to increase their circulation. The arrangement is purely a business one, but the subscribers will be greatly benefited.

Farm Poultry is the great semi-monthly of the east, price \$1 per year. Poultry Keeper is the great practical poultry paper of the country, price 50c per year. We offer both for \$1.10. This is a combination of the two papers mostly devoted to practical poultry. It is the best offer we have ever made. Send your subscriptions in to us. Poultry Keeper Pub. Co., Quincy, Ill

This is the best month of the year to study the incubator subject. We advise our readers to send for catalogues of their chosen makes and order early. The great rush comes in February and by getting your machine before this rush comes on helps not only the manufacturer but yourself.

*You will profit to study Poultry Culture with the American Poultry Institute. See large ad page 339.*

**de Wolf Farm,**

Pappoesquaw, Bristol, R I,

Prize winning RHODE ISLAND RED cockerels, pullets and two-year-old stock. **SPECIAL OFFER OF WINTER LAYERS. PULLETS** at \$1.25 each for six or more.

1-12 **M. de W Mudge Prop.**

**BLACK AND WHITE MINORCAS EXCLUSIVELY.**

Largest Yards in the South.

**Eleven Birds Out of Twenty, Richmond Va., Nov. 1903**

**BLOOD WILL TELL.**

For sale 50 Cocks, Cockerels, Hens and Pullets Eggs \$2 and \$3 per 13. Orders booked for eggs now if cash accompanies order.

**C. H. STAUNTON, Barton Heights, Va.,** successor to J. Norman Bowen. Buy of an exclusive breeder of one breed. He studies the variety and produces good stock,

**CHEAP, GOOD, YOUNG AND OLD STOCK**  
Young fowls, \$1 to \$3; good trios, \$5. Br. Leghorns, W. Leghorns, Bar. and W. Rocks, Bl. Minorca, W. Wyandottes, Pit Games and M. B. Turkeys. Circular, Fowls and Buildings, free.  
E. W. GEER, Box 104, Farmington, Mo.

**BOURBON RED TURKEYS,**  
White winged Buff; four separate flocks; large, home loving; good layers. You know them; they know you. Sell your grasshoppers, \$2.50 to \$3.50.

**MAMMOTH PEKIN DUCKS,**  
Winners in two states (Rankin strain). Water range. Strong and lusty. Best I ever had. Half price now. (Mention Poultry Keeper.)  
**GLENN B. ARNOLD, Elkhart, Ind.**

Send Four Cents Postage for Catalogue to  
**A. W. KOENIG**  
NELSON BUILDING  
No. 19 Park Place Dept P  
New York.  
**POULTRY CUTS**

**Our New Incubator**

Has Tripple Walls; Double Dead Air Space; Double Doors; Uniform Temperature; Runs the best; hatches the Best Need an Incubator? Drop us a card and please mention Poultry Keeper.

Booster State Incubator Co, Amo, Indiana

**PITTMAN'S MODEL POULTRY APPARATUS.**

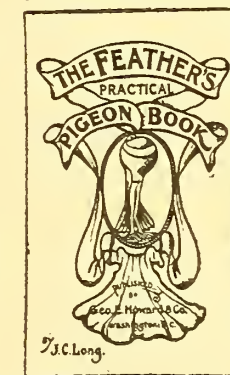
Is the best poultry house furniture in the world. Leading poultrymen are equipping their plants with it.

**DUSTON'S WHITE WYANDOTTES LEAD ALL OTHERS.**

I have them for sale hatched from eggs from his best prize winners, from \$1.00 up. Circular free if you mention Poultry Keeper.

**C. PITTMAN, Dept. B., Santee Nebr.**

**THE PRACTICAL PIGEON BOOK.**



Latest and best work on Pigeon Culture—all branches. Heavy calendared paper with over fifty new halftones and etchings. Heavy cover in colors. Chapters on breeding and raising all kinds of pigeons. Text book of the country for pigeon raisers. Price, 50c, or for 75c we will send book and years subscription to the Poultry Keeper.

Address,  
**POULTRY KEEPER PUBLISHING CO.**  
Quincy Illinois.



# THE CHAMPION INCUBATOR.

## A New Light on the Poultry Raiser's Horizon That Leads to Success.

The Champion Incubator is the embodiment of all the incubator goodness gained in an experience that extends over a period of thirteen years devoted to the manufacture of artificial poultry appliances. During this period we have devoted much time and thought to the subject of artificial hatching of eggs with the firm determination never to place an incubator on the market until we could do so with the perfect knowledge that

**WE HAD PERFECTED ONE WHICH WOULD BE ABSOLUTELY THE BEST.**

We were also determined to do our own experimenting, not desiring our customers to do this for us as many market an incomplete or unsuccessful machine. We firmly believe that in **THE CHAMPION INCUBATOR** we have the most perfect and successful non-moisture, self-regulating hatcher ever offered to the public. With the advent of the **CHAMPION INCUBATOR**, we have opened a field of new opportunities in which failure will be almost impossible for the poultry raiser. We have designed **THE CHAMPION INCUBATOR** purposely to relieve the over taxed operators of many of the arduous duties imposed upon him by the common incubators. **THE CHAMPION INCUBATOR** is simple, perfect and successful, containing many improvements not found in others. It requires no added moisture, it has its own moisture producing chamber, a feature unknown to other makes. It is self regulating, safe and reliable. Our catalog will tell you more about this new triumph in the art of incubator manufacture. It is free for the asking.

## The Champion Brooder's Record is Still One of Glorious Successes.

Simply because it will do all we claim for it and in the hands of our customers it has performed much more than our claims. During the season of 1903 we have sold and shipped over 100 carloads of Champion Brooders which were distributed in every country under the sun. This enormous growth is the result of the universal satisfaction our Champion Brooder gives to every one everywhere. In the confidence and the trust of the poultry raisers of the world, it outranks all others. **IT** has no worthy rival at any price. They know it never fails to raise its flocks of chicks whether out doors or indoors, winter or summer. The weather, the climate or the location do not effect its good and steady work, it's built that way. One of them will bring success to any poultry raiser and instill confidence in the wavering breeder who has met with distressing experiences raising chickens in other ways. Why not get our large catalogue before you buy, it will tell you all about

The largest and best made brooder sold at our price.

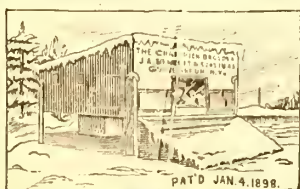
The safest from fire and failure, discouragement and losses.

The only one with a safety chamber, our safety valve, which prevents leg weakness, bowel disease, drooping wings, and all the ailments of chickenhood.

The only brooder with an **EASY CHICK FEEDER**, which teaches the chicks to eat and drink automatically.

The brooder which uses the least oil, that wears the longest, that gives perfect satisfaction and that cannot fail.

Send for our catalogue, it will tell you many other things, too, that are good for you to know about brooders before you buy. We are the largest manufacturers in the world.

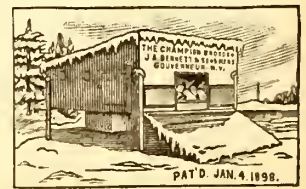


# J. A. BENNETT & SON,

GOUVERNEUR, N. Y.,

U. S. A.

Mention P. K.





**GET EGGS IN WINTER.**

To every one who sends us 50c for a year's subscription to Poultry Keeper we will send without charge a copy of our new booklet telling how to feed for winter egg production. The request for booklet must accompany order for subscription. Send today.

Don't preach about your honesty—and the trickery of everybody else. Don't try to stuff people's minds with the idea that every advertiser is trying to "do" them, except you; that advertising generally is a lie and a fake and that you are the only exception. I wouldn't trust a man who preaches about his exceptional honesty, as far as I could throw him.—American Advertiser.

Take good care of the poultry droppings this winter. You will need them in your garden next season. Use dry earth or ground plaster on the droppings boards, to absorb moisture and mix with the manure when put into the barrels or bin for keeping. Clean the boards at least twice a week so that the house will always be sweet when you enter it in the morning. Hen manure is great stuff for a vegetable garden, as well as fine for broad-casting on grass land.

Many a poultryman is buying a trio or pen of birds this fall, of his favorite variety, hoping to get better stock than he has raised this season. It is usually better to buy a female with the new male that you may be sure to have some chicks of the same strain. The introducing of a new male to a flock sometimes stirs up the blood so as to produce chicks inferior to either side of the mating. By mating the second year the male to the young females, and the best cockerel to the hen, you will overcome much of the defects of the first season's work.

We are sorry there is to be no Boston show. New England has been proud of this exhibition in the past few years, and will miss it this winter. The giving up of the Boston show for this one time will prove a help to the smaller shows of the winter. Already breeders are planning to show at Providence and Milford, and the later shows will have full coops and a large attendance of poultrymen.

The practical poultrymen are looking to the shows more and more each year for fresh blood. They may not buy any birds there shown, but they make up their minds just who they will buy the new blood of for next year's work. The birds of most good fanciers are strong, healthy specimens of the breed they carry and are far superior to the usual farm flock. The fancier who has been keeping the practical side of his birds full in mind is now reaping the reward that is due him. The large egg farms are using thoroughbred birds—breeding them for good looks as well as for egg yield. The day of the cross-bred fowl is gone and we have lost nothing by its passing.

Patronize Poultry Keeper advertisers—you can depend on every one of them. We do not accept ads from unreliable manufacturers or breeders. Don't forget to say "Saw your ad in Poultry Keeper." This helps us all.

**IDEAL ALUMINUM LEG BANDS**



Are the acknowledged leaders. Finest and most secure lock. Quickly put on and guaranteed to stay on. Price, postpaid, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c. All supply dealers sell them. Please mention P. K. FRANK MYERS, Mfr., Box 34, Freeport, Ill. Write for B. P. Rock circular and sample band.

**\$3.50 FOR \$1.95**

|                                |        |
|--------------------------------|--------|
| Success with Poultry .....     | \$1.00 |
| Farm Poultry .....             | 1.00   |
| Green's Fruit Grower .....     | .50    |
| Reliable Poultry Journal ..... | .50    |
| Poultry Keeper .....           | .50    |
| All.....                       | \$1.95 |

This is one of the best offers ever made to poultry keepers. It gives the cream of the poultry literature and best fruit journal. Address,

**Poultry Keeper Pub. Co.,  
Quincy, Illinois**

**WINSLOW'S  
BARRLED ROCKS**

Are the persistent, prolific laying kind with ice even harring low combs, bay eyes, fine in shape, size and vigor.

**SPECIAL COCKEREL SALE,**

**\$3.00 each and up.**

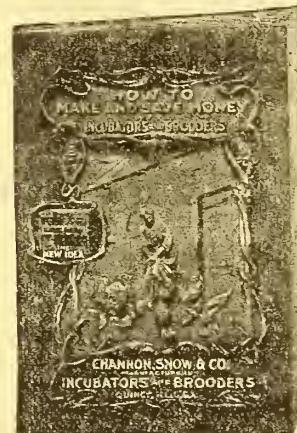
Pullets \$1 each and up. Trios \$5 and up.  
Pairs \$4 each and up. Pens \$7 and up.

Satisfaction or no sale. Write wants.

**A. P. WINSLOW,  
FREEPORT, MAINE, BOX 1234.**

**IT IS FREE**

**Our New 1904 Poultry Book.**



Simply send us your name and address and ask us to mail you our new 1904 book and we will forward it by return mail, postpaid. It is a work of art, printed on enameled paper, highly illustrated throughout, with half-tone engravings, filled from cover to cover with valuable information on incubators and brooders, how to manage new incubators and brooders, the use and abuse of incubators, care of incubator-hatched chicks, how to start right, etc. worth its weight in gold to every poultryman. Should be in the hands of every one contemplating buying an incubator. Will save you many dollars. Remember it is free. All that we ask is that you enclose a 2c stamp for postage. Don't wait; write to-day. Address,

**CHANNON, SNOW & CO.,  
Box "D," QUINCY, ILL.**

**BREEDERS' CARDS**

**TOO LATE TO CLASSIFY.**

**POULTRY PUBLICATIONS.**

Poultry News, 25 cents yearly, illustrated, instructive, interesting. Has special departments on Pigeons, Bees, Turkeys, Water Fowl, Hares, Pet Stock, Farm and Home. Sample free. Ad. rate 70 cents an inch. Circulation over 7,500 copies monthly, New Brunswick, New Jersey. 9-x

**BARRLED ROCKS.** Pure Ringlet strain. Old and young stock for sale. Eggs in season. Four cock birds at a bargain, last season's breeders. Guarantee to satisfy you in price and quality. E. Filtzsimmons, Jacksonville, Illinois. 12-4

**WHEAT—10,000 BUSHELS SCORCHED** wheat (dry) 35 cents per bushel. Remit for sample order. Cash Feed Co., 229 S. Howard St., Baltimore, Maryland. 12-1

**125 HOMER PIGEONS** for sale at \$3 per dozen. First class stock. Reason for selling, other business. J. B. Greene, Mazomanie, Wis. 12-2

**SECOND HAND** Incubators and Brooders of standard makes bought and sold. Circulars and catalogues free. C. A. Porter, Flatrock, Ind., Shelby Co. 12-5

**CLOSING OUT SALE** of Prize Winning Single Comb Buff Orpingtons and Partridge Cochins. Entire stock. Also one new brooder. M. F. Stellwagen & Son, Minneapolis, Minn. 12-1

**PARTRIDGE WYANDOTTES.** Silver cup winners. Stock for sale. M. F. Stellwagen & Son, Minneapolis, Minn. 12-1

**ROSE COMB WHITE LEGHORN** cockerels at \$1 each. Won 1st and 2nd Cockerel at the Johnstown Inter-State Fair. Will exchange a No. 11 Dandy Bone Cutter, only used twice, for 8 yearling White Wyandotte hens. Phil. Deitsch, Roxbury, Johnstown, Pa. 12-1

**FOR SALE CHEAP.** One 210 egg size Prairie State Incubator, style A. Been used one season. Good as new. Edward Kipp, Red Hook, N. Y. 12-1

**CHOICE S. C. BUFF** Leghorn cockerels for sale cheap. Mrs. George Mattern, Franklin Grove, Ill. 12-1

**FEW BARRLED ROCK** Show birds for sale. N. S. Eaber, Paris, Ill. 12-1

**WANTED,** common pigeons any quantity. 25 to 30c pair; 1000 genuine Homers, 50c pair; 5000 guinea fowls, half pound each (and over), 55c pair; live rabbits, 40 to 60c pair. Prompt returns. No commission. L. Gilbert, 1123 Palmer St., Philadelphia, Pa. 12-1

**FOR SALE.** A number of extra fine large Barred Rock cockerels. Good strain, \$1, \$2, \$3 each. G. W. Oswalt, Londonville, Ohio. 12-1

**SINGLE COMB BUFF ORPINGTONS,** single comb Buff Leghorns and Pekin Ducks. Indiana State Fair 1903, won 1st cock; 1st and 2nd hen; 1st pen; 3rd pullet. Write for circular. J. B. Middleton, Franklin, Ind. 12-4

**TWENTY FINE LANGSHAN** cockerels; fifteen Buff Orpington cockerels. For sale \$1.50 to \$3.00. John Cole, M. D., Williamsfield, Ill. 12-3

**FOR SALE,** extra choice lot of Mammoth Bronze Turkeys, Barred Rocks, White Wyandotte cockerels, Mammoth Pekin Ducks. Show birds our specialty. Special inducements to early buyers. Mrs. H. R. Miller, Fulton, Mo. 12-1

**FOR SALE,** 50 High class Brown Leghorn cockerels. Extra good bird, \$2 to \$5 each. A bargain. Speak quick. I can spare a limited number of extra good pullets and hens, breeders, at a bargain. Warren S. Fishel, Hope, Ind. 12-1

**WHITE ROCK** cockerels for sale. Fishel strain. Write me at once. E. A. Beardsley, Council Bluffs, Iowa. 12-2

**ROSE COMB BLACK MINORCA** cockerels at reasonable prices. Pure bred and very fine. H. Willis Dickerson, R. F. D. No. 4, Cadiz, Ohio. 12-4

**BUFF ORPINGTONS** (Cook's direct); Rocks (Burdick's); White Rocks (Hawkins); stock scoring 90 to 95, \$1.50 to \$5. Choice Toulouse Geese \$6 per trio. C. L. McFerren, Belleville, Ohio. 12-3

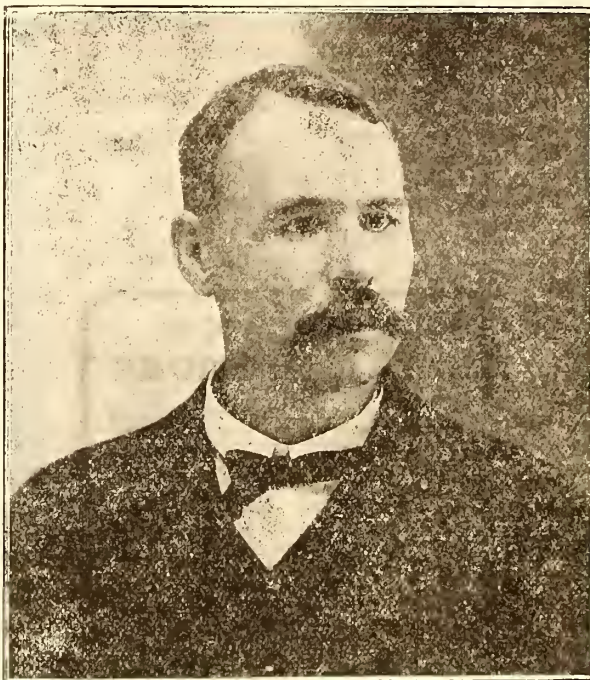


# FISHEL'S

# WHITE WYANDOTTES

## THE WORLD'S BEST!

Our White Wyandottes made the Greatest Show Record this Season of any White Wyandottes in the West.



They won all Firsts and Seconds and many Thirds at all Leading Shows of count.

Great A. P. A. Show at Indianapolis: First Cock, First Hen, First and Third Cockerels, First, Second, Third Pullets, Pen.

Big St. Louis (Mo.) Show: First and Second Cockerels, First and Second Pullets, Second Cock, Second Hen, First and Second Pens.

San Antonio, Texas: First and Second Cocks, First Third Pullets, First Pen.

NOTE ABOVE WINNINGS, ONE RIGHT AFTER ANOTHER—DOES IT NOT PROVE OUR CLAIM TO

**THE WORLD'S BEST.**

→We Raised More Than 2,000 Pure White Wyandottes←

So you see we have more to select from, therefore we can please most any customer better than the breeder who raises but a few birds.

## We Have Both Quality and Quantity.

We are in a position to fill your orders. Prices on exhibition birds, with full description, will be gladly quoted on application.

**WE HAVE A LARGE NUMBER OF FIRST-CLASS BREEDERS FROM \$3.00 TO \$5.00 EACH.**

Every bird is selected and cooped by me so that I know just what I have described. Every effort is made to meet exact requirements of every customer. I can please you.

REMEMBER—We are headquarters for Stay White Wyandottes. Send for catalogue and prices.

# J. C. FISHEL & SON,

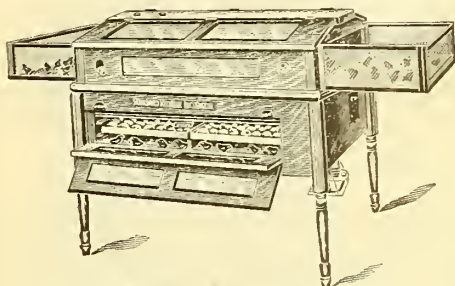
Box K, Hope, Indiana.



# MONEY MAKING MACHINES FOR POULTRYMEN

RELIABLE INCUBATOR AND BROODER COMPANY

A man cannot get rich raising corn if he drops it by hand, covers it with a hoe, scratches the middle of the row with a one horse cultivator and finishes the work of cultivation with the hoe. One can raise good corn in this old fashioned way, but there was



The Standard Reliable Incubator.

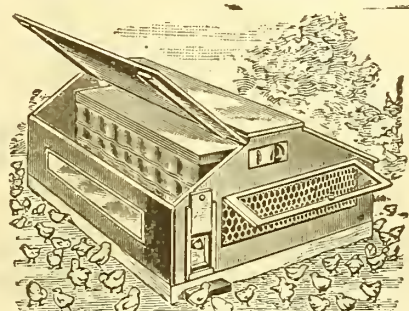
no money in it. We could make good butter in the old up-and-down churn, but there was no money in it. The people who are making money in this progressive age are those who have the foresight to use the most improved facilities. The people who fail are those who neglect their opportunities. Success in any branch of agriculture depends upon the effort that one makes to utilize modern machinery and methods.

The hen is a good hatching machine, but very slow and unprofitable. Few people who depend upon the hen for hatching are able to make a commercial success of poultry. It is like making butter in the old up-and-down churn. One hen shows a good profit on the cost of her keep, but it is impracticable to set enough hens to produce a really profitable number of broilers or chickens for market—just as the old up-and-down churn used is too slow for a large, profitable herd of well fed cows. A girl or woman on the farm can make “pin money” by setting hens but not the real money that pays for a farm and builds up a fortune.

Incubators and brooders are the poultryman's labor saving machines. They enable him to do business on a large enough scale to make money. With incubators and brooders one can make a business of poultry and get rich at it. If we merely keep poultry as a “side line” on a farm we could make two or three times as much money out of the same trouble and care if we use labor-saving improvements, and almost before we realize it, the “side line” will bring in more money than the rest of the farm. With a good machine one can

make good hatches and make money. The Reliable machines, made by the Reliable Incubator and Brooder Co., of Quincy, Ill., are in extensive use to the profit of their owners. The Reliable people are among the pioneers in the business and they have styles and sizes to suit the wants of every branch of the business.

There are good points about Reliable machines that we do not appreciate until we consider their advantages. The double heating system of the Reliable is not only an economical feature, but it makes the regulation more sensitive, so that a uniform temperature is preserved in the egg chamber. One has to study this carefully to understand it, as it cannot be explained in words. It is a strong feature of the Reliable. The fact that Reliable machines are perfectly safe, that there is no risk of their setting the house on fire, something that has never happened with a Reliable—is a point that is not to be overlooked. The Reliable regula-



The Reliable Outdoor Brooder.

tor has earned so high a reputation that thousands of them have been sold for attachment to other machines. The question of moisture and ventilation, so important in good hatching, has been handled in a way that has contributed much to the wonderful hatching records of the Reliable.

The Reliable people are among the oldest and largest manufacturers of incubators, and they were engaged in the poultry business long before they began making incubators. Every step in the improvement of their machines has been determined by practical experience. As a result of this policy their customers all over the world get good results and make money with Reliable machines. It is all in the heating and regulating and the even temperature in the egg chamber and the ventilation and the Reliable plan, making it easy for Reliable customers to make good hatches.

Any one who wants to make money out of poultry will be interested in the Reliable catalogue. The plain, business-like, straight-forward story that is told in it is not ordinary advertising, and the book contains a lot of valuable information.

There is some good common sense talk on brooders in this catalogue. It

is very difficult to raise early chicks when they are brooded by hens but this task is easy with a good brooder. It is more satisfactory in later hatches to use brooders than to depend upon hens. The hen cannot keep the chicks covered all the time to keep them warm in cold or chilly weather, and she is inclined to be notional and neglect her brood at times and chill them. A chick that gets chilled has a poor chance to grow up, and success in raising large numbers profitably depends to a great extent on protecting them against variations in temperature.

Reliable Brooders are built on the top heat principle. Years ago the company made machines of the bottom heat type, but found them to be undesirable. A strong point in Reliable brooders is that the hovers are open on three sides so that there are no corners for the chicks to crowd into. The chicks can pass in and out on three sides, so that if they should get to crowding they would simply crowd some of the chicks through the curtain and they can come back in again on another side, instead of being smothered in a corner.

It is usually about fifteen degrees warmer under the hover than in the outside space, so that the chicks can come and go from the warm hover to the cooler chamber at their will, and when the outside temperature will permit, they can run outdoors, coming in again whenever they want to get warm. Reliable Brooders are so simple in construction that they are easy to keep clean, a very important advantage. They are strong, warm and durable, made of high grade materials, and will last for years. The lamps and fittings are well made so that they give a steady heat with the greatest economy in oil.

The Reliable Co. are liberal in their dealings and they have built up their business by taking pains to give the customer his money's worth.



The Factory of the Reliable Incubator & Brooder Co., Quincy, Illinois.

Their catalogue is a useful book of information on poultry, and they are always glad to correspond with their customers who want information. The Reliable business has become, in a sense, a kind of business college in which people learn the poultry business and make money by following Reliable methods. For full information address Reliable Inc. and Brooder Co., Box A 15, Quincy, Ill.



**A SUCCESSFUL INCUBATOR MAN.**

Mr. A. F. Cooper has received more than ordinary honors or common success. He is best known as an incubator man first and foremost. He is president of the Prairie State Incubator Co., Homer City, Pa., one of the largest incubator concerns of the country. Mr. Cooper's start was made on ability and not big capital, hence it is interesting to note what brought about his success. In company with his partner, Mr. J. L. Nix, an exhibit was made of the Prairie State Incubator at the Fat Stock Show, Chicago, 1887, which resulted in cash prizes of \$150. This was the cash which started the business and it was energy, close application to business requirement, and a knowledge of the poultry business that made the business a success.

Mr. Cooper's foundation experience was gained at Homer City in charge of the Homer City Poultry Farm, where he worked for two years. He began his incubator work in 1889, and became manager of his present business in 1892. In addition to being president of the Prairie State Incubator Co., Mr. Cooper holds a number of very important positions in state and national affairs, being a member of the Pennsylvania legislature.

While abroad this summer Mr. Cooper established business relations in new fields and brought back many orders. A special feature of the Prairie State Incubator Co.'s management is the handsome poultry book and catalogue that is for free distribution. A request (naming P. K. when writing) will secure without charge a copy of this book.

**AMERICAN WHITE WYANDOTTE CLUB.**

The third annual meeting of the American White Wyandotte Club will be held in Madison Square Garden, Thursday, Jan. 7th, 1904, at 4 p. m., during the New York show. Our membership is not large, but is composed of a splendid lot of fanciers, who will be glad to welcome you to our club, and have you compete at New York

for our club specials that are open to members only.

Our annual dues of \$5 tend to hold our membership down, but enable us to offer generous cash specials, at our club meetings, while our souvenir medals are the handsomest given by any club. Join us, and compete for the following cash and ribbon specials at what promises to be the best show ever held on this continent.

Best cock, hen, cockerel, pullet and pen. \$15 first, \$10 second. Best cock, \$5 first, \$2 second. Best hen \$5 first, \$2 second. Best cockerel, \$5 first, \$2 second. Best pullet, \$5 first, \$2 second. Best pen, \$5 first, \$2 second. Souvenir ribbons for whitest male, whitest female, best shaped male, best shaped female, champion male, champion female.


Application blanks and full particulars will be mailed if you apply to M. F. Delano, Secretary, Millville, N. J.

**EGGS 50 CENTS A DOZEN.**

Many persons who keep hens will not have an egg to sell when they reach 50 cents; "what can a body do when the pesky old hens stop laying, and the pullets refuse to begin until spring?" Why do as Wm. H. Yeomans, of Columbia, Conn. He says;—"Last fall I made an experiment worth giving our readers. Until about Dec. 1st, I was getting from twenty common hens, only one or two eggs a day. I determined to try Sheridan's Condition Powder. I confess I had but little faith in its value to make hens lay, for nine days saw very little effect. Then the hens began laying, and in three months laid eight hundred and fifty eggs."

I. S. Johnson & Co., Boston, Mass., will send further particulars to any one free.

**POCKET  
ATLAS  
OF  
THE WORLD**



**RAND, McNALLY & CO. CHICAGO  
NEW YORK**

**Rand, McNally's  
Latest Pocket Atlas  
OF THE WORLD.**

Contains latest census of every town in U. S. Over 400 pages of handsome maps, statistics, populations and descriptions. Neat, handy, compact and presents clear views on every day news. Just what you want to know in just the right shape. In office, home or when traveling it is valuable. Price 50c. A full year's subscription to Poultry Keeper and Atlas sent postpaid for 65c. **POULTRY KEEPER PUBLISHING CO., - - QUINCY, ILL.**

# Chas. A. Cyphers




*New*  
**Incubator Company**

Last month's announcement that I had started a new company for the manufacture of my improved incubators and brooders resulted in a shower of commendatory expressions from friends all over the United States. It is very gratifying to note the deep interest and friendly feeling toward my new business. I beg to assure all interested that my new incubators and brooders will satisfy the most critical. They will be known as

**Chas. A. Cyphers' Model  
Incubators and Brooders**

Herewith is a photograph of my new factory building which contains forty thousand square feet of floor space, and will give some idea of my equipment. The wheels are now turning and my improved machines will be ready for delivery December 1st. Send in your name for both my advance circular and my catalog. Preliminary circular ready now. Catalog will be ready about January 10th. They will interest you. Both are free.

**Chas. A. Cyphers Company**  
39-47 Henry St., Buffalo, N. Y.





**GEO. H. LEE CO.'S POULTRY & STOCK SUPPLIES.**

When the manufacturer in any line of goods meets with the success made by George H. Lee it can be safe to put it down as a fact that he wins on the merit of the goods. The Lee



MR GEO. H. LEE, OMAHA, NEBR.

products include a general line of poultry and stock growers' supplies and each one is a standard in its line. There are, Lee's Egg Maker, Lee's Lice Killer, Lee's Hog Remedy, Lee's Best Conditioner, Lee's Carbohc Dip, Lee's Germozone (for roup and cholera), Lee's Insect Powder, Lee's Chick Food, and other high grade stock foods and remedies.

This business is conducted under the name of Geo. H. Lee Co., but it is owned and managed solely by Mr. Lee. The business was started in the spring of 1896 at Exeter, Nebraska, where Mr. Lee was at that time engaged in local business and in the breeding of fine poultry. He found after considerable experience in raising poultry, that many antiquated methods were in use relating to the handling of poultry that could be easier and better done in other ways.

The first thing that was particularly noticed was the method in vogue of ridding fowls of insect pests, mites



New factory built and owned by the Geo. H. Lee Co., Omaha, Nebr. Size, 44x130 feet, full three stories and basement. Walls are heavily built so more stories can be added when needed.

and lice. After a season of careful study and investigation there was produced what afterwards became known as Lee's Lice Killer, and it was so successful in Mr. Lee's own poultry yards, and with other poultrymen in his vicinity, that he decided to put it on the market and offer it on general sale.

Lee's Lice Killer proved immediate-

led to advantage from an interior town. This meant the removal to some convenient shipping point and after careful investigation Omaha was selected as being the best for his purpose, and removal to this place was made in 1898.

Since that time Mr. Lee has been steadily advancing and spreading his products all over the world. There is



View of one side of office, George H. Lee Co., Omaha, Nebr.

ly popular and quickly spread from coast to coast. The general business soon eclipsed the local business and outside trade became so heavy that it was found that it could not be hand-

at present not a state in the Union, nor a civilized country in the world, where the Lee goods have not been sold. They are represented by local dealers in all parts of the United



**THE POULTRY KEEPER.**

States, having six hundred local agents in Iowa, four hundred in Nebraska and a decreasing number in every state in the Union. There are approximately 15,000 dealers in the United States who handle the Lee products.

Since moving to Omaha the Geo. H. Lee Co. have been gradually enlarging their plant, until they now occupy their own building located in the heart of the wholesale district of Omaha. This building (see view herewith) is 44x130 feet in size, three stories and basement. It is elaborately fitted for the conduct of their business, being especially designed for the manufacture of the Lee products. The office has every modern facility for handling the large correspondence and

business is quickly transacted.

There is a bright future in things relating to poultry and stock. There is a steadily increasing interest in poultry and stock of all kinds and anything that can be devised which will add to the comfort of fowls and animals, or to the profit of the owner, will meet with ready and increasing sale. This is the reason for the growth of the Lee goods—they were put on the market at a time when they were needed and they have come into general use by those who have given them a test.

Poultry Keeper readers will be especially interested in Mr. Lee's new poultry book, "A Thousand Dollar Hen"—sent free to those who mention P. K. Send for it.

**EVER GREEN CLOVER.**

The following letter from U. R. Fishel, the great White Plymouth Rock man, of Hope, Ind., shows what value he places on Ever Green Clover:

W. F. Chamberlain, St. Louis, Mo.:

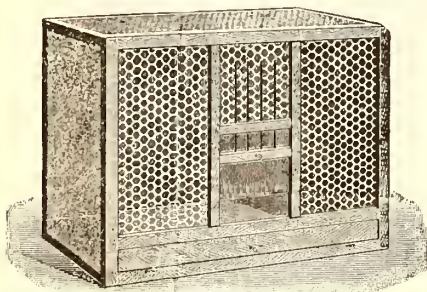
I am in the market for another lot of your Ever Green Clover meal, having used it last winter with excellent results. When steamed, it is as green as fresh cut clover and the odor is the same as fresh mown hay. The birds eat it with a relish.

Really, Mr. Chamberlain, I would rather have one hundred pounds of this Clover than a ton of some so-called Clover (cut clover) I have used. I have fed your Ever Green Clover meal to hogs with excellent results and found it a cheap feed for them during the winter. I could not do without it for my White Plymouth Rocks.

U. R. Fishel.

See back cover for list of Chamberlain goods.

# Reliable Exhibition Coops



Are light, strong, and attractive. Painted a sky color blue with white back-ground, which gives the fowls a beautiful appearance. We keep a large stock of these coops of all sizes in stock, ready for prompt shipment. Sizes and prices are as follows:

|                     |        |                                 |        |
|---------------------|--------|---------------------------------|--------|
| No. 1—18x24x30..... | \$1.75 | No. 4—40x24x30.....             | \$2.50 |
| No. 2—24x24x30..... | 2.00   | No. 5—40x24x30.....             | 3.00   |
| No. 3—30x24x30..... | 2.25   | No. 6—(For Turkeys) 48x35x30... | 3.50   |

No. 5 Exhibition Coop is a double Coop with two doors, with removable partition, making one department 40x24x30 or two departments 20x24x30, and is an all around coop for two pairs, two trios, or a pen. All Coops are regulation sizes. Special prices on large lots. Circulars free.

Address, **Reliable Incubator & Brooder Co.,**  
BOX A-15, QUINCY, ILLINOIS, U. S. A.

# THE IMPROVED ORMAS INCUBATORS AND BROODERS



**Good, Honest, Worthy Machines at**

**Reasonable Prices is Our Motto**

Fully Guaranteed in Every Way.

We have only one grade of Incubators and Brooders, and that is our best. We have only one price, and that is our lowest.

## THE STRONG POINTS

A Solid Brass Regulator; Automatic Ventilation; Double Walls; Automatic Regulation; Double Top and Bottom; Complete Dead Air Space and Thoroughly Packed; Made of California Redwood and furnished in a first-class manner. You can pay more money for Incubators and Brooders, but you can not buy any better than the

## IMPROVED ORMAS

Our catalogue gives full description and prices. It is free if you mention Poultry Keeper.

**L. A. BANTA, LIGONIER, INDIANA**



(Continued from Page 345.)

It is not sheathed on the inside, except in the roosting compartment, which is lined with paper and matched lumber. We wintered Plymouth and Wyandotte fowls successfully in this coop before the roosting compartment was put in. It was however, so cold at night time, in very severe weather, that egg production was practically stopped for a day or two. I would not recommend its use where Leghorns or such birds are to be kept. This house will accommodate from 20 to 25 chickens.

The plan of the closed house in use at this college (see Figs. 7 and 8) is designed to admit of exercising the fowls in the open air, to have a constant supply of fresh air, and a warm roosting pen. Formerly this house was equipped with double doors, walls and windows; it was as tight as a drum, and there was a constant dampness during the winter, owing largely to a lack of fresh air. The substitution of a curtain for the door on the south side will, we are satisfied, admit abundance of air and do away with the dampness. This house will accommodate 40 to 50 fowls.

#### General Rules for Building.

Every hen should be allowed at least six square feet of space in the scratching pen, and about four square feet in the roosting pen. Each bird of the Plymouth Rock, Wyandotte and such breeds requires about nine inches of perch room, Leghorns, etc., about eight inches, and Brahmas ten inches.

Roosts should be made low, or near the

ground. There are several reasons for this. Fowls of the heavier breeds cannot fly high, and those of the lighter breeds frequently injure the soles of their feet in jumping from high perches.

When droppings boards are used they

should be moderately low down, to admit of easy cleaning. Droppings boards should be made of matched lumber, and should be twenty inches wide for one roost, and three feet for two perches, the first being placed eight to ten inches



A cool weather hatch, made by the OLD TRUSTY Incubator. The \$10 special 120 egg machine. Send to M. M. Johnson, the Incubator Man, Clay Center, Nebr., for a "Catalogue what is a catalogue." Free if you name Poultry Keeper.

## ==MILLVILLE COCKERELS==

Fit to head your best breeding pen, now ready.

We have the best lot of birds to spare that we ever selected for our customers. Can give you old or young birds of either sex, fit to win for you, and to breed you winners.

## Millville Buff P. Rocks

Are Champions of America.

MILLVILLE BARRED AND WHITE ROCKS, BUFF AND WHITE WYANDOTTES,  
AND PEKIN DUCKS ARE IN THE CHAMPION CLASS.

Millville Records at New York, Boston, "Pan-American," and other leading shows are ample proof of our claim, and are given in full in our Illustrated Catalogue. It is yours for the asking, and it is worth the trouble of a postal, too.

Millville December Bargains to Make Room: { 200 Hens and early Pullets, \$1.50 and \$2.00 each.  
50 early vigorous Cockerels, \$3.00 each.

A snap for quick buyers. Order from adv. and get first choice Millville Farm guarantees to please you, or will pay return charges, and cheerfully refund your money. Try us.

## Millville Poultry Farm Co.,

M. F. DELANO, President.

Box I, Millville, N. J.



from the wall.

Most poultrymen prefer roosts two inches by two inches, with edges slightly rounded.

Nests.—Many use only old boxes, but such nests, if near the ground, are apt to induce egg-eating. Dark nests prevent this. (Figs. 9 and 10.) Nests are usually made from twelve to fifteen inches square.

Ground floors are more in favor than board floors, and cost much less.

In my own experience, the best results are obtained from keeping twenty to twenty-five birds in a flock. Some succeed with sixty to seventy-five in a flock, but these are the minority.

**THE FARMER'S MISTAKE.**

When the fall egg drouth arrives, the farmer does not cherish that kindly feeling toward his hens that he had when they were laying. Their value at this time appears to lie in their weight rather than in their egg producing possibilities. When picking out hens to kill or to market the best looking ones are too often selected because they will bring the most money.

Yearling hens that had finished their molt by November first and are active and healthy and in good flesh would lay this winter, according to their individual tendencies, if properly housed and cared for.

If any but pullets are to be retained such yearling hens should be the ones. The pullets should not be mixed with them. Such mixing of hens and pullets is one of the most foolish mistakes the farmer makes. It is better to sell off every hen, and pullet too, than to do that, if eggs are wanted in December and January. Pullets and hens should be penned separately.

Those hens that molt late in the fall will not, as a rule, lay an egg before spring. Those are the ones to get rid of. If trap nests are not used, a careful system of watching and separation will gradually show up the layers and they can be kept by themselves. If a lot of hens are separated

from their mates and no eggs are found in their pen it will be clear that they are not laying, and that what eggs are laid are being produced by the others.

When this separation has been made the appetites of the two lots should be compared. Hens that are in full lay and hens that are getting ready to lay are full feeders. If the non-layers eat but little it shows that they are not likely to lay and their value

is in their meat. This separation and culling will take considerable time and attention, without the aid of trap nests, but considerable care along these lines would add much to the average farmer's profits from his poultry.

F. O. Wellcome.

A competent editor always "blue pencils" malice.

**HEALTHY TREES** Free from disease. Honest in quality. Grafted Apples, 5¢; Budded Peaches, 5¢; Budded Cherries, 20¢; good varieties. Concord Grapes, \$3. per 100. 1000 Ash \$1.20. B. and H. Locust, Rus. Mulberry, &c. Low price. We pay freight. Catalog free. Calbraith Nurseries, Box 78 Fairbury, Neb.

**DON'T SET HENS** the same old way while A 200 Egg Natural Hen Incubator Costs But \$3, other sizes equally as low. Over 125,000 in use. Indispensable to anyone who keeps a hen. Our Patents protected against infringements. Agents wanted everywhere, either sex, no experience necessary. Catalogue telling all about and 25c Litter Formula FREE if you write today. NATURAL HEN INCUBATOR CO., B1, Columbus, Nebraska

**If You Want Quality** try eggs or birds from my 23 varieties of land and water fowls. There's nothing better. Eggs by the sitting or hundred. Fertility guaranteed. Write for catalogue to-day. It is free. D. A. MOUNT, BOX 1, JAMESBURG, N. J. The Pine Tree Farm.

**WILSON'S** New Green Bone, Shell and Vegetable Cutter for the Poultryman. Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horsepower. Farm Feed Mills grind fine, fast and easy. Send for circulars. WILSON BROS., Sole Mfgs., Easton, Pa.



**INCUBATOR OR HEN?**

The advantages gained by the use of an incubator may be epitomized as follows:

Ten times more eggs can be hatched by one machine in the same length of time than by one hen; and at the same time require no more attention than the hen.

It is easier and more agreeable to turn the eggs and fill the lamps of an incubator every day than it is to lift a cross and fussy hen from the nest, feed her and watch that she returns to duty at the proper time.

An incubator will not trample on and break the eggs, as is nearly always the case with a sitting hen.

It is a difficult matter to keep lice and mites from attacking and multiplying on the sitting hen, which is, to say the least, a source of great annoyance to the hen. There is no chance for such a state of affairs in an incubator. These little pests won't germinate and grow fat on wood and metal.

The inclination of an incubator to become broody does not have to be consulted, as is the case with her henship. Light the incubator, heat the egg chamber, put in the eggs and the machine is your obedient servant for as long a period as its services are required.

The incubator will not become weak and emaciated from overwork and chicks can thus be hatched out for weeks at a stretch.

There is more pleasure and fewer vexatious trials in operating an incubator than there is in steering to victory an obstinate and vicious hen. Get an incubator.

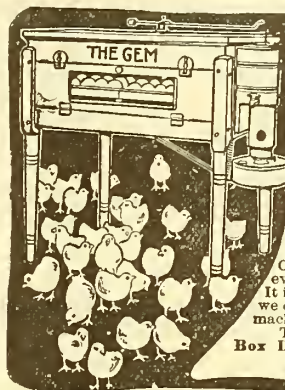
**AN ORPINGTON FANCIER.**

We think the Poultry Keeper hit the nail on the head when it said in its November issue "It is not the breed, but the strain or the flock." While we believe there are other breeds that would suit some better than the S. C. Buff Orpington, we are very partial to this breed. We find them not only good layers, good growers and good eaters, we also find their

feathers as fine as any down. In fact we doubt if the goose yields better feathers than do our fluffy Orpingtons. Of the different breeds we have tried, we find the Orpington to mature the quickest, and with the least mortality. When we first began raising them, we thought some of the other kinds we then had grew faster, but the Orpington was the first to reach full weight. We find them spry, active, healthy and profitable. What

proves strongest in their favor is that more than two-third of the chicks prove to be females. It is a very common thing to have early hatched pullets begin laying at five months. Of all that is good in poultry, the Orpington contains the best. As buff is now the prevailing color in poultrydom, it will be a matter of but a few years until this world-famed fowl is found in every community.

B. M. Russell, Iowa



**Rugged Chicks**  
are chicks that are well hatched—chicks that have been given the proper start. As the twig is bent, so grows the tree. The growth of chicks depends on the hatch more than many imagine and the hatching of course, depends on the hatcher.

**Gem Incubators**

embody every feature toward natural conditions. That's why Gem hatched chicks are certain of sturdy growth and healthy development. They are insured for life by a proper start. If reared in Gem Brooders there is no other risk to run. Our catalog will prove all this by the evidence of those who are using them. It is free. Send for it and see how much we can save you on the cost of a perfect machine.

THE GEM INCUBATOR CO.  
Box D, Dayton, Ohio



Have you ever seen

**Prairie State Incubators and Brooders?**

If not, you have missed a good thing.

Have you ever seen a **PRAIRIE STATE CATALOGUE?**

If not, you have missed another good thing.

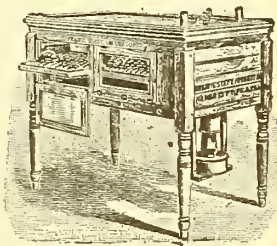
Have you thought about buying an **INCUBATOR AND BROODER?**

If so, get the **PRAIRIE STATE** and you will have the best thing. Sit down and write us at once for new catalogue, which will give you full particulars.

**PRAIRIE STATE INCUBATOR COMPANY.**

Box No. 23. (Always use box number)

Homer City, Pa.



**Rhode Island Reds.**

Grand birds in any number from 214-egg strain. The finest lot of R. I. Reds in the country. Fit to win in any competition for fall and winter shows. R. I. Red Standard free. Smith's Silver Penciled Wyandottes, Cornell strain. Grand exhibition and breeding stock for sale. T. N. SMITH, Attleboro, Mass. 9-5

**CAPONS** are the poultryman's steers and bring him the top prices. Triumph Capon Tools, \$2.50 postpaid. Guide Book for stamp.

Attention (la.) Coponizina Co., - Box 2-D, A'berton, Iowa.

**WHITE AND BARRED P. ROCKS BLACK MINORCAS.**

First prize winners everywhere shown, scoring from 94 to 96½ points.

**Stock and Eggs for Sale.**

We can please you. Be sure to mention Poultry Keeper.

Anthracite Poultry Yards, - Stockton, Pa.

**TRIBBY'S**

**White Wyandottes**

—AND—

**S. G. W. Leghorns.**

Eggs for hatching. Write for prices and please mention Poultry Keeper.

1-12 J. D. TRIBBY, Brookfield, Ohio.

The importance of the farmer's wife in American farm life of today is recognized by two pages being devoted exclusively to her in—

**THE TWENTIETH CENTURY FARMER**

No other farm paper gives so much space to things that interest women on the farm.

Besides these two pages edited by Mrs. Isabel Richey and devoted to the farmer's wife exclusively, there is also the poultry department, likewise edited by a woman. Mrs. Ida M. Shepler, short stories by well known authors, letters of travel by Frank G. Carpenter, the noted newspaper correspondent, as well as a page given over to the delight of the children. These features are in addition to the articles by noted men and the strong departments of particular interest to the farmer himself. Altogether, it is an ideal weekly magazine for the farmer and his family.

Send 25c for 3 months trial, or \$1.00 for a whole year.

Send for booklet and free sample copy.

Address **THE TWENTIETH CENTURY FARMER**, 1743 Farnam St., Omaha, Neb.



**A GOOD INCUBATOR AND PAYING STOCK.**

Editor Poultry Keeper.

This is my second season raising poultry for profit. I began with a fifty egg incubator, but found it was not large enough so I bought a 340 egg size. It is called the Star, is made at Bound Brook, N. J., and can't be beat.

I breed Barred and Buff Rocks and made exhibits at fairs this fall, where my birds won first and second prizes on pens. So I am pretty well pleased with my progress. I have a pullet that was hatched in April. On August 28 she brought off a hatch of fourteen chicks and has twelve of them now—ten pullets and two cockerels. The pullets today (November 2) weigh three and a half pounds each and they are beginning to sing, so I look for them to lay before long. I would like to know if any one can beat this.

We are all interested in how others feed, so I will give my method of feeding young chicks. I give them their first feed of grit, then I give dried bread crumbs and bran for four or five days. Then I give cracked wheat and cracked corn. They grow right along and are not bothered with gapes. I meant to say that I give my chicks a mash seasoned with pepper and salt every two or three days.

This is my first letter, so I don't know whether you will publish it. If you wish I will tell how my house is built and how I feed to make hens lay. I take several other poultry papers but think the Poultry Keeper is the best of all—J. J. Kepler, Pennsylvania.

Clover hay or clover meal contains more than twenty times as much lime (for the shells) as corn, contains more protein than any kind of grain, and nearly as much solid matter as corn, that is, one hundred pounds of clover meal contains fourteen pounds of water and corn ten pounds, hence it is a concentrated food and very nourishing. Pour boiling water over it and it becomes fit for any kind of fowls—geese, ducks and turkeys included. For chicks it is one of the best materials, but never allow por-

tions to remain in the trough after the chicks have eaten, as any food that has been moistened is liable to fermentation.

If properly made a cement floor should be dry, but is usually cold.

It is the best of all floors for a poultry house because rats cannot locate under it. Such floors should always be kept covered with dry dirt, leaves, cut straw, or other material. Do not use sawdust, as the fowls fill their crops with it.

**..THE OAKES HYDRO SAFETY LAMP..**  
COMPOUND THERMOSTATIC BARS.

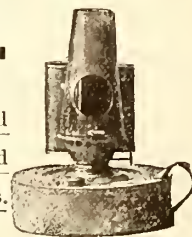
Improved Wafer Regulators, Copper and Brass Boilers and Tanks, Thermometers, Egg Testers and all Incubator and Brooder Supplies, Fixtures and Repairs.



Manufactured by  
**THE OAKES MFG. CO., Bloomington, Ind.**

Box No. 8.

Illustrated Catalog Free.



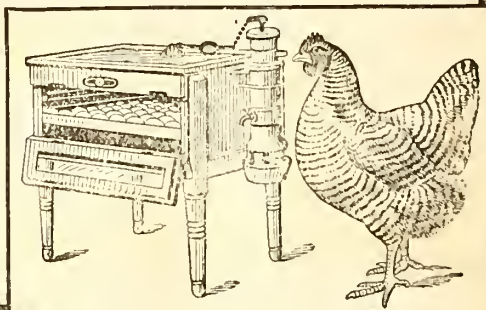
**200-Egg Incubator**  
for **\$12.80**

The simplicity of the Stahl incubators created a demand that forced production to such great proportions it is now possible to offer a first-class 200-egg incubator for **\$12.80**. This new incubator is an enlargement of the famous

**WOODEN HEN**

recognized the most perfect small hatcher. This new incubator is thoroughly well made; is a marvel of simplicity, and so perfect in its working that it hatches every fertile egg. Write for anything you want to know about incubators. Send for the new free illustrated catalog with 14 colored views.

**GEO. H. STAHL,**  
Quincy, Ill.



**Reliable Feed Cookers**

Fill the long-felt want of a good Feed Cooker and Water Heater at a low price. They are, as the name indicates, reliable in every way. Boilers are of best No. 22 galvanized steel. **OUR \$5.00 FEED COOKER** meets the demand for a small cooker at a low price.

- Price, 20 gallon size, burns wood only..... \$ 5.00
- Price, 35 gallon size, burns wood only..... 8.00
- Price, 50 gallon size, burns wood only..... 10.00
- Price, 100 gallon size, burns wood only..... 12.00
- Price, 35 gallon size, burns wood or coal..... 10.00
- Price, 50 gallon size, burns wood or coal..... 12.00
- Price, 100 gallon size, burns wood or coal..... 16.00

Write at once for circulars and don't buy until you see what we have to offer.

**Reliable Incubator & Brooder Co., U. S. A., Box A-15,**  
**QUINCY, ILLINOIS.**



# QUESTIONS & ANSWERS

(In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address, Editor Poultry Keeper, Quincy, Ill. Give name and address in full, and only initials will be used in our answer.—ED.)

### BEEF SCRAPS.

How are beef scraps made and of what are they made? I'm interested in a beef market and can get all the bones, etc., that are needed. Will beef scraps take the place of green ground bone?

G. P. F., Savannah, Ga.

Beef scraps are the crisp substance that remains after trying out tallow. The cakes, when they come from the press, are broken up and ground. Some brands are ground fine, others coarse.

### FEEDING QUESTIONS—INDIAN GAMES.

- 1.—How do rolled barley and oats compare with wheat as egg producing food?
- 2.—Do you think that the Indian Games would be a good fowl for an all round purpose on the ranch? What would be your choice?
- 3.—Would raw potatoes be of any benefit as green food in winter?
- 4.—Grit being scarce about my farm I gathered up the broken dishes and pounded them up with a hammer for the fowls. In a few days I lost a healthy hen, and in a few more days another one died. The chickens ate the broken dishes up greedily. I examined the fowls and the second one had hard kernels in her entrails and the lining of the gizzard was cut in several places.

P. K. K., Belma, Wash.

1.—Barley and wheat both contain about the same amount of protein, as shown by analysis, but the protein of barley is of low digestibility and it is therefore less desirable. Oats are better egg producers, pound for pound, than wheat. The digestible food ingredients of the three grains



## Build Your Own Incubator

There is both fascination and profit in it. Any man or boy can do this easily with common tools and

### Save More Than Half.

**How?** Get our complete Book of Plans for building *New Idea Incubators and Brooders*. We will then sell you at cost all fixtures like Tanks, Lamps, Regulators, Trays, Legs, etc. Big money in building and selling Incubators.

**No Experiment.** Success of our method proved by thousands of satisfied customers. No high-priced factory-made machine makes better hatches than the *New Idea*. Send for "How to Make and Save Money with Incubators," our new handsome Poultry Book and Catalogue. It is giving old line makers something to think about. Write to-day. It is free.

**CHANNON, SNOW & CO., Dept. D, QUINCY, ILL.**  
All Poultry Supplies at Cut Prices.

## Simply Send a Postal

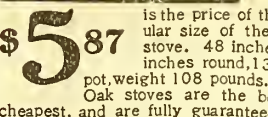
and ask us to mail you our new illustrated stove catalogue, and we will forward postpaid our complete catalogue of stoves and ranges, which illustrates and describes everything in the stove line for cooking and heating worthy of your consideration—all at prices decidedly low. We sell only the best grades, avoiding the very cheapest. If you want an honestly made stove you cannot afford to place your order until you have seen our stove catalogue. A postal card will bring it.

\$4.00  
as here illustrated.



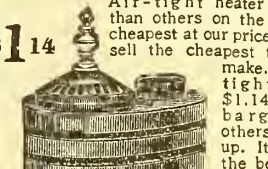
\$3.20 is our price for a good stove with a 9 3/4 inch firepot. It is a much better stove than some firms sell at a higher price, but if you want the best send for our stove catalogue and read about our famous Home Oak stoves. The illustration shows our well known Home Oak stove, a very powerful heater made of No. 18 gauge cold rolled steel and finished with artistic nickel plated trimmings. It is 43 inches high, 9 3/4 inches round and weighs 63 pounds. \$4.53 buys larger size weighing 75 lbs.

\$5.87



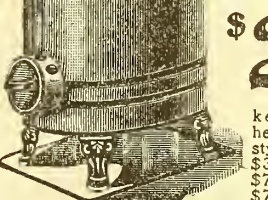
is the price of the most popular size of the Home Oak stove. 48 inches high, 13 3/4 inches round, 13 3/4 inch firepot, weight 108 pounds. The Home Oak stoves are the best, not the cheapest, and are fully guaranteed.

\$1.14



Air-tight heater made better than others on the market and cheapest at our price. We do not sell the cheapest that we can make. This air-tight heater at \$1.14 is a better bargain than others at 95 cents up. It pays to buy the best.

\$2.88



for an honestly made kerosene oil heater. Other styles, \$3.35, \$3.68, \$4.80, \$7.00 and \$7.35.

Don't waste your money by purchasing a cheap stove. Get an honestly made one even if it does cost a trifle more. Our stoves are all honestly made and sold at remarkably low prices. Our free stove catalogue describes our handsome base burners, also a score of other styles—all good, all low priced. You cannot afford to buy until you have heard from us. Simply write a postal card and ask for stove catalogue. We will send it promptly. Address

**MONTGOMERY WARD & CO.**  
Michigan Avenue, Madison & Washington Streets  
**CHICAGO**

# Success

with

# Poultry

Contains **MORE** and **BETTER** Practical, Reliable Information on the general subject of

## POULTRY FOR PROFIT

Than any other book published. It treats of every branch of

## Practical Money Making Poultry

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains **118 Pages** (9x12 inches in size) and **Cover and is The Best Poultry Book Yet Published.** Contents (briefly stated) are as follows.

- How To Get Started.**
- Leading Standard Breeds.**
- Characteristics of Breeds.**
- Practical Poultry Houses (Plans).**
- Fowls; Care and Feeding.**
- Model Brooding Houses (Plans).**
- Care of Adult Fowls.**
- Feeding for Eggs.**
- A Hen Catechism.**
- Feeding Young Chickens.**
- Care of Young Stock.**
- Artificial Incubation.**
- Incubator Cellars.**
- Broilers and Broiler Raising.**
- Care of Brooder Chicks.**
- Pekin Ducks For Profit.**
- 5000 Ducks on Two Acres.**
- Starting with Standard-bred Poultry**
- Profitable Egg Farming.**
- Turkeys; Care and Management.**
- Capons and Caponizing.**
- Poultry and Fruit Combined.**
- Diseases of Poultry.**

The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

**POULTRY KEEPER PUB. CO.,**  
**QUINCY, ILL.**



are: Wheat, 1:7.1; oats, 1:6.2; barley, 1:7.9.

2.—They are not so easily raised as the Plymouth Rocks or Wyandottes nor as good layers, but as a table fowl they are most excellent. For an all purpose fowl we should choose the Plymouth Rock or Wyandotte, the variety to suit fancy.

3.—Raw potatoes cut fine in a root cutter make excellent green food.

4.—The writer has fed broken crockery and glass to fowls for twenty years and has never known a death to result from it. The hard lumps on the intestines would indicate a disease of the digestive organs of longer standing, probably commencing with indigestion. Still, foreign bodies lodged in the gizzard or other point in the digestive tract may remain stationary causing serious inflammation and possible death.

**TURKEY QUESTIONS.**

1.—Please answer in the next Poultry Keeper how big a yard I need for two hundred turkeys, and is it good to seed it in oats, wheat and clover?

2.—How many turkey toms do I need for fifteen hens?

3.—In fattening turkeys by cramming machine will they fatten quicker than if they were not fattened by cramming?

4.—When chickens are fattened by cramming should they be given any corn, wheat or oats?

A. C., Cambridge, Minn.

1.—You cannot keep turkeys confined in a yard. They might be content in a park of thirty of forty acres.

2.—Two.

3.—Yes, but the cramming machine is not much used for this purpose.

4.—No.

**GETTING RID OF LICE.**

What do you consider the quickest and best method of getting rid of lice, both on the hens and in the house?

E. A. E., Keen, N. H.

Whitewash thoroughly, putting half an ounce of carbolic acid and a pound of flour of sulphur in each bucketful

of wash. Paint the roosts with liquid lice killer and dust the hens thoroughly with a good lice powder. If the work is well done the lice will be exterminated.

**CHICKENPOX.**

Please publish in the Poultry Keeper the cause and what to do for this disease among chickens. It seems to start on the top of the head with big lumps and then spreads until it gets over the whole side of their face and back of their ears and

**One Hen  
One Day  
One Mill**

It costs a mill a day—one cent every ten days—to make a hen a lively layer when eggs are high, with SHERIDAN'S CONDITION POWDER. Calculate the profit. It helps young pullets to laying maturity; makes the plumage glossy; makes combs bright red.

**Sheridan's  
CONDITION  
Powder**

fed to fowls once daily, in a hot mash, will make all their feed doubly effective and make the flock doubly profitable. If you can't buy it we send one pack, 25 eta., five, \$1. A two pound can, \$1.20. Sample poultry paper free. I. S. JOHNSON & CO., BOSTON, MASS.

Many successful poultry raisers have learned by experience that the cause of a very bountiful supply of eggs in the fall and winter, when prices rule high, is proper care, feeding, and management, which they have learned by experience includes the use in the mash food, once daily, SHERIDAN'S CONDITION POWDER. It helps to mature young pullets so they will lay when five or six months old.

**They Succeed  
Best**

In keeping poultry for profit, who study cause and effect carefully.

No matter what kind of foods you use, SHERIDAN'S POWDER is absolutely necessary to cause the desired effect, namely, a well filled basket of eggs daily. It gets old hens over molting period quickly; it develops to laying maturity the young pullets. It causes perfect assimilation of the food elements needed to effect growth, prevent disease, and produce eggs. Costs one mill a day per hen.



**How Mandy Lifted  
A Mortgage**

A book of money making poultry points. From cover to cover its pages contain information that will put dollars into the pocket of the poultry keeper. It tells just the things every poultryman is anxious to know more about, not from a theoretical standpoint, but from the common sense, practical experience of successful poultry raisers. Contains page after page of helpful hints on

**How to Make Poultry  
Pay**

better. Tells what to do when disease gets into your flock, when lice get troublesome, when hens don't lay, and how Mandy saved the farm from the sheriff's hammer even when all hope was gone. It also contains a calendar and egg record for one year, making a useful, valuable book worth keeping at hand. It tells all about Lee's Poultry Remedies—the best in the land. Sent free if you mention this paper.

Geo. H. Lee Co., Omaha, Neb.

**The Best and Costs Less**

If we can prove to you that you can get the best machine on the market at a lower price than any other high-grade machine sells for we should have no trouble in securing your order for our

**Perfected Von Culin Incubator**

We believe this ourselves because Mr. C. Von Culin, its inventor, has been making and selling incubators for thirty years. He has made more tests and improvements than any other maker. Associated with Mr. Von Culin are men who have made a life study of manufacturing. They understand all about lumber and know the best materials to use. Our machines are not made on contract at cut prices. That would mean inferior materials and poor workmanship. We do all the work in our own factory.

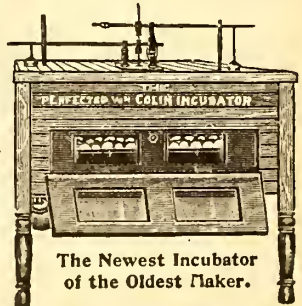
Every detail of this incubator is the most perfect. Largest heating flues. Best safety metal lamps. Thickest walls of any incubator, double and packed. Most sensitive regulator. Tested thermometer, etc. Everything guaranteed. The Von Culin is a great saver. The price is lower, it uses only about 1/4 as much oil and gets you 20 per cent bigger hatches. Think what this means, year after year.

**THE PRICE?** You'll find that right too. Our "Boiled-Down" Catalogue tells just what you want to know simply and in very few words. You will know about the machine when you read it; it's free.

**WAYLAND INCUBATOR & MFG. CO.,**

Box 52, Wayland, N. Y.

Sole Makers of Von Culin Incubators and Brooders.



The Newest Incubator  
of the Oldest Maker.



their eyes swell shut. It bleeds very easily and seems to be contagious, as last night one of our large Plymouth Rocks died with it, and two more of our chickens have it.

Mrs. F. P. W., Ft. Wayne, Ind.

Your fowls have what is known as chickenpox. Begin treatment by giving them a tablespoonful of castor oil. Remove the sick fowls and treat them by removing the scales of the ulcers with a sharp stick and touch the sores with a strong solution of chloride of potassium, first washing the head and face with warm water. Another method of treatment is to anoint the sores with crude petroleum. If the ulcers form on the eyelids they must be treated very carefully to prevent their spreading inside of the lids, and care should be taken not to get the remedies into the eyes.

**BUFF WYANDOTTES — HOUSE AND YARDS.**

- 1.—Do black or white feathers in the tails of cockerels and pullets of the Buff Wyandotte breed, mar their fancy points? If so how many points does it count off?
- 2.—Will a yard of 20x100 feet be large enough for 25 hens and give them plenty of range the year round, and keep them in sufficient grass?
- 3.—How many cockerels should I put with a flock of twenty-five Buff Wyandotte pullets?
- 4.—What size house should I put up for a flock of this size?
- 1.—It is an objection but not a dis-

qualification. It would depend on the extent of black and the judge how many points would be cut. The Standard does not state.

2.—Yes. It will depend on how good the grass is whether it will afford sufficient green food or not.

3.—One at a time. You might keep two and change them or divide the flock. Two males in a pen at the same time do not do well.

4.—10x16 feet.

**LICE OR CHOLERA.**

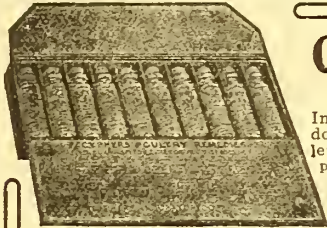
I note what you say in October number regarding symptoms of cholera but it does not meet my trouble. The color and nature of the droppings indicate the disease

**SHOEMAKER'S BOOK ON POULTRY**



and ALMANAC for 1904

There is nothing in the world like it. It contains the following: 212 large pages, handsomely illustrated. A number of most beautifully colored plates, true to life. It tells all about all kinds of **THOROUGHbred Fowls**, with life-like illustrations and prices of same. It tells how to raise poultry successfully and how to treat all diseases common among them. It gives working plans and illustrations of convenient Poultry Houses. It tells all about **INCUBATORS and BROODERS**. It gives full instructions for operating all kinds of incubators. This chapter is marvelously complete and is worth dollars to anyone using an incubator. It gives descriptions and prices of Incubators, Brooders, and all kinds of Poultry Supplies. In fact, it is an encyclopedia of chickendom and will be mailed to anyone on receipt of only 15 cents. Your money refunded, if not pleased. Address **C. C. SHOEMAKER, Box 714, Freeport, Ill.**



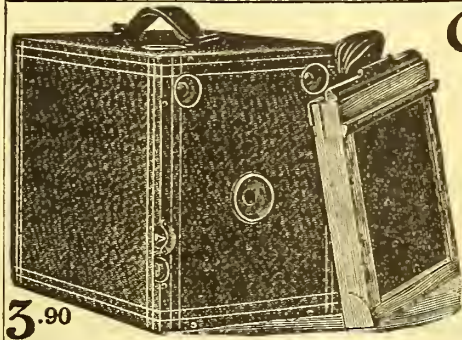
**CYPHERS COMPLETE MEDICINE CASE**  
Ten Standard Poultry Remedies

In neat, strong, light-tight case. Each bottle labeled showing dose and diseases it will prevent and cure. Medicines in tablet form to be dissolved in drinking water. Will last average poultryman from 1 to 5 years. These are the remedies:

- No. 1—For all Catarrhal Colds of Poultry.
- No. 2—Prevents and Cures Roup. Useful in all diseases resulting from exposure.
- No. 3—For Chicken Pox, Bumble Foot, etc.
- No. 4—For all Diarrhoeas of Poultry, Chicken Cholera, etc.
- No. 5—For Diphtheritic Roup and all Forms of Canker, Vent Gleet, etc.
- No. 6—For all Forms of Indigestion and Liver Complaint, Sour Crop, etc.
- No. 7—For Egg Bound; also Eye Diseases.
- No. 8—For Rheumatism and Cramps in Fowls or Chicks.
- No. 9—For Worms and Intestinal Parasites.
- No. 10—For Diseases of Egg Organs, which cause Soft-Shell or Blood-Streak Eggs. Insures Fertile Eggs.

These are **Standard Remedies** recommended by the highest authorities and used by the medical profession. You may save your flock from a scourge by having them at hand. We send the case of ten remedies to any address, postpaid \$3. Single vials 40 cents. Send for special catalogue of Cyphers Special Poultrymen's Necessities, listing everything needed in the poultry yard. Free if you mention this paper.

**CYPHERS INCUBATOR CO. BUFFALO, CHICAGO, BOSTON, NEWYORK.**



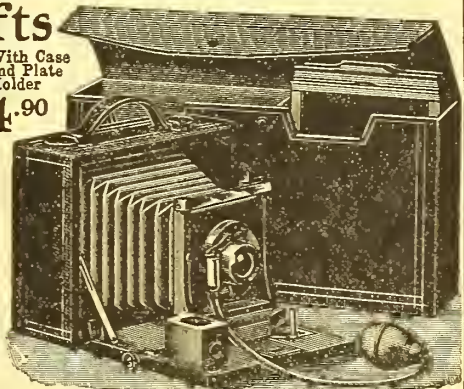
3.90

**Christmas Gifts**

Photography is very fascinating and a good camera is highly appreciated. Here are two new styles, perfectly reliable, guaranteed to give satisfaction. The Thornward Reliance Daylight Loading Film Camera, on the left, is particularly desirable for consecutive daylight exposures, as it can be loaded, reloaded and operated without recourse to a dark-room. The other, our Premium Folding Camera is a high grade, beautiful instrument, which, when closed, measures but 2 1/2 in. thick by 5 1/2 x 6 in. Both cameras make popular 4x5 pictures. A complete description cannot be attempted in this small space, but can be found in our complete catalogue of Cameras and Photographic Supplies, sent gratis on request. We will say here, however, that these cameras are fitted with all the new and desirable appliances and cannot be bought elsewhere at our price. The immense volume of our business makes large profits unnecessary. Send for Photographic Catalogue TODAY.

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32 years World's Headquarters for Everything.

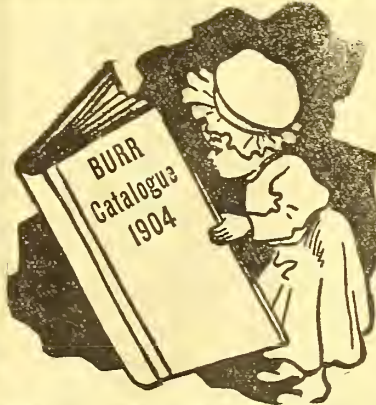
46 **Montgomery Ward & Company, Chicago**

FREE CATALOGUE OF

**BURR INCUBATORS**

Tells why our machines are the best in the world. Latest improvements. No getting up at night because our improved regulator keeps a even heat at all the time. Automatic ventilation. Ten minutes a day does all the work and you sleep all night. Sold on 30 days trial. If not what you want send them back.

**BURR INCUBATOR CO, Box K, Omaha, Neb.**





but how are you going to find the bird to which certain droppings belong. I examine droppings board and see certain evidence of the disease. Directions are to at once separate diseased birds from the healthy ones. Now what I wish to know, is there anything in the general appearance of the chicks or hen that will indicate the presence of cholera or enable one to distinguish a cholera infected bird from a louse infected one?

W. M., Bloomington, Ill.

Fowls having either lice or cholera will show indications of disease. When lice are present the birds are uneasy; they constantly pick at different parts of the body and scratch and shake themselves. When caught and examined the lice can frequently be seen when the feathers are spread apart, especially on the head and neck and under the wings. When affected with cholera the fowl becomes depressed, stands still or assumes a sitting posture and goes into a sunny, warm place if possible. The plumage is ruffled, the head drawn down, the comb becomes pale and bloodless and the appetite depressed or lost. The depression and torpidity of the fowl increases until it seems to become unconscious and it sometimes passes into a stupor and dies, while in other cases it may have convulsions prior to death.

If cholera is indicated by the droppings we should at once attribute them to the fowls we found ailing and separate them from the rest of the flock.

**HOW TO DISTINGUISH FERTILE EGGS—POINTS OF PLYMOUTH ROCKS.**

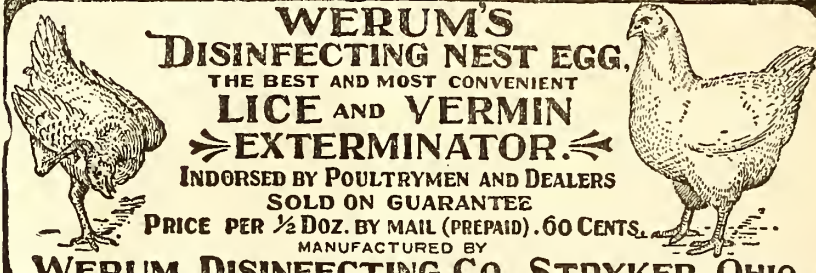
Please tell me how to distinguish fertile eggs before set and how to tell the points of a Plymouth Rock.

J. W. McCook, Nebr.

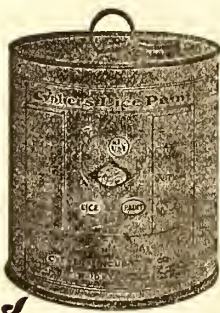
There is no way to tell a fertile egg before incubation has commenced without breaking the shell. With a magnifying tester changes can be detected after thirty hours of incubation but ordinarily light-shelled eggs



**HORSE-HIGH.**  
Many styles and heights, made of High Carbon Coiled Spring Steel Wire, heavily galvanized. REGULATES ITSELF.  
**BULL-STRONG**  
Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.  
**CHICKEN-TIGHT**  
Fence, that will turn all kinds of large stock as well, is seldom found. We have it. Send for our Catalogue. It's free. COILED SPRING FENCE CO. Box 222, Winchester, Indiana.



**WERUM'S DISINFECTING NEST EGG.**  
THE BEST AND MOST CONVENIENT  
**LICE AND VERMIN EXTERMINATOR.**  
INDORSED BY POULTRYMEN AND DEALERS  
SOLD ON GUARANTEE  
PRICE PER 1/2 DOZ. BY MAIL (PREPAID) .60 CENTS.  
MANUFACTURED BY  
**WERUM DISINFECTING CO. STRYKER, OHIO.**



**It Does Kill Lice**  
Don't say you can't get rid of lice and mites affecting either your poultry or live stock. You can.  
**CYPHERS Lice Paint**  
Does Kill Lice, Mites and all insect pests. It never fails. Perfectly safe; easy to use; Extra Strong; a little of it goes a long ways because it is guaranteed free from all adulteration. Save your fowls—increase your profits. Ask your dealer for CYPHERS and take no other. Full and easy directions on each package. Agents wanted.  
**Poultrymen's Necessities.**  
Our full line of patented specialties—Balanced Ration Foods, Sealed Bag Clover Products, Remedies, etc., at right prices. Cyphers poultry supply book **FREE** if you name this paper.  
**CYPHERS INCUBATOR CO., Buffalo, Chicago, Boston, New York.**

**90 Days' Trial**  
We sell more reliable merchandise by mail than any house in the world. Volume of sales regulates prices. No firm can undersell us on reliable goods; we refuse to handle the other kind.

**Our Oakland Machine**  
Our Oakland Machine at \$8.25 is warranted for 5 years and is the best machine on the market at this price. **\$8.25**

**At \$12.75 our Amazon is as good as the regular \$20 kind; is beyond comparison with other machines at this price.** **12.75**

**For 14.50**  
our Brunswick Seven Drawer, High Arm, Ball Bearing, Drop Head Machine is a beauty, one that will do all kinds of work and can be depended upon. Price is much lower than any other firm asks for equal quality. Mounted on handsome Automatic Drop Desk Quartered Oak Cabinet like picture, only **16.95**

**Free Catalogue**  
of Sewing Machines containing our 90 days' free trial offer, sent on request. Write for it today.  
**MONTGOMERY WARD & CO.**  
CHICAGO

**Green Bone Makes Eggs**

**WHAT A DANDY WILL DO**

It will soon pay for itself.  
It will run easier, last longer, do better work and give better satisfaction all 'round or we will take it back.



It won't cost you a cent to find this out.  
You can use it 15 days—if you like it, buy it, if not send it back. Made on honor to sell on honor.

**DANDY GREEN BONE CUTTER**

is an article of exceptionally high merit. If it was not, it could not be sold on this broad gauge plan. Our catalogue gives complete description, prices, etc., and we send it free. It tells you why green bone makes eggs—makes money, and how the Dandy makes both possible.

Write for it.  
**Stratton Mfg. Co., Box 43, Erie, Pa.**

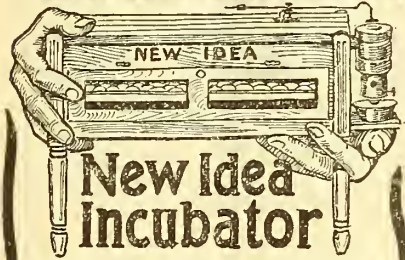
**Green Bone Makes Money**

*Get A Dandy* *They're So Handy*



are tested on the third and dark-shelled on the fifth day of incubation. The only book that can tell the scale

# Take This One



## New Idea Incubator

is a complete and trustworthy hatcher which has been tested successfully by thousands and its price **Saves You One-Third**

It is built of the best and most durable materials, nicely finished. It has Double Walls, Removable Egg Trays, Chick Nursery, Copper Heater, Improved Tanks, Safety Lamp, Double Wafer Regulator, etc.; is Self Regulating and Self Ventilating.

Its recorded hatches even in hands of inexperienced users equal those of any machine on the market. We guarantee it absolutely as represented.

Send for "How to Make and Save Money With Incubators," our handsome new Poultry Book and catalogue. It will interest you. It is giving old line makers something to think about. We send it free. Write today.  
**CHANNON, SNOW & CO.**  
 Box D, Quincy, Ill.  
 All Poultry Supplies at Cut Prices

of points and describe each section of a bird is "The American Standard of Perfection," which is copyrighted. Price \$1 per copy, supplied at this office postpaid.

### COMPOUNDING A RATION.

What are the proper proportions in weight to mix the following feeds, to be used as a mash for fowls to lay this winter? Wheat bran, wheat middlings, corn meal, ground bone, linseed meal, clover meal, beef scraps or beef meal, or would you suggest some other than the above named? Please give me the proper proportion in weight to mix. Would you suggest a mixture of all of these or only a few to get the best results in eggs? I keep charcoal, grit and shells in their reach at all times. I have used bran, middlings, corn meal, ground oats mixed which I thought were good. If it would be better to mix only a part of the above named foods together for a mash please advise me as you think.

J. M. D., Walden, N. Y.

If you mix the ingredients named in the following proportion you will have a mash with a nutritive ratio of 1:4.9 which is hardly narrow enough if whole grain is to be fed in connection:

Corn meal, 15 pounds; wheat middlings, 50 pounds; wheat bran, 35

**GLIMAX LEG BANDS**  
 Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied.  
 Note Reduced Prices, 12 for 20c; 25, 35c; 50, 60c; 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples.  
**The Keyes-Davis Co., Ltd., Mrs. Battle Creek, Mich.**

**No Guessing**  
 You know in advance what will come if the eggs are fertile when you use the self-regulating

**Successful Incubators and Brooders**  
 The machines for busy people and the inexperienced because they run themselves. That's the unqualified experience of thousands. The same under all conditions. Eastern orders have prompt shipment from the Buffalo House. 100 pens of Standard fowls. Incubator catalogue free, with poultry catalogue ten cents.

**Des Moines Incubator Company,**  
 Dept. 47,  
 Des Moines, Ia.

*Fine Poultry*

**GET RID OF LICE**

**Use AVENARIUS CARBOLINEUM Registered**

It is acknowledged to be the best and most convenient Radical Remedy against Chicken-Lice and Mites. It does away with dusting, dipping, kerosening, whitewashing and insect powder. Easily applied with a brush. Shipped freight prepaid.

**Carbolineum Wood Preserving Co., Milwaukee, Wis.**  
 Beware of Fraudulent Imitations. Circulars Free.

# Let Us Do Your Printing

Our work is strictly first class, neat, attractive and up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed, will bring orders, where poor printed matter spoils all.

## Good Printing is one of the Secrets of Success in the Business.

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, **without extra charge**. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. **Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.** Terms, cash with order.

Size of cards, note heads, envelopes, etc., are given in inches. Prices for ruled note heads and letter heads quoted on two weights of high grade commercial paper. Either will give satisfaction. Prices of printing.

| BUSINESS CARDS.                 |        | ENVELOPES.         |        | LETTER HEADS.        |              |
|---------------------------------|--------|--------------------|--------|----------------------|--------------|
| 250, Size 2½x4½, Square.....    | \$1.25 | 250, No. 6½.....   | \$1.25 | 10-lb. Paper.        | 12-lb. Paper |
| 500, " 2½x4½, ".....            | 1.75   | 500, " 6½.....     | 1.75   | 250, Size 8½x11..... | \$1.90       |
| 1000, " 2½x4½, ".....           | 2.75   | 1000, " 6½.....    | 2.75   | 500, " 8½x11.....    | 2.50         |
| 250, " 2½x4½, Round Corner..... | 1.50   | 250, " 9.....      | 2.00   | 1000, " 8½x11.....   | 3.75         |
| 500, " 2½x4½, ".....            | 2.00   | 500, " 9.....      | 3.50   |                      | 4.25         |
| 1000, " 2½x4½, ".....           | 3.25   | 1000, " 9.....     | 5.00   |                      |              |
| SHIPPING TAGS.                  |        | BILL HEADS.        |        |                      |              |
| 250, No. 4.....                 | \$1.00 | 250, Size 6x9..... | \$1.60 | 250, Size 6x9.....   | \$1.50       |
| 500, " 4.....                   | 1.25   | 500, " 6x9.....    | 2.00   | 500, " 6x9.....      | 1.85         |
| 1000, " 4.....                  | 1.75   | 1000, " 6x9.....   | 2.80   | 1000, " 6x9.....     | 2.60         |
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**HALF TONES.** If you want half tone made of a choice bird or pen, or portrait of yourself or any other subject, we can supply the best grade of work at 20c. per sq. inch; minimum, \$1.65. We have full office force and people are paid to answer questions and help you to get just what you want.

Let us supply you with up-to-date printing—the **klad that brings business**. We know we can please you. Order direct from this ad or write,

## POULTRY KEEPER PUBLISHING CO.,

JOB PRINTING DEPARTMENT.

QUINCY, ILLINOIS.



pounds; clover meal, 30 pounds; linseed meal, 5 pounds; beef scraps, 15 pounds—total, 150 pounds. If you use 25 pounds of Buffalo gluten feed, omit the corn and reduce the bran to 25 pounds you will have a feed with a ratio of 1:3.8 which will be much better if fed in connection with whole grain.

**NUX VOMICA—CAT KILLS CHICKS.**

1.—In your issue for October you publish a letter from Mrs. O. A. Clapp (on page 239) about feeding ground "nux vomica" to poultry as a stimulant, and for killing hawks and other animals that destroy poultry.  
 2.—Last month I lost about twenty-five head fine poultry, of Buff Orpingtons, Black Minorcas and Rhode Island Reds. All this occurred in two nights. The third night I set a trap and caught a cat. What I want to know is this, could a cat kill twenty-five birds in two nights? We think it impossible and ask your opinion.  
 P. K. Wynne, Dover, Del.

1.—We do not know what quantity it would be safe to feed. We never heard of this use of nux vomica before Mrs. Clapp's article appeared. The dose would depend very much upon the size of the chicks. In small doses it would probably do no harm.

**The National Standard Squab Book**

Practical manual with complete directions for installing and running successful Squab Plants—How to make Pigeons and Squabs Pay—Details of Building—Buying—Habits of Birds—Mating—Watering—Feeding—Killing—Cooling—Marketing—Shipping—Curing—Ailments, etc. Illustrated with new half tones and drawings. Price, 50c. Year's subscription to Poultry Keeper and copy Squab Book for 75c.

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We will send you each of the publications named in any of the four combinations for one dollar, Postage Free from publishers for a full year:

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McClaves matchless prize winning White, Golden and Silver Wyandottes, Barred and White Rocks, White and Brown Leghorns, Black Hamburgs, Light Brahmans, Langshans, R. C. B. Bantams, Bib Bronze, White and Narragansett Turkeys, all standard varieties of geese and ducks. Scotch Collie Shepherd Dogs. Finest collection of these varieties in America. More first prizes on our birds at Pan-American Pittsburg, Chicago, Columbus, Cambridge and Akron, than any other exhibitor. 512 prizes won at six shows. More than 1,000 choice birds for sale. Prices reasonable. Best quality. Prompt service. Low express rate. Satisfied buyers. Largest practical poultry farm in Ohio. Over a quarter of a century of successful operation.  
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**HOW TO GET \$2 EGGS For 50c Per Sitting.**

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.  
 W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)  
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Complete set with full instructions, post-paid, on receipt of \$2.50. 28 p. Capon Book free for 2c stamp. Poultry Marker 5c. Pump Syringe, 10c.

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The competition between old line insurance companies has become so keen that at this time it is almost possible to get life insurance for a year or so for nothing. In the poultry business you have to pay as much for a poor hatcher as for a CORNELL INCUBATOR. In purchasing the latter, the assurance of good hatches and healthy chicks cost you nothing extra, and might be readily termed "free life assurance. CORNELL ideas are fully protected by CORNELL patents. CORNELL 1904 free catalog contains valuable, practical hints to poultrymen from the pens of the recognized leaders of the poultry fraternity. PEEP-O-DAY BROODERS have stood at the head for nearly fifteen years, and are better than ever, as made by the Cornell Incubator Co.

FAIRVIEW FARM,  
 Corner Mt. Airy Avenue and County Line,  
 Philadelphia, Pa., Nov. 23rd, 1902

The Cornell Incubator Mfg. Co., Ithaca, N. Y.

Dear Sirs:  
 I am pleased to write you about the Cornell Incubator I purchased from you last winter, as it has given me perfect satisfaction and hatches large percentages of strong healthy chickens, and what I like best of all is the interest you take in your customers and the wide-awake nature of your company to keep the Cornell Incubator in the lead of improvement with the progressive nature of our times.

Yours respectfully,  
 (Signed) FRANCIS BALL.

Write to-day for catalog.

**Cornell Incubator Mfg. Co.**  
 Box, 11  
 Ithaca, New York





2.—A cat might easily take twenty-five small chicks. The writer lost twenty, five days old, by a cat in less than three hours. Cats are not apt to touch chicks after they are feathered out.

**CATARH OF THE NASAL PASSAGES.**

I hatched out a nice lot of chicks and were doing fine till they got pretty good sized then they began to run at the nose—a thin white stuff. I've tried different remedies but with no success. It seems to be catching as the old birds are getting it. They just look a little pale at the head and there is not much in their crops. Their eyes look all right and their heads don't swell. The droppings are all right.

J. P. H., Greason, Pa.

Your fowls have colds. See answer under head of colds in this department. We would advise you to get a good roup cure and use it. This is much easier than preparing medicines.

**ANALYSIS OF BEEF SCRAPS.**

Please give the value of rendered beef cracklings by analysis. Is it good to feed to poultry?

M. S., Williamsport, Pa.

No two samples will show exactly

A few good white Wyandotte Cocks left. \$1.00 each. Yearling cock \$1.00 from Dunston cost \$15.00, price \$5.00 Satisfaction guaranteed.

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**WHITE PLYMOUTH ROCKS,** White Holland Turkeys, Houdans. Winners at Iowa, Michigan and West Michigan State Fairs. Choice lot young stock at reasonable prices.

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**A WHITE WYANDOTTE** pullet and Cockerel line bred from New York and Boston winners.

FOR FIVE DOLLARS.

You can't buy a pair of birds half as good in the East for twice the money. Circular free.

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**Get Eggs in Winter**

Whether you keep 2 or 1000 hens you want them to lay when eggs are high. Our booklet, Special No. 2, tells

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For 50 cents we will send the booklet and full year's subscription to the POULTRY KEEPER.

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**AMERICA'S BEST WYANDOTTES, 1,500 HEAD TO SELL IN GOLDEN LACED, SILVER LACED AND WHITE WYANDOTTES.**

Winners of over 200 regular premiums at Madison Square Garden, New York since 1891. We won first on breeding pen of both Whites and Golden last winter at the above show. Our birds have won hundreds of premiums at Chicago, Boston, Philadelphia and all the large shows during the past 18 years. We have birds to spare in any numbers of the finest show quality or the highest class of breeding stock. We breed for utility as well as for show purposes. One of our white pullets laid 243 eggs in 10 months. Large circular showing more than 50 of our winners and views of America's greatest Wyandotte Farm for a stamp.

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**SOME GOOD BARGAINS**

Five pens of each of the following varieties for sale and all good enough to show. They are our breeders: **BUFF LEGHORNS, BUFF ROCKS, BUFF WYANDOTTES, BUFF COCHINS, GOLDEN WYANDOTTES, WHITE WYANDOTTES, BARRED P. ROCKS.** \$7.50 for Four Hens and a Cock (yearlings). Please mention Poultry Keeper when writing

**HARRIS-PRACTICAL POULTRY CO.,** Clay Center, Neb.

**MY GOLDEN BRONZE TURKEYS** made a record in Pan-American and Chicago, hundreds of people saying they were the most beautiful birds they ever saw.

Never had a turkey score below 93 in four years, to 97 1/4. **EGGS, 50c EACH, Barred Rocks (Felch strain) bred in line 27 years, eggs \$3 per 13. Buff Cochins, (Sternberg, Donisthorp), eggs \$4 per 13. Pekin Ducks, (Hallock strain) Eggs, \$2 per 13. Chester White Swine. Pedigrees furnished with all hogs sold.**

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*SHOW THE HENS THAT LAY THE EGGS*

KNOWING THE EGG VALUE OF EACH HEN YOU CAN TELL FOR FIT.

I invite conservative poultrymen, the incredulous, the doubtful to investigate this simple, inexpensive yet thoroughly scientific invention. Practical features found in no other nest overcome all objections. The Ideal has been proved by its works. I absolutely guarantee unqualified satisfaction. Circulars free if you mention Poultry Keeper.

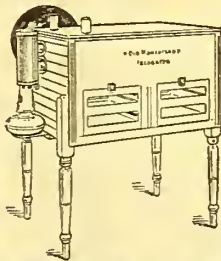
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**...KING IS DONE HATCHING FOR THE SEASON...**

Will sell part of my breeding stock. Can mate pairs, trios or breeding pens for best results. My record past winter is equal to any breeder in the country. Send for mating circular or write your wants to the

**Barred Rock Specialist, O. L. KING, - - Walnut Grove, Illinois.**

**The Old Homestead New Incubator,**



It will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send for it. It is free to all who mention Poultry Keeper when writing.

**OLD HOMESTEAD BROODER CO.,** MIDDLEBORO, MASS.

**FLOOD'S ROUP CURE**

**Absolutely the best. Cure guaranteed.** Simply put the Cure in drinking water and the chicken takes its own medicine. Our 50c package makes 50 gallons of Medicine. Post Paid 50c and \$1.00.

The best and cheapest liquid louse killer is **Flood's Disinfectant and Germicide.** 1 qt. cans 35c, 1 gal. cans \$1.00. Easy to use and lasts the longest.

**Flood's Paragon Egg Producer** mixed with the feed for chickens especially in winter is sure to make your hens lay eggs when prices are highest. Remember this is not a medicine. Price, 1 lb. package 25c, 5 lb. package \$1.00. 1 lb. package by mail 40c, 5 lb. by express \$1.25. Our remedies are sold on an absolute guarantee. **Manufactured only by**

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# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected. Brood over 20 years. Great st Egg Laying Strain in existence. Large, pure white, fancy marked eggs. Standard quality. Birds a large, vigorous, active and handsome. Excellent for producing blood or as foundation stock. Winners at Madison Square Garden, New York, 1903. Stock for sale, both old and young. Illustrated circular free if you mention Poultry Keeper.

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## SANBORN BUFF WYANDOTTES

Quality costs more and pays better than the 'other kind.'

I have some fine breeding birds that ought to be in your poultry house. They are of the best blood that exists and are as good looking as their pedigree. My best birds are worth a good round sum but they are nice birds at a price you can pay.

DR. N. W. SANBORN, Box 66, Bellingham, Mass.

the same analysis. The following is the average of forty samples: Total dry matter, 89.3; protein, 66.2; carbohydrates, 0.3; fat, 13.7 per cent. Nutritive ratio, 1 to 0.5; fuel value, 1415 calories per pound; protein equating factor 1.5. The equating factor is the number of pounds it is necessary to feed to supply one pound of protein.

Beef scraps are an excellent substitute for green cut bone and may be fed in a mash or in a trough by themselves. From 1/2 to 3/4 of an ounce per hen per day is about the right quantity. If fed alone the hens are not likely to eat that amount.

### COLDS.

I have a White Leghorn pullet and it has been sneezing night and day for about a week and don't know the cause of it and the rest of them are getting the same. I wish you would answer in your November number what sickness it has and a cure for the same and oblige

W. M. S., Chicago.

Your fowls are probably suffering from colds. See that the house is warm and dry. Give 15 grains of chlorate of potash in each pint of drinking water. Most of the advertised rump cures will cure a cold.

### DO CAPONS GROW SPURS?

Do Capons grow spurs the same as a rooster? G. N. R., Danville, Ill.

Not generally. If allowed to become old they will grow small spurs like a hen.

### YOUNG CHICKS

Thoroughbred and market. Two to six weeks old.

#### SHIPPED SAFELY ANY DISTANCE.

Try them instead of eggs for hatching. Price no greater and results more satisfactory. Ask us about them and please mention P. K. 3-12

Villeview Poultry Farm Company, AL M, NEW YORK

### THE DANDY BROODER

BEST, SIMPLEST, CHEAPEST. Beats the Old Men and all other Brooders.

#### THE DANDY EGG TRAP-NEST.

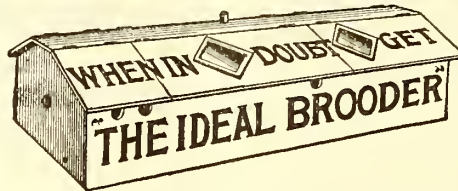
WHEN IN DOUBT Try a DANDY. Traps the hen, or only the egg, and releases the hen. Average cost per nest only 25 cents. 12-1

Just drop a card to The Dandy Brooder, Danville, Ill.

### GOOD ROOFING!

Means dry poultry houses. The best roofing, 'NE-NSE' (don't forget the name) is so low in price that any one can afford to use it. Ask for samples. The original red-rope roofing.

F. W. BIRD & SON, East Walpole, Mass. Chicago, Ill.



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## POULTRY SUPPLIES OF EVERY DESCRIPTION



Prairie State Incubators and Brooders; Priz-, Hamilton Old Homestead and Russ Brooders; Drinking Fountains; Carbonizing Instruments; Spraying Pumps; White Washing Machines; Powders and Lice Killers; Confinement Powder; Wire Netting; Dog Cakes and Dog Medicines, and everything necessary for breeding and rearing poultry and pet stock. Our immense Illustrated Catalogue gives a complete list. It's free if you mention Poultry Keeper. Send for one.

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# System in Poultry Practice.

30 CHAPTERS; 147 PAGES; ONE DOLLAR POSTPAID

Send for Booklet No. 4. Is the most striking document ever published on poultry matters. Costs four cents. 32 pages. Has sample page of book. Results of old-time users of system. Many appreciative letters. Fully describes book

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**ALL THE YEAR ROUND**  
in sickness and in health, in the laying season, the hatching season and the moulting period, nothing is so good for fowls as



**PRUSSIAN POULTRY FOOD**


**PRUSSIAN POULTRY FOOD**

People who use it constantly recommend it not only as a flesh, egg and growth producer, but endorse it as a cure for cholera, roup, etc.

Your Prussian Poultry food is simply immense. I have fed it the last year to my flock of 350 and there has not been a single case of disease of any kind happen to them—A. C. Myers, Mt. Morris, Ill.

Prices on Poultry Food, pkgs. 25 and 50 cents. If by mail 40 and 75 cents, Pails \$3.50. We also manufacture the famous Prussian Lice Powder and Prussian Lice Killer. Apply to your dealer. If not there write us. We will supply you and send you Our 68 Page Book Free.

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OVER 10000 FEEDS  
\$1.50  
THE GREAT EGG PRODUCER  
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AGENTS: Port and Seed Co., Portland, Oreg.; Vaughan Seed Store, Chicago, Ill.; J. W. Wilder & Co., Cincinnati, Ohio.

# Standard of Perfection Free.

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid, copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. THIS OFFER IS GIVING \$3 OF VALUE FOR \$2. A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

Poultry Keeper Publishing Co., Quincy, Ill.



# Reliable Opportunity for Conservative Investors

A man can accomplish but little without the co-operation of other men. It is true that one might go out on the prairie and run a farm without asking direct help from any one, but if we take away from such a farmer the inventions that he uses, the plows and other implements and machines, which represent the accumulated results of the co-operation of many men in designing and making them, he would be in a sorry plight indeed. If we take away all these inventions and products of co-operative enterprise, a man would not have an ax to cut fire wood, nor a hoe to scratch the soil. Even a burglar needs some tools, some benefits of co-operation, to carry on his operations successfully. Eminent scientists have classified man as a tool-using animal, but it would be just as accurate and more expressive to define men as beings who work together to achieve results which one could not attain.

Co-operation is the basis of all industry and commerce. One man can run a blacksmith shop or a little store, but many men must work together to build up a great factory or mercantile house. One man is often the proprietor of a large establishment, but even so, he does not do all the work himself. He must induce other men to co-operate with him. We say he hires them, but they do not become his slaves. They agree to do certain work which he wants done — they agree to co-operate with him — on condition that he will compensate them. It is the exception to find one man as the proprietor of a large business. Most of our great enterprises are carried on by firms and "companies," which bring together the energy and brains of many men. Americans are the most successful business men in the world because we are the most progressive in bringing together the efforts of many men in one business enterprise.

These comments on "co-operation" have been inspired by a prospectus issued by the Reliable Incubator & Brooder Co., of Quincy, Ill., who offer a "Reliable Business Opportunity" in the form of an opportunity to subscribe for stock which they have issued to increase their working capital. Their business has been very successful, so much so that they have an opportunity to do a much larger business, if some other people with capital will co-operate with them in providing the money necessary to extend their growing trade.

When we go in partnership with a man or lend him money we want to know his character and reputation and whether he is likely to succeed. The Reliable Incubator & Brooder Co. have been before the public since 1890 as manufacturers of incubators, brooders and poultry supplies, and it is a simple matter for any one to satisfy himself as to their character and reputation. They, in fact, invite prospective investors to visit them at Quincy and personally inspect their factory, the Reliable poultry farm and all other features of their business.

The incubator and brooder business of the Reliable Company was started in 1890 with less than \$200 capital. In 1892 the business had grown sufficiently to warrant incorporation with \$5,000 capital stock, which was paid up out of the earnings of the business. In 1894 the capital was increased to \$20,000, and in 1901 to \$60,000.

While the business has been growing, Reliable goods have been winning a reputation all over the world. They have never suffered a single defeat at any prize exhibit in this or any other country. The medals and prizes which the company won at

the Paris Exposition and at numerous expositions and shows in this country, give the investigator ample proof of this statement. The name and reputation of Reliable goods have thus acquired a value which gives permanency and strength to the company. The name, in fact, is the most valuable asset of the business, worth, without doubt, more than all the "visible" property of the company; but the capital of the company is all represented by "tangible" assets. No stock has been issued for "good will."

Reliable Incubators and Brooders are in use all over the United States, and in Europe, South Africa, South America, Cuba, Jamaica, Mexico, Hawaii—in fact, in nearly every country of the earth.

One of the illustrations in the prospectus which is mailed to prospective investors, shows a shipment of several carloads being loaded at Quincy for customers in South America. Wherever Reliable incubators are sold they make friends and bring more orders, because they are right and give satisfaction. It is this rapid growth of the business that makes it necessary for the company to increase their capital.

The Reliable factory is a three story building, with basement, 75x100 feet, giving four floors, aggregating 30,000 square feet of floor space. The factory equipment is all modern and efficient. An electric motor provides power for the machinery, which is all of the latest designs. The company make their models, patterns, etc. The tubing, lamp bowls, chimneys and other parts, which are merely "assembled" by other incubator manufacturers, are made here under Reliable inspection, one of the reasons why Reliable machines are reliable. Everything is made by skilled workmen, who are well paid and take an interest in their work, most of them having been with the company for years. Only the lamp burners and wicks and small hardware parts are bought, everything else for Reliable goods being manufactured in their own shops.

The Reliable Poultry Farm, which belongs to the company, is the largest poultry farm in the United States devoted to the raising of pure bred fowls for breeding purposes. This farm is a valuable property in itself, as it is known all over the world for the high average of its pure bred fowls, resulting from twenty years of careful and persistent efforts to produce the best.

The poultry business has been growing rapidly in the past ten years. Farmers are learning that the despised and lowly hen is the greatest money maker on the farm, especially to the

man who uses Reliable Incubators and Brooders. The demand for eggs and poultry has been greater than the supply, and the introduction of refrigerator cars in marketing these products is bringing them to the consumer in better condition, so that the market cannot be overstocked. The poultry business is more profitable today than ever before, and it will always be profitable to those who use Reliable machines. The Reliable business therefore stands on a solid

foundation and is unquestionable as a safe investment. The offer that is made to investors is not a "get rich quick" proposition; by any means, but is a very attractive one to investors who want to earn a good income without taking chances.

See advertisement on page 40. If interested send for prospectus.



President's Private Office



Main Office. Reliable Incubator and Brooder Co.



**AMBITION OF CYPHERS INCUBATOR COMPANY.**

**A Little Business Talk With Old Friends and New Ones. The Reason Why Cyphers Quality Is Put Into Cyphers Incubator Company Goods and is Protected by Patent, Trademark, Copyright and Seal.**

The poultry raiser who succeeds best these days is the one who puts earnest thought into his work, who weighs carefully every chance in his favor and diligently embraces each opportunity. One of the good things said recently is this: "The true measure of a man is the use he makes of his own particular opportunities."



Please re-read that sentence. The more you think about it the better you will like it. To hope to succeed by the "hit or miss" plan is to Twelve Countries dental." Trusting to luck is unworthy any person of intelligence. Remember that in the "game of life"—of individual success—no man can afford to lose. Are you, reader, keenly alive to your own best interests? "Thinking it out" is real work, but it brings results. To try to win success with poor tools in any field of labor is another way of defying fate and inviting disaster. If good tools are a necessity in the poultry field, and therefore are in demand, here, then is some one's opportunity—the manufacture of the right kind of tools, of those best suited to the purpose, of the "essentials of success."



"Tools" in the case of the earnest, watchful, painstaking poultry raiser embraces incubators, brooding apparatus, various labor, time and money-saving appliances, balanced-ration poultry foods, special clover and alfalfa products, standard remedies and trustworthy literature—all these being, in fact and practice, poultrymen's necessities."

It is the declared aim and ambition of Cyphers Co.'s Scaled the Cyphers Incubator Company to manufacture the best of everything that poultrymen need—nothing foolish or fancy, but every legitimate article, that, once used, will be bought again and again. This means that this company must put "quality" into every article it manufactures. It means that it must regard the reputation of its goods and the friendship of satisfied customers as an invaluable asset. Every Cyphers customer should be a Cyphers friend if we are to build up a great business and achieve permanent success. "Standard goods at right prices"—at lower prices than the same quality and quantity can be bought for elsewhere—then every customer will be a satisfied customer; that must be the rule.

Cypher-brand goods are patented, trademarked, copyrighted and put up in sealed bags, depending on the character of the article. Why so? Because its goods possess special values and we wish to ensure our customers getting the genuine article. If it's the Cyphers make or brand it's the best. This company challenges comparison with any and all other makes. It manufactures and sells nothing that is not as represented or that will not do the work claimed for it—this is guaranteed. Try our goods, and if you are not satisfied you can get your money back. The brand "Cyphers" means certainty, therefore—you to be the judge. To get the "Cyphers quality"—to obtain the practical results of the many experiments made by the Cyphers Company's corps of experts—it is necessary to buy the Cyphers make or brand. Be sure, therefore, that you obtain the genuine, patented, trademarked Cyphers goods; once tried you will be satisfied Cyphers Co.'s with no other. Seal.

For complete 1904 catalogue of the Cyphers Company's manufacturers, or for separate poultry supply catalogue, or for special circulars (please name article or articles in which you are interested) address nearest office. Will be sent free if you mention Poultry Keeper.

**CYPHERS INCUBATOR COMPANY,**

Court St., Buffalo, N. Y.; 310 Fifth Ave., Chicago, Ill.; 34 Merchants Row, Boston, Mass.; 21-23 Barclay St., New York City.



**Hens Can't Help But Lay**

when you feed Lee's Egg Maker. That is a strong claim, but it's a fact proven by test every day. When a hen obtains ALL necessary material for egg formation she can't help but lay. When she fails to get these elements she fails to lay.

**LEE'S Egg Maker**

makes hens lay because it furnishes the very materials that are lacking when they don't lay. It tones the digestion, gives them vigorous health and puts them in prime condition. It produces fertile eggs—strong chicks when hatched. An evenly balanced and economical food. Contains no sand or grit for weight—nothing but good that brings good results. Costs 1 cent per day for each 25 hens. 25c for 2½ lb. package—\$2.00 for 25 lb. pail

Sold everywhere. Send for our new free book, "A \$1000.00 Egg and the Hen that Laid It."

**Geo. H. Lee Co., Omaha, Neb.**





**DURABLE FENCE, QUICKLY AND CHEAPLY MADE.**

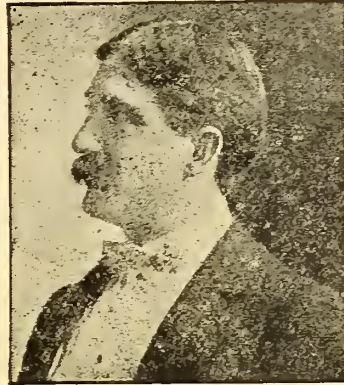
Editor Poultry Keeper.

Here is a good way to build a park fence without driving a post. You may have published this but I have never seen it in print. It may be of interest to some.

Take three by fours, the desired length, and set on a piece of two by four, two feet long, nailing the two by four to the three by four by driving good sized spikes through from the bottom. Then nail a brace across about two feet long. Drive a good sized peg into the ground at the end of the 2x4, and nail into the end of the 2x4. Set these about twelve feet apart and board up two feet, add your wire and you have a strong, durable fence quickly and cheaply made.

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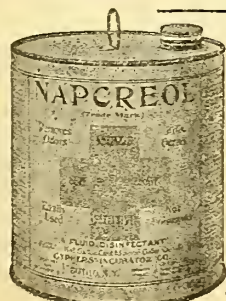
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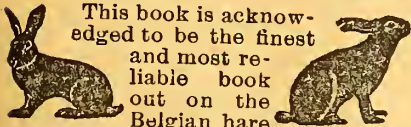
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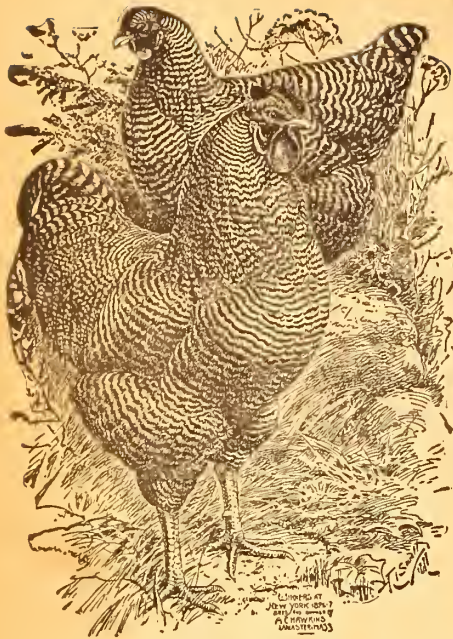
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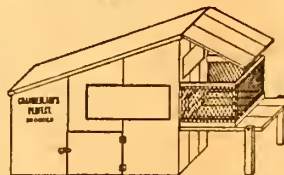


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Vol. XX.

January 15, 1904.

No. 10.

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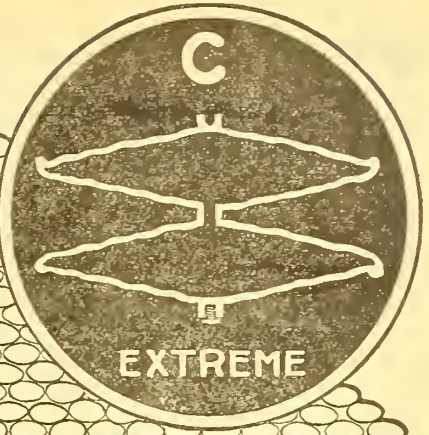
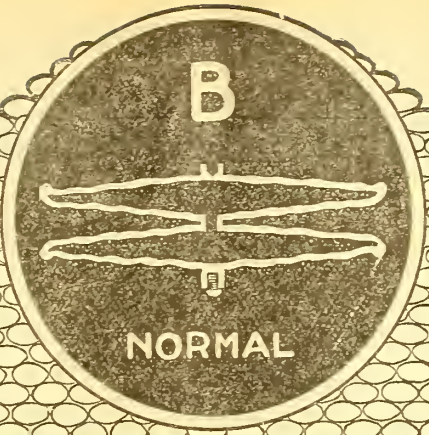
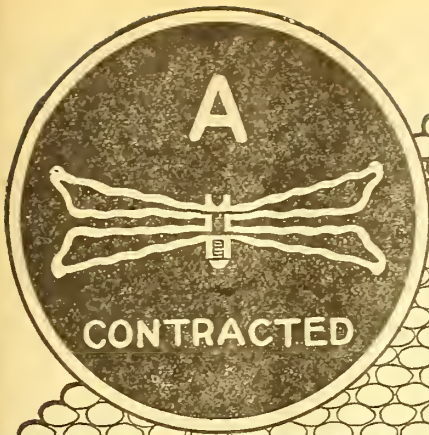
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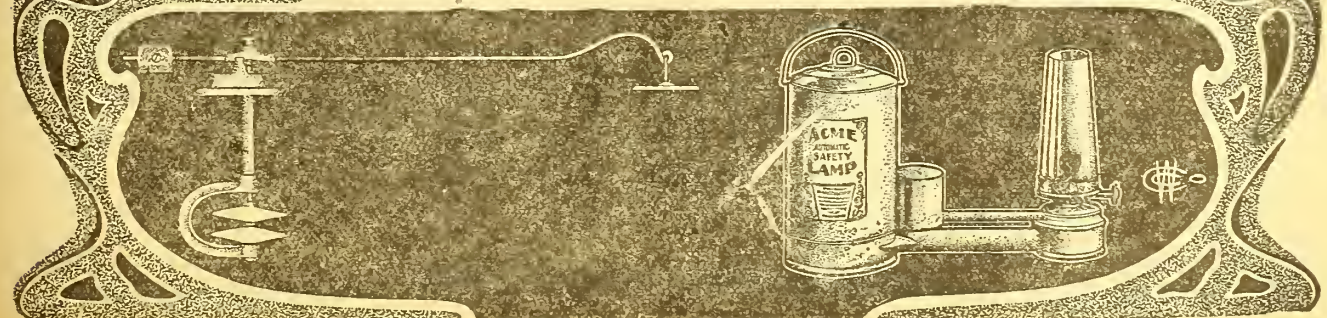
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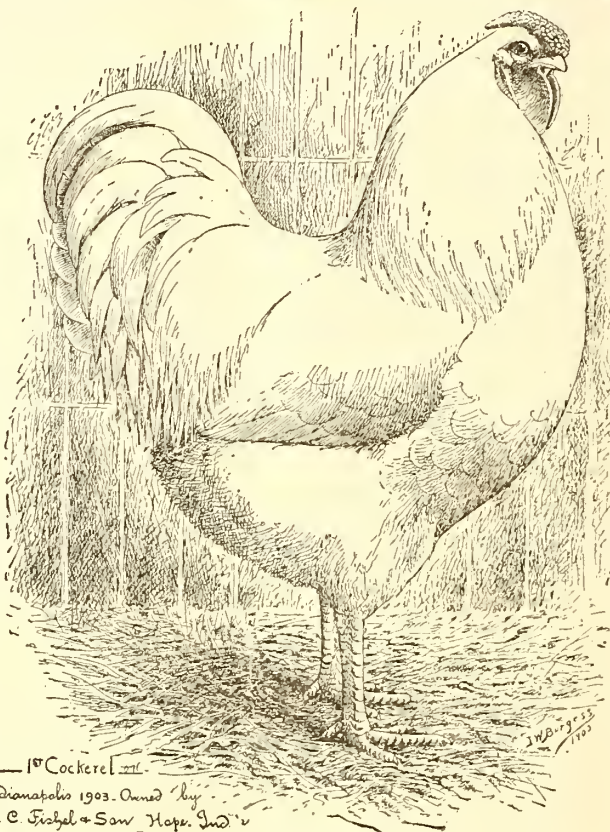
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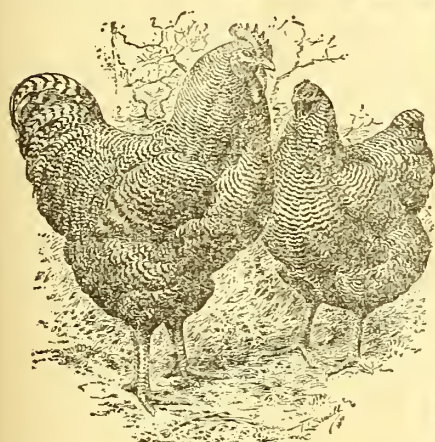
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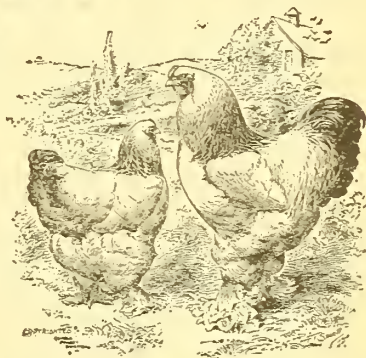
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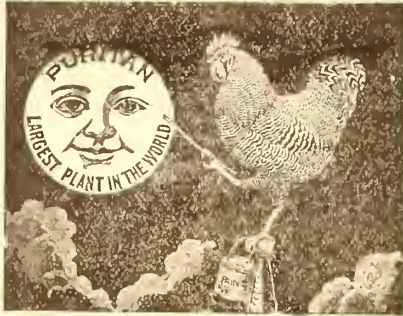
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| L. M. Blodgett & Co.                         | West Burke     | Vt.    | Caledonia   | North.             | John A. Salzer Seed Co.     | LaCrosse         | Wis.      | LaCrosse     | West.              |
| W. S. Barret & Co.                           | Providence     | R. I.  | Providence  | East.              | L. L. Olds                  | Clinton          | Wis.      | Walworth     | Southeast          |
| C. W. Shaw                                   | Springfield    | Mass.  | Hampden     | South.             | Royce & Passmore            | Detroit          | Mich.     | Wayne        | Southeast          |
| Squires, Day & Co.                           | Lynn           | Mass.  | Essex       | East.              | Jones Seed Co.              | Gr. Rapids       | Mich.     | Kent         | West.              |
| W. S. Hancock                                | Neponset St.   | Mass.  |             |                    | Curtis Bros.                | Reed City        | Mich.     | Osceola      | Center.            |
|                                              | Hyde Park      | Mass.  | Norfolk     | East.              | Economy Supply Co.          | Battle Creek     | Mich.     | Calhoun      | South.             |
| Meech & Stoddard                             | Middletown     | Conn.  | Middlesex   | South.             | Chesmore E. Lake Mer. Co.   |                  |           |              |                    |
| F. O. Grosbeck                               | Hartford       | Conn.  | Hartford    | North.             |                             | St. Joseph       | Mo.       | Buchanan     | N'thwest           |
| C. C. Fairbanks                              | Saybrook       | Conn.  | Middlesex   | South.             | C. S. Hunting               | 3817 E. 13th St. |           |              |                    |
| Emil G. Blot                                 | Rowayton       | Conn.  | Fairfield   | Southwest          |                             | Kansas City      | Mo.       | Jackson      | West.              |
| The Dickermann Hardware & Supply Co.         |                |        |             |                    | William T. Moore            | St. Louis        | Mo.       | St. Louis    | East.              |
| 35 Maine Street                              | Wallingford    | Conn.  | New Haven   | South.             | Owen & Co.                  | Topeka           | Kan.      | Shawnee      | East.              |
| G. H. Smith                                  | Town Mill      | Conn.  | New L'don   | Southwest          | J. L. Croup                 | Concordia        | Kan.      | Cloud        | North.             |
|                                              | New London     | Conn.  | Litchfield  | Northwest          | Edgar Padelford             | Barnes           | Kan.      | Washington   | North.             |
| Addison I. Cowles                            | Lakeville      | Conn.  |             |                    | Joseph A. Jacobs            | Belleville       | Kan.      | Republic     | North.             |
| Schilling Zoological Stores, 28 Coopers Sq., | New York       | N. Y.  | Westchester | Southeast          | Delmar Putnam               | Green            | Mo.       | Clay         | North.             |
| Easton, Rising & Worden,                     | Hoosick Falls  | N. Y.  | Rensselaer  | East.              | Archias Seed Store          | Carthage         | Mo.       | Jasper       | S'thwest           |
|                                              | Hillsdale      | N. Y.  | Columbia    | Southeast.         | Saldomirge Bros.            | Col. Springs     | Colo.     | Elpaso       | Center.            |
| Canfield Coop Co.                            | Bath           | N. Y.  | Steuben     | South.             | Voght Sons                  | Pt. Madison      | Iowa      | Lee          | Southeast          |
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| T. W. Parsons                                | Lyons          | N. Y.  | Wayne       | North.             | L. Matthews                 | Miami            | Ind. Ter. | Ottawa       | N'theast.          |
| W. S. Curtis & Co.                           | Ransomville    | N. Y.  | Niagara     | Northwest          | C. S. Fletcher              | Watertown        | S. D.     | Codington    | East.              |
| Rochester Poultry Supply & Seed Co.,         |                |        |             |                    | Jacobson Bros.              | Waconda          | S. D.     | Clay         | East.              |
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| Frank G. Weed                                | Hightstown     | N. J.  | Mercer      | Center.            | Norfolk Farm Supply Co.,    |                  | Norfolk   | Norfolk      | S'thwest           |
| <b>WESTERN.</b>                              |                |        |             |                    | W. W. Kulp                  | Pottstown        | Pa.       | Montgomery   | S'theast           |
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| C. H. Kempton                                | Nokomis        | Ill.   | Montgomery  | Center.            | W. J. Magee                 | Oil City         | Pa.       | Venango      | N'thwest.          |
| Aug. Joos, Bird & Curlo Store,               |                |        |             |                    | R. A. Hannah & Co.          | Sharon           | Pa.       | Mercer       | West.              |
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raise the heaviest fowls. Hundreds of hints and helps that will make it valuable in any poultryman's library. There is a scientific discussion on the development of the chick in the shell which a well-known poultry authority says is the finest treatise on the subject ever written. The practical experiments our experts describe show the lines on which the most successful work can be done. It tells, too, the story of the Victor Incubators from the rough lumber to the finished machine, the points in construction, in finish, mechanical operation, and the little details which mean so much in the perfected machine. It tells you the reasons why you should have a Victor and how the Victor can make money for you. The best of it is that every word in the book is true. We tell just the facts, just what you would see if you came to our factory and saw the making of the machine.

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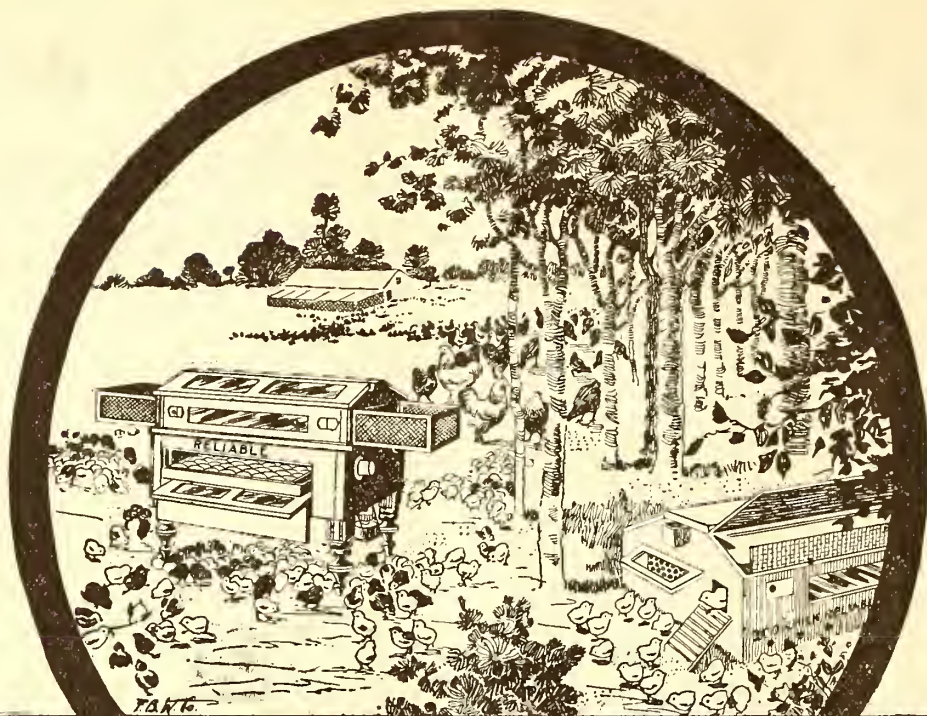
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### Keep the Fowls Healthy. Increase the Egg Yield. Make Fertile Eggs.

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We are headquarters for every poultry necessity, patent appliances, supplies, foods, remedies, etc. Get our Supply Catalogue. Free if you name this paper. Address nearest office.

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**SMITH'S SEALED LEG BANDS.**

were designed to insure positive identification of scored birds, and they do it. No lost bands. No duplicate numbers. Prices, post paid, 30c per 12; 25, 50c; 60, \$1; 100, \$1.50. Give sizes wanted. Sealers, plain, 50c; lettered, 65c; nickel plated, 75c. Samples and our leg band booklet for stamp.

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if they don't lay in winter when eggs bring good money. It's not their fault but your misfortune that they can't scratch up egg making food. But you can help out. Turn their good will to account by feeding the egg producing mash,

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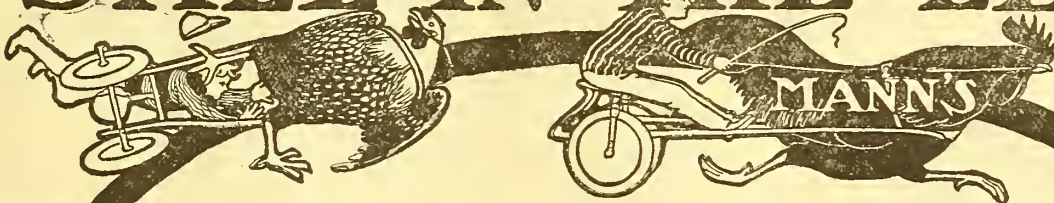
It exactly meets winter and cold weather needs. Poultrymen agree that no other food known produces so many eggs at slight cost in winter months. Price, 100 lb. bag \$2.25, 50 lb. bag \$1.30, f.o.b. Chicago, cash with order.

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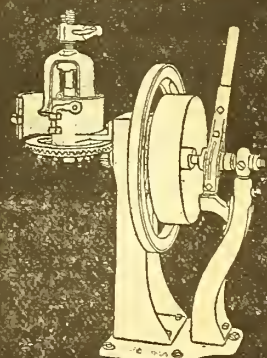
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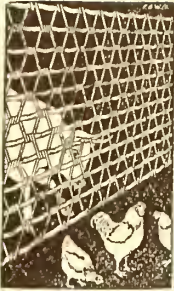
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Many styles and heights, made of High Carbon Coiled Spring Steel Wire, heavily galvanized. REGULATES ITSELF.

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Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.

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Fence, that will turn all kinds of large stock as well, is seldom found. We have it. Send for our Catalogue. It's free. COILED SPRING FENCE CO. Box 222 Winchester, Indiana.

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It works right and we know it. We let you try before you buy so you'll know it. Ask for our on trial plan. No obligation if you should not think well of it.

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He won't send you a machine-made letter. His letters are like

**Old Trusty Incubators**

They are made in his own shop. The Old Trusty is sent anywhere on 30 days trial. California red wood cases, 3 walls, 2 dead air spaces, an automatic direct acting regulator that comes already attached and connected, governs the temperature under all circumstances. Great \$10 Special Offer on 120 egg size this year, other sizes in proportion. Write for the

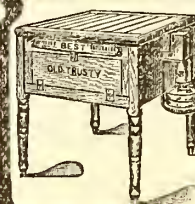
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prepared by Johnson, and it is the effort of his life. Tells all about his new machine and what it will do. If you are a poultry raiser and run another kind of incubator, write for this book anyway. It has Johnson's record system of keeping books on the hen and also on incubation. Also plenty of

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**FOR THE LAST FOURTEEN YEARS BARRED PLYMOUTH ROCKS WE BRED AND RAISED.**

HAVE WON AT NEW YORK SHOWS AS FOLLOWS:

- (1)  MORE FIRST PRIZES than any other exhibitor has won on Any Stock.
- (2)  More FIRST Prizes on Exhibition Pens than any other exhibitor has won.
- (3)  Nearly DOUBLE the number of FIRST PRIZES on COCKS and COCKERELS of any other exhibitor.
- (4)  And THREE TIMES the number of FIRST PRIZES on MALES that any other exhibitor has won on stock not our breeding.

ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS.

No less than Thirty-five Winning Males at New York Shows, Singly or at Head of Pen, have been bred by us from our "Grandson's Brother" line and its near relatives.

OUR LAST SEASON'S PRODUCT were Winners at the Largest Shows held in this Country, also in England. \$250.00 was refused by two customers for a cockerel and Pullet hatched from eggs we Sold.

THE HIGHEST PRICE EVER GIVEN in this Country, to our knowledge, for a Barred Plymouth Rock was received for a "Lee Belle" female, Bred and Raised by us

AT NEW YORK SHOW, 1902, Our last exhibit—in a class of 223 of the Best America Prizes and All the special Prizes except one, including All Silver Cups, Gold Special, and Silver Medal.

THREE of the FOUR HIGHEST PRIZES on COCKS and COCKERELS were won by birds from our "Grandson's Brother" lines, and our First and Second Prize Pullets, Judge Scudder, who has placed the awards on Rocks at nearly every New York Show for fourteen years, stated, were the Highest Scoring of any he ever judged in the Garden.

We won Four of the Five Cockerel Prizes; Four of the Five Pullet Prizes; Four Prizes on Fowls, and Three of the Five on Exhibition Pens—1st, 2d and 4th.

ALL OUR TWENTY-SEVEN WINNERS were from our own yards except two; one of these was hatched from our eggs direct—the other, a fourth place bird, was bred from our stock.

SHOW BIRDS, as heretofore, suitable for any competition. Also a grand lot of medium priced exhibition birds—hot ones for the money. For sale—carefully mated Breeding Yards of Five Birds, mated for either Light, Medium, or Dark Progeny as desired, \$20 and up. Special Prices on Poultry in Large Numbers. Send for the new edition of "America's Best—Illustrated," giving 22 pictures of Recent New York Winners, also for pamphlet, "What Our Hatching Eggs Produced for Our Customers Last Season"—Both sent free if you mention Poultry Keeper.

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A "GRANDSON'S BROTHER" MALE, sired by a son of "Grandson's Brother 5th", for which \$100 was refused as a cock. The bird in the cut is the sire of more First National Winning Cockerels than any other male living.



# CYPHERS GENUINE PATENTED INCUBATORS



## More Chicks and Ducklings

that live, grow and are marketed, are now hatched and brooded in Cyphers machines every season than in all other makes combined.

## That Should Mean Something to You.

### What They Say:

#### Hatched 38,182 Ducks.

"We are now operating 68 of your No. 3 incubators. This fact alone is the best evidence we can offer regarding our high opinion of your make of machines. Simplicity in handling, together with other good qualities make it the most desirable incubator on the market to-day. We find the regulator on your machine to be sensitive and reliable. We have hatched the past season 38,182 ducks. We made one hatch of 248 ducks out of 275 eggs put in the incubator, showing wonderful fertility and a practically perfect hatcher."—Oxford Poultry Farm, Oxford, Pa., Sept. 5, 1902.

#### Better Than Five Others.

"I have found that the Cyphers Incubators come up to all the claims made for them, being absolutely self-regulating, self-ventilating and requiring no supplied moisture. For ease of operation and results obtained, they certainly stand alone. The results obtained from your incubators are so much more satisfactory than those obtained from five others I have been operating that I intend to use yours exclusively in the future."—David Beidler, Prop. Emma B. Poultry Farm, Gurnee, Ill., Aug. 28, 1903.

#### Discarded Others.

"We take pleasure in stating that the Cyphers continue to give us entire satisfaction. We have tried other makes of incubators and have discarded them all in favor of the Cyphers, which we now use exclusively."—North Shore Poultry Farm, M. R. Babcock, Pres., Glenview, Ill., Nov. 1, 1902.

#### The Best in Existence.

"The Cyphers Incubator is the best in existence. We use no other make of incubator and experience no trouble in hatching large percentages of our eggs."—Lakewood Farm Co., Burrsville, Ocean Co., N. J., Aug. 1, 1903.

#### The Cyphers Guarantee.

The Cyphers Incubator will hatch a larger percentage of eggs, produce more and healthier chicks, requires less oil and attention, causes less trouble and will give better satisfaction than any other make of incubator, or you get your money back.

### What It Means:

It means simply this: A majority of the big poultry plants—the broiler and roaster farms, were practically failures before the Cyphers was invented, and placed on sale. Since the Cyphers arrived, however, the big market poultry men have, one by one, adopted this patent-diaphragm, non-moisture, self-regulating, self-ventilating, automatic machine, and they now are

## Getting Results

at a profit to themselves. The Cyphers Incubators are used exclusively on hundreds of the big farms, hatching all the way from a few hundred to forty, fifty and sixty thousand chicks and ducklings on each farm in one season.

## IT MEANS

that the Cyphers Incubator is simple, thoroughly reliable and strictly automatic in operation or this could not be accomplished. These men know what they are about. They buy the machine that does the business for them—that will do the business for you. Complete catalogue for 1904 free if you name this paper. Address nearest office.

**Cyphers Incubator Company,**  
Buffalo, N. Y.

Chicago, Ill. New York, N. Y. Boston, Mass.

### What They Say:

#### Hatched Every Fertile Egg.

"We have found the Cyphers Incubators to be everything you claim for them. They are well built, perfect in regulation, easy to operate and the most successful hatcher on the market today. We took 243 ducks out of one of your machines this morning, every fertile egg having hatched."—Weher Bros., Wrentham, Mass., March 2, 1903.

#### Cyphers Superior.

"We have just finished another successful season with your machines, and have still further demonstrated their superiority over the four other makes we are using. We gave these other machines each better attention than we did the Cyphers, but could not get as good results."—Millville Poultry Farm Co., M. F. Delano, Pres., Millville, N. J., Aug. 7, 1903.

#### A Thousand a Week.

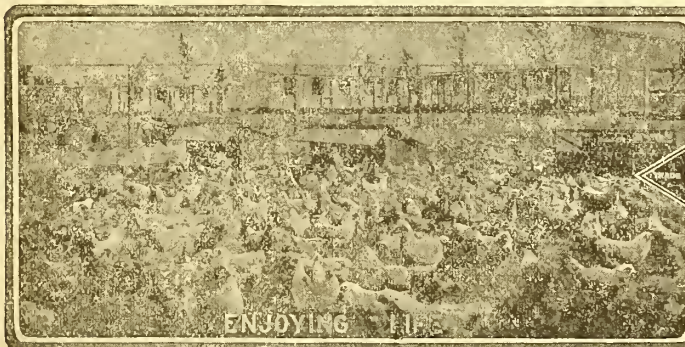
"I have a number of makes of incubators but prefer yours. Although the eggs this season have been poorly fertilized, your incubators have hatched regularly about 80% of all fertile eggs. I am now hatching over 1,000 chicks every week in addition to a fair share of ducks."—Mary S. Fleming, Prop. of Feathered Fairies Poultry Farm, Steelmanville, N. J., June 30, 1902.

#### The Best Proof.

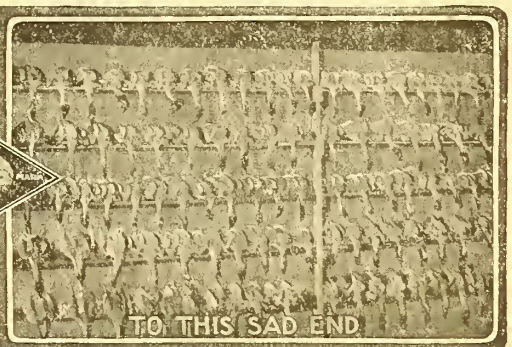
"The best proof of the workings of your machines are the results we have obtained from them. We have six No. 3 and one No. 1 Cyphers Incubators, and from the seven machines hatched 3,468 chickens last season. Our neighborhood chicken friends said "that is all right, but you cannot do it again," to which we reply that to date we have 2,585 chickens hatched and our mortality is even less than last season thus far."—H. G. Jordan, Prop. Jordan Poultry Farm, Hingham, Mass., Dec. 22, 1902.

#### Poultrymen's Necessities.

Ask for separate supply catalogue, describing Cyphers Patent Poultry Appliances, Balanced-Ration Foods, Sealed-hag Clover Products, Standard Remedies, Insecticides, Practical Poultry Books, and General Poultry Supplies.  
*Guaranteed Standard.*



ENJOYING LIFE



TO THIS SAD END







**WILSON'S**  
**New Green Bone, Shell and Vegetable Cutter for the Poultryman.**  
 Also Bone Mills for making phosphate and fertilizer at small cost for the farmer. From 1 to 40 horse-power. Farm Feed Mills grind fine, fast and easy. Send for circulars.  
**WILSON BROS., Sole Mfgs., Easton, Pa.**

**Keep Them At It.**

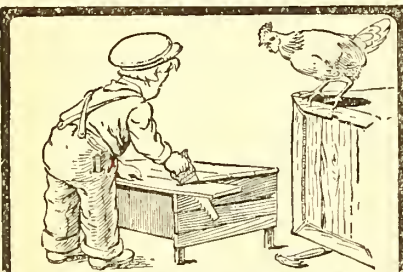
The hens that are properly fed and stimulated will be laying long after their poorly kept neighbors have "laid out," become broody and gone to batching.



**PRUSSIAN POULTRY FOOD**

makes hens lay longer and keep in better condition. Makes eggs strong in vitality that hatch healthy chicks. Makes chicks grow faster and makes an early layer of the pullet. Keeps off all forms of cholera and other poultry diseases, being a medicated food. Price 25 and 50c. See ad elsewhere in this paper about Prussian Lice Powder and Prussian Lice Killer. Ask your dealer or write us direct.  
**PRUSSIAN REMEDY CO., ST. PAUL, MINN.**

AGENTS: Portland Seed Co., Portland, Oreg.  
 Vaughn Seed Store, Chicago, Ill.  
 J. W. Wilder & Co., Cincinnati, Ohio



**The Hen Kicked!**

"It's a mighty little man that would waste my good eggs in a patent hot box when I can hatch so much larger and better brood with the

**NATURAL HEN INCUBATOR"**

The hen was right. You had better keep close to her ways. It's the cheap, sure way. A 200 egg Natural Hen costs only \$3. Other sizes just as low. Ask us about Nature's hatcher. Makes easy work of poultry raising. Not another such a ready seller for agents. Catalog and 25c Lico Formula Free. Write today.

**NATURAL HEN INCUBATOR CO.,**  
 Box B-1, Columbus, Neb.

**Standard Poultry Food**

I have a Poultry Food which good poultry raisers say is the greatest thing they ever heard of for producing eggs, promoting growth and keeping cock, hen and chick in a vigorous, healthy, money-making condition. It's the poultry food with sense in it. It contains the most needed elements from which eggs are produced. Vitalizing and nutritious. Cheaper by half than the common-run of poultry foods and so good that price is no object. 4 pound box 25c. Send your name for our great \$2 offer and agency proposition.

**F. E. SANBORN, President.**  
**THE F. E. SANBORN CO.,**

1505 Haward St. Omaha, Neb.

Used and endorsed by Mrs. A. H. Hansel, Loup City, Neb. Leader in the Great Australian Laying Contest.



**"NEW UNIVERSAL" LINE OF GARDEN TOOLS**

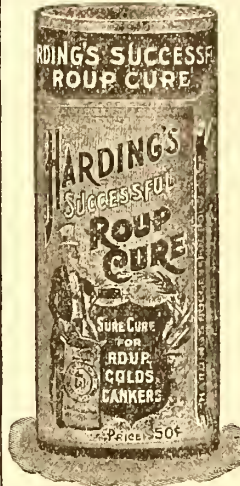
**6 STYLES SEEDERS** Double or Single Wheel Hoe, **6 Tools in 1.**

Opens furrow, drops in plain sight, covers, marks. Models of Accuracy. Cultivator, Plow, Rake. Changes quickly made. Cultivate between or astride the rows. Any depth, any width. Combined seeder, marker, hoe, rake, plow, cultivator. Single or double wheel. Every adjustment easily made. For planting and all kinds of cultivation.

**Wheel Plows** with cultivator, rake and hoe attachments. For garden and poultry yards.

Note High Arch and Plant Guards. Bent Oak Handles on all Tools.

Details on full line tools in 1904 free catalogue. Write for it.  
**AMES PLOW COMPANY, 102 MARKET STREET, BOSTON, MASS.**



**HARDING'S EGG-BUILDER RATION**

Made of Beef Scraps, Granulated Grains, Seeds, Charcoal, etc. Fed dry. Always ready. Designed to force half-grown chicks and feed laying hens.  
 100 pound Bag \$2.25 50 pound Bag \$1.25. F.o.b. Binghamton, N.Y.

**HARDING'S EGG PRODUCER**

25 cents; by express 40 cents  
**SUCCESSFUL ROUP CURE**  
 50 cents post paid

**POSITIVE CHOLERA CURE**

25 cents; by mail 40 cents

**ANTISEPTIC LICE KILLER**

25 cents; by mail 40 cents

**HEAD LICE OINTMENT**

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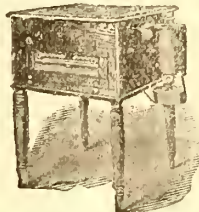
General distributors: Boston, Mass., Jos. Brock & Sons Corporation; New York, Excelsior Wire and Poultry Supply Co.; Chicago, W. J. Gibson & Co.; Toronto, Canada, C. J. Daniels.  
 Free booklet "How to Feed and Care for Little Chicks."

**Geo. L. Harding, Box 111,**

**Binghamton, N. Y.**

**CORNELL INCUBATORS HATCH HEALTHY CHICKS**

**"INCUBATOR ADVANCEMENT"**



**T**HE Cornell patented system of temperature regulation and perfected system of ventilation. The Cornell ventilates in Nature's way. Gets the proper moisture lines at the right time—in any locality—under all conditions—and at any season of the year. Result: Healthiest and most vigorous chicks ever obtained by artificial incubation. Cabinet construction, compound door, table top. Gold Medal, Highest Award at Buffalo Pan American Exposition.

**PEEP-'O-DAY BROODERS**

are used exclusively by the largest and most successful poultrymen. On the market ten years. Thousands of testimonials. Our very large, finely illustrated catalogue contains valuable information. Copy mailed free if you mention Poultry Keeper. Poultry and Pet Stock of all kinds.

ENSENORE, N. Y. R. F. D. August, 24th, 1903.

Cornell Incubator Mfg. Co., Ithaca, N. Y. Gentlemen:

It gives me pleasure to testify to the fact that operated two Cornell incubators this past season with marked success, hatching chickens from them numbering into the thousands. Hatches averaging from 75 per cent to 95 per cent of the fertile eggs used. Eggs being from ordinary stock. It would perhaps be of interest to you to know that I am deprived of my eyesight, operating your machines wholly myself. However, I do not attribute my success in hatching so much to my own skill, as I do to the use of the Cornell incubators being so simple in adjustment and automatic in operation.

A. E. BIGELOW.

NOTE:—Learning that Mr. Bigelow was totally blind, we asked him how he maintained an even temperature without being able to see the thermometer. He informed us that he followed the old Egyptian rule of placing the egg against the eye-lid to ascertain the proper temperature.

**Cornell Incubator Mfg. Co. Box 11, Ithaca, N. Y.**

**PEEP-'O-DAY BROODERS KEEP 'EM ALIVE AND MAKE 'EM GROW**



# THE CHAMPION INCUBATOR.

## A New Light on the Poultry Raiser's Horizon That Leads to Success.

The Champion Incubator is the embodiment of all the incubator goodness gained in an experience that extends over a period of thirteen years devoted to the manufacture of artificial poultry appliances. During this period we have devoted much time and thought to the subject of artificial hatching of eggs with the firm determination never to place an incubator on the market until we could do so with the perfect knowledge that

**WE HAD PERFECTED ONE WHICH WOULD BE ABSOLUTELY THE BEST.**

We were also determined to do our own experimenting, not desiring our customers to do this for us as many market an incomplete or unsuccessful machine. We firmly believe that in **THE CHAMPION INCUBATOR** we have the most perfect and successful non-moisture, self-regulating hatcher ever offered to the public. With the advent of the **CHAMPION INCUBATOR**, we have opened a field of new opportunities in which failure will be almost impossible for the poultry raiser. We have designed **THE CHAMPION INCUBATOR** purposely to relieve the over taxed operators of many of the arduous duties imposed upon him by the common incubators. **THE CHAMPION INCUBATOR** is simple, perfect and successful, containing many improvements not found in others. It requires no added moisture, it has its own moisture producing chamber, a feature unknown to other makes. It is self regulating, safe and reliable. Our catalog will tell you more about this new triumph in the art of incubator manufacture. It is free for the asking.

## The Champion Brooder's Record is Still One of Glorious Successes.

Simply because it will do all we claim for it and in the hands of our customers it has performed much more than our claims. During the season of 1903 we have sold and shipped over 100 carloads of Champion Brooders which were distributed in every country under the sun. This enormous growth is the result of the universal satisfaction our Champion Brooder gives to every one everywhere. In the confidence and the trust of the poultry raisers of the world, it outranks all others. **IT** has no worthy rival at any price. They know it never fails to raise its flocks of chicks whether out doors or indoors, winter or summer. The weather, the climate or the location do not effect its good and steady work, it's built that way. One of them will bring success to any poultry raiser and instill confidence in the wavering breeder who has met with distressing experiences raising chickens in other ways. Why not get our large catalogue before you buy, it will tell you all about

The largest and best made brooder sold at our price.

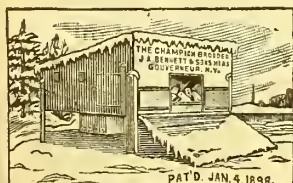
The safest from fire and failure, discouragement and losses.

The only one with a safety chamber, our safety valve, which prevents leg weakness, bowel disease, drooping wings, and all the ailments of chickenhood.

The only brooder with an **EASY CHICK FEEDER**, which teaches the chicks to eat and drink automatically.

The brooder which uses the least oil, that wears the longest, that gives perfect satisfaction and that cannot fail.

Send for our catalogue, it will tell you many other things, too, that are good for you to know about brooders before you buy. We are the largest manufacturers in the world.

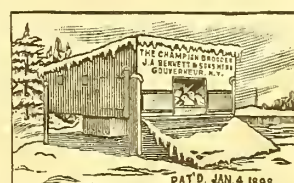


# J. A. BENNETT & SON,

GOUVERNEUR, N. Y.,

U. S. A.

Mention P. K.

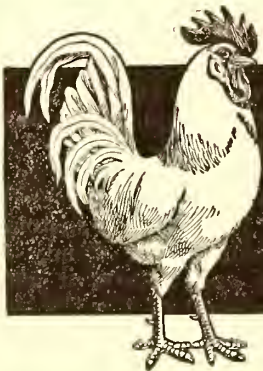




*"The way to make your Poultry pay"*

## Take A Course

with



## The Columbia School of Poultry Culture

Our success in teaching profitable poultry raising has been so phenomenal that we have decided to greatly extend our field of operation and add many additional departments to the course of instruction.

**On and after Jan. 1, 1904, the courses of study open to students will be as follows:**

*Course A, Poultry Culture.*

*Course B, Ducks and Geese.*

*Course C, Turkeys, Guinea Fowl, Pea Fowl and Pheasants.*

*Course D, Pigeons.*

*Course E, Poultry Culture in conjunction with Bee Culture.*

*Course F, Poultry Culture in conjunction with Horticulture.*

*Course G, Poultry Culture in conjunction with Dairying.*

**Our faculty which has been largely increased is composed of successful poultrymen, highly trained educators and experts.**

The courses are practical and helpful from the very beginning.

The lectures are profusely illustrated with cuts, charts, tables and architects' plans, etc.

The courses are personal, being specially arranged to suit the individual needs and conditions of each student and any one or any combination of them can be taken as desired.

### HERE ARE PROOFS OF SUCCESS.

1. All our pupils have made money since studying with us.
2. In many instances the entire cost of the course has been saved in the plans supplied for a single building.
3. The egg production of their fowls have increased, and the birds have been healthier, stronger and more prolific in every way.

In view of the fact that there is no article of food more in general demand than poultry and eggs, and that in spite of high prices prevailing, fresh eggs in autumn and early winter are practically unattainable, it is obvious that anyone who can supply reliable products will always be assured of a steady market and large profits.

**Write for handsome illustrated booklet with synopsis of the various courses. Send for it to-day—it's FREE.**

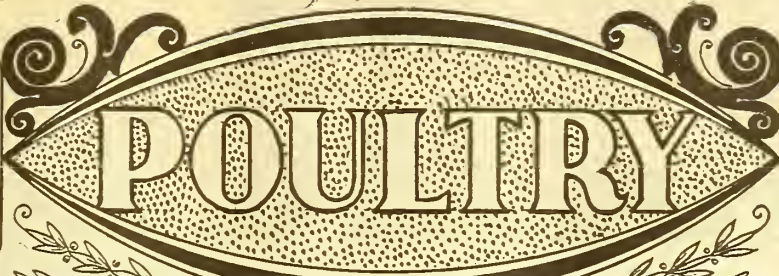
**The Columbia School of Poultry Culture,**

Box 640,

WATERVILLE, N. Y.



# THE



A JOURNAL FOR  
EVERYONE  
INTERESTED

# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, JANUARY 15, 1904.

No. 10.

## POULTRY CULTURE FOR PROFIT.

Story of the Commercial Success of the Biggest Establishment of Its Kind In The Country—Early Losses and Experiences—Description of the Plant, Its Birds and Housing Accommodations.

ON a sixty acre farm located at Waterville, New York, has been established during the past five years a standard-bred poultry plant, known as the White Leghorn Poultry Yards, the largest breeders of Single Comb White Leghorns in the world. Here the ideal type of profitable egg laying White Leghorn is produced by the thousands, and beside this strong characteristic (which is the first to be considered when returns are counted) the birds at the White Leghorn Poultry Yards are the kind that stand well up on their legs, have a high breast and long deep body, while their yellow legs, bright red combs and snow-white plumage make them a source of constant delight to anyone with an eye for beauty.

And they are equally strong in what is termed "fancy" requirements—showing that the real Leghorn is the type that wins in competition and excels in egg production. At the greatest shows of the country—Madison Square Garden, Pan-American Exhibition, New York State Fairs, and other exhibitions, birds from the White Leghorn Poultry Yards have won highest honors and won them, too, in the strongest classes ever brought together.

The buildings comprise three large brooder houses, each one hundred and twenty-five feet long, two laying houses, each five hundred feet long and six other laying houses varying in length from one hundred to two hundred feet. Thirty or more colony houses accommodate the young stock

during the summer. All the hatching and brooding are done by artificial means, the capacity being 10,200 chicks per season. When it is considered that every bird hatched here is from the best matings obtainable of Single Comb White Leghorns it will be seen that their immense capacity gives them thousands of fine specimens to meet the demands of the trade. They have stock for sale at all times, and at reasonable prices. They make a specialty of fitting out large farms, either with stock or eggs for hatching, small orders receiving equal care.

### Early Experiences.

Of course an establishment of this size, in order to be successful must be conducted on a systematic and business-like basis. Here is where the White Leghorn Poultry Yards have been especially fortunate, for the management of the plant has had that rare combination—capital and insight into the business requirements. In a recent issue of County Life, Mr. C. G. Brainard, the proprietor of the Yards, tells in an instructive and interesting manner, the story of their start and



A Group of Colony Houses at the White Leghorn Poultry Yards, Waterville, N. Y.





A bunch of promising Cockerels at the White Leghorn Poultry Yards.

progress. "The first year or two we had discouragement enough to cause most business men to give up the venture in disgust. We began to believe that there is a good deal of truth in the saying of the bankrupt poultryman that it is possible to figure out on paper a profit every time, but when it comes to actual experience it is like chasing gold in the rainbow. Our first season's experience was amusing. We estimated that, by purchasing so many incubators and buying so many eggs for hatching, by autumn we should have one thousand laying hens ready to produce eggs for us at the time when the price was sure to be high. On this assumption, we bought several incubators and three thousand eggs for hatching. We hired a local man, who thought he knew something about poultry, to operate the incubators and raise to maturity the one thousand or more chicks which we confidently expected.

#### First Season's Losses.

"But we were doomed to disappointment, for when the first of Oc-

tober came the only result of our summer's labor and the three thousand eggs we had put into our incubators was forty-five pullets. From the time the eggs were first put into the incubators until we took the inventory of forty-five pullets in the fall, we had nothing but a succession of disappointments—infertile eggs, small hatches and young chicks dying right and left from no apparent cause.

"Instead, however, of being discouraged, we concluded that there must be some way of successfully raising to maturity a large number of fowls, if we only knew the right way to go at it. The trouble undoubtedly was with our inexperience, and we therefore wrote to various agricultural colleges throughout the United States, and finally secured, as superintendent for our farm, a young man who had been on the experimental staff of the poultry department of the Cornell University Experiment Station. This step proved to be our salvation from a financial point of view. The following spring, after our new superintendent came, instead of having to buy

eggs for our incubators, we were able to produce them from our own flock, and had besides a large number for sale.

#### Some Convincing Experiments.

"For the past two seasons we have been conducting on our farm some interesting experiments on the food-cost of winter eggs. These experiments have been carried on under the direct supervision of Cornell Experiment Station, the results of which are published in their Bulletin 204, under date of July, 1902. In estimating the profit, the price of eggs was figured at the market price each week, and even at these prices (which are lower than can be obtained if one has a fancy retail trade to sell to), the records show a profit of sixty-five dollars per hundred fowls over and above the cost of feed for the three months from January to March, inclusive. The reader will notice that it cost us only eleven and a fraction cents per dozen to produce our eggs. These eggs we actually sold to a private retail trade at forty cents per dozen; but, as we explained above, for the purpose of this experiment, they were figured only at the regular market price. In fact, the actual profit on this flock was nearly twice as much as given in the Bulletin. We have established a private trade for strictly fresh table eggs. During the winter our customers are mostly in New York City, and in the summer they are in the resorts and private lodges of the Adirondacks.

#### The Buildings Required.

"The necessary buildings on a modern poultry farm are an incubator-house, brooding-houses, colony-houses and laying-houses. Then, according to the size of the plant and the



One of the laying houses at the White Leghorn Poultry Yards, Waterville, N. Y. Building is two hundred and fifty feet long by sixteen feet wide and accommodates five hundred layers.





A sixty acre farm amply supplied with colony houses, some thirty or more in number, secures an unequalled free range for the young stock at the White Leghorn Poultry Yards, Waterville, N. Y.

amount of business done, should be added a workshop, office and proper facilities for feed, litter and the like.

"The theoretical requirement for an incubator-house, or, perhaps more strictly speaking, incubator-cellar, is that it should be mostly underground. An excavation is made three feet deep. The floor is grouted and finished on top with a dressing of cement. The walls are of brick, laid up to a height of five feet, above which is two feet of wooden siding, making the height of the room seven feet. In the wooden siding are enough windows to furnish sufficient light. Against the two feet of exposed brickwork on the outside is banked earth, with a gentle slope. Above the cellar the workshop could be located to advantage by merely extending the sides another six or eight feet higher and laying a floor two feet above the brick wall. The incubator-cellar should be located on rather high dry ground,

**Brooding Facilities for Large Numbers**

"The next consideration is proper brooding facilities. This is accomplished either by means of small portable brooders heated with lamps, or by means of a specially constructed building, properly piped and fitted with a hot-water heating apparatus. The latter method is the more economical on large farms where the young chicks can be counted by the thousands. For instance, twelve hundred chickens can be successfully brooded in a building such as is shown in the view of brooder house herewith

shown, the dimensions of which are sixteen by one hundred and twenty-five feet. A system of pipes is seen to extend around the interior of the building, about three feet from the floor. This is for use in extreme cold weather. Such a house as this can be used in fall and winter as an exhibition cockerel house, thus saving the extra expense of a special building for this purpose, which is needed on large establishments that seek to combine the fancier's and the commercial point of view.

(Continued on Page 431.)



Interior View of Pen.

naturally protected from too severe winds and with slope enough to insure good drainage. A moist, pure air and an even temperature are the objects chiefly sought for in an incubator building, and these conditions are best obtained in a building constructed on the general outlines just described.



Interior View of one of the Brooder Houses, White Leghorn Poultry Yards, Waterville, N. Y.



## A PRACTICAL HOME MADE BROODER.

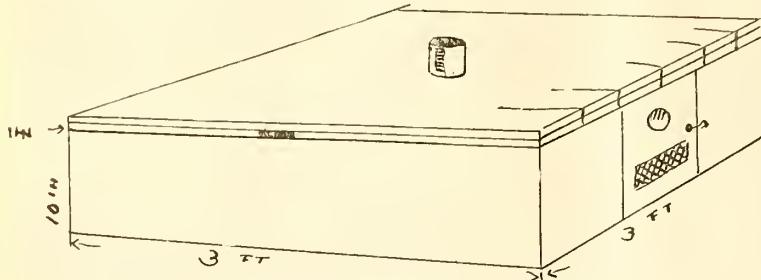
DR. N. W. SANBORN, Bellingham, Mass.

**T**HERE have been many inquiries from Poultry Keeper readers for plans for making a good brooder. Whether it is good judgment to make your own brooders I am not sure, but this I know, that this brooder gives good results and costs little money for material. In my own town

he can get it for you. Do not try to use a smaller size and thus reduce the size of the brooder chamber, it will not work satisfactory.

### Putting Parts Together.

Illustration I shows the heater box of the brooder. This is to be built



The Sanborn Brooder, Fig. I.

are men who are using this style of brooder, and who have depended upon it for ten years with satisfactory results. I first made this style of brooder thirteen years ago, have always liked it, and present these plans to Poultry Keeper as worth following by those of its subscribers who have time and not much money.

While for convenience I am going to name this brooder, the "Sanborn," it must be understood that the ideas incorporated in its make-up have been published years ago, and are not original with me. This is not a hot water brooder, neither does it have any tank. It depends upon hot air, is warmed by a brooder stove, and should be placed in a small house that can be tightly closed in cold weather.

### Metal Parts and Wood Needed.

In the making of this brooder, it is important to buy first the metal parts and the boards needed to complete it. You need a brooder stove. This can be had at poultry supply stores for one to two dollars, depending upon the quality of the material it is made of. Better avoid a tin stove. Brass and cast iron give more lasting results and are not constantly springing a leak. Most of these stoves have a water pan at the top of the oil vessel to keep the oil at a lower temperature. These stoves should have a wick of one and one-half inches to furnish heat in cold nights, and ought not to have any glass in the make-up. The height of the stove makes a difference in the height of the heater chamber, as there needs to be just one inch between the top of the stove and the sheet iron that makes the upper part of the "furnace."

Besides the brooder stove you will need a sheet of iron that is three feet square. This is the material that is used for stoves and stovepipe. Get the size stated in one piece. Do not have it made of smaller pieces. If your stove man has not this in stock

first. The boards that go to make the sides of this should be the right width to be used without piecing. If the brooder stove you have bought is eight inches high you will need boards ten inches wide. These boards should in all cases be two inches wider than the stove is high. Saw the boards, two of them, three feet long, and two more thirty-four inches long. When nailed together, as in the illustration, you will have a box, without top or bottom, that is three by three feet on the outside. Then lay the sheet iron upon the top of the box and it will exactly cover it. Nail it securely to the box, thus making the top of your heater chamber. This will cut off all lamp fumes and bad air of the brooder stove.

Now, over the top of this sheet iron we are to build a hot air chamber that is one inch high and extending over the entire surface. To do this, nail to the top of the sheet iron, over the wood of the box and into it, a strip of wood that is one inch wide and thick. This strip must not be unbroken. There must be some air holes, as through these the air is to enter to be warmed before passing into the chick chamber. At the center of each side leave a space of one inch, as you will find indicated in Illustration II.

The floor of the brooder is nailed to these inch strips just referred to. This

floor is made of matched boards, narrow rather than wide, well seasoned to avoid cracks when dry, and covers the entire top of the brooder box that we have described. This floor should be well nailed, to hold in the hot air that will be under it, and is to have a two inch opening in its center, to allow the warmed air to get up into the chick chamber.

To keep the chicks and scratching material out of the hot air chamber you must plan to protect this opening in the brooder floor. To do this you can use a tomato can, a cocoa box, or have your stove-man make a round box of tin or iron that is four inches in diameter. Whatever you use, it is to be securely nailed to the floor of the brooder to keep out dust, is to have an opening in the bottom the same size as that in the board floor, is to be five inches high from the bottom to its top edge, and is to have a row of small holes near the top edge to allow the escape of the hot air into the chick chamber. If there is no cover to this metal part of the brooder you can fit in a little wire netting to catch stray waste and prevent its checking the free flow of hot air.

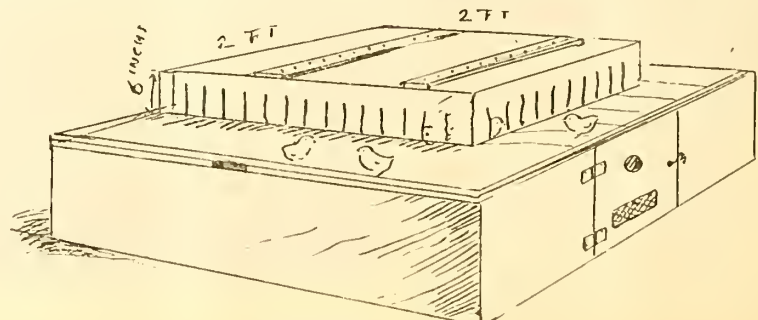
You have now the heating part all made but there is no enclosed room to securely "mother" the chicks. This "mother" is shown in our Illustration II. It is a table, two feet square, with legs six inches long, with the sides covered with slit felt. Make it of well-seasoned matched boards, inch boards preferred, with two cleats on top as shown in illustration. The cloth sides should drop nearly to the brooder floor, are cut in strips of two inches to allow the easy passing of the chicks, and will give best results if put on two layers thick. The warm air should be retained, yet the chicks be allowed to pass in and out. Cloth from an old overcoat makes good material for this part of the brooder.

### The Finishing Work.

Now you are ready to complete the lower part of the brooder. There is to be a lamp door to the hot chamber. Saw out of one side so as to give one inch extra width and height to the doorway, that the stove may be put in without rubbing. Make a "peep hole" in the center of the door, two inches across, and near the bottom an opening one by six inches to admit fresh air to feed the lamp. If the lower opening is found to be sufficient you can put mica or glass over the "peep hole," and save heat.

### Now Ready to Run.

For warm weather this brooder is now ready to run, but for winter and



The Sanborn Brooder. Fig. II.



## A WELL-EQUIPPED POULTRY PLANT.

A 116-Acre Farm in Illinois with \$4,000 Worth of Buildings and Apparatus Devoted to Poultry.

### Houses—Stock—Feeding and Care of Birds.

W. E. STILSON, Sunnyside Poultry Farm, Coldbrook, Ill.

early spring there must be more protection to the chicks. This addition is given you in Illustration III. The brooder floor is covered by a closed box, three feet square and twelve inches high. This holds in the warm air of the brooder and shuts off all breeze. In front of this top is to be a door six inches square for the passing of the chicks from brooder to the floor of the room in which the brooder is placed. This door can be of wood or tin, but a slide of glass works well and adds light to the outer chamber of the brooder.

In two other sides of the brooder put windows of glass, say six by ten inches, having them slide to one side to admit air during the day and cover the opening with inch wire netting. These sliding windows can be left open according to the temperature of the room, day or night. There needs to be some outlet to the brooder to allow the warm air to properly circulate through it.

You notice that the chick door is nearly a foot above the bottom of the complete brooder. This calls for one of two things; either the brooder must be sunk in the chaff of the house floor, or a "runway" must be provided from the doorway to the floor. A board six inches wide, with an edge strip nailed to it, and eighteen inches long, can be fastened to the side of the brooder, making an inclined walk for the chicks. All wood work can be painted and will last longer if so treated.

#### The Chick Capacity.

This brooder calls for thirty-six square feet of house floor room for fifty chicks. This number of chicks is as large as should ever be put in one flock. To increase the number is to invite failure.

A good thermometer is needed, at least until you have become used to running this brooder. It can be placed in the mother-chamber, three inches from the fringe, and one inch above the floor, and should have stood at 90 degrees for two days before putting a chick in the brooder.

#### Putting in the Chicks.

With our brooder completed, placed in a sunny room, with provision for closing at night, how shall we proceed? The brooder stove should be nearly filled with a good quality of kerosene oil. It is then to be pushed into the

(Continued on Page 428.)

A BRIEF description of the Sunnyside Poultry Farm, which is located at Coldbrook, Ill., will no doubt be interesting and possibly beneficial to those who are engaged in or who contemplate engaging in the poultry business. The farm consists of one hundred and sixteen acres of land, ideally located for poultry, in as much as the ground is slightly rolling, and affords the best of drain-

wheat, two of buckwheat, thirty of corn, and five for second crop clover, besides different lots of beets, cabbage, onions and turnips. In fact any and every vegetable which will be of a beneficial nature to growing and maturing poultry is raised here. And here we wish to emphasize the fact, that in our experience sugar, or mangle wurzel beets, are among the best vegetables that can be grown. No matter how large nor how small a



Flock of Wild Mallard Ducks on the Pond at Sunnyside Poultry Farm, Coldbrook, Ill.

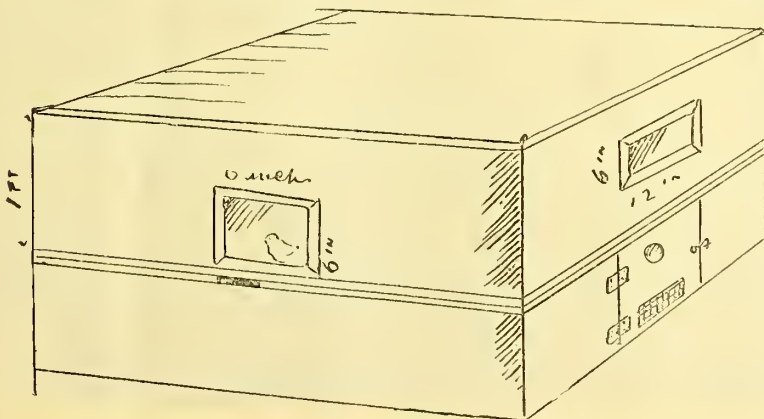
age, a feature which all who follow up this line of business will appreciate.

While all of the land is not given to poultry, the major portion not occupied by buildings and attendant runs, is devoted to raising feed for the fowls. As an example, there were raised every year fifteen acres of

tract of land you have, by all means raise these vegetables. The mangle wurzel grows to an enormous size and any ordinary garden bed will raise a wagon load, which can be stored away and which will keep well until the grass is green.

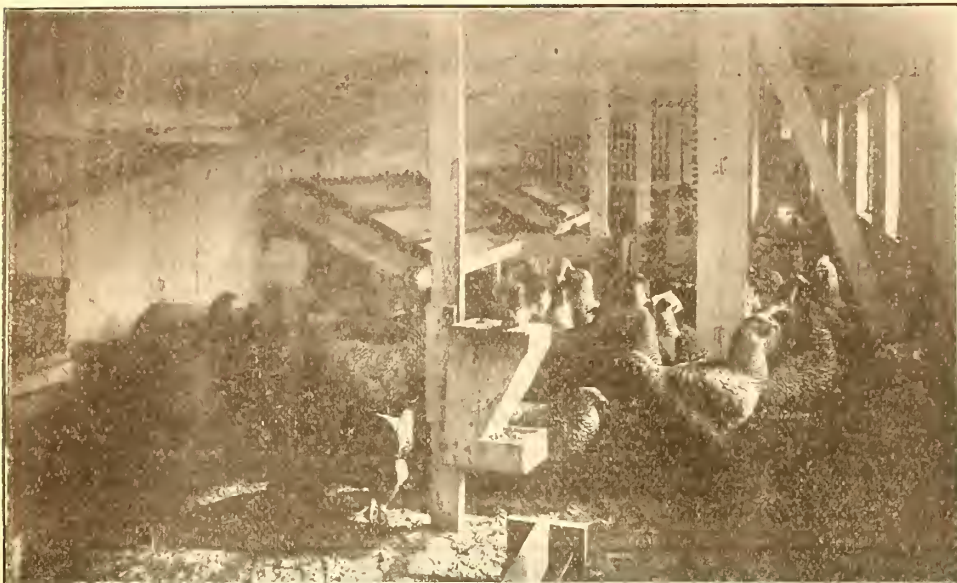
#### Style and Arrangement of Houses.

The houses which we have, and of which a half tone is here given, are made to face the south, and are 12x40 in size, sided with ship lap on the outside, inside of which is a layer of tarred felt, a 4 inch air space, and then ceiled inside with ship lap. This makes an exceedingly warm house, and while water will freeze in cold weather, we have never as yet had a frozen comb. By referring to the half tone the reader will notice that the roosts are hinged at the back, and roosts and dropping boards are raised during the day time, which gives the fowls the entire room in which to work. This is, in our estimation, as good as a scratching shed, while we have these in connection with the house but usually use them for some other purpose.



The Sanborn Brooder, Fig. III.





House for Barred Plymouth Rocks at the Sunnyside Poultry Farm, Coldbrook, Ill.

#### Nests and Roosts.

The nests are directly beneath the roosts, and it will readily be seen that, as cleanliness is next to godliness, the nests cannot be used until the droppings are cleaned off in the morning. At this season of the year the houses are deeply littered with straw, and the fowls have to work for their food. In this connection we will say that the houses are thoroughly white-washed once, and if time permits, twice a year, and the roosts are painted with a lice killer every ten days. While this means work, still to be successful in business hard work must be done, and more especially in the poultry business than in any other that we know of. Not that we mean hard, manual labor, but a system of detail that must be carried day in and day out.

#### Incubating and Brooding Capacity.

Our building in which the incubating is done is 14x22, the upper portion devoted to a shop, feed room, etc., the cellar given up entirely to incubating. Four of our machines have a capacity of five hundred and sixty eggs each, and the fifth two hundred, making a total hatching capacity of nearly twenty-five hundred eggs every twenty-one days. The machines have given us very little trouble, regulating to a nicety, and have as a general rule hatched satisfactorily. The brooding house of which a half tone is given, is a building 20x50 feet in size and is divided into twelve compartments. In six of these individual brooders are used, while in the other six the hot water piping system is installed. The building is comparatively cool in summer, and warm in winter, and is so arranged that all runs, brooders, etc., are easy of access.

#### A Complete Equipment.

A plant of this description necessarily requires a great deal of feed, and to save time and labor we have installed a gasoline engine. This runs the corn sheller, bone grinder, feed grinder, and clover cutter. In addition to which there is a two horse power steam boiler, which is kept con-

stantly hot in cold weather by means of which water is warmed, vegetables cooked, the mashes made and drinking fountains scalded out. In summing up the matter will say, that the buildings, machinery and apparatus which we use represent an outlay of between three and four thousand dollars, exclusive of the land.

#### Barred Rocks a Specialty.

Realizing that a person who devotes his entire time and attention to one breed—in other words, a specialist—is better prepared to make a success than one who has many different types to look after, we have confined ourselves exclusively to the Barred Plymouth Rocks, which in our judgment is the ideal American bird, everything taken into consideration. We have taken care that our matings shall be as nearly perfect as possible and we have always endeavored to please our customers. We always want them to let us know of any dissatisfaction in

order that we may right it. This we have found is one of the main secrets of success.

#### Foods and Feeding.

To many poultrymen the question of feed—what kind, how much to feed, has been a most vexing problem. Nearly everyone has a different formula for feeding but we will give our system, and while it may not be highly successful for others it has brought the winter eggs for us. And here permit me to say that the extravagant diet which a person could furnish for a flock of a dozen hens would be highly unpracticable for a flock of four hundred, as a maximum amount of output must be obtained from a minimum amount of money paid for feed. We have never yet been able to feed on the minute, nor to give the exact ration from day to day as some writers say they do, in fact we believe that a change from day to day is highly beneficial, for we believe that the same thing every day cloy the appetite.

#### Feeding for Winter Eggs.

What we aim to do is to furnish as nearly as possible a diet that is near to nature, to give in winter such food as they would pick up in summer. To this end we use clover, vegetables, beef scraps, granulated bone, meat, meal and oyster shell. Every pen is supplied with two grit boxes and the fowls have constantly before them oyster shells, bone and grit. Our morning feed usually consists of grain, whole oats, whole meat or cracked corn. Enough is given to make them work well until noon, then possibly cabbage heads or beets are thrown in and they can eat as much or as little as they like.

#### The Mash and Its Parts.

In the late afternoon we feed the mash which usually consists of the following combination: ten pounds oats, twelve pounds rye; twenty-five pounds wheat, fifteen pounds bran, ten pounds clover, twenty pounds malt sprouts, twenty-five pounds

(Continued on Page 424.)



Interior of Brooding House, Sunnyside Poultry Farm Coldbrook, Ill.



## VENTILATING ARRANGEMENT TO PREVENT FROST.

### A Practical Test of Ventilating Plan Used In Dairy Barns as Applied To Poultry Buildings—Details of the Arrangement. Something About Floors For Poultry Houses.

FRANCES E. WHEELER, Clovernook, Chazy, N. Y.

FROM our first experience in poultry keeping at Clovernook there have always been terrible winters with frost and dampness collecting on the walls and ceilings where the fowls were confined. At first I thought it due to excessive cold, but when the buildings were made warm and tight the trouble still existed. Every few days we had to build fires and "dry out," and the atmosphere in the rooms was noticeably heavy and foul.

Finally, at a Farmer's Institute, a gentleman had a model of a barn with a ventilating arrangement built after Prof. King's theory on ventilation as applied to the dairy.

Among other arguments in favor of improved ventilation for cattle, he reminded us of the necessity of oxygen as a life sustainer, a heat producer, and an engine for digestion; mentioning that as, when at rest, a man consumes 1627 cubic inches of oxygen per hour and during the work of digestion 57 per cent more, it stands to reason that cattle must, if kept at their best, be supplied with the same proportionate amount, and that in such quantities as will not chill or lower their temperature. As they throw off an immense amount of heat, it should be utilized for their comfort.

His plan is to draw off the foul and admit the fresh air in such "balanced rations" as will secure the finest results in health, heat and digestion; claiming for his method that where ventilation is properly controlled the above conditions will exist and a temperature of sixty degrees maintained day in and day out in stables where the outdoor atmospheric

conditions are zero or under.

Of course the theory applies as well to poultry as to cattle and we cannot do better than follow along the lines our dairy farmers, with infinite patience and at great expense, have proven most satisfactory.

Our ducks stand on the floor and the exhausted air is there thrown out from their lungs; consequently at that point it should be drawn off. In the center of my twelve by twenty-four house we have a one foot square wooden shaft, like a chimney, extending through the roof, about two feet, and down into the room to within a foot of the floor. It has a cap on top and a slide at the bottom; this last to adjust the draft and regulate ventilation.

This shaft takes care of the bad air; and four two inch tin pipes, one at each corner of the room, give the fresh air needed to produce a good draft up the shaft and supply a steady flow of fresh air, and just enough of it. These four pipes are tin, and fit tight, and are inserted about twelve inches from the floor; the inflow is ten inches long to the elbow and the upflow pipe is fastened to the inside wall and runs up to within about six inches of the ceiling. It is all a very simple affair, but up to this date works beautifully. When we "open out" in the bitterest cold mornings, the room is dry, the air sweet and the temperature well above 38 degrees or "chilling point." We may require more fresh air than our four pipes (two inch) admit and three of four inch with dampers would, I think, have been safer. Later on shall experiment with thermometer and so on, and if results justify, will report same to those interested in ventilation.

For those who did not read a description of this building in the November Poultry Keeper, will say that the frame is two by four scantling, over which is laid, top, bottom and sides, Swan's Extra Heavy Felt. Over this on the floor and sides are undressed hemlock boards. On the floor is another platform of scantling and over that, tongued and grooved hemlock. The same timber lines the sides and ceiling. The outside is covered with another layer of the Extra Heavy Felt, which is coated and sanded. The building is four and a half by seven and a half feet high.

The doors at each end are double, also a large shutter on the rear side and one at each end. Fronting the east are two good sized windows. All cracks are calked and the house is made so the pipes and shaft completely control the ventilation and circulation of air. There should, I suppose, be two small windows opposite, about a foot square, near the ceiling that could be opened an hour or so at a time to let off any gases that might accumulate in very muggy weather; but it was so late in the season, my pocket book was getting so awfully flat, I thought "better let it go this time."

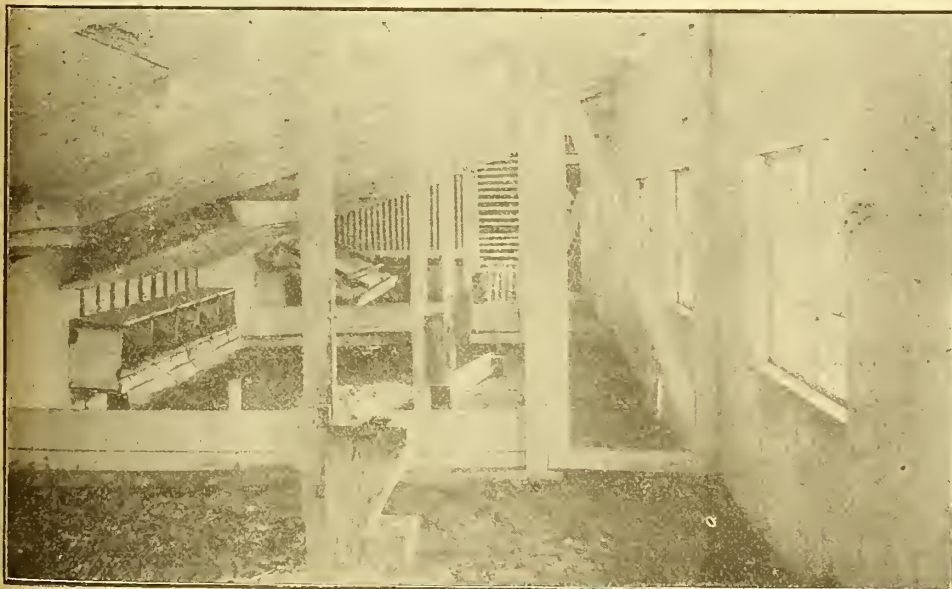
This house is built especially for my breeding flock and arranged in view of summer coolness, as well as winter warmth. With shutters and windows all open and wire netting protecting same, they should never suffer from the heat. The building is elevated from the ground so that my Fox terrier can hunt out the rats, and the first or base boards around the inside are fixed so they can be taken off and the partition examined for rats.

#### Formula for Cheap and Durable Cement Floors.

There is no doubt in my mind that a cement floor is a great protection from rats and similar enemies, and that it is, perhaps, warmer, especially if the walls are well constructed. Though the initial expense is somewhat higher in the long run it is cheaper, and where a man can use ingenuity and his own time he can build a good floor quite cheap, comparatively speaking. Mr. Seth Gordon, who is one of the most progressive dairy farmers in our section, and to whom I am indebted for many points in connection with ventilation, has given me the following receipt for a cheap and durable cement floor:

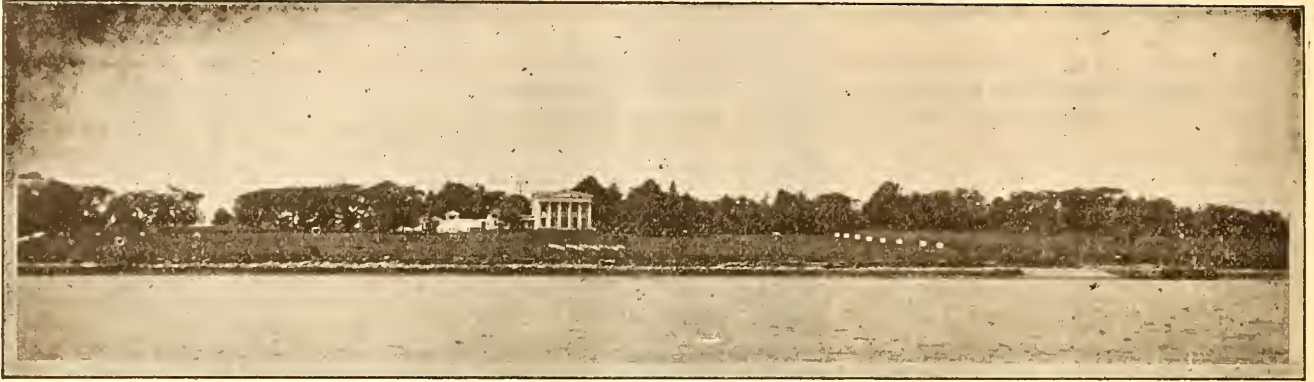
"We are about finishing a cement floor in a sixty by twenty-two foot building, where we winter hogs and hens. The foundation, some eight inches deep, is put down with pounded stone, covered with gravel, tamped down smooth with a post until all is rolled; then covered with a two inch thickness of cement. This cement is made by mixing what we call "four to one."—four parts of sharp sand to one of cement. This sixty by twenty-two foot floor takes between twelve and thirteen barrels of cement.

"In our cow stable, where the cows stand, we mixed two to one; while the mangers and walks are made of a mixture similar to that in the sixty



Interior arrangement of poultry House at Sunnyside Poultry Farm, Coldbrook, Ill.





View of de Wolf Farm from the Harbor, Pappoosequaw Bristol, R. I.

by twenty-two foot house, where we shall make a feed trough of small stone and cement, tamped down, for the hogs. This method of flooring is being adopted by others with good results."

With our severe climate, it is the little things and the extra things that count in the round-up of a successful season. It is not enough to provide food and housing and ventilation. The fowls must be carefully looked after and the "chore boy" followed up.

#### SPECIALISTS OF RHODE ISLAND REDS.

**T**HE de Wolf Farm is on the small peninsula, Pappoosequaw, which juts into Narragansett Bay in a southerly direction. The farm consists of about one hundred and fifteen acres and extends from Bristol Harbor on the east, to Providence River on the west, the distance from shore

to shore being a mile. The house and farm buildings lie on the east slope overlooking Bristol Harbor. The poultry bred on the farm consists of standard line bred Rhode Island Reds and African, Embden, Toulouse and White China geese. Pekin and wild Mallard ducks are also bred for the market.

The breed of Rhode Island Reds was selected by the proprietor three years ago in preference to any other breed of fowl, both on account of its excellence for market production and for the business of fancy breeding. As dressed poultry, with yellow skin free from dark pin feathers their appearance is very attractive, and the rich and brilliant plumage must appeal to the fancier. Under the standard of the Rhode Island Red Club of America, the de Wolf Farm aims to produce the highest type of this breed; but while endeavoring to perfect the color of the plumage, the shape of the body and standard weight are considered of the first importance. The standard weights for Rhode Island

Reds are, cock, eight and a half pounds; cockerel, seven and a half pounds; hen, six and a half pounds; pullet, five pounds.

On this plant the chicks are hatched by both hens and incubators, but are brooded entirely by hens. The brooding is done on the east side where the grass dries early under the morning sun, and when this period is over the young stock is moved to the roosting coops scattered about in the orchard, and later to the larger colony houses on the west shore where the grass range is practically unlimited. Four pens of Single Comb and four pens of Rose Comb pullets, twelve in each, have been carefully selected for line breeding. There are also a pen of Pea Comb pullets and one each of Single and Rose Comb hens. The rest of the stock is separated in flocks of about thirty, the varieties of comb being kept distinct, and mated for constant improvement. Cyphers and Star incubators are used and an accurate account of each hatch is recorded.



Entrance to de Wolf Farm, Pappoosequaw, Bristol, R. I.



## POULTRY HOUSE FOR THRIFTY, EGG-PRODUCING WHITE PLYMOUTH ROCKS.

An Excellent Plan For a Poultry House, With Unique Feature For Lice Proof Roosts. No Signs of Frozen Combs or Fowls and Plenty of Eggs.

PEARL E. LAWSON, Staunton, Ind.

**E**VER since I became a subscriber to Poultry Keeper I have thought of sending a sketch of my poultry houses and some of its fixtures, some of which I have never yet seen described in plans and fixtures of foreign houses.

My house is forty feet long by twelve feet wide with a comb roof. It sits upon posts about two feet above the ground, thus giving a two foot space below the floor for a place to

from the floor, thus giving the entire room for scratching purposes. I keep both upper and lower parts filled with clean straw.

### Plan for Lice Proof Roosts.

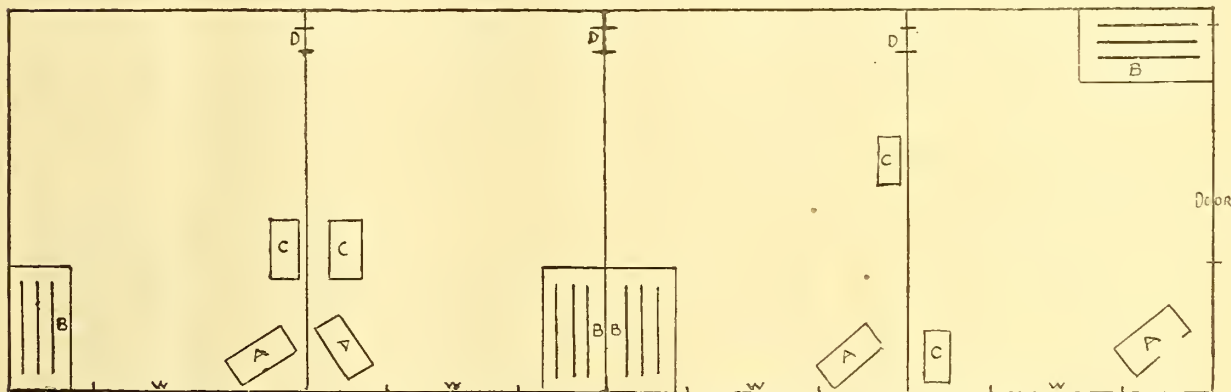
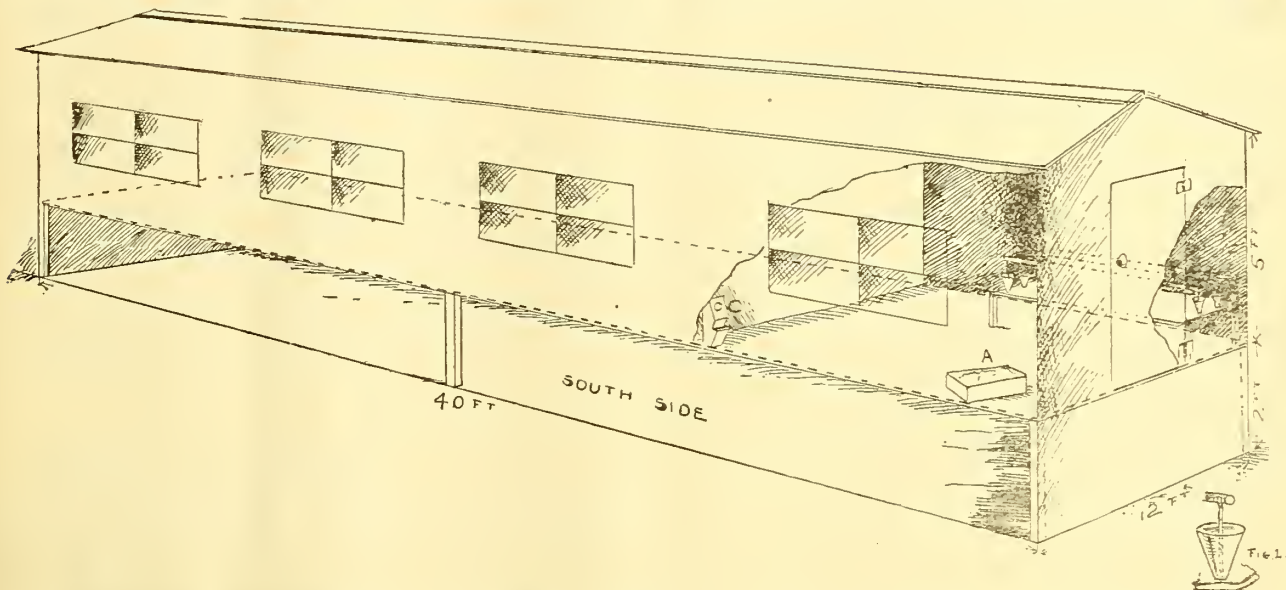
Now as to roosts. I had a tinner make some iron posts and fasten to the center of these posts a sort of funnel (see Fig. 2 in drawing at right). By boring a hole in the foundation table or droppings boards, and inserting the small end of this funnel arrange-

more. I have been bothered less with lice this year than I ever was before, and I lay it to this arrangement of my roosting poles. I did not depend entirely upon this, however, but kept watching and fighting through the dust bath, etc.

This house is built of good ship lap, with tarred paper lining all over. In this I have kept Leghorn as well as White Plymouth Rock cocks and cockerels without the least signs of frozen comb, and have got plenty of eggs all the while. By dropping a curtain over the window it makes it much warmer.

### Feeding and Care of Fowls.

I will give offhand a very short sketch of my method of feeding. My first and foremost thought and motto is "Cleanliness." That I believe to be the first principal of feeding as well as caring for the personal comfort of the fowl. I always buy the best food obtainable and it consists of



Poultry House of Pearl E. Lawson, Staunton, Ind., showing Inside Arrangement, Floor Plan and Details of Fixtures. A, dust box; B, droppings board and roost with nest boxes underneath; C, grit, charcoal and shell boxes; D, doors; W, windows.

scratch in. It is tightly boarded up on all sides save the south, which can be closed with a curtain. There is a door at each end of the building.

### Inside Arrangement.

The inside is divided into four apartments, each of which has nest boxes, dust bath and roosting poles. (See sketch.) The platform upon which these roosts rest are two feet

ment and inserting the other end into the roost pole, I made my roosts thus to rest upon these pieces.

Now to keep down lice and especially those little red fellows, I pour cups full of coal oil. By pouring oil now and then upon the roost poles they are destroyed and none can migrate from one pole to another, nor can they get away from the oily invader, so give up the ghost and bother us no

whole corn, cracked corn, wheat, oats and their by-products, such as bran, shorts and hominy meal. Sunflower seed and beef are desserts as it were. I have a contract with my butcher for beef heads which I get several times a week.

### The Three Feeds of the Day.

The morning feed with me is usually  
(Continued on Page 425.)



# POULTRY KEEPER,

A JOURNAL, FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,  
(INCORPORATED)

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Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, Editor.

Associate Editor, DR. N. W. SANBORN.

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TWENTIETH YEAR  
AND VOLUME

JANUARY 15, 1904.

NUMBER 10

*We can save considerable in your subscription money. If you will send list of publications on a postal, special price will be quoted.*

## WE NEED YOUR HELP.

We are eager to get all the helpful matter we can for publication. You can help us. Will you? Tell us something of your work. Let us know how you feed, how you cure diseases, how you kill or prevent vermin, how you raise chicks, make coops, save droppings, clean houses, construct nests, how you succeed with incubators and brooders, or anything that gives information.

Egg records are welcome, but they should be accompanied with the method of how you do it. To tell other Poultry Keeper readers that your hens laid 200 eggs each year is no information, but when you tell how you made the hens lay then you tell something of value.

## FAILURE IN POULTRY KEEPING.

It is no unusual thing to hear some one say: "John Jones has gone into hens. He'll run through all his money and make a failure of it!" How about the "John Jones" who goes to keeping store, runs a meat cart, or takes up the practice of law? Does he always make a success of it? By no manner of means! Every one has to find his place in the world, and it is only by trying this new project that he knows whether or not he fits the business.

Most of the failures in poultry have come through trying to do too much on a limited experience. It seems easy, on paper, to figure out the profit on six hundred hens, but the man who winters that number of birds his first year surely fails. As in other lines of work, success in poultry is to be had only by starting small and enlarging the plant as experience is gained. Then there are men who can make a

good living when wintering three hundred hens, who utterly fail when they try to keep twice that number. There are "one hundred hen men" and "six hundred hen men" and the sooner a man knows his limit the better.

There is a lot of satisfaction in working all the branches of poultry on a moderate sized plant. Selling market eggs at the time of high prices, hatching every egg when the low prices come and turning the product off as broilers and roasters, as well as paying some attention to the sale of fancy stock and eggs, averages up quite well when the balance sheet is made at the close of the poultry year.

Poultry Keeper has always preached the going slow (and sure) in taking up any branch of poultry work. It has always said that failures will come to many of the men who rush in to make a great splurge along hen lines. We believe in the desire that leads so many people to build houses and buy stock, and, in spite of the empty poultry buildings that are in every town, look forward to helping make more profitable many a little "hen plant," that now exists only in the day-dreams of our readers.

## EGGS FOR HATCHING.

The Poultry Keeper, during the spring months, receives many letters relating to the egg trade. Some are glowing with good words as to the large number of chicks hatched and raised. Other letters are full of disappointed hopes and indications of a wasted season. It seems to us that our readers should have a better understanding of the relations of seller and buyer, and what is to be expected of eggs sold for hatching.

We consider it a mistake for a poultryman to ship eggs for hatching until he has tested every pen for fertility. There are slip-ups enough in the use of boughten eggs without a fancier's sending out eggs that he knows nothing of as to fertility.

Then eggs should not be sold from birds that are not sturdy and fully mature. This applies to the head of the pen as well as to the females that go to make up its working staff. If breeders would depend more upon yearling hens for laying eggs to be sold for hatching, there would be less fault found as to fertility of egg and strength of chick. The first eggs of the pullets are small and do not produce good early chicks. The birds are still growing and have little spare vitality to put into the egg.

Then the buyer of the eggs should not expect too much. Some men expect a larger hatch from eggs that have traveled five hundred miles than from eggs laid on the premises. Expectation is so large and the reality so moderate that many a reader of Poultry Keeper complains to us when he has had a successful hatch from our point-of-view. We have found our advertisers willing to do more than what was expected, to an extent sometimes that has led to their being imposed upon. There are so many ways of injuring the eggs, between the time they enter the express car and the expected date of hatching, that the buyer should be reasonably sure of his facts before finding direct fault to the raiser of the eggs. We believe in the reliability of our advertisers, we know that the buying of eggs for hatching has helped along good poultry, and trust that many a pen of fine birds will come out of eggs bought the coming months. Breeders seldom sell their best birds. They will let you have eggs from the same pens they use themselves. Trust them and do your part with the eggs they sell you.

## NECESSITY FOR INCUBATORS.

Artificial incubation is no new thing. Eggs have been hatched with artificial heat for thousands of years by both the Chinese and the Egyptians. In fact the historian has been unable to find a date for the beginning of the system.

The practical machine called an "incubator" is, however, a modern invention made necessary by modern requirements for methods of hatching in harmony with the industrial and commercial demands of the time.

Broody hens are not abundant enough early in the season to hatch out chicks in sufficient numbers to supply the demand for early broilers. Just so long as there is a market for early broilers, just so long will the incubator be necessary to produce them in quantities.

But the use of the incubator is not limited to the production of early broilers. The market poultryman needs the incubator in order to get out large numbers of early pullets that will mature in season to give him market eggs in November, December and January, when they bring the best prices. About half of those early hatched chicks will be males that will be sold for broilers at a time when there is a good profit in them.

It is true that some poultrymen begin hatching early in the season with hens, but it is hard work and the broodies, as a rule, come along so slowly that the eggs are set in small



lots from time to time with the result that the season's chicks are an uneven lot of many different ages that cannot be cared for so easily or pushed forward so successfully as the larger and more uniform flocks that result from successful incubator hatches.

As the incubator replaces the sitting hen more and more each year, the broody type of hen is gradually passing. Broodiness is an inheritable trait that can be bred out of any breed to a considerable extent. As a general rule the type of hen that is strongly inclined toward broodiness is not a very prolific layer according to modern standards. Those who have produced two hundred-egg hens have noted that they are not much given to broodiness, some of them, in fact, never showing any signs of broodiness although in many cases they belong to the so-called sitting breeds.

A given number of chicks can be hatched with less labor, less room, and less trouble with an incubator than with hens, and the machine is always ready when the eggs are, whatever be the season.

If properly designed and constructed and correctly operated, the incubator supplies conditions more favorable to a good hatch than the necessary number of sitting hens usually do. There are no lice to torment the hatcher or the new-born chicks when they arrive.

Some claim that artificially supplied heat for hatching eggs is not in accord with "the laws of nature." That is a feeble theory. As well say, that grafting fruit trees is unnatural; for nature when left to herself produces fruit from seedlings only. Milking a cow by hand power is not nature's way. Nature designed that cows should be milked by their calves.

Man is continually improving on nature's way of doing things and nature helps him to do it. The incubator is all right and is here to stay. It is designed and operated in harmony with natural laws or it would not hatch the eggs. W.

*We do printing for the poultrymen and have the best line of cuts for this work. It makes a big difference in your business what kind of stationery you use. Your customers judge you by the letters you write. Let us send you samples of envelopes, letter heads, tags, etc., free on request.*

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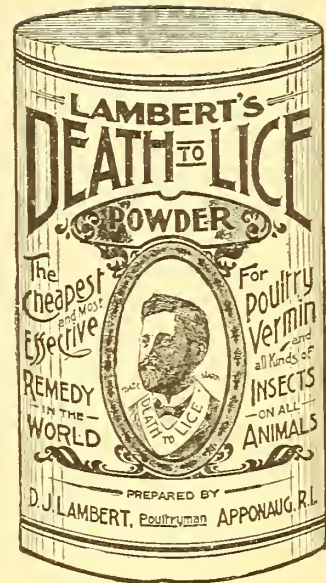
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If ever a poultry paper was worth fifty cents the Poultry Keeper is. I could not do without it.—H. E. Harris, Pennsville, Pa.

Patronize Poultry Keeper advertisers—you can depend on every one of them. We do not accept ads from unreliable manufacturers or breeders. Don't forget to say "Saw your ad in Poultry Keeper." This helps us all.

When fowls eat dried grass, which they often do after frost, it will in a majority of cases become closely packed at the orifice leading from the crop to the gizzard, preventing the passage of the food into the crop. In such a case, the fowl dies of hunger although its crop may be full. No remedy exists but to open the crop and remove the contents, but the safer plan is to burn over the yards when the grass dies down, thus removing the cause of difficulty.



**This is the Remedy**

That I have manufactured and sold for upwards of twenty years. Other insecticides come and go but Death to Lice Powder has been and is now the most popular. Those who use it say it is the best for the purpose, the handiest and the most effectual.

**This is the Remedy**

That can be used with safety on show birds; will not stain their plumage or discolor their shanks, but acts as a cleanser, polisher and beautifier on all kinds of feathered birds. There are a number of things that will kill lice, but the most of them will kill the birds, stain their feathers, taint their flesh or make them unsightly or unsalable.

**This is the Remedy**

Used by the most successful breeders and exhibitors everywhere. It must do nice work or the upper ten of the poultry world would not continue to use it from year to year. But few keep hens for fun, the majority have to make money with them or quit the business, and they know that vermin invite failure and therefore use Death to Lice freely.

**This is the Remedy**

That is put up in all sizes of packages, from a 10c sample to a \$1.50 lb barrel. It is sold by agents and dealers in nearly every city of importance in this country and also in foreign climes. We also have Ointment, Special and Liquid Lice Killers which we advise and sell for specific purposes. Samples 10c each postpaid. Book free if you mention Poultry Keeper.

**D. J. LAMBERT,**

Box P, Apponaug, R. I.



This is the way they grow on

**CYPHERS** Put up in sealed bags. Get the genuine.

**Ready-Mixed Poultry Foods.**

Special foods for special purposes. Compounded by experts, guaranteed to contain only sound, wholesome grain and seeds, and to be properly balanced. Used and endorsed by successful, money-making poultry raisers.

- Cypthers Laying Food**—Positively makes hens lay. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cypthers Scratching Food**—Makes hens work and lay eggs. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cypthers Forcing Food**—For production of prime roasters and broilers. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cypthers Chick Food**—"Complete food" for chicks—makes bone, muscle and feather. Price, 50 lb. bag \$1.50, 100 lb. bag \$2.50.
- Cypthers High Protein Beef Scrap**—(60% to 65% protein.) Price, 50 lb. \$1.60, 100 lb. \$2.75.

Ask your dealer for Cypthers Foods. Look for trade mark and unbroken lead seal on every bag. Accept no other. Poultrymen's Necessities. Cypthers Patent Appliances, Clover Products, Remedies, Insecticides, etc. Special circulars and separate supply catalogues, free if you mention this paper. State what you want. Address nearest office.

**CYPHERS INCUBATOR CO., Buffalo, Chicago, New York, Boston.**

Pair of Capons, weighing 23 lbs. at six months old. Were fed Cypthers Chick Food & High Protein Beef Scrap. Raised by Mr. Pratt, Hingham, Mass.



## FEED AGAIN—THE AMOUNT OF FEED FOR EACH HEN.

W. W. KULP, Pottstown, Pa.

I BELIEVE next to what breed is the best, the question oftenest asked is, how much to feed. Since writing the article on feeding which appeared in the November issue I have had letters about the amount for best results.

Feed costs labor or money, and no one wishes to feed more than necessary, yet I think too little feeding is the cause of many failures. After that comes irregular feeding. About a month ago a party came to me asking how to make the hens lay as the owners of the fowls needed the income badly. I told them a sure way and the simplest.

I feared at the time that it would not be kept up long enough to pay and that is the sequel. After feeding several dollars' worth of feed extra they have relapsed into the old light diet. It takes lots of stick-to-it-iveness to do well in the poultry business, either in a small or large way. One man wrote me he fed one half

pound of corn, wheat and oats in the morning, that much combined. At noon he gave a small handful of wheat with cabbage and some clover to each of fifteen Leghorns. I penned thirty Leghorns in a shed, gave them six pounds of wheat and corn. They stored it all away but were about full.

Rocks or Wyandottes will eat eight pounds. I wouldn't fill them quite full in the morning but would give them about two pounds of grain, and at noon half a pound more all on the

floor. In the evening I would feed the mash of combined meals and meat with clover, if I had it.

For green food I like cabbage above all else, but large beets are handy and good also. When too little feed is given some hens will lay and you may wonder why more do not lay if some can on the food given. By watching you will find that a few get much more of the feed than those more timid.

A man told me not long ago that he keeps about fourteen hens now where he used to keep forty-five, and gets more eggs. You see they get much better or more food.

My father's plan was to fill the

DR SANBORN  
OFFERS IN  
BUFF WYANDOTTES

INCUBATOR EGGS, from good stock, for \$8 and \$12 per 100 eggs. A few cockerels at \$3, \$5 and \$10. Eggs from best pens, after Feb. 1st one sitting, \$3; two sittings, \$5; 100 eggs for \$15. Buff Cochins Bantam eggs from one pen of eleven birds of show quality, for \$2 per 15 eggs.

DR. N. W. SANBORN, BOX 66, BELLINGHAM, MASS.

# The Key To Success

if you are keeping poultry or intend to, is to

## STUDY POULTRY CULTURE We Teach It.

Our whole business is giving instruction on this profitable and healthful profession. The course of study covers all branches. You study in your own home. The Advisory Board provides individual instruction. We assist graduates to paying positions. Our students are satisfied. Read the following:

St. Louis, Mo., Nov. 14, 1903.  
The American Poultry Institute,  
Rochester, N. Y.

Gentlemen: You cover every point thoroughly, and I feel confident that when I have gained all that your lectures and lessons cover, I will have a thorough, practical education in Poultry Culture. Respectfully yours,  
Wm. J. McBURNEY.

Deep River, Conn. Nov. 16, 1903.  
The American Poultry Institute,  
Rochester, New York.

Gentlemen: I have received your lessons and think them very instructive and interesting, especially those on "Feeds and Feeding and Artificial Incubation." Tell me the ingredients of H. O. mash food. Would you advise using it in preference to mashes suggested in lessons on feeding, considering price? Second: Has white wheat more nourishment than red, providing quality is the same? If I can assist you in securing new students, I shall be pleased to do so.  
Yours truly,  
F. W. CHANDLER.

St. Albans, Vt., Nov. 18, 1903.  
The American Poultry Institute,  
Rochester, N. Y.

Gentlemen: Enclosed please find P. O. Order for my payment on tuition fee. I like the lectures very much. They are of great help to me.  
Yours truly,  
B. P. GREENE.

Testimonials from many other students including those who are in charge of poultry departments at Experimental Stations. OUR FREE PROSPECTUS develops fully our entire plan. Gives details as to courses, instruction, terms, names of faculty, etc. It is mailed free to any one on application. Write for it to-day. It points the way to profit in poultry raising.

THE AMERICAN POULTRY INSTITUTE, DEPT. P-13, ROCHESTER, N. Y.

## It's Poultry History

covering many years, that the leading Incubator, the one that produces uniformly the highest per cent in hatches, hatches the strongest, best chicks and is the most nearly automatic in all workings of all machines, is the

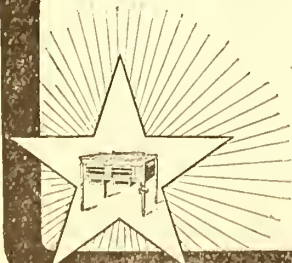
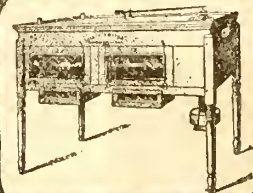
## Famous STAR INCUBATOR.

It is a machine that has made a record, "a hatcher that hatches." Stands absolutely unapproached in its system of ventilation, which supplies, in addition to fresh air, all the moisture needed in the natural way.

### Brought Within Reach of All

by 1904 prices: 50 egg Star \$6.00, 100 Egg \$12.00, 200 Egg \$20.00. Poultry raisers may now have the dependable, record hatcher for the price they would pay for untried machines. Let us send you the new catalog, which explains the new era we are establishing in prices. It comes free. Ask for it to-day.

Star Incubator & Brooder Company, Box 15, Bound Brook, N. J.





poultry full and keep them full all day, but the cows he fed but moderately, a little more than half what many fed, and he could prove by figures that in the cows' case his plan was much the best, but in the fowls' case heavy feeding always paid the best.

You will grow the cockerels in a much shorter period, getting them to market earlier and getting more per pound for them.

"I can't help mentioning the fact that Poultry Keeper brings me more inquiries than any and all other papers. I get daily inquiries from Maine to California," so writes Dr. A. F. Meserve, of Danville, Ill., inventor of the Dandy Brooders, Trap Nests and specialties.

This season I will sell eggs from my prize winning White Langshans at \$2.50 per sitting, also from my prize White Wyandottes and Single Comb Buff Leghorns. My stock includes the best that money can buy in the United States. I have no birds for sale and the eggs I offer are guaranteed to be from my best pens. I have but the one grade. This is what James Rennie, of Esopus, N. Y., writes when sending in his ad this month (See page 444). It will be noticed that these birds are extra fine quality.

On account of there being no show at Boston this year there was a record-breaking exhibit of the east's best birds at the South Framingham show held in December, hence the winners at that show stand as the peers this season. D. C. Raymond, of South Framingham, entered some of his Blue Barred Plymouth Rocks and Rose and Single Comb Rhode Island Reds and won three silver cups as specials, besides a lot of regular prizes. He has birds of all qualities for sale at bargain prices. We know Mr. Raymond's stock and it gives us pleasure to record his winnings. His ad on page 413 gives further facts.

**WHITE WYANDOTTE CLUB MEETING.**

The fifth annual meeting of the National White Wyandotte Club will be held at Rochester, N. Y., during their show to be held January 29th to February 4th. Silver cups are being offered by the club in nearly every state, and a fine list of cash specials is being prepared for the Rochester show. The club now numbers over 800 members and is the largest specialty club in America whose annual dues amount to \$1 or more. Every breeder of White Wyandottes should send for one of the handsome new catalogues just issued by the club. Ross C. H. Hattock, secretary, St. Louis, Mo.

Be careful in the feeding of oats. If your birds are not used to them as they may eat so heartily of them as to cause impaction of gizzard and crop. Dry oats will swell nearly twice their size when the moisture of the digestive system is added. If you wish to give a full feed of oats, prepare them by pouring over the oats a quantity of boiling water to cover

them. After standing an hour they will be in good condition to feed safely. Oats are good for hens but must be fed with understanding.

Why are not more ducks raised? The demand for meat is good and they are cheaper to raise than chickens. There are signs of prosperity at more than one duck plant that we know.

**THE ONLY HEN FOR EGGS** Is the Single Comb White Leghorn

**THE ONLY ALL PURPOSE FOWL** Is the White Wyandotte.

Order your eggs of these breeds from White Bird Poultry Yards and secure the best. **WM. MAXWELL, Prop.** Box 99, Bloomington, Ill.

**\* DON'T BUY A BROODER OR A TRAP NEST.**

Until you have read **THE DANDY BROODER AND TRAP NEST BOOK.** It contains valuable information on brooders, trap nests, brooder chicks, brooder houses, different breeds of poultry, etc., it is free.

**THE DANDY BROODER** is being put on the market to supply a long felt want and **Beats All the Old Hens and All the Other Brooders.** It is the safest, surest, snuggest, simplest and most economical brooding apparatus yet produced. Has perfect ventilation, very easily cleaned, well lighted, over 25 sq. in. floor space, and 300 cu. in. breathing space per chick, and costs from \$6 up, smallest size 2 1/2 x 4 1/2 ft. Sectional brooders \$5.00 per section made in any length.

**THE DANDY EGG TRAP NEST** is the simplest and cheapest. It traps the hen or the egg and registers and releases the hen. You can make them yourself for 15c., 30c each nest. Drop a postal for 1904 catalogue of Dandy Specialties to **THE DANDY BROODER, Danville, Ill.,** and please mention Poultry Keeper.

At the largest Score Card Show in New England, held  
At South Framingham, Mass., Dec. 1, 2, 3, 4. . . . .

**RAYMOND'S**

Blue Barred Plymouth Rocks and Rhode Island Reds in Hot Competition Won the Grand Silver Trophy Cup for Best Display

Of Barred Rocks, also Silver Trophy Cup for Best Cock, Hen, Cockerel and Pullet in the Barred Rock Class, and the Silver Trophy Cup for best display in the R. I. Reds Classes.

Why not place your orders with the man whose birds are winning more blue ribbons than all others.

**D. C. RAYMOND,**

LOCK BOX 955.

SOUTH FRAMINGHAM, MASS.

**"The Breed That Lays is the Breed That Pays."**

We are the most extensive breeders in the world of

**SINGLE COMB**

**White Leghorns**



We raised last season more than 5,000 pure-bred White Leghorn chicks, all from the choicest matings, and we can justly claim to have the finest breeding stock in the country.

**FINE BREEDING COCKERELS**

Head your best pen with a cockerel from our strain. We offer first-class, early hatched, strong, vigorous, standard-bred cockerels, from unequalled egg strain, at prices from \$5.00 to \$25.00. They are the pick of a flock of 2,500 cockerels specially selected and raised to maturity—they are unsurpassed breeders. Fine breeding pullets and yearling hens at fair prices. When you buy of us you get the best.

WRITE FOR FREE CATALOGUE.

Birds are shipped with infinite care and every precaution is taken to ensure them reaching destination in first-class condition.

**WHITE LEGHORN POULTRY YARDS CO.,** Box 514, Waterville, N. Y.



Mr. W. W. Kulp, Pottstown Pa., won at the Blandon (Pa.) show in December, first Buff Plymouth Rock cock, first Barred Rock pullet, four firsts on Rose Comb Brown Leghorn cocks and hens, as well as seconds, thirds and fourths.

**A SATISFACTORY DEAL.**

Michigan City, Ind., Dec. 17, 1903.

Editor Poultry Keeper.  
I received last week a fine pen of Barred Plymouth Rocks from Mr. Maurice Delano, Millville, N. J., to whom you so kindly referred me a few weeks ago. The order was filled to my entire satisfaction and I thank you for the valuable assistance you gave me in the matter. I have also received "Success With Poultry" and would not be without it. It is a very valuable book for the beginner.

Respectfully yours,  
H. L. Henderson,

Chaplain and State Agent, Indiana State Prison.

**HARDING'S EGG BUILDER.**

Geo. L. Harding:  
I made a large exhibit at the Binghamton Industrial Exposition where the poultry were fed on Harding's Egg Builder Ration. My brother, who had charge of my exhibit, was so pleased with its effects on the bantams, a large number of them commencing to lay, that he wishes to use it

right along. I will therefore take a ton as a "starter."

Yours very truly,  
A. E. Blunck, Johnstown, N. Y.

(See Mr. Harding's ad on page 398. His catalogue which is free to P. K. readers, is interesting to the wide-awake poultry.)

**SECRET OF HER SUCCESS.**

A lady said recently: "My fifty hens, half pullets, and half a year old hens are now, Dec. 26, laying two dozen eggs and upward every day." It pays of course to get that many eggs in mid-winter. But the secret of her success she says was in the fact that she had used more or less Sheridan's Powder every month in the year, so that they were in condition to lay when eggs brought the most money. Her hens and chickens are sound and healthy the year through, and she believes it largely due to Sheridan's Condition Powder. Certainly over 30 years use ought to be ample recommendation for it. I. S. Johnson & Co., Boston, Mass., will send further particulars to any one free.

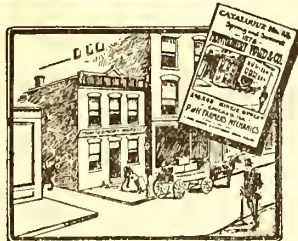
Anna L. Pinkerton Co., Hastings, Nebr., announce that their 1904 catalogue is now ready for mailing. This is a poultry book which tells how to raise little chicks successfully, how to secure eggs at zero, and how to make money with poultry. This

book is free for the asking. Mention Poultry Keeper.

Chas. McClave, New London, Ohio, one of the largest breeders of standard-bred poultry in the United States, reports as follows on his exhibit at the big Chicago show in December: "I had good success on all exhibits. Made fifty entries and was awarded thirty firsts and fifteen seconds, thirds and fourth prizes, winning all but five entries, including Golden Wyandottes, first, second and third on Golden Wyandotte cocks; first, second and third on hens; first, third and fourth on cockerels; second and fifth on pullets; first on pen, also, Association cup for best ten birds."

H. C. Beebe, Single Comb White Leghorn specialist of Banner, Ill., exhibited at the Macomb poultry show and won first premiums on cockerels, pullets and hens and second on pen, with scores as high as 94 1/2. Chas. McClave, judge. There were twenty-one exhibits in this class and honors were hotly contested. Every where he has exhibited this season Mr. Beebe has taken first prizes. He has for immediate sale some fine pullets at \$1.50 and \$2 each, guaranteed to be of good quality. For prices of eggs, etc., see add on page 416.

Courtesy is an investment that is sure to pay a big interest.



32 years ago we occupied one room with two clerks and published a catalogue a quarter the size of a hymn-book.

**We Want You to Try Us**

and test for yourself our ability to please you. Tell us what kind of goods you are interested in and we will send you without charge any of the following illustrated special catalogues quoting wholesale prices. Merely mention the number or letter of the catalogue you want.

- 100 Artists' Supplies
- 105 Athletic Goods
- 110 Blacksmiths' and Machinists' Tools
- 115 Builders' Hardware and Supplies
- 120 Carpenter and Builders' Tools and Materials
- 125 Crockery and Glassware
- 130 Cutlery
- 135 Dry Goods
- 140 Fancy and Novelty Goods
- 145 Farm Implements
- 150 Fishing tackle
- 155 Popular priced Furniture
- 160 Harness
- 165 Jewelry
- 170 Kitchen Supplies
- 175 Lace Embroideries, Ribbons, Trimmings
- 180 Lamps and Lanterns
- 185 Linoleums, Carpets and Curtains
- 190 Men's Hats and Gloves
- 195 Men's Shoes
- 200 Men's Wearing Apparel
- 205 Music and Musical Instruments
- 210 Notions
- 215 Saddles and Saddlery
- 220 Silverware
- 225 Sporting Goods
- 230 Stationery and Office Supplies
- 235 Stoves
- 240 Toys, Dolls and Games
- 245 Underwear
- 250 Vehicles
- 255 Wagon Makers' Supplies
- 260 Watches and Clocks
- 265 Women's Shoes
- 300 Women's Catalogue (Cloaks, Furs, Suits, Skirts, Waists, Hats, etc.)
- B Bicycles
- C Baby Carriages
- D Dairy Supplies
- G Drugs and Patent Medicines
- J Telephones and Electrical Goods
- K Cameras and Photo Supplies
- M Books
- R Fancy Grade Furniture
- T Trunks
- U Youths' and Boys' Clothing
- V1 Men's Made-to-Order Clothing with samples of fabrics. Suits \$10.50 to \$16.50
- V2 Same as V1 except suit prices \$18.00 to \$30.00
- VO Made-to-Order Overcoats with samples
- W Men's Ready-Made Clothing Mackintosh Catalogue
- Butterick Fashion Catalogue
- GL Grocery List (published every 60 days).

**"Grandfather Traded With Us"**

One of the greatest joys of this great business is the many kind letters we receive daily from our customers, expressing their pleasure and satisfaction with our goods and methods.

Often the most significant part of the letter is embodied in the few words: "My grandfather traded with you years ago." It is the complete confidence of our customers in our honesty, born of past experience in dealing here, that enables us to hold their continued trade.

One-time special "below cost offerings" to catch an occasional customer, and making up the loss on subsequent orders, would never build a business like ours.

It is the constant saving and steady stream of pleasant business relations which makes our patrons eager to speak a good word for us at every opportunity.

Our prices are 15 to 50 per cent below regular retail figures.

**Our Big Catalogue**

contains over 1100 pages and wholesale prices on Groceries, Dry Goods, Crockery, Hardware, Furniture, Harness, Implements, Vehicles, Clothing (all kinds for Men, Women and Children), Millinery, Musical Instruments, Sewing Machines, Bicycles, Sporting Goods—practically everything that anybody could want.

It also contains freight rates, full instructions for ordering, and tells you everything you might want to know about us.

Ordering is easy from this wonderful book, which costs us almost one dollar apiece to print and send out.

Send for it today and save the profit you pay your dealer. You can get your money back if your purchases are not satisfactory. Fill out this slip, enclosing 15 cents for partial postage as a guarantee of good faith.



Send four two-cent stamps for our **10 Color Wall Hanger**

showing the inside of this building, with the goods and the clerks at work. One of the most complex and complicated pieces of lithography ever attempted. Very interesting and attractive. You can get it for what it cost us—four 2c stamps.

Today, we occupy more than 200 times as much floor space, employ over 3000 people and our catalogue contains over 1100 large pages.

**Cut this slip out and send it TODAY.**  
MONTGOMERY WARD & Co., Chicago.  
Enclosed find 15 cents for partial postage on Catalogue No. 72, four 2c stamps for Wall Hanger, or 20c for both.

Name \_\_\_\_\_  
(Be sure and write very plainly)

Postoffice \_\_\_\_\_

Route No. \_\_\_\_\_ County \_\_\_\_\_

State \_\_\_\_\_

**Montgomery Ward & Co.,**

Michigan Ave., Madison and Washington Sts., Chicago

32 Years World's Headquarters for Everything.



# ARTIFICIAL INCUBATING

AND

# BROODING

(In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another.—Editor.)

## THE INCUBATOR.

By F. O. Wellecome, Yarmouth, Maine.

I AM so enthusiastic a friend of the incubator that it will not be possible to get all that I would like to say in its favor into this article. I am well aware that a very few poultrymen do not believe in artificial incubation. I have examined their theories time and again while my machine was hatching chicks, and good chicks, too, as time proved. I believe in the incubator.

### 200-Egg Hens Hatched in Incubator.

My last year's breeding pen averaged one hundred and ninety-two eggs each in '92, and every one of those birds—some of them "200-eggers"—was hatched in an incubator. Does that prove anything? Yes indeed, it proves a good deal. I am not an expert incubator operator and I did not fuss much with the machine. When a pullet lays two hundred eggs in one year, it proves to me that she was hatched pretty near right, whether under a hen or in an incubator. We all know that women are pretty keen critics. Well, Mrs. Wellecome, the good wife, is quite an expert at chicken raising with hens, but she prefers the incubator and the brooders every time.

But, some say, chicks die in the shell in incubators. I admit it. So they do under hens, just the same, when the eggs, the temperature, the ventilation, or the condition of the hens, are not right.

### Give The Machine a Fair Chance.

What conditions are necessary for the best results in hatching by any method? First, and of supreme importance, good eggs. The breeding stock should be in the pink of condi-

tion, feeling good every minute, well mated and well fed; for eggs, that look all right outside and are all right inside are the first requisite. Such eggs may possibly be found in the grocery store sometimes, but the chances are generally against such a thing.

At what season of the year is the general run of hens producing their best eggs? Why, in the late spring and early summer, to be sure, and that is the time when the broody hen has her inning and beats the incubator that was filled with weak eggs earlier in the season, when no good ones were available perhaps.

Another thing which makes some comparisons between hens and machines unfair is this:—the fresher the eggs, the better the chances for a good hatch, other things being equally favorable.

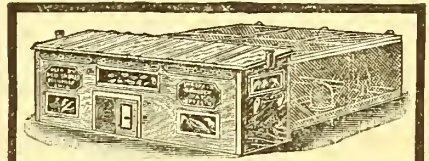
A few hens are set on a few eggs. Perhaps no egg is over three days old. A good hatch results. How is it with the incubator? The capacity of the machine may be so great compared with the daily egg yield that some of the eggs may be held a long time before

there are enough to fill the machine. In many cases, some of the eggs so held are, no doubt, unfit for incubation, but they are used and they fail.

Then, perhaps, we blame the machine just because it cost a fair price. It is amusing, sometimes, to see the predicament a man is in who puts expensive eggs into an expensive machine and gets a poor hatch. Very likely he alone is at fault, yet, perforce, he must blame one of his purchases but he doesn't know which one to condemn. How hard it is to find fault with the operator—unless he is a hired man!

### Operator Responsible for Ignorance and Mistakes.

We are not always to blame for our lack of knowledge or skill, but we are always responsible for the results of that lack. I have little patience with those people who are continually trying to improve upon the expert knowl-



## THE SHAUB

### COMPARTMENT BROODERS

have stood every test of time and tempest. Equally good for out or indoor use. Every year the sale of them increases and they always give satisfaction. They furnish natural conditions for the chicks and are constructed to give best results. Ten years of success have made the Shauh Brooder the leader of all. The machine is right and the price is right. Send for free booklet describing it. M. O. Sherer, Box 192, Louisville, O.

# King's Barred Plymouth Rocks

Again proved their superiority by winning 13 out of 15 prizes competed for, in a class of 167 Barred Rocks at the recent Peoria show. Clean sweep on cki's 93½, 93¼, 93, 92½; clean sweep on puilets 93¾, 93¾, 93½ 93½; 1-3 hens, 92½, 92; 1-2-3 pens, 186 11-16, 185 11-16, 184¾. (W. S. Russell, judge). Same week at Macomb, Ill., show, 1st cock, 91; 1st c'k'l, 92¼; 1st hen 92½; 1st pen, 184½. (Chas. McClave, judge). All birds shown at Macomb show were under weight and cut from one-half to one point, which accounts for low scores. All birds shown by me at above shows were bred and raised by me. I have them just as good for sale. Write me your wants.

O. L. KING, Walnut Grove, Ill

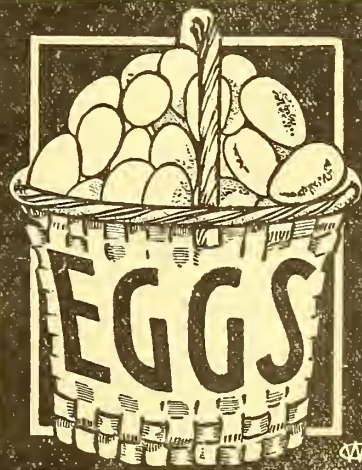
## A BASKETFUL OR A HANDFUL?

There's no money in feeding hens and then get next to nothing in eggs. Feed them green bone and watch the increase. It makes chicks grow; stimulates hens to lay; makes them all healthy. Put big or little bones into an

## ADAM GREEN BONE CUTTER

A granular bone will come out just the right size for chicks and hens. It's a strong, rigid machine; runs on ball bearings; all parts interchangeable; easily cleaned; cuts hardest bone. Send for our free catalogue No. 16, it gives prices and full details. Gives many good reasons why you should buy the Adam.

W. J. ADAM, JOLIET, ILLINOIS





edge of others before they know anything at all themselves.

They make me fearfully tired. I don't want to talk to them, and don't feel very sorry when they make a botch of their premature experiments. The proportion of such geniuses is probably larger in America than in any other country. They are not all novices. No indeed. Some of them have had years of experience during which time they have ruined thousands of things with "improvements" (?)

A bright, intelligent, industrious man devotes months and years to a study of incubation, devises a machine and gives directions for its operation. Then some ignorant and conceited user calmly waives it all and proceeds to run things independently according to notions that are as common as "graft," old as sin, and had been tried and abandoned thousands of times before his grandfather was born, only he doesn't happen to know it.

#### Differences in Eggs.

One season over six hundred of my incubator eggs were each marked with the band number of the hen that laid it and the date. I kept a record of every egg until the hatches came off. The thermometer in the machine was not correct, as I learned later, so the tem-

perature was at no time during the season what it ought to have been. I did not know that at the time however. I got no very large hatches. Only medium, but I did get some fine chicks and they were nearly all from the eggs of certain hens, while the in-

fertile eggs and those with chicks dead in the shell were nearly all from certain other hens.

To put it differently, certain hens seemed to be responsible for most of the infertile eggs and most of those which were fertile, but failed to

## Make More EGG MONEY

Now is the time you ought to get more eggs—they're worth more money. Are you getting them? As a rule the hens stop laying when the prices go highest. But it is not their fault. The reason is plain. In winter they can't get egg-making material as in the summer. If you feed them

## Harvey's Cut Clover

they can't help but lay because it starts the egg-producing organs into action by furnishing the necessary force-elements. That's how it pays to feed this feed. For a warm meal it is fine. Fowls relish it immensely and it does them good—makes them vigorous, healthful and productive. Our free catalogue should be in every poultryman's hand—it will prove a money saver. Send for it to-day.

CATALOGUE  
OF  
PIGEON  
AND  
POULTRY SUPPLIES  
ISSUED BY  
Harvey Seed Co.  
20 ELlicott St.  
BUFFALO, N. Y.

100 LBS.  
HARVEYS  
CUT  
CLOVER  
HAY

**Harvey Seed Co.**  
20 Ellicott St., Buffalo, N. Y.

EVERY DAY RESULTS, READ THEM.

## Single Comb White Leghorns.

Eggs, 1.50 per setting; \$5 per 100; \$3 per 50. I took first on cockerel, 1903, at Macomb, Ill.; 2nd on pen. My best hens scored by Charles McClave 94½ points. Some pullets left for sale at \$1.50 and \$2 each; or \$15 per dozen.

H. C. BEEBE, Banner, Illinois.

# MILLVILLE COCKERELS

Fit to head your best breeding pen, now ready.

We have the best lot of birds to spare that we ever selected for our customers. Can give you old or young birds of either sex, fit to win for you, and to breed you winners.

## Millville Buff P. Rocks

Are Champions of America.

MILLVILLE BARRED AND WHITE ROCKS, BUFF AND WHITE WYANDOTTES,

AND PEKIN DUCKS ARE IN THE CHAMPION CLASS.

Millville Records at New York, Boston, "Pan-American," and other leading shows are ample proof of our claim, and are given in full in our Illustrated Catalogue. It is yours for the asking, and it is worth the trouble of a postal, too.

Millville January Bargains to Make Room: { 100 Hens and early Pullets, \$2.00 each.  
{ 50 early vigorous Cockerels, \$3.00 each.

A snap for quick buyers. Order from adv. and get first choice Millville Farm guarantees to please you, or will pay return charges, and cheerfully refund your money. Try us.

## Millville Poultry Farm Co.,

M. F. DELANO, President.

Box I, Millville, N. J.



hatch. The machine did not appear to be at fault, for it gave me strong chicks from nearly all the eggs of the other hens.

Some hens did not lay a fertile egg the entire season, while one pen of nineteen gave me one hundred per cent fertility in one hatch. I have also found by experiment with dated eggs that those held more than two weeks are not so good as those that are fresher.

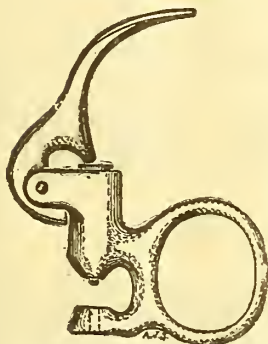
**Chances for Good Results.**

Get a good incubator, not too large for the flock, fill it with good eggs, follow the directions, use judgment and reason, have faith, and the chances for good results will be good.

Don't expect too much. No machine or hen will or can hatch every fertile egg in every case. It is a good thing that they can't. Both incubators and hens hatch too many eggs sometimes. Those miserable, ill-begotten weaklings that are coaxed out of the shell and then nursed along day after day and month after month ought to have died in the shell, but many of them live and mature and eventually lay eggs that furnish material for fresh kicks against artificial incubation.

I believe in hatching with hens and incubators both, according to the season, circumstances and objects. With either system the eggs and the operator are largely responsible for the results.

**P. K. POULTRY MARKER.**



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching

the web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

Charcoal broken to the size of a grain of corn is greatly relished by the fowls, as it cleanses the system. Keep it always before them.

**HARDING'S EGG-BUILDER.**

To whom it may concern: This is to certify that Harding's Egg-Bullder Ration was fed to the 5,000 birds on exhibition at the Hagerstown, Md., Fair, Oct. 13th to 16th, 1903, and I take pleasure in stating that it gave universal satisfaction and is considered one of the best, if not the best balanced ration on the market today for shell making, egg building and flesh producing elements, and I heartily recommend it to all poultrymen. John L. Cost, Supt. Poultry Dept., Hagerstown, Md.

**WILBER'S S. C. WHITE LEGHORNS**

Bred-to-lay. Known as leading strain of heavy layers and winners in largest Southern shows. Unexcelled for foundation blood or introducing new blood. Few excellent pens, trios, single cockerels and hens. Our 1904 breeding yards now mated (the best we have ever mated.)

If you want as good as the best, send for our beautiful free catalogue. Tells all, with prices, etc. Write your wants. Satisfaction guaranteed. **WILBER BROS., Box E., Petros, Tennessee.**

We'd like to add you to our 50,000 subscribers. Each week our magazine is brimful of practical ideas. One idea may be worth from five to five hundred times the dollar it cost you.

**THE TWENTIETH CENTURY FARMER**

will soon publish the following practical articles.

"The Profitable Feeding of Cattle for Market," by Prof. H. R. Smith, the breeder of the steer, "Challenger." "Outlook for the Hog Business in 1904," by E. Z. Russell, Secretary Nebraska Improved Live Stock Breeder's Association. "What the American Farmer Can Learn in Russia," by Prof. C. E. Bessey. "The Newest Ideas in Western Horticulture," by C. S. Harrison, President of Nebraska Park and Forestry Association. "Practical Irrigation," by D. H. Anderson, editor of "Irrigation Age."

Send 25c for 3 months subscription—or we will send a sample copy and handsome booklet—free—if you will ask for it.

Address **THE TWENTIETH CENTURY FARMER,** 1722 Farnam St., Omaha, Neb.

Dalton, O., Apr. 13, '93.

Channon, Snow & Co., Quincy, Ill. Gentlemen: This is my report of my hatch in your New Idea Incubator. I got 126 chicks out of 165 eggs. No trouble to build the machine. Yours, R. F. Snodgrass.

Bendena, Kans., Mch. 16, 1903.

Channon, Snow & Co., Quincy, Ill. I built an incubator from your plans and fixtures and can say that I think they are as good as money can buy. Yours truly, E. C. Overmiller.

Centralia, Kans., Apr. 14, 1903.

Channon, Snow & Co., Quincy, Ill. Dear Sirs: I received your plans and fixtures and can say they proved a success. A friend of mine had an incubator. He set 240 eggs and hatched out 75 chicks. I set the New Idea with 198 and hatched 130 chicks. Everyone that has seen my machine peaks highly of it. Yours truly, Elmer Graves.

Tiro, O., Feb. 16, Channon, Snow & Co., Quincy, Ill.

Dear Sirs: The plans and fixtures you sent me are all

**YOU CAN DO IT.**



**Build Your Own Incubator**

There is both fascination and profit in it. Any man or boy can do this easily with common tools and

**Save More Than Half.**

How? Get our complete Book of Plans for building *New Idea Incubators and Brooders*. We will then sell you at cost all fixtures like Tanks, Lamps, Regulators, Trays, Legs, etc. Big money in building and selling incubators.

No Experiment. Success of our method proved by thousands of satisfied customers. No high-priced factory-made machine makes better hatches than the New Idea. Send for "How to Make and Save Money with Incubators," our new handsome Poultry Book and Catalogue. It is giving old line makers something to think about. Write to-day. It is free.

**CHANNON, SNOW & CO., Dept. D. QUINCY, ILL.** All Poultry Supplies at Cut Prices.

you claim for them. I have my machine made and it cost me less than \$8.00 and just as good as the \$25 and \$30 machines you buy ready made and anybody that is any mechanic at all can build one. Wishing you success. I remain yours respt., P. G. Haley.

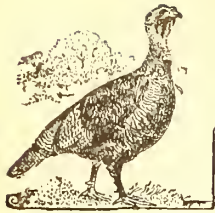
Berryton, Kans., Apr. 21, 1903.

Channon, Snow & Co., Quincy, Ill. Gentlemen: My second hatch from the incubator built from your plans is better than the first. One hatched 126 from 153 good eggs and the other one hatched 153 from 172 good eggs. I had no trouble in building the incubator from the plans bought of you. Yours truly, John S. Howey.

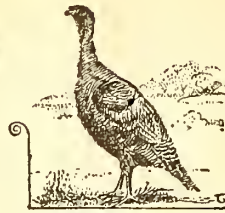
Britton, S. D., Mch. 30, 1903.

Channon, Snow & Co., Quincy, Ill. Dear Sirs: Yours of the 26th is at hand. Well my hatch is all off, came off yesterday. I hatched 213 chicks out of 224 eggs, and am more than pleased with my machine. Would not trade it for any other machine on the market. I am going to fill it again today. Yours truly, H. C. Briggs.





# TURKEYS FOR PROFIT.



(Poultry Keeper readers who are interested in turkeys are invited to send in accounts of their experience in raising this profitable class of poultry. Accounts of success in any line of the work are especially desired. The department is conducted by Mrs. Chas. Jones of Paw Paw, Ill., one of the best posted turkey growers of the country. Mrs. Jones will answer questions and give advice to those who seek help. Address all communications to Editor Poultry Keeper, Quincy, Ill.)

## SHORT CROP OF TURKEYS.

### Losses Due To Ignorance—The Turkey's Greedy Appetite—Time To Be Getting Breeding Stock.

I AM receiving so many letters of inquiry for turkeys, asking for advice about raising and feeding that it is an utter impossibility to answer all the questions in a personal letter.

A letter just at hand asks where one can buy White Turkeys. They are advertised in nearly every poultry journal. You will find some ads in this issue of Poultry Keeper. Nearly all the complaints of losing turkeys show them to be just about the same age. They begin to droop and die. Overfeeding and generally too close confinement are the causes. I lost all but one that I tried to raise with a motherly old Cochin hen. I watched them carefully to see what I could learn.

"I learned just about what I expected to when I began the job. I don't know as I am sorry that I lost them, either, as I know now for a fact what I thought I knew before. I do not think anyone knows a thing until he knows it beyond a possible doubt, and while I was sure that overfeeding was responsible for all the deaths that lice and filth and close confinement did not cause.

#### Stuffing Does the Harm.

I know overfeeding killed them, as I raised them where the chickens were fed, and each handful that was thrown down the turkeys were on hand to take the lion's share. They grew so fast I thought perhaps I was mistaken, and that turkeys could stand that kind of stuffing after all. One morning one drooped. I gave it a simple remedy for indigestion. In a few hours it had turned up its toes in a solemn protest against my way of raising turkeys with a hen. The next day or two another joined the throng of turkeys on the other shore, and so on until only one remained, and I saved him by keeping him out in the field without anything to eat only what he could pick up.

#### Great Losses Through Ignorance and Neglect.

The thought has just occurred to me, if we could only drive the turkeys back that have landed on the other shore through our ignorance or neglect, it would break the turkey market, as I think two-thirds of the turkey crop goes into a premature

grave. I saw a few days ago an item in a paper saying, there is great danger of turkeys becoming extinct if we give them half a chance. I think those fears are groundless, as every one knows a cold wet season will cause heavy losses, even were this true with turkeys that roamed through the forest in a wild state as the hunters predict a scarcity of large droves of wild turkeys. It may be years before we have two such cold, wet seasons.

#### High Prices an Inducement.

Again, it is true that good breeding turkeys are very scarce and high, but a few good seasons of nice, dry

### White Wyandottes Exclusively.

Catalogue free if you mention Poultry Keeper. **ARTHUR F. HARTMAN,** Box 111, Nappanee, Ind.

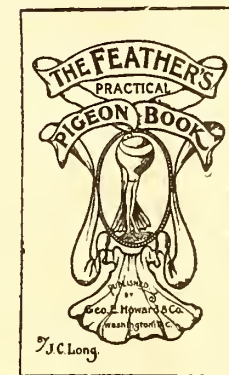
### Rhode Island Reds.

Grand birds in any number from 214-egg strain. The finest lot of R I Reds in the country, fit to win in any competition for fall and winter shows. R I Red Standard free. Smith's Silver Penciled Wyandotte, Cornell strain. Grand exhibition and breeding stock for sale. T. N. SMITH, Attleboro, Mass. 9-6

### THE SOUTH BROOKLYN STORAGE & MFG. CO.

Factory Foot 28th Street, Brooklyn. Office, 136 Water Street, New York. Manufacturers of Ground Oyster Shells, Fish Scrap, Tallow Scrap, Dried Meat Tankage and Bone for Poultry Food, and for fertilizing purposes. Also Ground Oyster Shells for country walks and roadways.

### THE PRACTICAL PIGEON BOOK

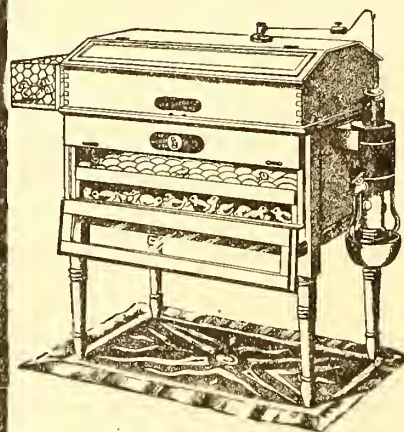


Latest and best work on Pigeon Culture—all branches. Heavy calendared paper with over fifty new halftones and etchings. Heavy cover in colors. Chapters on breeding and raising all kinds of pigeons. Text book of the country for pigeon raisers. Price, 50c, or for 75c we will send book and years subscription to the Poultry Keeper.

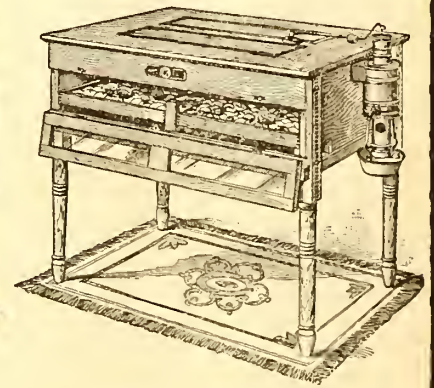
Address, **POULTRY KEEPER PUBLISHING CO.** Quincy Illinois.

# Hatch Chickens by Steam

with the simple, perfect, self-regulating



I. X. L. Wooden Hen and Brooder Combined 100 Eggs and 100 chicks. Only One Size for \$13.20.



200-Egg Size Wooden Hen for \$12.80.

**LOWEST PRICED, FIRST-CLASS HATCHERS MADE.**

SEE "VIEW OF EGG TESTER ON PAGE 423.

Send for the free illustrated catalogue with 14 colored views, and be sure to mention Poultry Keeper.

**GEO. H. STAHL, Quincy, Ill.**



sunshiny weather and we will again see large droves of turkeys; perhaps larger than ever, as the present high price has made the farmers waken to the value of the turkey crop. I find that nearly all thorough-bred stock farms are considered incomplete without their flock of turkeys, and the Bronze are the favorites. Occasionally there is a call for Bourbon Reds or White turkeys, but the majority of stock breeders take the Bronze.

**A Young Tom and Yearling Hens.**

A letter just received asks if an old tom will do for another year. An occasional breeding back may do no harm, but turkeys will not bear inbreeding as much as chickens. I prefer a young tom and yearling hens, but in times of scarcity one can not always get what is best and is obliged to make his wants conform to circumstances, and such a mating may bring good results.

**Great Scarcity This Year.**

After reading an article by Mr. A. F. Hunter I thought what a good thing it is that we do not have an army to provide a turkey dinner for. It would take all the breeding turkeys in America to fill the contract this year.

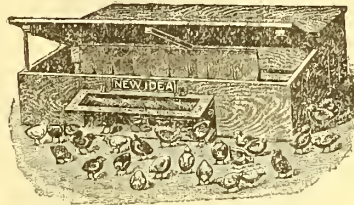
Nearly always one extreme follows another. We have had three bad seasons—one so extremely hot and dry, and two so cold and wet. Let us hope the coming season will be one of unusual prosperity in the poultry yard, especially the turkey yard, as the

weather affects them more than any other class of poultry. It is death to very young ducks to get wet but as soon as they are partially feathered out they can endure any kind of wet cold weather and can stand and thrive on any kind of stuffing and pushing. Chickens, while they do not stand cold, wet weather when young, will stand the forcing process.

**WHITE PLYMOUTH ROCKS,**  
White Holland Turkeys, Houdans, Winners at Iowa, Wisconsin and West Michigan State Fairs. Choice lot young stock at reasonable prices.  
**L. GILLON, E. R. 15, West Allis, Wis.**

**WHITE ROCKS, Fishel strain**  
May hatched, bred from \$50 pen, direct from Fishel. Cockerels, \$1 to \$3.50. Pullets, \$1 to \$2.50. White Wyandottes for sale. Terms cash.  
**BROWER & SONS, Box 50, Grafton, Ill.**

**OUR BIG \$4.15 BROODER OFFER**



**THE NEW IDEA BROODER**

Is the best, cleanest, has new system of ventilation, largest chick capacity, and costs less money than any first-class brooder on the market. Built for both INDOOR and OUT, self-regulating, perfectly safe and comes nearer filling the duties of

**The Mother Hen**

Than any other brooder on the market. No steps for chicks to climb, double walls, hot water heating system and many other good points not found in other brooders. If you are looking for a brooder you can't help but be interested in our

**Big \$4.15 Brooder Offer**

which is thoroughly described in our new poultry book and catalogue entitled:

**"How to make and save money with incubators and brooders"**

filled with valuable information on brooders, care of young chicks, etc. We want you to write for it.

**It costs you nothing**

and we are certain the information it contains will save you many dollars. WRITE TODAY and enclose 2c in stamps for postage.

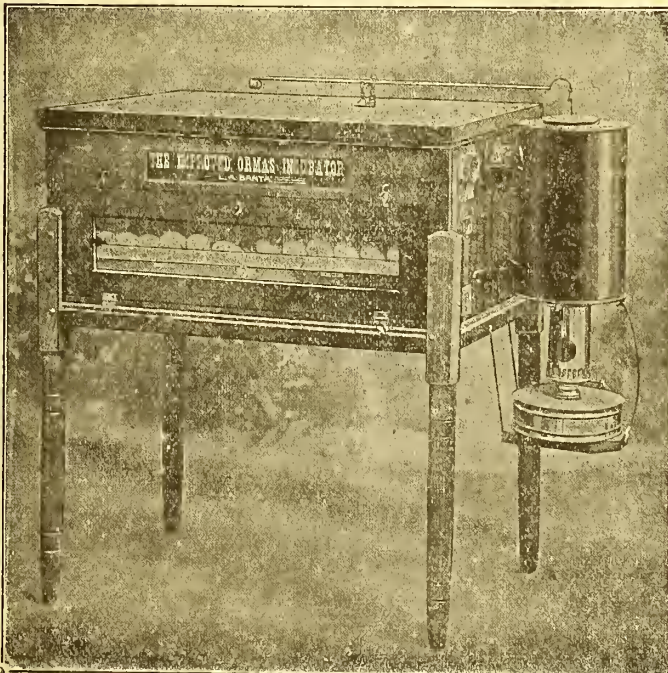
Address, **CHANNON, SNOW & CO.,**  
Box D, Quincy, Illinois.

Galveston, Tex., Feb. 21, 1903.  
Messrs. Channon, Snow & Co., Quincy, Ill.

Gentlemen: Replying to your favor of the 13th, I take pleasure in stating that the brooder which I built according to the plans and fixtures bought of you has been entirely satisfactory and have had better results with it than with any I have heretofore used.

Yours truly, James J. Hanna,  
Care Hanna & Leonard, Galveston, Tex.

**THE IMPROVED ORMAS INCUBATORS AND BROODERS**



**Good, Honest, Worthy Machines at**

**Reasonable Prices is Our Motto**

**Fully Guaranteed in Every Way.**

We have only one grade of Incubators and Brooders, and that is our best. We have only one price, and that is our lowest.

**THE STRONG POINTS**

A Solid Brass Regulator; Automatic Ventilation; Double Walls; Automatic Regulation; Double Top and Bottom; Complete Dead Air Space and Thoroughly Packed; Made of California Redwood and furnished in a first-class manner. You can pay more money for Incubators and Brooders, but you can not buy any better than the

**IMPROVED ORMAS**

Our catalogue gives full description and prices. It is free if you mention Poultry Keeper.

**L. A. BANTA, LIGONIER, INDIANA**



**Don't Go Contrary to Nature.**

But, when it comes to turkeys you must let them do their own forcing as it is contrary to their constitution to be forced. They must eat a little at a time and exercise to make their food digest. It is a curious fact that over feeding stunts them, as in the case of the turkey raised with the Cochin hen. It was very much smaller than those several weeks older that had hunted the most of their living.

**The Gorged Liver.**

I get letters saying, "My turkeys grew fine until they were about as big as a prairie chicken and then they began to droop and die, one after another, until two-thirds of my flock was dead." In some cases the letters state they opened the turkeys and found the liver covered with white or yellow spots. This indicates a diseased liver. Now what causes a diseased liver? Too much work. What causes the liver to do too much work? Too much blood to strain. And what makes too much blood? Too much food and not sufficient exercise. This in a nutshell is the cause of so many turkeys dying.

They grow fast and have voracious appetites. If the food is set before them they will eat it instead of hunting for it and it takes from only four to six weeks for them to eat themselves into their graves. If they hunt for their food, they take it leisurely. The digestive organs are not hurried. They take just what nature requires and can digest, and just enough goes into the circulation to keep them in perfect health, strong and vigorous.

A great many in the human family could take a lesson that would be a benefit by watching turkeys taking their constitutionals, roaming over the field, getting the benefit of sunshine and fresh air. If we expect to be healthy we must exercise. We often cause sickness by over eating and lack of proper exercise. I know a young woman who earned the money that took her through a medical course by rubbing the arms and limbs of ladies who were wealthy and had no desire or necessity for work as exercise. By sitting around doing nothing there was danger of paralysis or attendant ills that beset the indolent, and what was their necessity in their mode of life, helped an energetic woman to earn her profession. A certain amount of physical exercise and a certain amount of mental exercise are absolutely necessary to keep up an even balance of mind and body and keep a strong and active mind in a healthy vigorous body.

**Care of Poults.**

If turkey raisers watch and care for the young poults, not overfeed, rather underfeed instead of overfeed, giving each morning a little sharp grit, looking between the quill feathers for lice, and dust with Lambert's Death to Lice once a week, with a drop of some kind of grease on the head, keeping them out of heavy rains and morning dews until they "shoot the red," bringing them home at night until they learn the trick of coming home, it will reduce the price of turkeys next year and have and fill

**KEEP POSTED**

as to what is going on in the east. You can get the leading monthly poultry paper of New England from now until April 1, 1904, for only 10 cents by mentioning where you saw this adv.

POULTRY STANDARD, Stamford, Conn.

**IDEAL ALUMINUM LEG BANDS**



Are the acknowledged leaders. Finest and most secure lock. Quickly put on and guaranteed to stay on. Price, postpaid, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c. All supply dealers sell them. Please mention P. K. FRANK MYERS, Mfr., Box 34, Freeport, Ill. Write for B. P. Rock circular and sample band.

**de Wolf Farm,**

Pappoesquaw, Bristol, R. I.

Prize winning RHODE ISLAND RED cockerels, pallets and two-year-old stock. SPECIAL OFFER OF WINTER LAYERS. PULLETS at \$1.25 each for six or more.

1-12 M. de W Mudge Prop.

**CHEAP, GOOD, YOUNG AND OLD STOCK**  
Young fowls, \$1 to \$3; good trios, \$5. Br. Leghorns, W. Leghorns, Bar. and W. Rocks, Bl. Minorca, W. Wyandottes, Pit Games and M. B. Turkeys. Circular, Fowls and Buildings, free.  
E. W. GEER, Box 104, Farmington, Mo.

**WHITE LANGSHANS**  
**WHITE WYANDOTTES**  
**S. C. BUF. LEGHORNS**

EGGS \$2.50 per sitting from prize winning stock. Stock includes best money can buy in U. S. No birds for sale now.  
JAMES RENNIE,  
Box K, Esopus, N. Y.

**\$3.50 FOR \$1.95**

Success with Poultry (book) ....\$1.00  
Farm Poultry ..... 1.00  
Green's Fruit Grower ..... .50  
Vick's Floral Magazine ..... .50  
Poultry Keeper ..... .50

All.....\$1.95

This is one of the best offers ever made to poultry keepers. It gives the cream of the poultry literature and best fruit journal. Address,

Poultry Keeper Pub. Co.

QUINCY, ILLINOIS.



**PRIZE WINNERS**

Our S. C. W. Leghorns and White Wyandottes prove their quality by their winners. Won first at both St. Louis and Chicago 1903 Shows. Our birds and prices on birds and eggs are right.

**Mrs. Pinkerton's Chick Food**

The food that's good for little chicks—a well balanced ration prepared to meet troubles prevalent with small chicks. It controls the bowels and prevents loss. Will save its cost in a short time by saving lives of chicks. Makes 'em grow faster. Send for catalog—it's free.

Write us for advice. We're always glad to help you learn how to raise and feed little chicks. Don't fear to ask questions. We want you to make money the easiest and quickest way.

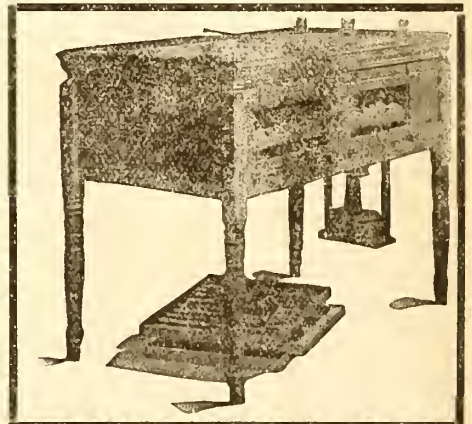
Anna L. Pinkerton Co.  
Box 32, Hastings, Neb.

**"Uncle Sam's" Testimonials**

Together with the following list of large breeders:

- WM. D. ULSH,
- F. B. MAGILL,
- SID CONGER,
- E. O. WILCOX,
- FRENCH BROS.,
- CASTLEGOULD,
- WM. C. CASEY,
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- PHILANDER WILLIAMS,
- CHAS. L. CUSHMAN,
- C. W. B. GERNERD,
- A. J. HALLOCK
- C. W. RICE,
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etc., etc., are all found in the Prairie State Catalogue.



All the Large Breeders use Prairie State Incubators and Brooders

.....382 FIRST PRIZES.....  
Write us at once for our new catalogue—it will pay you to do so.

**Prairie State Incubator Co.,**

Box 23, (Always use box number.)

Homer City, Pa



the pockets full of money to pay the trouble.

**Getting the Breeding Stock.**

Turkey growers should get their breeding stock early to get them wonted to their new quarters before the breeding season begins, and on no condition would I ever let my turkeys run at large through the breeding season as the results are not half as satisfactory as when they are yarded in large yards of about three acres, an orchard preferred. By this plan you get all their eggs, they are just as healthy and you have them constantly under your watch and care.

If any one wishes to ask questions I will cheerfully answer through the columns of the Poultry Keeper, but it is a physical impossibility for me to write personal letters and answer inquiries as I have a large correspondence and it would keep me writing all the time if I answered all the letters of inquiry that I receive. Send your questions to the editor of Poultry Keeper and they will be answered in the next issue of the paper.

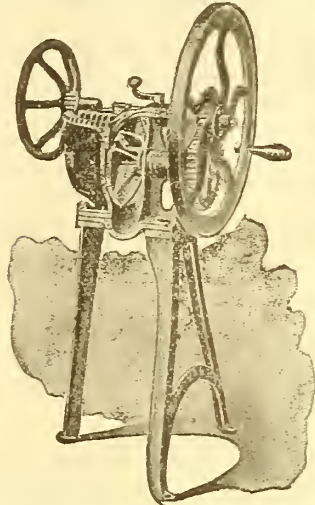
**THE HUMPHREY BONE CUTTER.**

If the average man and woman who keeps poultry for profit could be induced to try a green bone and vegetable cutter, they would soon find their profits greatly increased, and derive a great deal more satisfaction from their fowls. The Humphrey Bone Cutter is a late style machine, with open hopper, free from all partitions and with large cutting capacity and easy turning. It is simply constructed and per-

fectly built. They guarantee that their open hopper Bone Cutter will cut more bone in less time and with less labor and in better condition than will any other bone cutter. They sell their machines on this broad guarantee. The Humphrey Rapid Clover Cutter is another machine which should be found in every poultry yard. It is a clover cutter especially built for poultrymen's use, and they claim will cut clover finer and more rapidly than any other hand power cutter made. By ingenious use of screens, all pieces of clover more than one-third of an

men should look carefully after their flocks, seeing to it that they are supplied with food elements that tend to egg production. The price of eggs promises to continue high and certainly we may expect a high price for stock this coming year, owing to the scarcity of it this winter. The wise poultryman will now get ready for next year. Green bone and cut clover will do more than any other food, not only to stimulate egg production, but by improving the health and vigor of the stock, to insure fertile eggs which will produce strong, healthy chicks.

The subject of feeding and care of fowls is very thoroughly treated in some of the Humphrey literature. It will pay every one of our readers to send for these books. They are free. Address Humphrey, Glass St. Factory, Joliet, Ill. Mention Poultry Keeper.



The Humphrey Green Bone Cutter.

inch long are thrown back into the knives so that there is no possibility of long pieces going through the machine. The knives are double edged so that they will give double service.

This is the time of year when poultry-

**GOOD ROOFING!**

Means dry poultry houses. The best roofing, "NEPONSET" (don't forget the name) is so low in price that any one can afford to use it. Ask for samples. The original red-rope roofing.

F. W. BIRD & SON,  
East Walpole, Mass. Chicago, Ill.

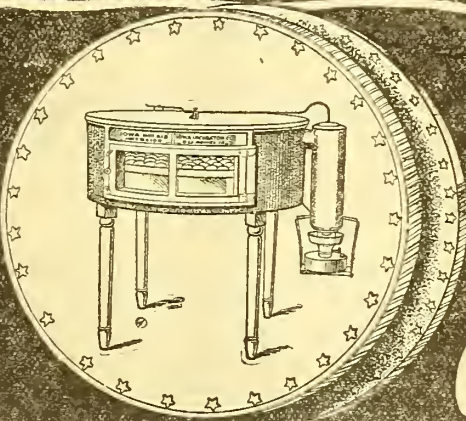
**PITTMAN'S MODEL  
POULTRY APPARATUS.**

Is the best poultry house furniture in the world. Leading poultrymen are equipping their plants with it.

**DUSTON'S WHITE WYANDOTTES  
LEAD ALL OTHE S**

I have them for sale hatched from eggs from his best prize winners, from \$1.00 up. Circular free if you mention Poultry Keeper.

C. PITTMAN, Dept. B., Santee, Nebr.



# ROUND

AS A DOLLAR  
AND AS

# GOOD \$ GOLD

## THE IOWA ROUND INCUBATOR

The standard of value in an incubator is fixed by the results received from its use by ordinary, every-day people. It is easy to claim everything, but results speak for themselves. We let those who have used the IOWA ROUND INCUBATOR speak for us.

Read These Testimonials

IOWA INCUBATOR CO.—I am well pleased with your incubators, my best hatches being 225 chicks from 240-egg machine and 49 chicks from my 60-egg machine. I hatched hen, turkey duck and guinea eggs with equal success. Mrs. H. P. HATTENDORF.

Geo. T. Ulmer, of the Standard Poultry Farm, Mont Vale, N. J., has one 120 and three 250-egg size. He says: "Its workmanlike construction and pleasing proportions, coupled with its hatching ability, ease of operation, correctly applied scientific principles, invariable, uniform and easily controlled temperature, to say nothing of the entire solution of the vexing moisture problem, stamp the IOWA with 'no cold corners,' as the only reliable incubator on the market."

There is the whole story. Send for our free book, giving full description, prices and many more testimonials.

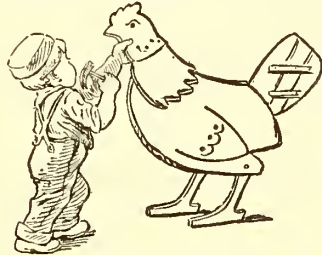
DUNKERTON, IOWA, Oct. 14, 1902.

IOWA INCUBATOR COMPANY, BOX 179 DES MOINES, IOWA



**THE TWO LEGGED HATCHER.**

In the Natural Hen Incubator, which our columns are advertising (see page 425), as in no other incubator, the hen plays a part. It seems almost a startling fact that in this one plan of hatching the instinct of the hen, the original and true hatcher, has been called back and put into service. The hen was the first teacher. Her instinct must be taken as correct. She understands her business, but her very newness in the artificial hatching world is the sen-



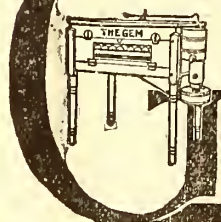
sational thing. All will agree, that if her instinct can be rightly applied, it must result in the par excellence hatcher. The question is, whether and how this instinct can be put to practical use. The Natural Hen Incubator people claim to have solved the problem. We are informed that there are upwards of 147,000 Natural Hen Incubators in successful operation. Catalog telling all about it and a 25c Lice formula may be obtained free of charge if you name Poultry Keeper when writing to Natural Hen Incubator Co., B 1, Columbus Neb.

**HOW TO GET \$2 EGGS**  
For 50c Per Sitting.

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra line stock. Book your egg orders early, and I will send when wanted. W. F. CHAMBERLAIN, (The Perfect Chick Feed Man) KIRKWOOD, MO.

**REX POULTRY FOOD**

is not a medicine nor a stimulant to force for a little time and leave the fowl's vitality lower than before. It **Brings Eggs In Winter** because it is a scientific preparation of elements health because it aids the digestion and assimilation of the other things you feed them. You only use a little at a time. This is what you have been looking for. Get circulars and free sample. **REX STOCK FOOD CO. Dept. 51, Omaha, Neb.**  
*Rex Lice Killer is always the same. It kills lice.*

**GEM INCUBATOR**

Don't waste time and good money paying for people's names on incubators. It's a good hatcher you're after. You'll not be disappointed in a Gem Incubator. Its case is well made, with triple walls. Its regulating, heating and ventilating apparatus can't be beaten—yet Gem Incubators

**Cost less than most Incubators.**

We have no agents to get big commissions. You get the benefit in a reduced price, buying direct from our factory. Get our free catalogue. In it you'll learn all about the three walls, the patent removable chick trays and nursery; the 14 oz. copper water circulator, etc. Send now and begin to make money. Gem Incubator Co., Drawer D, Dayton, Ohio

**THROW PEARL TO POULTRY**  
and watch results.

**Pearl Grit**

means healthy birds and prolific layers. Write for prices to

**THE OHIO MARBLE CO.,**  
Piqua, Ohio.

**CHAS. A. CYPHERS'****Model Incubators and Brooders**

MODEL is the name you will want on the Incubator and Brooder you buy this season, FOR THE REASON that they are made by the man who is the acknowledged authority on Artificial Incubation, and who has made the most successful hatcher the world has seen. The MODEL INCUBATOR includes the salient features of his original design, together with important improvements suggested by seven years of extensive manufacture, and correspondence with operators of incubators in every climate in all parts of the world. The MODEL BROODERS make a long step toward perfection. The diffusive principle has been embodied in the hover heating, and the chicks have all the natural conditions of health and growth. The nursery portion of the Model Colony Brooder is double walled, making it an ideal outdoor brooder, easy to heat and keep heated. The indoor brooders are as happily designed. The catalogue of these goods will interest you. Mailed free.

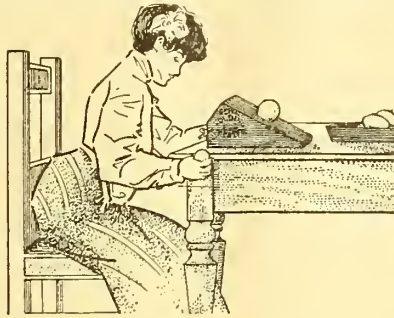
**CHAS. A. CYPHERS**

39-47 Henry Street

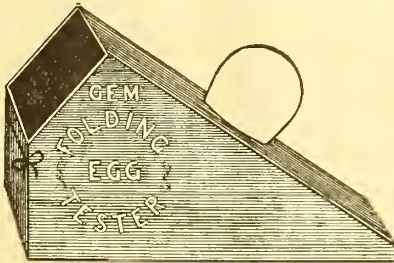
Buffalo, New York



## An Egg Tester Free



WHY put infertile eggs under the hen or in the incubator, or cook any but the freshest eggs? The egg-tester shown herewith turns the X-ray, as it were, on an egg, and permits one to see in half a second whether an egg is fresh or stale. It can be used in the day time as well as at night. It will not get out of order, and it will last a lifetime. With

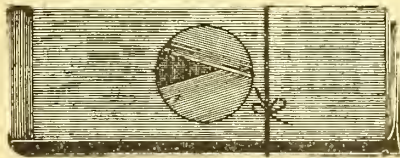


OPEN.

it goes full directions for testing eggs for both table use and hatching. Our readers can get one of these valuable and interesting articles

### FREE AND POSTPAID!

together with an incubator and brooder catalogue, containing among much other valuable and interesting information a colored plate, showing by eighteen views the development of the



CLOSED.

chick in the shell, FREE, by mentioning Poultry Keeper and sending to GEO. H. STAHL, Quincy, Ill. This is a very generous proposition indeed. It is made to the readers of only a few papers, that Mr. Stahl esteems the most highly, and our readers are certainly fortunate that this offer is made to them.



### EASY MONEY

is made by installing a Hawkeye Incubator. Little cost, little care, results sure, profits large. 80 Days' Free Trial. Catalogue free. Mention this paper.—Hawkeye Incubator Co., Box 6, Newton, Iowa.



### CLIMAX LEG BANDS

Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied. Note Reduced Prices, 12 for 20¢; 25, 35¢; 50, 60¢; 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples. The Keyes-Davis Co., Ltd., Mfrs. Battle Creek, Mich.


### Egg Economy

No need of losing a lot of fertile eggs that would easily develop into profit bringing chicks. Trust eggs to the

## OHIO INCUBATOR

Its case construction differs radically from other machines, providing chick and egg efficient protection from all exterior changes in dampness, cold or heat. Lamp, regulator, thermometer, each and every part is high grade quality. Our free catalogue answers all questions. Ohio Incubator & Brooder Co., Box 13 Columbus, Ohio





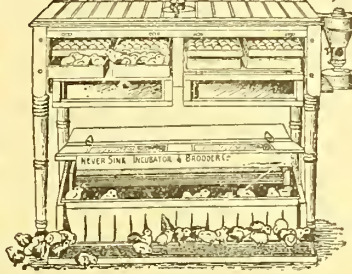
## REX LICE KILLER

is the most effective lice and mite destroyer because it is as carefully compounded as a medicine from ingredients of uniform power and quality. Sprinkled about the houses, nests and roosts IT HELPS HENS LAY. You know why. As necessary in winter because cold does not kill lice. Liquid Lice Killer is better than Powders and Rex is best of all. If other kinds have disappointed you try Rex. Write for circulars and Free Sample.

**REX STOCK FOOD CO. Dept. 51, Omaha, Neb.**  
*Rex Poultry Food is a natural egg producer. Try it.*

### HIGH GRADE

# Incubators AND Brooders



Experience is a high salaried school master. Its teachings, however, have taught us successful methods in Artificial Incubating and Brooding. Our Hot Water Incubators Regulate and Ventilate Automatically with the Egg Chamber, causing the natural moist air to pass over the eggs while going through the different stages of the hatch. Naturally results are strong, vigorous, bright, healthy chicks. Our Lamp Brooders are built on sanitary principles and highly recommended by our many customers. A long felt want accomplished worthy the attention of many unsuccessful Poultrymen the world over. There is nothing that succeeds like success. Will you have it? The Most Practical System of Today is the Never Sink Hot Water Pipe System. Built for business and economy. Catalogue if you mention Poultry Keeper.

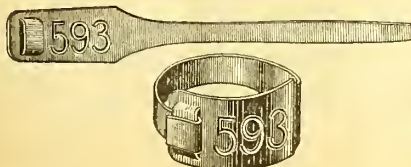
**Never Sink Incubator Co., Sta. C, Box 5-CC, Columbus, Ohio.**

## Standard of Perfection Free.

For four yearly subscriptions to Poultry Keeper at 50 cents each, we will send postpaid, copy of latest revised Standard of Perfection as a premium. Regular price of Standard is \$1. THIS OFFER IS GIVING \$3 OF VALUE FOR \$2. A \$2 bill mailed in a letter will reach us. Sample copies Poultry Keeper will be sent to work up club. Address,

Poultry Keeper Publishing Co., Quincy, Ill.

# Gopper Pliant Leg Bands



are the best and most easily adjusted, to the legs of fowls. Will not corrode or canker. Will not come off. The numbers are large and bold. Made in three sizes. When ordering name kind of fowls you have

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Price—Postpaid per dozen.....15 cts | Price—Postpaid per 50.....49 cts  |
| Price—Postpaid per 25.....25 cts    | Price—Postpaid per 100.....75 cts |

Special prices on large lots. Address,

Reliable Incubator and Brooder Company,

BOX A-15. QUINCY ILL., U. S. A.



WELL EQUIPPED POULTRY PLANT.

(Continued from Page 406.)

middlings, twelve pounds meat meal and eight pounds ground bone. This mixture, combined with chopped vegetables, makes an ideal mash food for laying hens. A little charcoal added occasionally is very beneficial, as it tends to keep the organs healthy. Above all do not keep your hens too fat. Rather be inclined the other way, both for egg production and fertility.

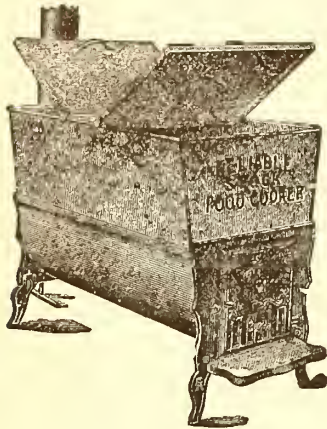
The poultry industry has never yet been overdone, but don't think for a moment that it's all sunshine. You must expect to work hard and must also expect to use good common sense. Imitate nature as nearly as possible, select a good breed and try to bring it to a high standard of perfection. Cull out in the fall and in four weeks cull again, then cull once more, and you will have retained your best stock. Mate for results, take a good poultry paper, read it carefully and you will be getting free, that which has cost some one good hard dollars to learn.

Above all advertise, describe your stock, name your prices, and under no circumstances misrepresent. A satisfied customer is a good ad. Don't be discouraged, if you work along these lines sooner or later your efforts will be recognized and the returns will follow.

**Bred to Lay**  
**WHITE WYANDOTTES.**

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper.

C. BRICAULT, Andover, Mass



**Reliable Feed Cookers**

Fill the long-felt want of a good Feed Cooker and Water Heater at a low price. They are, as the name indicates, reliable in every way. Boilers are of best No 22 galvanized steel. OUR \$5.00 FEED COOKER meets the demand for a small cooker at a low price.

|                                                 |         |
|-------------------------------------------------|---------|
| Price, 20 gallon size, burns wood only.....     | \$ 5 00 |
| Price, 35 gallon size, burns wood only.....     | 8.00    |
| Price, 50 gallon size, burns wood only.....     | 10 00   |
| Price, 100 gallon size, burns wood only.....    | 12.00   |
| Price, 35 gallon size, burns wood or coal.....  | 10.00   |
| Price, 50 gallon size, burns wood or coal.....  | 12.00   |
| Price, 100 gallon size, burns wood or coal..... | 16.00   |

Write at once for circulars and don't buy until you see what we have to offer.

Reliable Incubator & Brooder Co., U. S. A., Box A-15,  
QUINCY, ILLINOIS.

**Let Us Do Your Printing**

Our work is strictly first class, neat, attractive and up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed will bring orders, where poor printed matter spoils all.

**Good Printing is one of the Secrets of Success in the Business.**

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, **without extra charge**. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. **Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.** Terms, cash with order.

Size of cards, note heads, envelopes, etc., are given in inches. Prices for ruled note heads and letter heads quoted on two weights of high grade commercial paper. Either will give satisfaction. Prices of printing.

|                                         |        |                     |        |                           |              |
|-----------------------------------------|--------|---------------------|--------|---------------------------|--------------|
| <b>BUSINESS CARDS.</b>                  |        | <b>ENVELOPES.</b>   |        | <b>LETTER HEADS:</b>      |              |
| 250, Size 2 1/2 x 4 1/2, Square.....    | \$1.25 | 250, No. 6 1/2..... | \$1.25 | 10-lb. Paper              | 12-lb. Paper |
| 500, " 2 1/2 x 4 1/2, ".....            | 1.75   | 500, " 6 1/2.....   | 1.75   | 250, Size 8 1/2 x 11..... | \$1.90       |
| 1000, " 2 1/2 x 4 1/2, ".....           | 2.75   | 1000, " 6 1/2.....  | 2.75   | 500, " 8 1/2 x 11.....    | 2.50         |
| 250, " 2 1/2 x 4 1/2, Round Corner..... | 1.50   | 250, " 9.....       | 2.00   | 1000, " 8 1/2 x 11.....   | 3.75         |
| 500, " 2 1/2 x 4 1/2, ".....            | 2.00   | 500, " 9.....       | 3.50   |                           | 4.25         |
| 1000, " 2 1/2 x 4 1/2, ".....           | 3.25   | 1000, " 9.....      | 5.00   |                           |              |
| <b>SHIPPING TAGS.</b>                   |        | <b>BILL HEADS.</b>  |        | <b>NOTE HEADS.</b>        |              |
| 250, No. 4.....                         | \$1.00 | 250, Size 6x9.....  | \$1.60 | 6-lb. Paper.              | 7-lb. Paper  |
| 500, " 4.....                           | 1.25   | 500, " 6x9.....     | 2.00   | 250, Size 6x9.....        | \$1.50       |
| 1000, " 4.....                          | 1.75   | 1000, " 6x9.....    | 2.80   | 500, " 6x9.....           | 1.85         |
|                                         |        |                     |        | 1000, " 6x9.....          | 2.60         |

**HALF TONES.** If you want half tone made of a choice bird or pen, or portrait of yourself or any other subject, we can supply the best grade of work at 20c. per sq. inch; minimum, \$1.65. We have full office force and people are paid to answer questions and help you to get just what you want.

Let us supply you with up-to-date printing—the kind that brings business. We know we can please you. Order direct from this ad or write,

**POULTRY KEEPER PUBLISHING CO.,**  
**JOB PRINTING DEPARTMENT.** **QUINCY, ILLINOIS.**



**POULTRY HOUSE FOR THRIFTY EGG-PRODUCING WHITE PLYMOUTH ROCKS.**

(Continued from Page 409.)

grain scattered in the straw on the floor and scratching shed, and is scattered there as soon as possible after my birds go to roost of an evening. This gives them a chance to go to work as soon as it is light in the morning thus giving them the exercise needful to shake off the cold and sluggishness of the long winter night. This is varied with between corn, wheat and oats, each alternate morning.

At noon we feed a mash, usually made by cooking beef heads and mixing the juices with two parts of bran and either shorts, cornmeal or ground oats. This with the meat makes an excellent feed for my chickens. They thrive, wax fat and lay a great number of eggs, far above the average.

At night the feed is usually corn shelled. If, however, corn has been fed that morning we give wheat and oats with a few sunflower seed. They have before them at all times gravel, grit and oyster shells, and plenty of good well water.

**Providing Green Food.**

As my three runs cover about four acres they have a good range. This is sown to rye and red clover, so that green food is nearly always obtainable. When not obtainable I feed during the

winter, onion tops, turnips and cabbage, with the noon mash.

I can not tell how much I feed each hen because I feed according to the appetite they show at the time of feeding, with the exception of the morning feed, which is a little short to make them the more anxious.

When very bad weather is upon me I sometimes hang up corn on the ear, just above their heads, so that they must jump to get it. I also at times split and hang up a beef head for them to jump at, which they have learned to do in fine style.



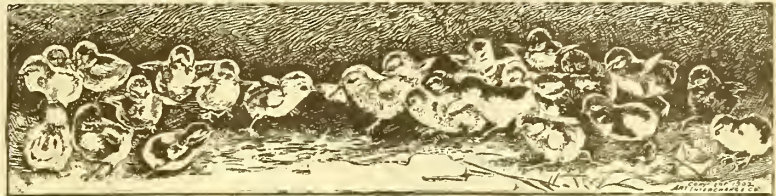
I (G. S. Sims) want everyone to know all about the **NATURAL HEN INCUBATOR**. A 200 Egg Hatcher Costs But \$3. It's Cheap and Practical, and assures success to everybody. Agents Wanted, either sex, no experience necessary. Secure your territory, Catalogue and 25c Lisc Formula **FREE**. Address, Natural Hen Incubator Co., B 1 Columbus, Neb.



**PAGE POULTRY FENCE**

is made of the largest wire, the strongest wire, and is the heaviest poultry fence manufactured. It don't cost any more erected than a netting. You'd better investigate before buying. Write us. Page Woven Wire Fence Co., Box 77, Adrian, Mich.

**FREE! "A YARD OF CHICKS" FREE!**



The Cute Chicks in our beautifully colored lithograph are so accurately drawn and truthfully painted by the noted animal artist, Ben Austrian, that you can almost see the running contest for a flap at the captive butterfly. The subject "appeals" to old and young. The picture itself is a work of art well worth a prominent place in every home. It is one yard long, on finest heavy copper-plate paper; in 12 colors, making it true to nature. Over 100,000 already sold.

**BATTLE OF THE CHICKS OUR OFFER:**

This Beautiful Picture **FREE**

Farm and Home, our national semi-monthly, already has a circulation of over 350,000. To introduce it into thousands of homes where it is not now taken, we will send you **FARM AND HOME** three months for 10 cents (silver or stamps). Further, if you will send us at the same time the name of one other person to whom we can send a free sample copy of **FARM AND HOME**, we will send you, postpaid, this beautiful Yard of Chicks.

**MORE STILL.** All accepting this offer will also receive our beautiful Illustrated Premium List, containing over 200 useful articles and some of the most remarkable offers ever made. Agents Wanted Everywhere. Liberal commission for good work. Address, mentioning this paper, **FARM AND HOME**, Chicago, Ill., or Springfield, Mass.

**They Challenge Inspection—  
Inside —  
Outside —**



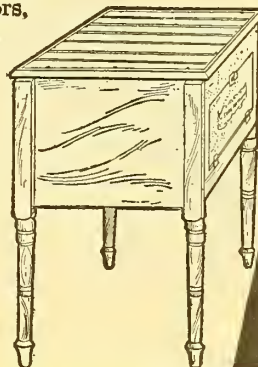
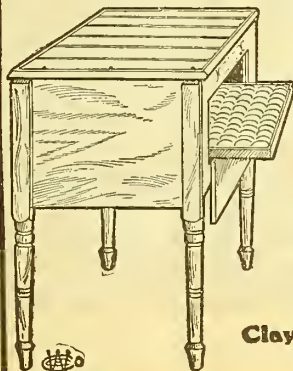
An honest article never dodges the closest scrutiny. That's why the Sure Hatch is always prepared for inspection. Whether at home or on exhibition—at the dealer's or in actual use, the Sure Hatch stands "on parade" ready to be examined. Are you interested in hatching chickens? Look at a

**Sure Hatch Incubator**

from every point—inside—outside. Examine the odorless safety lamp; the no-leak, rustless, solid copper heating system. Test the delicate, self-acting regulator that keeps the eggs at just the right temperature.

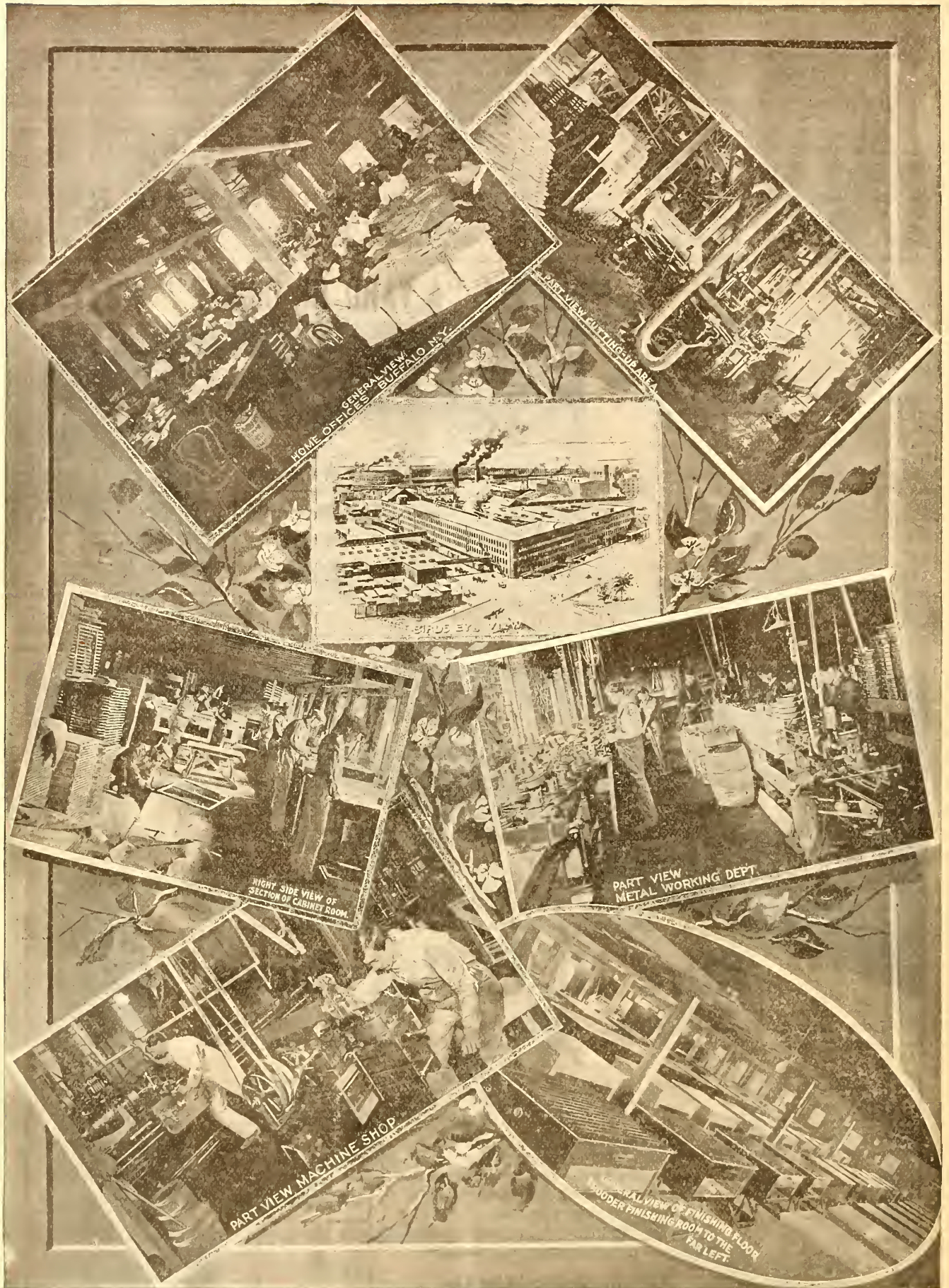
Look at the trays and nursery, the doors, etc. Notice their convenience. Last

of all try to find a weak place in the case—in joints, in lining, in casing—there isn't one there. Our guarantee means protection to you—it means live chicks—it means money in your pocket every season. Write for our free catalogue A 14 You need it if you raise chickens or sell eggs.



**Sure Hatch Incubator Co.**  
Clay Center, Neb. Indianapolis, Ind.





Bird's-eye view and specimen interior views of the Cyphers Incubator Factory, Buffalo, New York. (New and complete catalog now ready for mailing, sent free by special arrangement to those who mention Poultry Keeper..)



**WHERE THE "CYPHERS QUALITY" GOODS ARE MANUFACTURED.**

Herewith are shown a few photographic views of the main factory of the Cyphers Incubator Company, Buffalo, N. Y., which the owners claim is the largest plant in the world devoted to the manufacture of incubators, brooders, poultry appliances, poultry foods, remedies, insecticides, disinfectants and standard poultry supplies. The new Cyphers complete catalogue for 1904 now ready for mailing (copy sent free to any address if you will mention Poultry Keeper), contains forty-three photographic views of the Cyphers main factory, six views of the Cyphers poultry food and clover mill and eighteen views of the company's three branch houses located at Chicago, Boston and New York.

The growth of the Cyphers company's business has been simply phenomenal. From a modest beginning it has developed into a widely known and successful enterprise. During the year ending June, 1903, it did half a million dollars' worth of business and from July 1st to December 1st, 1903, the increase over the same period in 1902 was 94-1-3 per cent—something truly remarkable. March 1st, 1903, there were 407 persons on the company's payroll 104 of whom were employed in the general mailing and correspondence offices at Buffalo. December 15th, 1903, which may be said to represent the beginning of the busy season of 1903-1904, this company had 228 persons regularly in its employ.

Last fall the capital stock of the Cyphers Incubator Company was increased from one hundred to two hundred thousand dollars to enable it to meet the demands of its rapidly growing business. Ninety-seven and a half of the new stock subscribed for was taken by old stockholders.

The Cyphers Incubator Company is sole owner of all patents and trade marks under which its goods have been manufactured during the entire period it has been in business. Owing to the years of labor and the many thousands of dollars expended in improving the Cyphers brand of goods, all articles of this company's manufacture are placed on sale under patent, trade mark, copyright and seal, thus to protect Cyphers customers who wish to obtain the genuine "Cyphers Quality" and are unwilling to accept any substitute. More than one thousand responsible dealers located in all parts of the country, now carry these goods regularly in stock. Following is a list of the Cyphers specialties as manufactured exclusively by the Cyphers Incubator Company:

Cyphers Non-Moisture Incubators, Improved Pedigree Egg Trays, Three-Apartment Outdoor Brooders, Indoor and Sectional Brooders, Safety Brooder stoves, Chick Shelters, Portable Poultry Houses, Colony Houses, Model Brood Coops, Revolving Egg Cabinets Imperial Egg Packages, Practical Egg Testers, Drinking Fountains, Wall Fountains, Dry Food hoppers, Grit and Shell boxes, Chick Food, Forcing Food, Scratching Food, Laying Food, High Protein Beef Scraps, Shortcut Screened Clover Hay, Mealed Clover, Shredded Clover, Standard Poultry Remedies, Napreol Disinfectant, Guaranteed Roup Cure, Egg Stimulant, Lice gaint and Cyphers practical poultry books, including Profitable Poultry Keeping in All Its Branches Care and Management, Poultry Houses and Appliances, Profitable Egg Farming, Profitable Market Poultry and Capons for Profit.

Write today to nearest office for complete main catalogue and separate poultry supply catalogue for 1904. Free to any address if you will mention Poultry Keeper. Address nearest office.

**Cyphers Incubator Company.**  
Buffalo, N. Y., Court & Wilkinson Sts.  
Chicago, Ill., 310 Fifth Ave.  
New York, N. Y., 21-23 Barclay St.  
Boston, Mass., 34 Merchants Row.

**THE CHICAGO SHOW.**

The full list of judges to date are: Grew, James A. Tucker E. W. Rankin, Frank Heck Geo. C. Burgott, D. J. Lambert, Sharpe Butterfield, T. E. Orr, Dr. O. P. Bennet, Chas. McClave, M. V. Caldwell, Geo. H. Northrup, C. E. Twombly, Oscar Rehe, L. A. Jansen, Geo. W. Gorse, Geo. Ewald, Geo. J. Asman, R. W. Wales. The work designed for the late lamented John Glasgow will now be appointed to some of his associates. It is possible one or more additional may be appointed.

Nearly all the space set aside for the exhibition of Incubators, Brooders, Poultry Appliances, Foods, etc., has been taken, insuring a great success in this department.

The prizes in the Poultry Department will be \$5 first and \$2 second, a third,


fourth and fifth will also be given, should there be specimens in the class worthy of the honor. In the Pigeon Department a first, \$2, second \$1 and third, fourth and fifth, if specimens worthy are entered, will be awarded.

More than 600 specials are offered. Arrangements have been made with the Western and Central Passenger Associations for a special reduced rate of one and one-third for all exhibitors.

For full information see premium list. The first edition of 5,000 has been sent out. It was the design to mail to all interested persons but if from accident or mistake all have not been received, or if additional copies either of premium lists

or entry blanks are desired, address Fred L. Kimmey Secretary, Room 1213, Manhattan Building, Chicago, Ill.

Ben T. Laws, Conroe, Texas has a flock of Barred Plymouth Rocks that would be a credit to any section of the country. At the Houston show, held late in November, Mr. Laws won first cockerel. "I am just beginning my third year with standard-bred poultry," he writes Poultry Keeper, "and have some stock and eggs for sale. I have a few young cockerels fully as good as my first prize winner at Houston. Eggs from my best birds I will supply at \$2.50 per 15. See page 444 for ad.



**"Fine Feathers Make Fine Birds."**

Our poultry bit prevents birds from plucking out their feathers. Easily attached, cheap, does the work. In no way interferes with feeding. Write for particulars.

**Lice on Poultry**

cannot be avoided but can be cured. This cut represents Schild's Lightning Lice Killing Machine. Powder inserted in machine. Give the crank a few revolutions and the work is done—thoroughly done. The powder is thoroughly sifted into and through all the feathers clear down to the skin, and the birds are not injured in the least. Capacity 100 fowls or 300 chicks, per hour. We make the machine. We make the powder. Look to us for results. Write for free catalogue.

Charles Schild, Ionia, Mich.

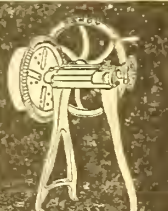
**More Eggs—More Money**

**GET A DANDY**

**DANDY GREEN BONE CUTTER**

No one questions the value of green bone as an egg maker. It increases the yield and keeps the fowls healthy as well. Neither does anyone question the value of the machine that makes green bone feeding a pleasure and a profit. Turns easy, is durable and does the work well. Don't take our word, send for one—use it 15 days—if you don't like it send it back. Descriptive catalog, prices free.

**STRATTON MFG. CO., Box 43 Erie, Pa.**



# The Great Question

for the next few months will be, "What Incubator shall I buy?" If we could talk with you face to face and explain the many advantages of the

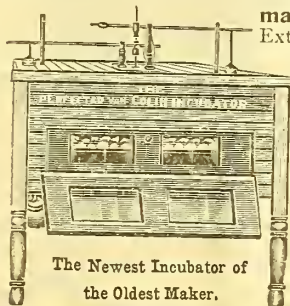
## Perfected Von Culin

the question would be answered most satisfactorily to us both. This machine is the result of practical experiments and tests extending over a period of 30 years. The inventor Mr. C. Von Culin is widely known as a pioneer in incubation. He built his first machine in 1873 and has been continuously in the manufacture of incubators and brooders ever since 1885.

The result is the **most perfect and simplest machine** on the market. Kiln-dried Lumber, Extra Thick and Packed Double Walls, Full Sized Heaters, Metal Safety Lamp, Improved Thermostat absolutely controls heat, Tested Thermometers, and a first class Egg Tester. It takes only about 1/3 as much oil to run this machine and your hatches will run about 20 per cent higher. A big saving every year. You won't quarrel with the price.

Our "Boiled Down" Catalogue tells you what you want to know, simply and in the fewest possible words. It is a time saver. We send it free. Write to-day.

**WAYLAND INCUBATOR & MFG. CO., Box 52, WAYLAND, N. Y.**  
Sole Makers of Von Culin Incubators and Brooders.





**A PRACTICAL HOME MADE BROODER.**  
(Continued from Page 405.)

hot chamber, until its stands under the center of the sheet iron and the top of the stove top within an inch of the iron. A board laid on the ground of the chamber will bring it up to the point desired. Watch the flame, until satisfied it is not going to smoke.

While the brooder is warming, cover the floor of the large chick chamber with an inch of barn chaff. This raises the chicks from the warm wooden floor, gives them something soft to nestle in at night and makes a little early exercise needed for first food. Close up nearly tight all windows and the chick's door, holding in the heat. Before leaving the brooder the first night fill the water pan on top of the stove of the brooder with cold water. The next morning you will see by the thermometer whether you are running the stove too hot or not. Adjust the wick to hold the heat at about 95 degrees. Run the brooder thirty-six hours at least before putting in the chicks.

**Secret of Good Results.**

The secret of good results with this brooder is to keep the heat where the chicks will go to sleep with their heads near the cloth fringe. In mild weather I like to find them with their heads in sight, outside of the fringe, while their bodies are in the hot chamber. If the heat is allowed to diminish until the chicks crowd to the metal tube in the middle of the "mother" chamber for warmth, the little ones will pack together, sweat and many will die. Too high, rather than too low a temperature is to be desired. When too warm the chicks can escape to the space outside the "mother," and as the temperature lowers during the night will get nearer and nearer to the hot place.

**Running the Temperature.**

The temperature the first week should run between 90 and 95 degrees when the chicks are in the "mother." The second and third weeks run at 85 to 90 degrees. When you get to using this brooder you will soon learn to depend upon the chicks' actions to tell you how high to heat the brooder.

**The Care Required.**


I need not tell you to fill the lamp every night, to see that the wick is

trimmed, and the water pan is supplied with water. You will do this carefully, as failure with the heat will be followed by failure. This brooder has given me better results than the "old hen" and will care for the chicks more satisfactory in cold weather than will the best live

mother-hen that ever lived. The early chick must have the brooder to do its best work, and to attempt to do winter work with broilers without brooders is to try to do what is almost impossible.

The first few days the chicks are to be kept in the upper part of the

**A strong point. The Nursery Draw**



here shown is one of the strongest features in all incubator construction. It is but one of many features of a peerless hatcher. Right making on right plan out of ideal incubator materials, copper and California Redwood; regulating device the most sensitive and accurate; perfection in ventilation and supplying moisture; these are other bright marks of the

**PETALUMA INCUBATORS AND BROODERS**

A means to an end—they get results. A record exceeding all other makes for twenty-six years. Work in all climates, under all conditions—hatching the most and starting the brood the best. We pay freight in U. S. Elegant catalogue free.

**Petaluma Incubator Co. Box 147, Petaluma, Cal. or Box 147, Indianapolis, Ind.**

**On The War Path**

Not for "Scalps" for I'm a "Friendly" but for orders for the

**Hiawatha Incubator**

**THE "Honest Injun" Hatcher.** This is the machine you need if you want to make a success of the chicken business. Get my catalogue. You will see that my prices are lower than any other good machine. Those that sell as cheap or cheaper, are not as good as mine. We give you every last penny of your money back if you don't like the **Hiawatha**. You won't "take a farm for it" after you have used it once. Ask the man that runs one. Don't put off ordering any longer. Be forehanded. Do it now. Let me have that order. Write today to

**THE HIAWATHA MFG. CO.**  
804 Oregon St., Hiawatha, Kan.



Not the Oldest BUT THE BEST

**Succeed with a Successful**



**IT DON'T TAKE AN EXPERT**  
to run a machine that runs itself. You are not afraid of doing the wrong thing if you have a machine that does the right thing for you. That's why you don't make mistakes and save worry and time with the

**Successful Incubators and Brooders**

**They're the Nearest Perfectly Automatic of all Machines.**  
The record of years is that they produce highest possible results under all conditions—for novice and expert. They succeed by following Nature's plan. Eastern orders filled from Buffalo house. Incubator Catalog free, with Poultry Catalog 10c.

**Des Moines Incubator Co., Dept. 47 Des Moines, Iowa.**  
100 Yards of **Fine Poultry.**



brooder. When let out the first day teach them the way to get to the warm room that they may not get lost and huddle in some part of the cool room of the house.

If you have a full pocket book it will be best to buy the best brooder you can find. If, however, it seems best to you to make a brooder, you will not go far wrong in following the plans I have outlined.

Dr. N. W. Sanborn.

**THE KIND THAT SUCCEEDS**

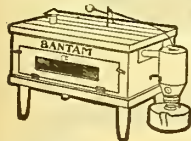
Des Moines, Iowa, Dec. 19, 1903.  
Editor Poultry Keeper.

I had the pleasure today of visiting the big factory of the Des Moines Incubator Company and of talking for half an hour with its president, Mr. J. S. Gilcrest. When I went into the factory and saw the small army of workmen busily building incubators and brooders, I began to wonder what in the world Gilcrest expected to do with them all; but after I had talked with Mr. Gilcrest a little while, and had seen the orders that came in a single mail, I began to understand why the big factory is necessary.

To the man who is interested in business principle and integrity—in fair and square dealing, the Des Moines Incubator Company is an inspiration. It started in a small way with little capital, and while other incubator companies have come and gone, it has steadily advanced until today it does a volume of business which would astonish those persons who look upon poultry men as "small fry."

I asked Mr. Gilcrest how he explained the phenomenal growth of his business. "Well," he replied, "we have good machines to start with and we have always gone on the theory that it pays to be absolutely honest with our customers. We are building incubators and brooders just as good as we possibly can. We are using the best material we can procure and we make every effort to see that they are built right. We give our customers as strong a guarantee as it is possible to make and then we see that they are perfectly satisfied. We know of no better way than that to build up a permanent business."

Mr. Gilcrest incorporates this idea in his catalogue. Over his own personal signature he guarantees his machines and every statement in the book concerning them. He says "we don't promise impossible things and we want you to hold us strictly to our promises." He asks any customer who is dissatisfied for any reason whatever, to write him personally and he will use his best endeavor to set the matter straight. That's the kind of a man Gilcrest is and I'm sure your readers will find,



**The Bantam**

beats 'em all. One customer writes he obtained 51 chicks from 50 eggs. The Bantam hatches every fertile egg every time. Catalogue proves it—sent free.

Buckeye Incubator Co.  
Box, 114, Springfield, O.

**\$9,000 Poultry Catalog**

40 kinds Turkeys, Geese, Ducks, Chickens, fowls and eggs cheap. 100 grand pictures, 20 house plans. We make bent lay, cure disease, etc. Send 10 cts. for mailing catalogue. Incubators 30 days free trial.



**CAPON TOOLS**

Complete set, with full instructions, post-paid, on receipt of \$2.50. 25 p. Capon Book free for 2c. stamp. Poultry Marker, 25c. Roup Syringe, 10c.

Gape-Worm Extractor, 25c. Remit by Money-Order or registered letter, G. P. PILLING & SONS, 1229 Callowhill Street, Philadelphia, Pa.



**FREE! FREE!**

Send for a copy of the IN-LAND POULTRY JOURNAL, and receive a fine color picture free. Cost us \$400 costs you nothing. Our paper has the admiration of every poultry man. Have you seen it? Well do not miss it. Address: Inland Poultry Journal Co., 5 Cord Bldg., Indianapolis, Ind.

as I have found, that he's a good man to do business with.

His new catalogue is one every poultry raiser ought to have. The price is ten cents, but I believe if you tell him you read this letter in Poultry Keeper he'll send you one free. Write him anyway. You ought to know him.

Very truly yours,  
Johnstone Murray.

**AN EXPERT'S OPINION.**

The following letter explains itself:  
Waterville, N. Y., Nov. 18 1903.

Mr. W. F. Chamberlain,  
Kirkwood, Mo.;

We are having excellent reports from several students using "Chamberlain's Perfect Chick Feed" and do not hesitate to recommend it.

Columbia School of Poultry Culture,  
A. N. Brigham, Director.

(See outside back cover for ad if you are not acquainted with the Chamberlain products.)

**850,000 GRAPE VINES**

69 Varieties. Also Small Fruits, Trees, &c. Best root stock. Genuine, cheap. 2 sample vines mailed for 10c. Descriptive price-list free. LEWIS ROESCH, FREDONIA, N. Y.

**50c SEED DUE BILL FREE**

Send us today, your name and address on a postal and we'll mail you FREE our handsome illustrated Seed Catalogue containing Due Bill and plan good for 50c worth of Flowers or Vegetable Seeds FREE. Your selection to introduce

**The Best Northern Grown Seeds**

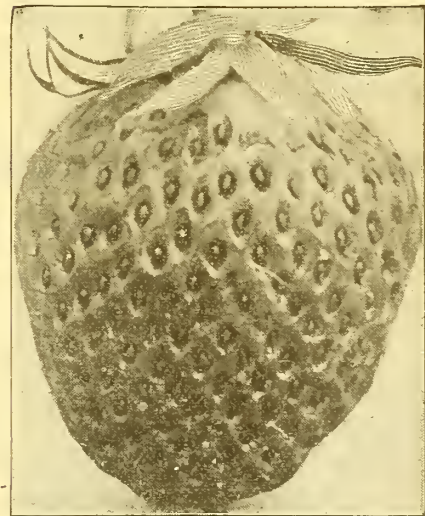
direct from grower to planter, from Saginaw Valley Seed Gardens. Seed Potatoes, Vegetables, Flowers, Field Seeds and Plants.

**100,000 PACKAGES SEEDS FREE** on above plan. Write quick. Send names of neighbors who buy seeds, \$10 cash, for best list. See the catalog.

Harry N. Hammond Seed Co., Ltd.  
Box 11 Bay City, Mich.

**FREE---GREAT CROPS OF STRAWBERRIES**

AND HOW TO GROW THEM.



A strawberry book written by the "STRAWBERRY KING," so called because he discovered the way to develop the fruit organs in a plant and make it grow two big berries where one little one grew before. He grows the biggest crops of the biggest berries ever produced and the book tells all about how he does it. It is a treatise on PLANT PHYSIOLOGY and explains correct principles in fruit growing. It is worth its weight in gold to any fruit grower. Will be sent free to all readers of Poultry Keeper. Send your address now. The finest THOROUGHERED PEDIGREE PLANTS in the world.  
R. M. KELLOGG, Three Rivers, Mich.



**MONEY IN GOOD CABBAGE**

My elegant new book for seed growers is a storehouse of rare seed information. Tells about my famous varieties of money-making cabbage.

**WRITE FREE** Mention TO-DAY this Paper

and I will send you a package of **Buckbee's New Early Marvel Cabbage** the best-growing variety on earth, together with a copy of my great Seed Book.

H. W. BUCKBEE  
Dept. L-30 Rockford Seed Farms  
Rockford, Illinois

**SALZER'S FARM SEED NOVELTIES**

**Salzer's National Oats.**  
Most prolific Oats on earth. The U. S. Dept. of Agriculture, Washington, says: "Salzer's Oats are the best out of over four hundred sorts tested by us." This grand Oat yielded in Wisconsin 156 bu., Ohio 187 bu., Michigan 231 bu., Missouri 255 bu., and North Dakota 310 bu. per acre, and will positively do as well by you. Try it, sir, and be convinced.

**A Few Sworn to Yields.**  
Salzer's Beardless Barley, 121 bu. per A.  
Salzer's Homebuilder Corn, 304 bu. per A.  
Salzer's Big Four Oats, 250 bu. per A.  
Salzer's New National Oats, 310 bu. per A.  
Salzer's Potatoes, 736 bu. per A.  
Salzer's Onions, 1,000 bu. per A.

All of our Farm and Vegetable Seeds are pedigreed stock, bred right up to big yields.

**Salzer's Speltz (Emmer).**  
Greatest cereal wonder of the age. It is not corn nor wheat, nor rye, nor barley, nor oats, but a golden combination of them all, yielding 80 bu. of grain and 4 tons of rich straw lay per acre. Greatest stock food on earth. Does well everywhere.

**Salzer's Million Dollar Grass.**  
Most talked of grass on earth. Editors and College Professors and Agricultural Lecturers praise it without stint; yields 14 tons of rich hay and lots of pasture besides, per acre.

**Salzer's Teosinte.**  
Salzer's Teosinte produces 113 rich, juicy, sweet, leafy stocks from one kernel of seed, 14 feet high in 90 days; yielding fully 80 tons of green fodder per acre, doing well everywhere, East, West, South or North.

**Grasses and Clovers.**  
Only large growers of grasses and clovers for seed in America. Operate over 6,000 acres. Our seeds are warranted. We make a great specialty of Grasses and Clovers, Fodder Plants, Corn, Potatoes, Onions, Cabbage, and all sorts of Vegetable Seeds.

**For 10c in Stamps**  
and the name of this paper, we will send you a lot of farm seed samples, including some of above, together with our mammoth 140 page illustrated catalogue, for but 10c in postage stamps.  
Send for same to-day.

**JOHN A. SALZER SEED CO.  
LA CROSSE, WIS.**



**POULTRY CULTURE FOR PROFIT.**

(Continued from Page 403.)

**Summer Quarters for Growing Stock.**

"The chicks are generally able to leave the artificial heat of the brooder at about eight weeks old. As soon as the nights begin to get warm in the spring and they can keep out of doors on the ground without being chilled, the little chicks should be put in cold brooders or "colony-houses," as they are often called. A suitable house of this sort is often built to accommodate a hundred of these little chicks. Here the chicks can stay from the time they are put out in early spring until the pullets are housed in their winter quarters in the autumn. The cockerels should be housed separately, those classed as "culls" being sold off to market, while the promising ones are kept to sell as breeders, or perhaps exhibited at a local or national poultry show the next winter.

**Winter Quarters for Layers.**

"A poultry farm making a specialty of furnishing a private trade with strictly fresh table eggs is obliged to build comfortable houses for the layers; otherwise it is not possible to get the eggs in sufficient quantities to supply customers. In order to get eggs at this season of the year it is necessary to have pullets that are at least six months old by the first of November. Given then, early hatched pullets, say of the Single Comb White Leghorn variety, of a well-established laying strain, and comfortable winter quarters for the fowls, the problem of producing eggs when they are generally scarce and high is more than half solved.

"The only remaining factors of the problem are the right kind of care and intelligent feeding. It is necessary to have a house that is warm enough in winter without artificial heat and yet so well ventilated as to be perfectly cool in summer. Moreover, such a house should be constructed as to allow a strict economy of la-

bor in caring for the flock. The best style of house the writer is familiar with, and one that can be built at a moderate cost, is shown in part on the first page. These pictures do not give an accurate idea of the building, but show the fowls feeding in their separate yards. This building is two hundred and fifty feet long by sixteen feet wide and is capable of housing five hundred layers.

**The Breeders.**

"It is built on a line running east and west, so that the yards or parks will face to the south. An alleyway inside the building three and one-half feet wide extends along the entire north side. Doors open from the alleyway into each of the twenty pens into

**North-Western Poultry Farm,**

Polk City, Iowa.  
L. B. JENNINGS & SON, Proprs.

World's leading strains of fancy poultry. Cockerels \$2 to \$5; Imperial Pekin Ducks, \$1.50 each; \$5 per pen. Eggs, \$1.50 per 13, \$3 per 30.

**For a Half Dollar**

You can get two of the best magazines published for a full year's subscription. These two leaders are as follows:

**THE FEATHER**

A large illustrated monthly on Poultry and Pigeons; with four beautiful color-plates of fowls. Worth at least a dollar.

**The National Illustrated Magazine**

The leading literary magazine of the National Capital. Just the kind of a publication the whole family will read. Send the 50 cents and get these two great papers for a whole year. 11-3

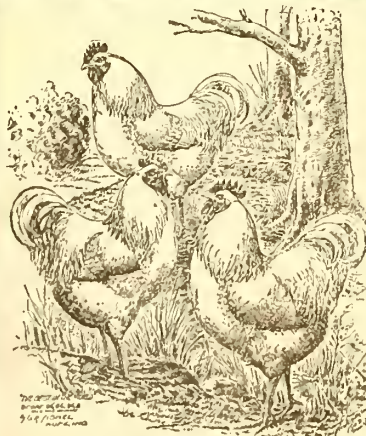
**GEO. E. HOWARD,**

PUBLISHER,

714, 12th Street N. W. Washington, D. C.

**DO IT NOW**  
**SEND YOUR NAME TO Humphrey**  
Class Street Factory, JOLIET, ILL.

**Get the Humphrey Poultry Book Free**  
If you feed fowls or brood chicks you really ought to know about the famous Humphrey machines for the hen owners. These are they:  
**The Humphrey Open Hopper Bone Cutter.**  
The bone cutter that is guaranteed to cut more green bone, in less time, with less labor and in better condition than any other or your money back. A free trial if you want it. Runs easily because you control the feed. No partitions in the hopper. No "feed screws" nor troublesome springs. Only three working parts.  
**The Humphrey Rapid Clover Cutter**  
cuts clover and alfalfa to 1/4 in. lengths. No long pieces can get past the knives. Forty cuts to each revolution. Strong and durable.  
**The Humphrey Pure Air Brooder,** the only really sanitary, cleanly, perfectly ventilated brooder made. You'll be interested in its unique principle. Built on common sense lines. Circular chamber. No cold corners. It costs a little more than some, but it's worth a great deal more.  
They are guaranteed—and they do the work. It costs you nothing to investigate. Send your name to Humphrey.



**SIMPLY WONDERFUL**

how, at nearly every poultry show being held, the winners in the

White Plymouth Rock Class are Birds Direct from or Descendents of the

**Fishel's White Plymouth Rocks**

Our last exhibit at American Poultry Ass'n. meeting at Indianapolis Ind., September 14-18, 1903, the Fishel White Rocks won 1st, 2d, 3d prize cock; 1st, 2d, 3d prize hen; 1st, 2d, 3d prize cockerel; 1st, 2d prize pullet; 1st, 2d, 3d prize pen. What better proof can I give you as to the excellent quality of this season's matings? At Chicago, Atlanta, New York State Show, St. Louis, Indianapolis, Great Crystal Palace and Dairy Shows, England, my birds have won the leading prizes. I have something over 4000 birds to sell. Exhibition Birds able to win any where.

Send a 2 cent stamp for my 36-page Catalogue. It gives half tones of my winners, tells how to feed, etc.

FOX TERRIERS FOR SALE.

**U. R. FISHEL, - - - - Box K-2, Hope, Indiana.**



which the building is divided. These pens are twelve by twelve feet and accommodate twenty-five females, with two males. Both males, however, are not on the floor at the same time. A small coop is nailed to the south side of the pens, between the windows and close under the ceiling. One male is kept in this coop while the other is at liberty. They are changed every twenty-four hours. This plan insures a better percentage of fertile eggs than if the cock bird ran continually with so many hens or pullets.

"When a breeder of the Mediterranean class is mating special pens to produce exhibition stock, he rarely puts more than eight to ten females with a male; and when he has some special results in view, like intensifying the whiteness of the plumage, five-point combs, proper carriage, etc., three or four females to one male is all he can use and sometimes a single pair is mated together. While at our farm we each year mate a few special exhibition pens, it would not be practicable to house several thousand birds in such small pens or flocks. The most practical division seems to be in flocks of twenty-five each, and we are enabled to get the desired percentage of fertility by exchanging cockerels every day.

"Continuing the description of this laying-house, roosts and nest boxes are arranged along the north side of each pen. (See illustration.) Doors open from one pen to the other. In the middle of the building is a feed-room ten by twelve. The sides of the building from sill to eaves are seven feet. The roof is shingled and has a two-thirds pitch.

**"Facts and Figures."**

"As a guarantee of good faith, and for the benefit of beginners, I will open our books and transcribe the record for April, 1903:

**Expenditures.**

|                    |       |          |
|--------------------|-------|----------|
| Wages              | ..... | \$184.03 |
| Advertising        | ..... | 83.45    |
| Feed (fowls)       | ..... | 97.76    |
| Feed (chick)       | ..... | 18.67    |
| Postage            | ..... | 32.53    |
| Stationery         | ..... | 12.00    |
| Insurance          | ..... | 13.87    |
| Coal               | ..... | 21.32    |
| Lighting           | ..... | 6.65     |
| Printing           | ..... | 14.20    |
| Sundry expenses    | ..... | 34.97    |
| Express            | ..... | 3.20     |
| Extras (estimated) | ..... | 25.80    |

\$548.45  
Profit ..... \$251.10

**RECEIPTS.**

|                    |       |          |
|--------------------|-------|----------|
| Stock sold         | ..... | \$205.50 |
| Market eggs sold   | ..... | 48.77    |
| Hatching eggs sold | ..... | 521.68   |
| Sundry sales       | ..... | 23.60    |

\$799.55

"We have invested in the farm, building, etc., thirty thousand. Our profits for the month of April, 1903, amount to two hundred and fifty dollars. During the fall our sales run much higher; some months reaching one thousand five hundred dollars. Granted therefore, we make an average profit of only two hundred dollars per month, our earnings would

**450,000 TREES**

200 varieties. Also Grapes, Small Fruits etc. Best rooted stock. Genuine, cheap. 2 sample currants mailed for 10c. Desc. price list free. Lewis Roesch, Fredonia, N. Y.

**HEALTHY TREES** Free from disease. Honest in quality.

Budded Peaches, 5c; Budded Cherries, 20c; good varieties. Concord Grapes, \$3 per 100. 1000 Ash \$1.20. B. and H. Locust, Rus. Mulberry, &c. Low price. We pay freight. Catalog free. Calbraith Nurseries, Box 78 Fairbury, Neb.

**If You Want Quality**

try eggs or birds from my 23 varieties of land and water fowls. There's nothing better. Eggs by the sitting or hundred. Fertility guaranteed. Write for catalogue to-day. It is free.

D. A. MOUNT, BOX 1, JAMESBURG, N. J.

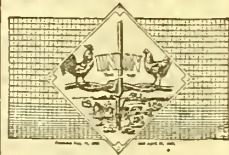
The Pine Tree Farm.

**S. G. BROWN LEGHORNS**

Won Erie, Pa., Nov. 24 to 28, 1st cock, 92½; 1st pullet, 94½; 2d pullet, 93½; 2d cockerel; 3d hen. Also specials for best striped cockerels and best colored pullet, scored by Judge Elcknell. Birds from \$2 to \$5. Eggs \$1.25; from select pens \$2 per 15.

FRANK SCHELLANG, R. F. D. No. 1, ERIE, PA.

**Union Lock Poultry Fencing**



Has been fully tested and found superior to all others.

**Fine Mesh at Bottom for Small Chicks**

This feature adds greatly to the value of fence and places it in a class by itself. Every part stretches perfectly; does not sag between posts and will fit uneven ground without cutting. Union Lock Poultry Fencing is made at mills in Connecticut, Illinois and California. We pay freight and allow 30 days free trial. Send for free catalog of Farm, Lawn and Poultry Fencing. Do it today. CASE BROS., Colchester, Conn.

**PLYMOUTH FARMS**

**BUFF, BARRED, WHITE ROCKS.**

Booklet describing our farm, history of our birds, etc., mailed free, if you mention P. K.

**Plymouth Poultry Farm Co.,**

Box K, York, Pa.

**Egg Box With Nests Attached.**



Strictly Fresh Eggs.

OBLONG OR SQUARE.

Doz. 20c; 50, 60c; 100, \$1; 500, \$4.25; 1000, \$7.50; delivered PLAT f. o. b., N. Y. City. Orders of 1000 or over special printing. Write for prices for larger quantities. Waxed paper butter print boxes—special boxes or cartons.

F. R. & F. J. VERNON, 1013 Grand St., Brooklyn, N. Y.

**SAVE SUBSCRIPTION MONEY.**

Don't be bothered with sending subscriptions to your magazines and periodicals to each different publication. Let US Send For You and Save Money. We have Clubbing Rates on everything published. If the following offers do not include what you want send list on postal and we will quote price by return mail. The following offers include the highest grade publications in the country. You know them all. When ordering please give club number.

**NO. 1.**

|                                      |       |        |
|--------------------------------------|-------|--------|
| Ladies Home Journal (monthly)        | ..... | \$1.00 |
| Saturday Evening Post (special rate) | ..... | 1.25   |
| Success (monthly)                    | ..... | 1.00   |
| Poultry Keeper (monthly)             | ..... | .50    |

Our price ..... \$2.95

**NO. 2.**

|                                   |       |        |
|-----------------------------------|-------|--------|
| House Beautiful (monthly)         | ..... | \$2.00 |
| Country Life in America (monthly) | ..... | 3.00   |
| Poultry Keeper                    | ..... | .50    |

Our price ..... \$4.40

**NO. 3.**

|                            |       |        |
|----------------------------|-------|--------|
| Breeders Gazette (weekly)  | ..... | \$2.00 |
| Country Gentleman (weekly) | ..... | 1.50   |
| Poultry Keeper             | ..... | .50    |

Our price ..... \$3.00

**NO. 4.**

|                                    |       |        |
|------------------------------------|-------|--------|
| National Stockman & Farmer (w'kly) | ..... | \$1.00 |
| Green's Fruit Grower (monthly)     | ..... | .50    |
| Poultry Keeper                     | ..... | .50    |

Our price ..... \$1.50

**NO. 5.**

|                          |       |        |
|--------------------------|-------|--------|
| Inter Ocean (weekly)     | ..... | \$1.00 |
| Vicks Magazine (monthly) | ..... | .50    |
| Poultry Keeper           | ..... | .50    |

Our price ..... \$1.50

**NO. 6.**

|                                    |       |        |
|------------------------------------|-------|--------|
| Farm Poultry (semi-monthly)        | ..... | \$1.00 |
| American Poul. Advocate (monthly)  | ..... | .25    |
| Success With Poultry (120-page bk) | ..... | 1.00   |
| Poultry Keeper (monthly)           | ..... | .50    |

Our price ..... \$1.95  
Address, Poultry Keeper Pub. Co., Quincy, Ill.

**GOLDEN WYANDOTTES** Winners at American show. Bred and owned by I. X. L. Poultry Yards, J. F. Scholz, Prop., Erie, Pa. Stock and eggs for sale. Circular free if you mention Poultry Keeper. 11-7

**Our New Incubator**



Has Triple Walls; Double Dead Air Space; Double Doors; Uniform Temperature; Runs the best; hatches the Best Need an incubator? Drop us a card and please mention Poultry Keeper.

Hoosier State Incubator Co., Amo, Indiana.

**PINELAND**  
INCUBATORS HATCH GREATEST NUMBER OF FINEST CHICKS. BROODERS HAVE NEVER BEEN EQUALLED.

**FIDELITY FOOD FOR YOUNG CHICKS.**

Used everywhere by practical poultrymen and specialist fanciers with unflinching success. Insures perfect health and promotes rapid growth. Concise catalogue from

Pineland Incubator & Brooder Co., Box C, Jamesburg, N. J., U. S. A.

**THE IMPROVED CHAMPION LEG BAND.**



Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock, they can't loose off. Postpaid 12-15c; 25-30c; 50-50c; 100-80c; Initials extra 10c per 100.

The SUPERIOR is securely locked can't lose off, six sizes. State breed and sex. Postpaid 12-20c; 25-35c; 60-55c; 100-\$1; sample for stamp. Circular free.

T. CADWALLADER, Box 704, Salem, Ohio.



be eight per cent per annum on capital invested.

"During April, 1903, we had on hand the following stock: Pullets, 1,105; hens, 222; cocks, 16; cockerels, 81; chicks of this spring's hatch, 3,890; total, 5,314. Our flock during April laid 13,032 eggs. Of these we sold for hatching and to market 7,444, and placed in our incubators, 5,588.

**Requires Careful Management.**

"We are often asked by those unacquainted with poultry-raising or by the ambitious beginner whether or not there is money in poultry. To such our experience gives a direct yes, but attaches one essential condition, namely, that poultry-raising be managed with the same care and knowledge that is needed to make success of any other legitimate business. Our first year, we believe, was not unlike the first year of hundreds of others who suffered from the prevalent fallacy that anyone could raise poultry. It took one year's losses and discouragements to show us the fallacy, and we may add that the second year was spent in making good the first year's losses by scientific and well-directed hard work.

"Successful or profitable poultry-raising depends upon two fundamental conditions; First, a thorough knowledge of the subject in all its departments. To be explicit, one must understand mating, incubating and raising to maturity the fowl, which is the basis of the enterprise. Then no less important is an intimate acquaintance with markets and most advantageous seasons of marketing. Second, and equally necessary, is hard and persistent effort along the above mentioned lines. The agricultural colleges in our country and Canada, with the work done by experiment stations under state and national supervision, have done much to make general a knowledge of this most intensive branch of agriculture."

**SOME REMARKABLE TURKEYS.**

Mrs. Chas. Jones, Paw Paw, Ill., specialist in the breeding of Mammoth Bronze Turkeys writes: I went to the International show and took my two big toms to the poultry exhibit that was held at that time. They won first and second and attracted a great deal of attention, everyone saying they never saw such large fine turkeys. Their combined weight, crated in lath and cloth coops was one hundred and six pounds. They were the heaviest turkeys that any one exhibitor has

ever shown. They had been fed nothing to fatten them, picking up their own living, where the hogs were fed I found an order awaiting me when I arrived home for Barred Rocks to go to Manila and another to go to Germany.

**WORLD'S FAIR POULTRY COMMITTEE.**

The American Poultry Association's World's Fair committee consists of Henry Steinmesch, St. Louis; T. F. McGrew, N. Y. and U. R. Fischel, Hope, Ind. Mr. Steinmesch, the chairman and resident member, is a practical breeder, thoroughly familiar with St. Louis conditions and in close touch with the progress of preparations for the poultry, pigeon and pet stock show at the World's Fair. The other members are equally well known to poultry breeders. The committee is empowered to take up the matter of reception, care, exhibition and return of fowls and pigeons, the owners of which may be unable to give them personal attention at the World's Fair show.

J. F. Scholz, Erie, Pa. Golden Wyandotte specialist, is sending to his friends a nobby little calendar, showing his fowl in natural colors. To those who name Poultry Keeper he will send one free. At the Erie Show (Nov. 24-25) Mr. Scholz won, second cock, first and second cockerels, second third and fifth pullets, J. Y. Bicknell, judge. Competition was strong.

**"This for That"** Trade anything you have for anything you want. Get our gigantic paper which prints thousands of exchange advertisements. Six months' trial subscription, 10 cts. "THIS FOR THAT" PUB. CO., 2-274 Star Bldg., CHICAGO.

**Cold Weather Hatches**

\$10 Special 120 Egg Machine

MANUFACTURED BY E. C.

**M-M-JOHNSON**

CLAY CENTER NEBRASKA



# QUESTIONS & ANSWERS

(In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address, Editor Poultry Keeper, Quincy, Ill. Give name and address in full, and only initials will be used in our answer.—ED.

## COOLING EGGS—PULLETS DIE—GREEN FOOD.

May I ask a question or two to be answered in your next issue? 1.—I read your article, "Knack of Running an Incubator" and it opened my eyes to an idea I have long wanted knowledge about. I have a 200 egg incubator, and the temperature varies in this climate—very cool at night and hot in middle of day. I want to know if it is best in "cooling" eggs to let them remain in the incubator with the door open until temperature gets to 70 then close the doors, or if taken out and left out and doors closed how long must they be out? Can you tell me of a good article on artificial incubation that is explicit for a beginner?

2.—I had an 8 month old S. C. Brown Leghorn pullet drop dead and not knowing any cause, would ask you if you can explain it, since a number have died they seemed perfectly healthy, and these had free range. There was no sign of broken skin or ruffled feathers. Just would find them lying dead about the place. It could not have been cholera as I have cholera mixture in the water for molting for **OF** (Douglas mixture), which all (300) **ilk** were free to drink from.

3.—What can my yarded fowls in place of "green" do daily? We have nothing raised on the place yet. Is clover the best thing and most reasonable to buy? Must I buy beef scraps too for meat, or will fresh fish three times a week chopped do? What must I keep before them all the time? Grit, oyster shell and charcoal and beef scraps? E. W. B.

1.—If your regulator does not hold the temperature even you should assist it by turning the lamp up or down. It is important that the temperature be kept comparatively even. When cooling the eggs it is usually best to remove the trays and close the incubator so that when returned they will heat up at once. How long to keep them out depends on the temperature of the room, but return them to the incubator as soon as a thermometer placed on the eggs falls to 70. Good articles on incubation are constantly appearing in Poultry Keeper. If you wish a book on the subject "Artificial Incubating and Brooding" will give much of the in-

formation you desire, price 50 cents from this office.

2.—We are unable to tell the cause of the death of your fowls, but are inclined to think they have eaten poisonous food.

3.—Clover answers in a measure for

Trade Your Real Estate for anything you want. Get our gigantic paper that prints thousands of exchange ads. 6 mo. trial sub. 10c. "This For That." 8-11 Star Bldg., Chicago.

## SHOEMAKER'S BOOK ON POULTRY



and ALMANAC for 1904

There is nothing in the world like it. It contains the following: 212 large pages, handsomely illustrated. A number of most beautifully colored plates, true to life. It tells all about all kinds of Thoroughbred Fowls, with life-like illustrations and prices of same. It tells how to raise poultry successfully and how to treat all diseases common among them. It gives working plans and illustrations of convenient Poultry Houses. It tells all about INCUBATORS and BROODERS. It gives full instructions for operating all kinds of Incubators. This chapter is marvelously complete and is worth dollars to anyone using an incubator. It gives descriptions and prices of Incubators, Brooders, and all kinds of Poultry Supplies. In fact, it is an encyclopedia of chickendom and will be mailed to anyone on receipt of only 15 cents. Your money refunded, if not pleased. Address C. C. SHOEMAKER, Box 714, Freeport, Ill.

## Few people know just what to do for MOULTING FOWLS.

We were a long time finding out just what was best. We know now; so does everyone else who has ever tried

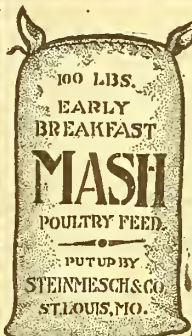
### STAR MOULTINE

Like all other Star Products it works to perfection when moulting time comes. Star Moulting makes chickens get down to business, finish moulting, and get back promptly to their fall work of laying eggs. Try it just once and you never again will be without it. Money back if not satisfied. Price 25c. per lb., by mail, 40c. If you keep fowls send us your address and we will send you our catalogue of Incubators, Brooders and Supplies. There are things in it you need.

STAR INCUBATOR & BROODER CO., Bound Brook, N. J. New York; 216 Fulton St.



"Something New" Try it & if you like it Buy it. Sample free.



## STEINMESCH'S EARLY BREAKFAST Mash

Every authority on poultry recommends a morning mash for poultry, especially during the fall and winter months. Our Mash is made up of the very choicest Winter Wheat Bran, and Middlings, Crushed Oats, Linseed Meal, Bone and Beef Meal, Clover Meal, Charcoal, etc. Nothing better for growing and adult fowls; will push the young stock to quick maturity, will help adults through the moult, insuring health and vigor for both. The greatest egg producer ever offered.

Price \$1.50 for 50 lbs., \$2.50 for 100 lbs., and we pay the freight on 100 lbs. or more to any part of the United States east of the Rocky Mountains. Write for catalogue. Circulars free.

A Great Big Sack Full 100 FEEDS FOR IOHENS.

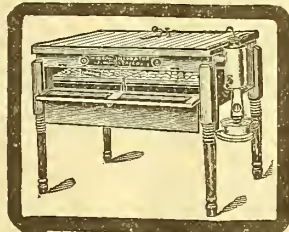
We are exclusive manufacturers of STEINMESCH'S EXTRA QUALITY "QUICK MEAL CHICK FEED" \$2.32 for 100 lbs., \$1.12 for 50 lbs. Samples free.

## STEINMESCH & CO.

MANUFACTURERS

Dealers in Fancy Poultry & Poultry Supplies of every Description

No. 5 North Main St.-----St. Louis, Mo.



## "The Man Who Knows"

has put twenty years of practical poultry incubator and brooder experience into machines of this class. He put out thousands of them last year, and they gave the most perfect satisfaction.

## Miller's

## Ideal Incubators and Brooders

are good, common sense machines, made for the people who want results, without bother and loss. They are entirely automatic. They heat with hot water. Miller's experience found that to be the best. They are sent anywhere in the United States on

## Thirty Days Trial.

If not satisfactory in all ways, send them back. Miller backs them with his reputation and money, and he is "The Man Who Knows." Large Poultry, Poultry Supply and Incubator Book mailed free. Ask for it to-day.

J. W. MILLER COMPANY, Box 19, FREEPORT, ILLINOIS.





green food, but they will do better if they have something more succulent such as cabbage, beets, ensilage, etc. Fish is good, fed in the amount of about half an ounce to the fowl.

### COLDS—TO TELL THE SEX OF GEESE.

1.—Please tell me in next Poultry Keeper what to do for my chickens. Last winter they all had the roup. I lost about twenty; the rest I cured. Last spring I raised over 200 pullets and now some of them sneeze and "tick."

2.—Please tell how to distinguish the sex of Toulouse Geese.

Subscriber.

1.—Your fowls have colds, which if they are predisposed to roup may terminate in that disease. Place a teaspoonful of permanganate of potash in each gallon of the drinking water. If any of the fowls wheeze badly sprinkle a pinch of chlorate of potash down the throat once a day.

2.—The female has a coarse voice, while that of the male is fine. The male is heavier on the neck and masculine in appearance. A gander should weigh about two pounds heavier than the goose.

### WHY DO HENS SIT?

I want to ask you a question which I was in an argument about. Why do the Brahmas, Cochins and Rocks want to sit so much more than the small breeds, and how did the Leghorns, Minorcas, etc., become non-sitters? Were they always so, or did they once raise their own young?

H. M. S., Kasson, Minn.

It is simply a characteristic the same as any other breed characteristic and is distinguished by the color of the egg, the non-sitting breeds laying white and sitting breeds dark shelled eggs. Bantams, Silkies and Games,

## Factory Price

Direct to You

We are the only general merchandise house which owns, controls and directly manages a vehicle factory. We build our vehicles from the ground up and know what's under the paint. We add but one small profit to the cost of material and labor, hence our customers are getting a better made job in a finer finish and at a lower price than can possibly be secured elsewhere.

\$19.80

"LEADER" Road Wagon—imitation leather trimmed; carpet, wrench and shafts; just as illustrated. Write for further description.



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"CHALLENGE" Buggy—24 in. body, cloth trimmed; top, back and side curtains, storm apron, carpet and shafts. Write for details.

We also have better grades up to the very best and most stylish that can possibly be put together.

VEHICLE CATALOGUE FREE. Send for it today. It will give particulars about the above work. It also illustrates and describes the newest and best line of Runabouts, Stanhopes, Buggies, Phaetons, Surreys, Carriages, Carts, Spring Wagons, etc., ever quoted direct to the buyer. It explains the difference between good and unreliable work—between the hand-painted and the dipped buggy—and also explains our Guarantee of Satisfaction and

30 Days' Trial Offer.

Send a postal today for our Vehicle Cat. No. E1.

Montgomery Ward & Co.  
Chicago

A special circular quoting our entire line of Sleighs, Sleds, etc., will be sent at the same time, if you request it.



## Cyphers Roup Cure

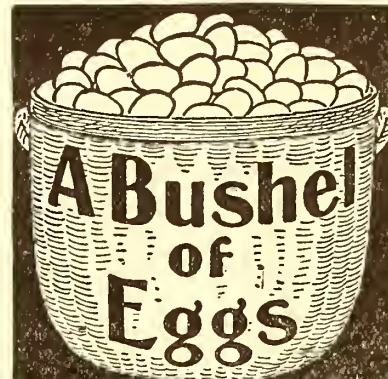
Cure Guaranteed or Money Refunded.

Poultry men and pigeon growers have found this the one certain remedy for roup in all stages and forms. Prevents and cures common colds. Without an equal for canker. Used by simply dissolving in drinking water. Small package makes 25 gallons of medicine. We agree to refund your money within 30 days if you are not satisfied. Price, small package 50c, large package \$1, postpaid. For sale by 2,000 dealers. Accept no substitute.

Necessities for Poultrymen.

Patent Appliances, Foods, Remedies, Books, etc.—everything for poultry raisers, fully described in special circulars and separate supply catalogue; free if you name this paper. Address nearest office.

Cyphers Incubator Co., Buffalo, Chicago, Boston, New York.



In the fall and winter is worth a barrel in hot weather. There's a way that never fails to fetch eggs when they're wanted, and that is to feed, once a day, in a warm mash

## Sheridan's CONDITION Powder

It helps the older hens, makes pullets early layers, makes glossy plumage on prize winners. If you can't get it we send one package, 25 cts.; five, \$1. 2-lb. can, \$1.20; six for \$5. Ex. paid. Sample poultry paper free. I. S. JOHNSON & CO., BOSTON, MASS.

## Feed for Eggs.

The following method of feeding is based upon experience:—Every morning feed early a warm mash, made as directed below. Every noon feed whole oats, barley or buckwheat. Every night feed whole wheat—corn when very cold. The cooked mash should be made as follows:—Mix thoroughly (while dry), in a barrel or box, equal parts of corn meal, shorts, wheat middlings and ground oats. Take two quarts of this dry mixture, add to it one quart of well cooked vegetables, such as potatoes, turnips, beets, carrots, table and kitchen scraps, add a little salt for seasoning. To the whole, in a pail, add three heaping teaspoonfuls of SHERIDAN'S CONDITION POWDER; then with boiling hot water mix the whole into a mash until the dry meal is well scalded. Do not have it sloppy, but a crumbly, well cooked mash. Feed while the mash is warm. The above is enough for 30 to 40 hens, unless of large Asiatic breeds.

## YOUNG STOCK NOW READY TO SHIP

FROM STANDARD-BRED STOCK.

Guaranteed true to name and first-class stock. Have hundreds of breeding birds, all varieties. We have all varieties of

PLYMOUTH ROCKS, WYANDOTTES,  
LEGHORNS, MINORCAS, COCHINS,  
LANGSHANS, BRAHMAS, INDIAN GAMES,  
ANDALUSIANS, BANTAMS, BLACK  
SPANISH, ETC.—RED CAPS AND  
WHITE CRESTED BLACK POLISH.

You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue, price 4 cts. Mention Poultry Keeper.

## Northwestern Poultry and Fruit Farm,

WALTER SEIDEL, Prop., Box K, Eleroy, Ill.



though small, are good sitters and excellent mothers. All fowls will sit and raise their young but the non-sitting varieties are less prone to and cannot be depended upon until they are several years old. They have too much business to burden themselves with family cares.

**MALES NOT ATTENTIVE.**

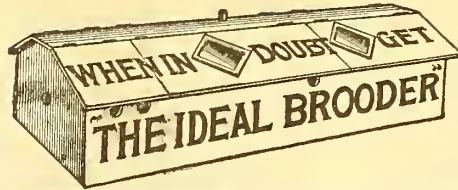
I would like to know why my eight months old roosters do not work among my pullets. They are big as common roosters. I have the Barred Plymouth Rocks and they are fine. I feed them well and they have a good nice dry place to roost in at night. I think they are large enough to do good work and plenty big enough.

J. W. M., Jewett, Texas.

Your cockerels are probably slow in developing. You should not allow them to run with the hens except during the breeding season and by that time they will probably be attentive.

**ABOUT TURKEYS.**

Will you kindly explain what "shooing the red" means as regarding turkeys? I lost all of mine but one. After reading Mrs. Jone's helpful article I am convinced that I overfed them. Will some reader of the Poultry Keeper tell me just how to manage my feathers to keep them nice, so that I could realize a little money from them. Mine never amount to anything

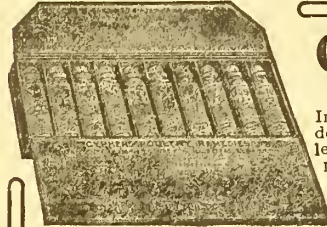


**THE BROODER WITH ADVANTAGES**

Catalogue free upon mentioning P. K.

The Ideal Brooder Co.,

High Point, N. Car., U. S. A.



**CYPHERS COMPLETE MEDICINE CASE**

Ten Standard Poultry Remedies

In neat, strong, light-tight case. Each bottle labeled showing dose and diseases it will prevent and cure. Medicines in tablet form to be dissolved in drinking water. Will last average poultryman from 1 to 5 years. These are the remedies:

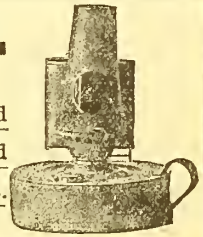
- No. 1—For all Catarrhal Colds of Poultry. No. 2—Prevents and Cures Roup. Useful in all diseases resulting from exposure.
- No. 3—For Chicken Pox, Bumble Foot, etc. No. 4—For all Diarrhoeas of Poultry, Chicken Cholera, etc. No. 5—For Diphtheritic Roup and all Forms of Canker, Vent Gleet, etc.
- No. 6—For all Forms of Indigestion and Liver Complaint, Sour Crop, etc. No. 7—For Egg Bound; also Eye Diseases.
- No. 8—For Rheumatism and Cramps in Fowls or Chicks. No. 9—For Worms and Intestinal Parasites. No. 10—For Diseases of Egg Organs, which cause Soft-Shell or Blood-Streak Eggs. Insures Fertile Eggs.

These are Standard Remedies recommended by the highest authorities and used by the medical profession. You may save your flock from a scourge by having them at hand. We send the case of ten remedies to any address, postpaid \$3. Single vials 40 cents. Send for special catalogue of Cyphers Special Poultrymen's Necessities, listing everything needed in the poultry yard. Free if you mention this paper.

CYPHERS INCUBATOR CO. BUFFALO, CHICAGO, BOSTON, NEW YORK.

**THE OAKES HYDRO SAFETY LAMP. COMPOUND THERMOSTATIC BARS.**

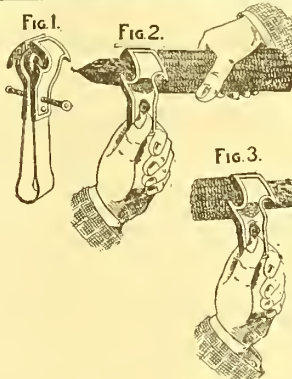
Improved Wafer Regulators, Copper and Brass Boilers and Tanks, Thermometers, Egg Testers and all Incubator and Brooder Supplies, Fixtures and Repairs.



Manufactured by THE OAKES MFG. CO., Bloomington, Ind.

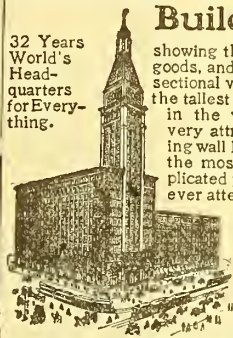
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32 Years World's Headquarters for Everything.



showing the clerks at work, the goods, and, in fact, an interior sectional view of every floor of the tallest commercial building in the world. It makes a very attractive and interesting wall hanger, and is one of the most complex and complicated pieces of lithography ever attempted. If you want it

send four two-cent stamps, about what it cost us to print. Ask for our ten-color Wall Hanger.

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or use, send 15c for our 1128-page Wholesale Catalogue. Millions are saving 1/3 of their former expenses by trading direct with us. If you want both Wall Hanger and Catalogue enclose 20c. MONTGOMERY WARD & CO. Michigan Ave. and Madison St., Chicago. 49

**CYPHERS**

is the **Lice Powder** that **Kills.**



Stronger than any other on the market. It does not simply drive away the pests, but kills them. Contains no carbolic acid. Clean to handle, easy to apply, sure in effect. Will not injure eggs nor chicks. Excellent for lice, ticks, fleas, etc. on stock. Send for trial package, post paid 15c; at your dealer's 10c. 100 oz. package (by express) \$1.00.

**Poultrymen's Necessities.**

Our full line of patented appliances, remedies, balanced ration poultry foods, sealed bag clover products, etc. will be found described in Cyphers Poultry Supply Catalog. Free if you mention this paper. Name your special wants and address nearest office.

CYPHERS INCUBATOR CO., Buffalo, N. Y. Chicago, New York, Boston.



IT SCATTERS THE CORN.

**Acme Corn Sheller**—Most convenient and efficient little sheller ever made. Strong, light, compact. Just the thing for shelling corn for poultry, seed corn, etc. Shells from pop corn to largest ear common corn. Price, pre-keeper paid 50c. For 80c we will send sheller and year's subscription to Poultry Keeper. Address, Poultry Keeper Publishing Co., Quincy, Ill.



because I don't know just how to take care of them.

Mrs. G. W., Lansingburg, N. Y.  
At about six or eight weeks turkeys that have done well will begin to "throw the red" as it is termed; that is the red carunculous formation about the head and neck. If the turkeys are late hatched or weakly this may be retarded another month. After they have "thrown the red" the sex can be determined.

Overfeeding no doubt caused the death of your young turkeys. When too liberally fed they will not take full exercise and diseases of the digestive organs ensue.

To save the feathers the birds should be dry picked and the feathers sorted. Choice tail feathers are worth more than any other kind. A few of the wing feathers are also quite valuable. Choice body feathers are used to some extent in making pillows, but the price paid hardly pays for handling them. They should be marketed late in the fall or winter or in early spring, as only at these times is there an established market. They are sorted and shipped in crates or muslin sacks.

**DRIED BLOOD—BREEDS OF FOWLS.**

- 1.—How is dried blood prepared so that it will keep?
- 2.—Is there a rose or double combed Barred Plymouth Rock?

**WHITE PLYMOUTH ROCKS.**  
White Holland Turkeys, Houdans, Winners at Iowa, Wisconsin and West Michigan State Fairs. Choice lot young stock at reasonable prices.

**L. GILLON, R. R. 15, West Allis, Wis.**

**A WHITE WYANDOTTE** Pullet and Cockerel line, bred from New York and Boston winners,

**FOR FIVE DOLLARS.**

You can't buy a pair of birds half as good in the East for twice the money. Circular free.

**EDWIN H. SMITH,**

Duluth, Minn. **BOARD OF TRADE.**

**Get Eggs in Winter**

Whether you keep 12 or 1000 hens you want them to lay when eggs are high. Our booklet, Special No. 2, tells

**How to Feed, What to Feed.**

For 50 cents we will send the booklet and full year's subscription to the **POULTRY KEEPER.**

**Poultry Keeper Pub. Co.**

Box 217, Quincy, Ill.

**AMERICA'S BEST WYANDOTTES, 1,500 HEAD TO SELL IN GOLDEN LACED, SILVER LACED AND WHITE WYANDOTTES.**

Winners of over 200 regular premiums at Madison Square Garden, New York since 1891. We won first on breeding pen of both Whites and Golden last winter at the above show. Our birds have won hundreds of premiums at Chicago, Boston, Philadelphia and all the large shows during the past 18 years. We have birds to spare in any numbers of the finest show quality or the highest class of breeding stock. We breed for utility as well as for show purposes. One of our white pullets laid 243 eggs in 10 months. Large circular showing more than 50 of our winners and views of America's greatest Wyandotte Farm for a stamp.

**IRA C. KELLER, Brook Side Farm, Prospect, Ohio, Box 10.**

**SOME GOOD BARGAINS**


Five pens of each of the following varieties for sale and all good enough to show. They are our breeders: **BUFF LEGHORNS, BUFF ROCKS, BUFF WYANDOTTES, BUFF COCHINS, GOLDEN WYANDOTTES, WHITE WYANDOTTES, BARRED P. ROCKS.** \$7.50 for Four Hens and a Cock (yearlings). Please mention Poultry Keeper when writing

**HARRIS-PRACTICAL POULTRY CO., Clay Center, Neb.**

**MY GOLDEN BRONZE TURKEYS** made a record in Pan-American and Chicago, hundreds of people saying they were the most beautiful birds they ever saw.

Never had a turkey score below 93 in four years, to 97 1/4. **EGGS, 50c EACH, Barred Rocks (Felch strain) bred in line 27 years, eggs \$3 per 13. Buff Cochins, (Sternberg, Donlsthorp), eggs \$4 per 13. Pekin Ducks, (Hallock strain) Eggs, \$2 per 13. Chester White Swine. Pedigrees furnished with all hogs sold.**

**MRS. CHARLES JONES, Paw Paw, Illinois.**



**THE IDEAL**

**TRAP NESTS**

*SHOW THE HENS THAT LAY THE EGGS*

KNOWING THE EGG VALUE OF EACH HEN YOU CAN OULL FOR PROFIT.

I invite conservative poultrymen, the incredulous, the doubtful to investigate this simple, inexpensive yet thoroughly scientific invention. Practical features found in no other nest overcome all objections. The Ideal has been proved by its works. I absolutely guarantee unqualified satisfaction. Circulars free if you mention Poultry Keeper.

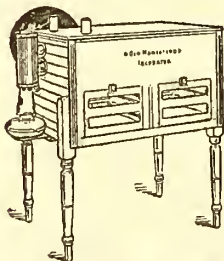
**F. O. WELLCOME, Box C, Yarmouth, Maine.** They Work for Your Interests

**...KING IS DONE HATCHING FOR THE SEASON...**

Will sell part of my breeding stock. Can mate pairs, tries or breeding pens for best results. My record past winter is equal to any breeder in the country. Send for mating circular or write your wants to the

**Barred Rock Specialist, O. L. KING, - - Walnut Grove, Illinois.**

**The Old Homestead New Incubator,**



It will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send for it. It is free to all who mention Poultry Keeper when writing.

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- 3.—Is there a Black Orpington?
- 4.—I have a new "Standard of Perfection;" how is it that the White and Black Orpingtons and Rhode Island Red are not in it? I. I. F., Galatia, Ill.
- 1.—All moisture is evaporated out of it.
- 2.—An attempt has been made to breed a rose combed variety of Rocks. Pea combed Barred Plymouth Rocks have been bred for some time, but are not standard.
- 3.—Yes.
- 4.—Neither Black nor White Orpingtons, nor Rhode Island Reds are standard fowls. The Buff Orpingtons were admitted to the standard about a year ago.

**PULLETS DON'T LAY.**

Please advise me in your paper if I am feeding one hundred laying pullets correctly for egg production. Mornings, six pounds of grain buried in little barley, corn, wheat, buckwheat and oats alternately. Night, mash of nine pounds of ground grain, corn, oats, bran, middlings and linseed meal in balanced proportion. Beef scraps and grit always before them. My pullets are free from lice and are on free range when yarded. About December feed in addition at noon five pounds of cut clover hay. As my pullets were born in March I think they should lay.

M. E. M., New Peltz, N. Y.

We would suggest that you give mash, reducing the ground grain to six pounds, and omit the noon feed. Being heavily fed the pullets probably do not take enough of the beef scraps to balance the grain ration.

**HOW MANY POINTS?**

Please answer in Poultry Keeper how many points should a White Leghorn cockerel have? W. M. S., Chicago.

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The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three"

for \$1, we will give to each of the three subscribers comprising these clubs a special premium of our book, *Illustrator No. 3*, that tells all about poultry diseases with valuable remedies, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

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We presume you refer to the comb. If so, five is the proper number.

**FEEDING—EGGS—CARE.**

- 1.—Is it advisable to throw grain into straw for young growing chicks?
- 2.—About what is the price of and where can beef scraps be had? Some speak of keeping them constantly before their fowls. Won't the expense more than offset the good derived from same?
- 3.—How soon after a pullet commences to lay would eggs do for hatching?
- 4.—If you had a hundred Brown Leghorn chickens five months old would you advise shutting the cockerels up by themselves where the weaker ones will be kept down by the more advanced brothers, or let the pullets and cockerels run together?

An Interested Reader of Poultry Keeper.  
1.—Yes. It is well to induce all the exercise possible.

2.—Beef scraps usually sell in a retail way for about \$2.50 per 100 lbs. in most localities in New York state. They can be had of any dealer in poultry supplies and at most feed stores. See advertisements in Poultry Keeper.

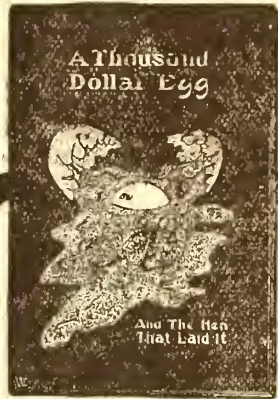
3.—After she has laid her first clutch.

4.—We should separate the cockerels and pullets except during the breeding season.

**A TRAP-NEST OPINION.**

Mr. Victor D. Caneday has had a trap-nest experience covering a number of years and his opinions regarding trap-nests are well worthy of consideration. His favorite nest is the "Ideal" and he recently wrote its inventor as follows:

Mr. F. O. Wellcome, Yarmouth, Maine.: Regarding your nest, I consider the "Ideal" the best general purpose nest I know anything about. It makes an "Ideal" open nest, and is so easily converted into a trap-nest that I can quickly pick out the hen that is laying poor eggs any time, or find out anything I want to know about the layers and re-adjust it to an open nest almost as quick as to reset it. Yours



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Victor D. Caneday.  
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**HOW MANY EGGS?**

1.—Please let me know through the columns of your next issue the greatest number of eggs on record, laid by a single hen in one year and by what breed?

2.—What number of eggs is considered good laying in one year for the Plymouth Rock?

3.—Are the Rhode Island Reds as large as the Plymouth Rocks, and are they as good layers? What is their egg record per year.  
J. G. M., Fort Mott, S. C.

1.—We have no list of individual records. Mr. James Shackleton, in a circular, announces that a record of 300 has been reported to him, but the name of the owner or the bird is not given.

2.—150 is a good average, yet we know of an individual of this breed with a record of 227.

3.—No. They are claimed by some to be better. The truth is, there is very little difference in the weight of eggs laid by the best laying strains of the various breeds.

**THE FEEDING OF MEAT.**

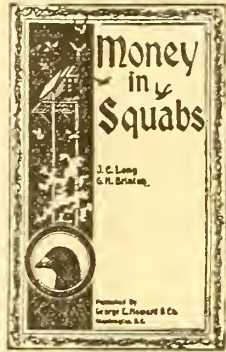
I have read Teachings of the Seasons, on page 269, and would like to know whether scraps are fed in both the mash and bin, or is it left out of mash when kept before the hens in hoppers? How much bran do you use with the beef scraps in the bin?

L. P. B., East Bridgewater, Mass.

The mash contains meat scraps all the time, whether meat is before the birds or not. Scraps make twenty per cent of the dry matter of the mash before the water is added. This is by measure, not weight. The box in every pen contains four bins, filled with grit, oystershells, bran, meat scraps. These are kept supplied and the birds help themselves, whenever they wish. The meat bin is not filled until laying is desired. Breeders of fancy stock should not supply a bin of meat until a month before the time of commencing.



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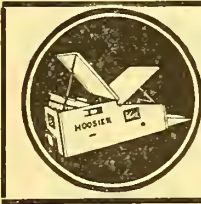
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N. W. S.

**HOUSING HALF GROWN CHICKS.**

Much is said by poultrymen of the great care needed by chicks of brooder size, and this part I can manage to my satisfaction, as also the care of pullets or mature birds. But where I am puzzled is what course to pursue with chicks between these stages. Chicks after six or eight weeks are old enough to leave brooders but what to do with them? Is there a specially satisfactory method followed by poultrymen, and what is it? If they are to be put into separate houses (I read of broiler houses), what is the construction? Does it mean the shoving them onto the roosts as ordinarily built, for that means a tremendously tedious labor at night, and then in the morning we find them off the roost and crowded in corners and many stunted. Here is my trouble. I am unable successfully, with more minimum labor and loss, to manage with them through this intermediate period. Indeed, the labor would not be of much consequence with a small lot, but when it is involved by four to six hundred and more, moments amount to something. Undoubtedly poultrymen of the Poultry Keeper's acquaintance have solved this problem, or members of your staff; and any light on the subject would be very gratifying to me and most thankfully appreciated.

C. D. C., Leacock, Pa.

Most poultrymen, when the chicks begin to roost on the top of the brooders, put them into roosting coops. These are usually three by six feet on the ground, three feet high in front, two feet in back, with a shed roof. Chicks eight weeks old are put into this coop, in lots of thirty to forty, and are supplied no roosts until two-thirds grown. When the chicks are first given this new home a small yard is made around the coop, until the chicks learn their house and it is then removed. These houses are scattered out on the hay field, after the crop is cut, about fifty feet being allowed between coops. Chicks kept in this way do well, mature in fine shape for winter work.

When the cockerels get troublesome they are put into large yards and pushed for market. If all the chicks, pullets and cockerels, are to be marketed at the earliest possible date, it is usual to have a long house, where the chicks can be kept without heat until sold.

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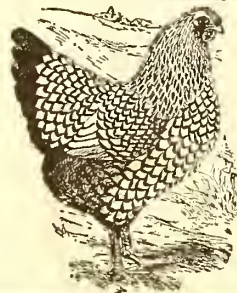
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We recently called attention to the attractive catalogue of the New Idea Incubator, sent out by Channon, Snow & Co., Quincy, Ill. "How to Make and Save Money With Incubators." We are glad to show here a small photographic reproduction of the book. If this small illustration prompts any reader to write for a copy, we shall feel repaid. So far as we are aware this concern is the only one in the country promoting incubators along dual lines. They not only make finished machines but do a large business in the sale of plans and fixtures which anyone with a mechanical turn of mind and by

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copy, we shall feel repaid. So far as we are aware this concern is the only one in the country promoting incubators along dual lines. They not only make finished machines but do a large business in the sale of plans and fixtures which anyone with a mechanical turn of mind and by

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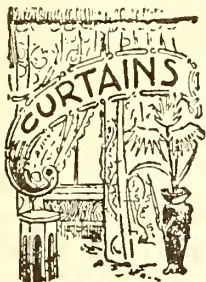
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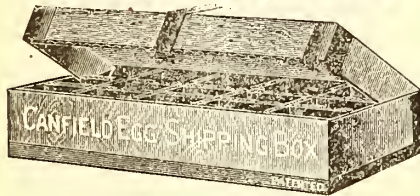
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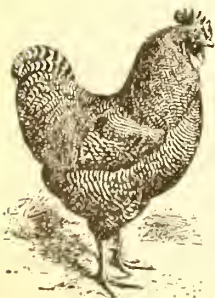
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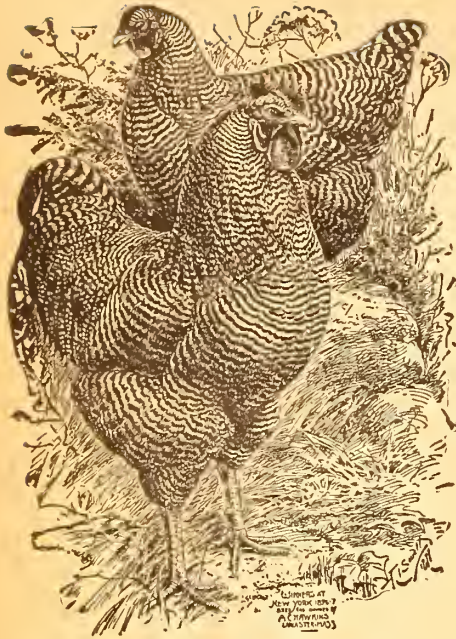
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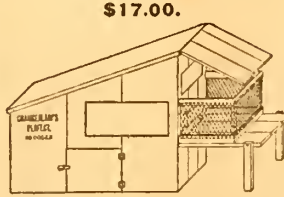
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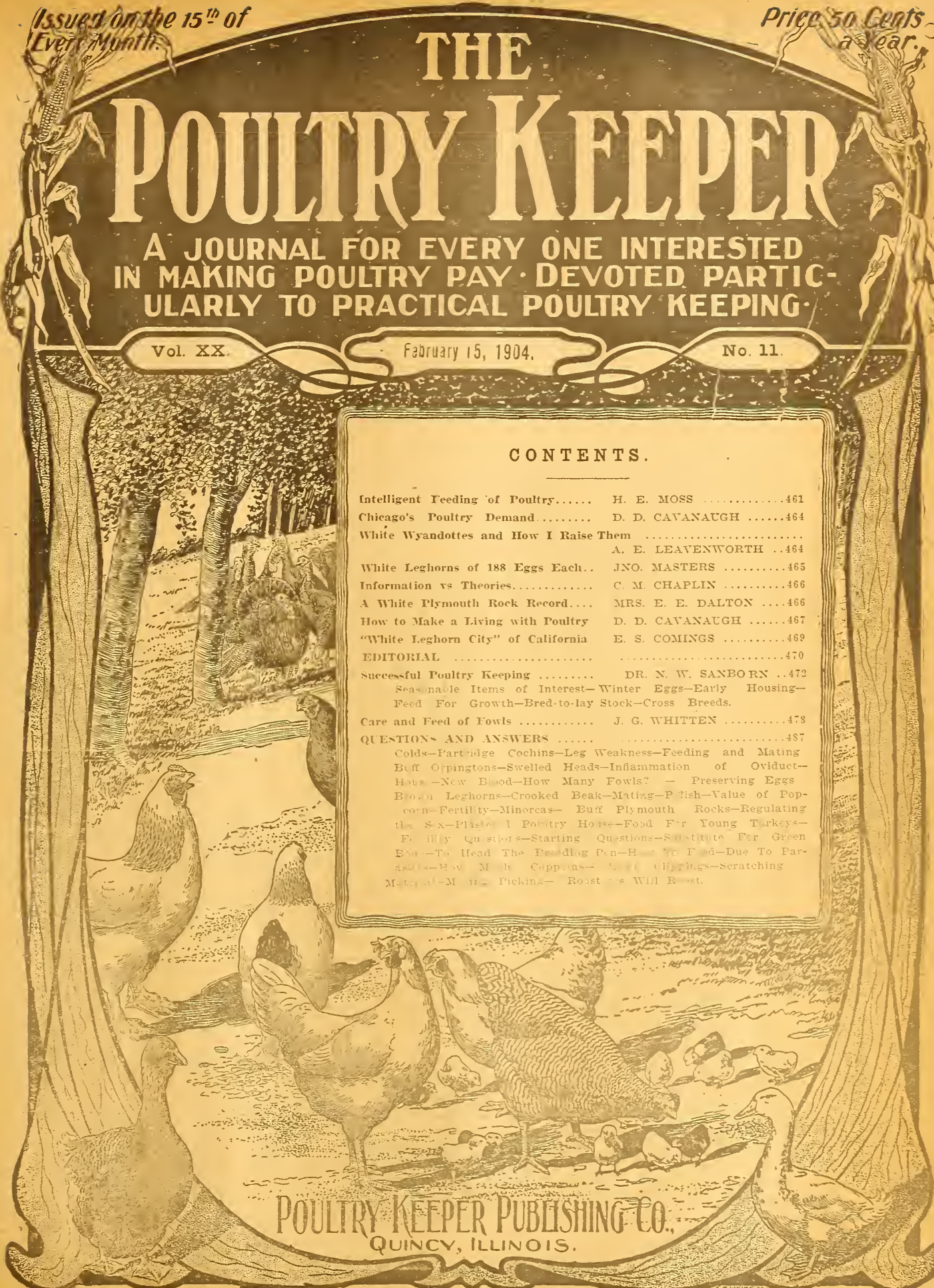
February 15, 1904.

No. 11.

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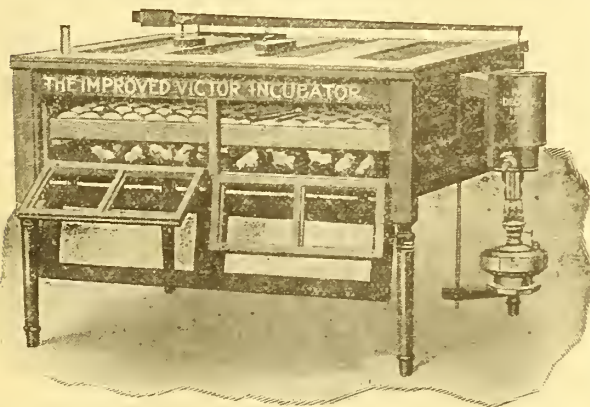
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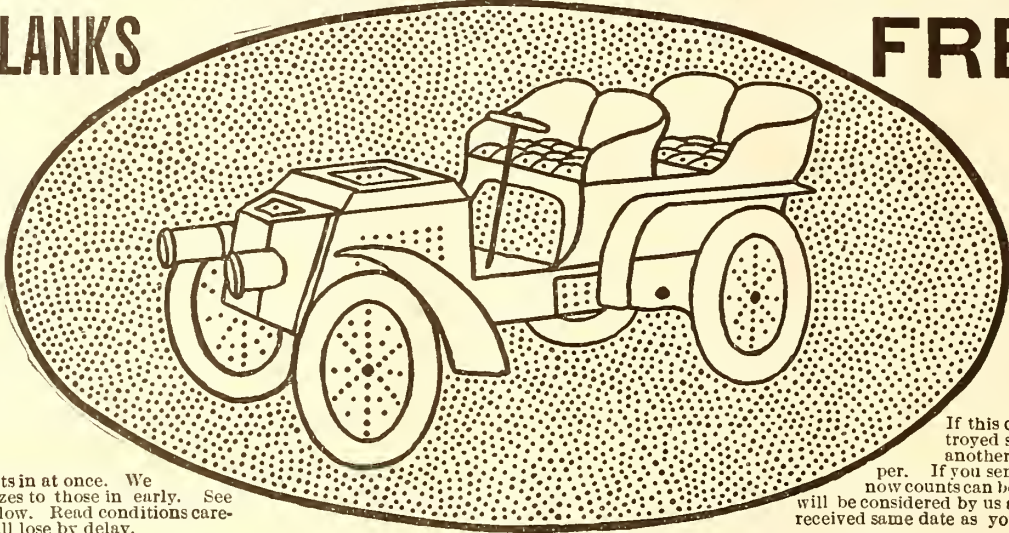
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Name.....

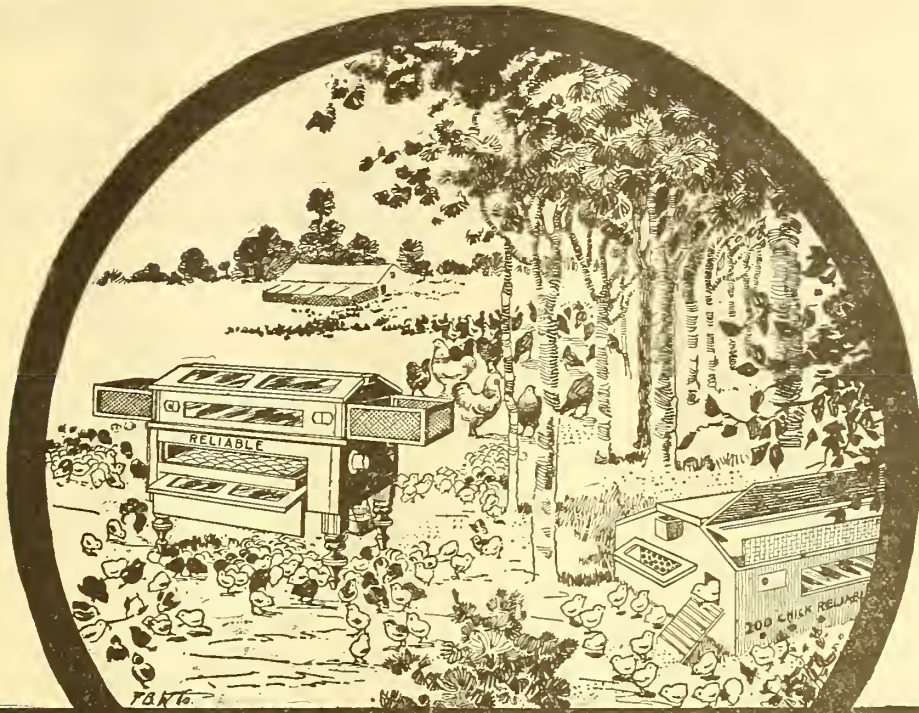
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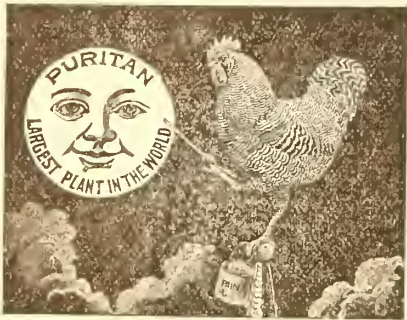
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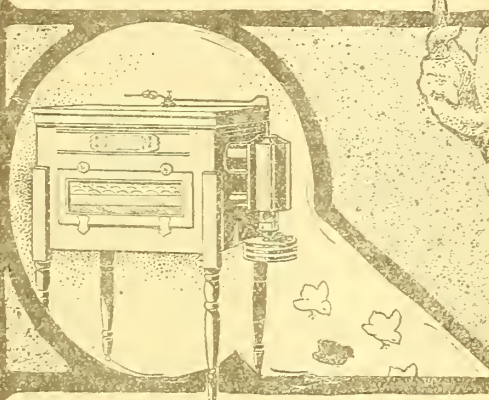
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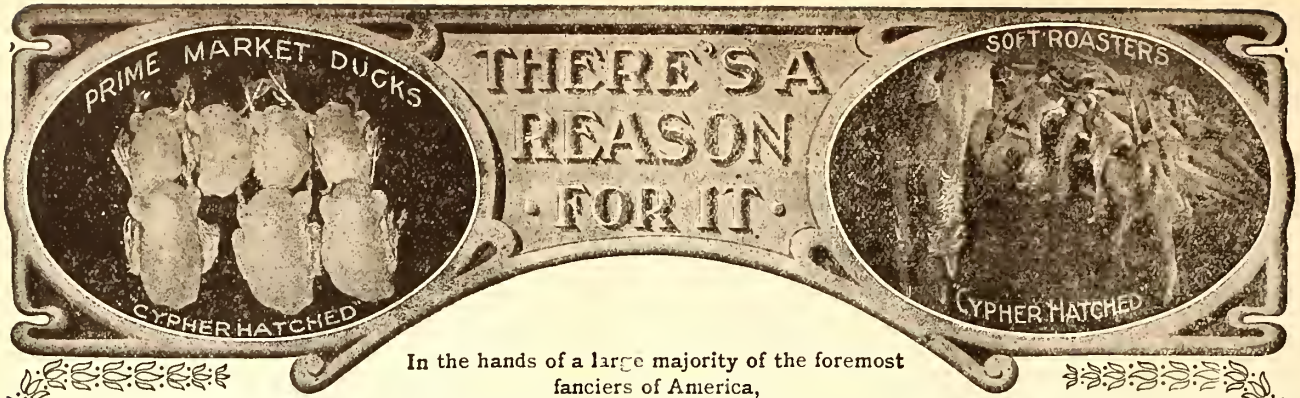
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Box 12, GOVERNEUR, N. Y., U. S. A.





In the hands of a large majority of the foremost fanciers of America,

On most of the Big Commercial Poultry Plants, both east and west, and on thirty-six Government Experiment Farms in this country and abroad, the GENUINE PATENTED

# Cyphers Incubators

are first favorites, having displaced all other makes and styles. Why do you suppose this is so? There is a reason for it, and here it is in three words:

## Cyphers Means Certainty.

**Prof. Wm. P. Brooks**, of the Massachusetts Agricultural College writes, (June 18, 1903): "We find that your incubator gives better hatches than any others we have ever tried. It is simple and easy to operate. Beginners have repeatedly secured excellent hatches with it."

**Prof. Cooper Curtice**, Biologist, Rhode Island Agricultural College writes, (June 7, 1903): "There is scarcely need of my recommending the fine workmanship displayed in your machines. Each machine speaks for itself. 8 to 12 of them have been in successful use here the past 5 years."

**W. H. Truslow**, the expert duck grower, of Stroudsburg, Pa., writes, (July 27, 1903): "We will have a total of 40,000 ducklings from 40 of your large machines, or an average of 1000 for each machine. I use the Cyphers exclusively. Tried other makes but discarded them."

That's the Reason why expert and amateur old experienced poultrymen and new beginners alike, all adopt and publicly endorse the Cyphers, once they try it.

The Cyphers does mean certainty, for we guarantee that it will hatch a larger percentage of fertile eggs, produce healthier and more vigorous chicks, requires less attention, gives less trouble, consumes less oil and gives better results all around than any other incubator in existence, or you get your money back.

We back this guarantee with every dollar we have in the world. It means absolute certainty to you.

The Cyphers gives these unequalled results because it is the only incubator that is or can be built on Nature's plan. It is the genuine, patented, non-moisture, self-ventilating, self-regulating, strictly automatic hatcher. It stands without a rival. Read our new 1904 complete catalogue before you buy. Sent free if you name this paper. Address nearest office.

### CYPHERS INCUBATOR COMPANY,

Buffalo, N. Y.

Chicago, Ill.

Boston, Mass.

New York, N. Y.

**Poultrymen's Necessities** Headquarters for Cyphers Patented Appliances, Balanced Ration Foods, Sealed bag Clover Products, Complete Remedies, Insecticides, Poultry Books and all Standard Supplies. Ask for our supply catalogue. It's free.

### They Use the Genuine-Cyphers-Patented Incubators:

#### Government Experiment Stations.

Hatch Experiment Station, Amherst, Mass.  
Rhode Island Agricultural College, Kingston, R. I.  
South Dakota Experiment Station, Brookings, S.D.  
Minnesota Experiment Farm, Crookston, Minn.  
Montana College of Agriculture, Bozeman, Mont.  
Arkansas Experiment Station, Fayetteville, Ark.  
W. Virginia Experiment Sta., Morgantown, W. Va.  
South Carolina Experiment Sta., Clemson, S. C.  
Kansas Agricultural College, Manhattan, Kansas.  
Utah Experiment Station, Logan, Utah.  
Ohio College of Agriculture, Columbus, Ohio.  
New Hampshire Col. of Agriculture, Durham, N.H.  
Connecticut College of Agriculture, Storrs, Conn.  
Cornell Experiment Station, Ithaca, N. Y.  
Alabama Experiment Station, Abbeville, Ala.  
Michigan Experiment Station, College, Mich.  
North Carolina Col. of Agriculture, W. Raleigh, N.C.  
Maine Experiment Station, Orono, Maine.  
Ontario Agricultural College, Guelph, Ontario.  
Ottawa Experiment Station, Ottawa.  
Truro Experiment Station, Nova Scotia.  
Bondville Experiment Station, Quebec.  
Whitby Experiment Station, Whitby, Ontario.  
Reading University Exp. Sta. Farm, Theale, Eng.  
New Zealand Gov. Experiment Sta., Waverly, N.Z.

Australia Gov. Experiment Sta., Richmond, N.S.W.  
Denmark Experiment Station, Ribe Denmark.  
Queensland Gov. Exp'm't Sta., Brisbane, Australia.  
Victoria Gov. Exp'm't Sta., Melbourne, Australia.

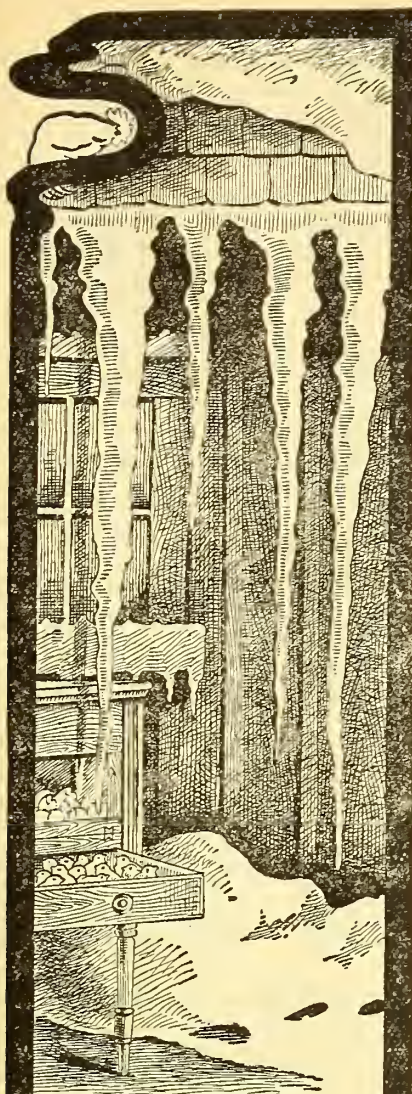
#### Big Poultry Plants.

Oxford Poultry Farm, Oxford, Pa. 68 of No. 3  
North Shore P. Farm, Glenview, Ill. 17 of No. 3  
Millville Poultry Farm, Millville, N.J. 30 of No. 2  
Emma B. Poultry Farm, Gurnee, Ill. 16 of No. 3  
Wm. H. Truslow, Stroudsburg, Pa. 40 of No. 3  
M. S. Fleming, Steelmanville, N.J. 19 of No. 1  
Jos. D. Wilson Stockton, N. J. 40 of No. 3  
Earl Poultry Farm, New Holland, Pa. 25 of No. 3  
Forest Lakes P. Farm, Brown's Mills, N.J. 83 of No. 3  
Spring Lake P. Farm, Harrisburg, Pa. 58 of No. 3  
Yardley Duck Farm, Yardley, Pa. 48 of No. 3  
H. Fell Poultry Co., Sewell, N. J. 20 of No. 3  
Mississippi Poultry Farm, Oregon, Ill. 35 of No. 3  
Hadden Hall P. Farm, Bakersville, N.J. 21 of No. 3  
Spring Lake P. Farm, Spring Lake, Ky. 20 of No. 2  
Dayhoff Poultry Farm, Roadside, Pa. 22 of No. 3  
Kenton Farm, Kenton, Ohio 25 of No. 3  
Crystal Spring P. Farm, Oil City, Pa. 40 of No. 3  
Sussex Poultry Farm, Newton, N. J. 30 of No. 3  
Meadow Brook Farm, Dallas, Pa. 50 of No. 3  
Grosse Isle Duck Ranch, Grosse Isle, Pa. 28 of No. 3

#### Leading Fanciers.

A. C. Hawkins  
A. G. Duston  
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Bradley Bros.  
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Dr. Wm. Y. Fox  
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P. H. Gossard  
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Henry Van Dresser  
Samuel Cushman,  
and Scores  
of Others.





## No Matter How Cold,

give the Petaluma fertile eggs and, as one man says, the "chick has got to hatch." This has been the result for twenty-six years. A record unparalleled in incubator history. A

## Petaluma Incubator or Brooder

is not an experiment, nor a "has been." Investigate and you will find it the leader today in all that makes the successful poultryman. Absolute automatic control in winter or summer. Our catalogue tells you more. It's free.

*We Pay the Freight in the U. S.*

**Petaluma Incubator Co.,**

Box 147, Petaluma, Cal. Box 147, Indianapolis, Ind.



Ohio

Two small tubes carrying gently heated air from our radiator are so cunningly arranged in the Ohio, that a large volume of pure, warm air is diffused around each egg, giving it the same—yes, better—hatching surroundings than if under a hen. Thus the

## Ohio Incubator

has overcome one of the greatest obstacles to artificial hatching. There are many other points of difference about the Ohio that makes it a superior hatcher. Read about them in our free illustrated catalog. Ohio Incubator & Breeder Co., Box 13 Columbus, O.



Ohio

If you lose a cow, hog or horse—that might have been saved—you're out from \$10 to \$300, aren't you? Our Veterinary Department tells what to do for sick live-stock in an emergency.

## THE TWENTIETH CENTURY FARMER

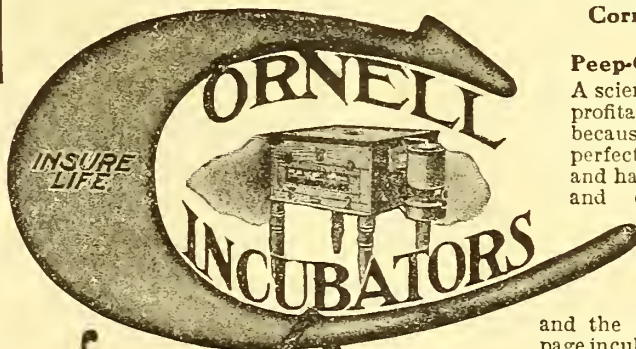
made this man \$275—why not you?

JULIA, KAN.

Twentieth Century Farmer, Omaha, Neb. Gentlemen—Your paper seems to cover about every condition that is likely to arise on the farm, from raising horses, cattle, hogs and sheep, down to garden truck. I have kept every copy of your paper and because I did I saved a valuable Hereford cow worth \$275.00, because when she was taken sick I turned to the veterinary columns and found a remedy for her trouble. If I had had to wait to get a doctor she would have died. It's a grand good paper. Yours truly,  
J. C. REVAEW.

Send 25c for 3 months subscription—we will send a sample copy and handsome booklet—free—if you write for it. Splendid prizes for getting new subscribers—Premium list free. Address: THE TWENTIETH CENTURY FARMER, 342 Farnam St., Omaha, Neb.

## INCUBATOR ADVANCEMENT



Cornell Incubators and

### Peep-O'-Day Brooders

A scientific, reliable and profitable combination—because they are the most perfectly constructed and have more practical and original improvements protected by patents than all others. A 48-page book of testimonials

and the most valuable 98-page incubator catalogue and book of reference for poultry men ever published mailed free to interested people.

OWENSBORO, KY., Sept. 20, '03.  
Cornell Incubator Mfg. Co.,  
Ithaca, N. Y.

Gentlemen—In regard to the machine I bought from you, it is first-class. I got 170 chicks out of 186 eggs, and another time I had 160 eggs and got 152 chicks. It is all right.  
Yours,  
JOSEPH GROPP.

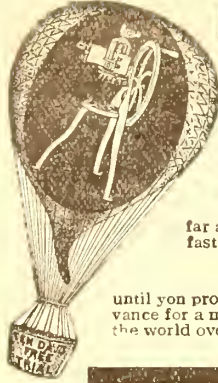
MENTOR, OHIO, Oct. 1, '03,  
Cornell Incubator Mfg. Co.,  
Ithaca, N. Y.

Gentlemen—Have been using Peep-O'-Day Brooders for three years and find them perfectly satisfactory in every way. I think they are the only brooder. At present I am using 12 Peep-O'-Days, and expect to purchase 8 more next spring.  
Yours very truly,  
ALFRED E. ELWELL.

**Cornell Incubator Mfg. Co**

BOX 11, ITHACA, N. Y.





# FAR ABOVE ALL OTHERS

As cut green bone is far above all other foods in the production of eggs and the promotion of health of flock, so is

## MANN'S Latest Model BONE CUTTER

far above all imitating machines. To prove that Mann's will cut all kinds of bones with all adhering meat and gristle, easier, faster and in better shape than will any other bone cutter, we will send you a Mann's on

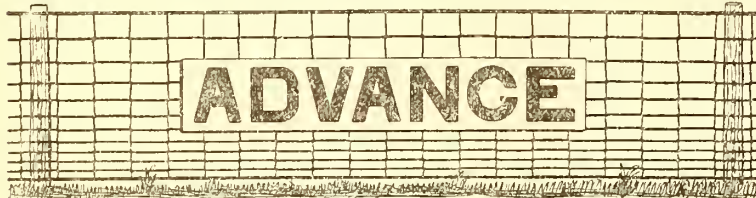
### Ten Days Free Trial. No Money Asked For

until you prove our claims on your own premises. If you don't like it return it at our expense. Isn't that better than paying cash in advance for a machine you have never seen? Isn't your judgment better than somebody else's claims? Try a Mann's—the machine used the world over—with more late patented improvements than all others. See how easy it runs—what good work it does. Catalogue free.

F. W. MANN & CO., Box 57, MILFORD, MASS.

# The Dealer's PROFIT is Your LOSS

Would you pay a horse dealer 150 dollars for a horse if you could buy that same horse from its owner for 100 dollars? Would the addition in price make the horse any better? Does the profit the fence dealer makes from you make the fence any better? You can save the dealers profit by buying **ADVANCE FENCE** direct from the factory at Wholesale Prices. We sell it on



## Thirty Days Free Trial.

You are to be the judge. If you are not perfectly satisfied you can return the fence to us at our expense and your money will be refunded. No conditions attached except that you give the fence a fair trial.

**Advance Fence** is made throughout of the best quality of galvanized steel wire. It is entirely interwoven, having no cut wires to become unfastened. This method of weaving with all continuous wires furnishes the greatest possible amount of strength from the wire used. Write today for our *Free Fence Book*, illustrating and describing 23 styles of fence. Also telling all about the fairest offer ever made. **WE PAY FREIGHT** on 40 rods or more. Your name and address on a postal card will bring our fence book with *Wholesale Prices*.

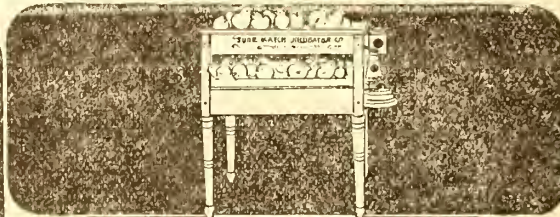
Woven, having no cut wires to become unfastened. This method of weaving with all continuous wires furnishes the greatest possible amount of strength from the wire used. Write today for our *Free Fence Book*, illustrating and describing 23 styles of fence. Also telling all about the fairest offer ever made. **WE PAY FREIGHT** on 40 rods or more. Your name and address on a postal card will bring our fence book with *Wholesale Prices*.

**Advance Fence Company, 4623 Old St., Peoria, Ill**

THE  
NEIGHBORS  
LAUGHED  
FIRST



These are some of the few that laughed a little skeptically when Mrs. Christina got her first **Sure Hatch Incubator**. Perhaps they preferred the slow, uncertain way of hatching eggs by the hen method. But they found later that "he who laughs last—laughs best." The incubator hatched 98 per cent of the eggs. So some, who came to scoff, went back to write for a **Sure Hatch** catalog and learn how it was done.



## Success Made Her Laugh

Anybody can afford to swallow the bitter pill of criticism when it's a **Sure Hatch Incubator** that's in question. There are a few people left who choose to make less money with the old, changeable hen. Still, they're beginning to learn that it's a great risk to trust a setting of eggs to the notional hen, when the

# Sure Hatch Incubator

hatches such a large proportion as Mrs. Christina got—98 per cent. Well might she laugh. But there are hundreds of others—everyone pleased because they score a success every time they want live, healthy chicks. There's nothing about a **Sure Hatch** to puzzle one. It's easily run without fuss or anxiety. Nature at her best couldn't provide more ideal quarters for fertile eggs. The lamp, the regulator, the copper water tank, the trays, the nursery, the cold-tight case—everything is constructed to make the **Sure Hatch** deliver a high per cent of lively scratchers. Our new catalog A 14 is a veritable encyclopedia for poultry raisers who are after profits. Are you one? Then write now. It's free.

**Sure Hatch Incubator Company**  
Clay Center, Neb. Indianapolis, Ind.

SHE  
LAUGHED  
LAST




DOWNES, IOWA  
*Sure Hatch Incubator Co.*

DEAR SIR: Some of the neighbors laughed at me when I got my incubator; but they had cause to change their laugh later on when my first hatch came off. I got 103 chicks from 105 eggs. I think that was extra good.

I think some that did so much laughing will be using incubators of their own before long. I am going to set the incubator on turkey eggs next time.

Yours truly,  
Mrs. Sarah Christina





100 LBS.  
HARVEY'S  
CUT  
CLOVER  
HAY

100 LBS.  
HARVEY'S  
MIXED  
GRAINS

## Your Pullets Need Egg Producing Feed

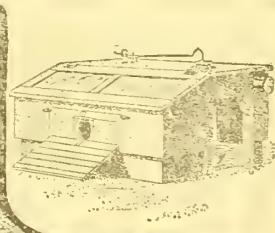
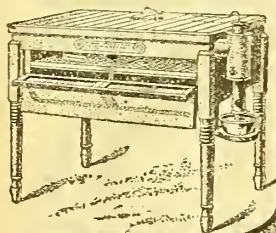
The reason young hens do not begin to lay as early as they should is because they have not been furnished the elements necessary to create eggs. Feed a ration particularly fitted for egg making, like

## Harvey's Cut Clover Hay

and they can't help but lay—it becomes natural. Fed to pullets it develops a laying condition quickly and produces eggs when eggs are highest. It is inexpensive because it brings double the results. Scalded, it makes a fine, green feed in winter. Send for our free poultry book; it contains information worth having. Tells about our full line of poultry supplies and will help you to make and save money. Send for it now.

**Harvey Seed Company**

20 Ellicott St., Buffalo, N. Y.



## Miller's Ideal Incubators and Brooders

are the direct result of twenty years of experience in the wholesale growing of poultry and in the use of incubators and brooders of practically all makes. Experience taught him that a better incubator was necessary to complete success. He made a better incubator and gained that success. He made one to heat with hot water, because he found that to be best. He made it to be entirely automatic in heating, ventilating and applying moisture because he was a busy man and could not always be watching the incubator. When he was through he tested the machine thoroughly. Being satisfied that he had at last hit upon the right idea, he put the machine on the market. Last year he sold thousands of them to both, experienced and inexperienced people. In all cases the machine gave perfect satisfaction. That is one reason why he will send the **Ideal Incubator** to anyone on

### Thirty Days Trial.

Try the machine yourself. If not entirely satisfactory, return it. Isn't that fair? Miller publishes a **large Poultry Book** which fully describes and illustrates the Ideal Incubators and Brooders. It also contains illustrations and descriptions of Miller's thirty-five varieties of thoroughbred fowls and Miller's full line of poultry supplies and appliances. It's a good book for anybody, but is almost invaluable to the poultryman. Better not buy any of these things until you get Miller's book.

*The book is mailed free. Better write to-day.*

**J. W. Miller Co., Box 19, Freeport, Ills.**





## 850,000 GRAPE VINES

69 Varieties. Also Small Fruits, Trees, &c. Best rooted stock. Genuine, cheap. 2 sample vines mailed for 10c. Descriptive price-list free. LEWIS ROESCH, FREDONIA, N.Y.

### The Way Hens Digest

has about everything to do with the way they work. Make sure that they get the right kind of grinding material in the crop and you get industry and thrift—a laying, paying flock. The right thing is

## Mica Crystal Grit.

It contains the right proportions of mica, quartz, iron and magnesia to tone up the fowl's blood. Experienced poultrymen agree that it turns dyspeptic, good-for-nothing hens into paying ones. Price, 100 lb. bag, 65c; 50 lb. bag, 35c. Other Darling Poultry Specialties in 100 lb. bags are—Chick Feed \$2.50, Laying Food \$2.25, Clover Meal \$2.00, Oyster Shells 60c; all f. o. b. Chicago, cash with order. Darling's New General Supply Catalogue, have you seen it? It's just out and it's a great poultryman's guide. Drop us a card now while you think of it and we'll send copy.

### DARLING & COMPANY,

Dept. 29, Union Stock Yards, Chicago, Illinois.

My chickens have almost doubled their laying capacity since I commenced feeding them your foods.  
A. W. MUMMA, Macomb, Ill.



# Johnson's Old Trusty





## Incubators

are made by the man you all know. The chicken man, the practical man, the man who knows about incubators because he knows about chickens. Write and find out about

### Johnson's \$10 Offer.

If you know Johnson write to him this year; if you don't know him write and get acquainted. He has something special to say to you about incubators and profitable poultry raising in his large, illustrated, **New Catalogue** The effort of his life. It has poultry and egg records, incubation tables, plans for poultry houses and yards. Better start the new year on the Johnson record system. Find out about the thirty days trial and that five years guarantee. All in the book. Plenty of them. They're mailed free.

**M. M. Johnson, Clay Center, Neb.**



Johnson has a special quick shipment plan.

# Isn't This Fair?

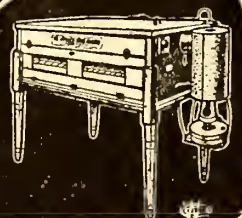
# I Could Not Do More

My guarantee is as plain as the English language can make it. It isn't hedged in by a lot of conditions. When I say that my machines are equal in hatching qualities, material and workmanship to the highest priced machines on the market, I mean it. And if there is an incubator in your neighborhood that will hatch more strong, healthy chicks from the same eggs under like conditions, I will refund your money on return of machine. Sounds as though I had confidence in my machine, doesn't it? You'll have more if you use

## ORMAS INCUBATORS and Brooders

They are best liked where best known. If you are thinking of buying an incubator or brooder, it will pay to investigate my claims. I can prove every one of them if you give me a chance. A little care exercised now may save a lot of trouble later on. Send for free catalogue.

**L. A. Banta**  
Ligonier, Ind.







## It Does Kill Lice

Don't say you can't get rid of lice and mites affecting either your poultry or live stock. You can.

# CYPHERS Lice Paint

Does Kill Lice, Mites and all insect pests. It never fails. Perfectly safe; easy to use; **Extra Strong**; a little of it goes a long ways because it is guaranteed free from all adulteration. Save your fowls—**increase your profits. Ask your dealer for CYPHERS** and take no other. Full and easy directions on each package. Agents wanted.

### Poultrymen's Necessities.

Our full line of patented specialties—Balanced Ration Foods, Sealed Bag Clover Products, Remedies, etc., at right prices. Cyphers poultry supply book **FREE** if you name this paper.  
**CYPHERS INCUBATOR CO., Buffalo, Chicago, Boston, New York.**



## Mrs. Pinkerton's Chick Food

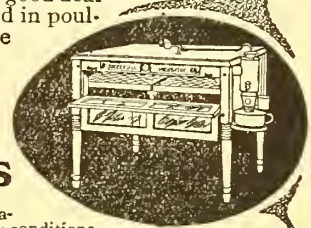
Prevents bowel trouble—makes 'em grow fast. A chick food that's all good—no waste. Our new catalogue is free and tells of our prize winning S. C. W. Leghorns and White Wyandottes. Winners at St. Louis Exp. also Chicago Poultry Show, 1903. It gives price list of eggs, fowls; also many poultry helps.  
 Anna L. Pinkerton Co., Box 32, Hastings, Neb.

# A Good Deal Depends

on getting started right in the poultry business. With many hatchers a good deal depends on the care and attention you give them. If you are not skilled in poultry matters, or want your time for other duties, get the machine that thousands find able to run and regulate itself.

Succeed  
with a  
Successful

## SUCCESSFUL Incubators and Brooders



bring highest possible results in all men's hands. You don't need skill; the machines have genius and that's better. They establish for themselves hatching and brooding conditions, the same under all circumstances. Their record through the years is their strongest endorsement. Eastern orders promptly filled from Buffalo. Incubator Catalog free, with Poultry Catalog 10 cents. 100 breeding pens of Standard fowls.

**DES MOINES INCUBATOR CO., Dept. 47, Des Moines, Iowa.**

NO COLD  
CORNERS

## An Honor to its State

Among all the brilliant ideas hatched out in Iowa, the Iowa Incubator stands at the head of its class. Its makers were the first to imitate the original incubator—the hen's nest. Who ever saw a square hen's nest? "Why didn't we think of that" said their competitors when they saw the big per cent hatches it turned out. One of the reasons why it runs so evenly and proves itself trustworthy is, the

# I Iowa Round Incubator A

has no angles in the egg chamber. A draft of pure, life giving air supplied by the ventilators is gently warmed by the patent heater. It is then diffused over the whole egg chamber, keeping each individual egg in exactly the same temperature—the center no warmer than the rim. No egg with a fertile germ in it can resist these conditions. The revolving trays give ease and convenience in reaching and turning eggs; the quick-acting, independent regulator needs no attention; the heater is steady and easily cleaned. 90 and 95 per cent hatches are common occurrences. There are scores of other reasons why you can make more money with the Iowa—read them in our free, new catalogue. Write for a copy now.

**Iowa Incubator Company**

Box 179, Des Moines, Iowa



*"The way to make your Poultry pay"*

# Take A Course

with

## The Columbia School of Poultry Culture

*All Our Pupils Make Money and Become Successful Poultry Raisers.*

THE COURSES OF STUDY NOW OPEN TO STUDENTS ARE AS FOLLOWS:

- Course A, Poultry Culture. B, Ducks and Geese.  
C, Turkeys, Guinea Fowl, Pea Fowl and Pheasants.  
D, Pigeons.  
E, Poultry Culture in conjunction with Bee Culture.  
F, Poultry Culture in conjunction with Horticulture.  
G, Poultry Culture in conjunction with Dairying.*

Our success in teaching profitable poultry raising has been phenomenal. Our faculty is composed exclusively of well-trained educators and experts, who are themselves successful poultry raisers and acknowledged authorities upon every phase of poultry culture.

The courses are practical and helpful from the very beginning.

The lectures are profusely illustrated with cuts, charts, tables, architects' plans, etc.

The courses are personal, being specially arranged to suit the individual needs and conditions of each student and any one or any combination of them can be taken as desired.

### Proofs of Success.

Pupils not only make money, but in many instances have saved the entire cost of the course in the plans supplied for a single building.

The egg production of their fowls has increased, and the birds have been healthier, stronger and more profitable in every way.

Columbia School of Poultry Culture, Waterville, N. Y.

CENTLEMEN: I like the Lectures and have not lost a chick since I received Lectures XII and XIII. I saw where I made my mistake. We have made out well financially this summer. The hens we raise are the Black Leghorns.

Carbondale, Pa., Aug. 3, 1913.

GEORGE O. CHAPMAN.

Columbia School of Poultry Culture, Waterville, N. Y.

DEAR SIR: I recall my visit to your great poultry system with pleasure. It astonished me to find an extensive plant and it instructed me to study your system and methods.

The Lectures of your school are invaluable to anyone in the business and very interesting to one who is not. He has my interest in "Natural studies." The farmer's boy should study your Lectures. Poultry is a valuable adjunct to the farm.

Syracuse, N. Y., Nov. 20, 1913.

Your friend, (Signed) JAS. R. DAY.

Mr. Day is president of Syracuse University, one of the leading educational institutions of New York State, is himself a prominent instructor, and has taken our course.

Write for a handsome illustrated booklet with synopsis of the various courses. Send for it to-day—it's Free.

THE COLUMBIA SCHOOL OF POULTRY CULTURE. Box 638, WATERVILLE, N. Y.



# THE



# POULTRY



A JOURNAL FOR  
EVERYONE  
INTERESTED

# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, FEBRUARY 15, 1904.

No. 11.

## THE INTELLIGENT FEEDING OF POULTRY.

The Fowl a Machine To Convert Food Elements Into Products of Profit—"Every Day" Definitions of Technical Feeding Terms—The Balanced Ration and Maximum Profits.

By H. E. Moss, Poultry Expert and Student of Poultry Foods and Feeding.

**T**HE question of feeding a properly balanced ration to poultry has been given much study and attention for several years past by advanced poultrymen the world over. The experiment stations have taken up the question, and while they have arrived at different, even opposite conclusions, their labors have advanced the science materially, furnished the thinker with facts, and suggested the direction in which the study should be prosecuted. The scientific basis of a proper diet is now much better understood than formerly and the principles can now be reduced to a working basis. We all understand the nutritive and vital processes upon which physical life depends.

First. A certain amount of food is necessary to sustain life and keep the body in a normal condition, by re-

placing all the worn out cells and tissues and supplying fuel for energy and vital force.

Second. Still more food for growth or increase of the body.

Third. And still a greater supply, if any product, such as eggs, is demanded.

Any excess above the requirements, if assimilated, will be stored up in excess of fat or muscle, dependent upon the material furnished and the demand made by the fowl for any of these purposes. A balanced ration means an exact quantity of each of the elements that contribute to these processes. Intelligent feeding, therefore, means the correct knowledge of the means at our disposal and the adapting of them to the end desired.

The principal portions of the animal body consists of oxygen, nitrogen, carbon and hydrogen—a smaller por-

tion consists of phosphorous, sulphur, iron, iodine, choline, potassium and other mineral salts. Of these, nitrogen is the most important, as all the vital processes depend upon it. The nitrogenous elements are found in all the grains and seeds and in the assortments the fowl world consumed in its native or wide state in sufficient quantity for her needs.

### Methods Out of Nature's Order.

In determining as to what is a correct nutritive ratio for fowls many have been led into error by false premises to start with. They look to nature as their instructor and attempt to duplicate her conditions, which so far as the material of which the ration should be composed is correct; but incorrect as to quantity and proportions, unless they are content with the results that nature's method assures, namely, good health, long life, and one, or perhaps two, sittings of eggs in a year, and those during the spring and summer seasons.

There is no question as to securing these results by following nature's method. In fact, in the jungle, the native habitation of the wild fowl, it will accomplish all this without the aid or interference of man; but poultry keeping cannot be conducted to-



Colony Houses in the fields, the summer and late fall quarters for Single, Comb White Leghorns at the fairview farm, Groton, N. Y.



day on natural methods, for we demand the most unnatural results—quick maturity, precocity, 200 eggs a year and half of them out of season, when all nature is against it. What then becomes necessary? We must consider our fowl as simply a machine designed to convert elements we supply into products we can use. We demand in one, or at most two seasons, what the hen in her native or natural state would be from seven to nine years in completing.

#### Rations for Specific Purposes.

It appears very clear then, that we must run our engine at high pressure, if we desire any profit. How to do this intelligently is the leading question. In formulating a ration for a specific purpose, after the ratio is determined, there are several factors found to have great influence on the result. Take for example a grain ra-

dollars upon dollars at the feed store, feeding first one thing and then another. They run the whole gamut year after year and end where they began. They have realized no profit, nor were even supplied with eggs when most desired. How could they be expected to secure good results, when choosing their feed at random from the following, for instance:

Wheat shows a nutritive ratio of 1:6, with only 2.1 fat.

Bran, 1:4, with 4 of fat.

Middling, 1:4½, with 4 of fat.

Rye, 1:7½, with 1.7 fat.

Corn, 1:8, with 5 of fat.

Oats, 1:6, with 5 of fat.

Buckwheat, of no account if brown and kiln-dried; if full and bright, 1:7, with 2.2 fat.

Kaffir corn, nearly 1:9, with 3 fat.  
Sunflower seed, 1:4½, with 21.2 fat.

plain that it can not fail to be understood by all, but there are some terms that must be employed in speaking of nutritive ratio and balanced ration that cannot be reduced any plainer or made any simpler. The nitrogenous compounds, protein, proteids, albuminates, albuminoids, are synonymous, but there are no plainer terms by which to designate them.

As stated in the foregoing, of all the elements found in the animal body, nitrogen is of the greatest importance. It controls all the other elements and their chemical transformations and combinations they undergo in the animal economy. What is called the vital process depends entirely on nitrogen for its support. Our bodies are constantly undergoing change, worn out tissues and cells are continually being replaced. Nitrogen is the element necessary to accomplish it. It



A house for yarded layers at the Fairview Farm, Groton, N. Y., Single Comb White Leghorn specialists. The basement is light and well ventilated, providing a resting and wallowing place during hot or stormy days of summer, and a scratching room during winter. The main floor is fitted with nests and roosts; the loft has twelve inches of straw on the floor which serves to absorb moisture during cold days. On mild days the gable ends of loft are opened to dry out the straw.

tion composed of two pounds corn meal, two pounds middlings, one pound gluten meal.

Here the ratio is a fraction over 1:4½, with 31.8 fats and oils (ether extract) equal to 79.5 carbohydrates and only 5.6 of mineral salts.

Compare this with a ration of one pound of potatoes and one pound of bran, with a ratio nearly the same as above, but with only 9.0 of fats and oils equal to 22.5 carbohydrates, but with 8.0 of mineral salts. This is merely to show how a ration may figure out the nutritive ratio we desire and still be far from correct.

#### Random Feeding Eats Up Profits.

There are thousands of people keeping poultry with the expectation of making it profitable. They spend

The nutritive ratio of 1:4½ is strongly recommended by many writers, but suppose sunflower seed were decided upon as the diet, with 21.2 per cent of fat and oil, the result would be fatal in more ways than one. It is clearly evident then, that a ration is not balanced, even if the nutritive ratio is within accepted limits; but the fats and mineral salts must be as carefully considered and used as the albuminoids and carbohydrates. This phase of the subject is the one that has for a long time engaged the attention of the writer, and is one that has been generally overlooked by many who have attempted to solve the question of ratio.

#### Technical Feeding Terms.

I shall try to make the matter so

is consumed very rapidly, but at a rate dependent upon the activity of the animal. After it has served its purpose it is carried away in the form of urea.

The purest type of the nitrogenous class of foods is albumen as found in the white of an egg, it being almost pure, plus about 78 per cent of water. Fibrin in meat, gluten in grain, legumin in peas and beans, caesin in milk, are all highly nitrogenous. This is also the most expensive element to obtain in grain in the necessary proportions and in palatable, edible and digestible form, there being as a rule an excess of the carbonaceous. In the vegetable class the nitrogenous principles are found in the form of ammonia or amides, which is much



less nutritious than protein derived from animal sources. Lean beef contains twenty pounds in one hundred of albuminates; wheat, twelve; corn, ten.

Another group is the carbo-hydrates, which means carbon combined with water. Starch and sugar are the best examples of this class. These furnish fuel for heat and energy and any excess can be decomposed and transformed into fat and stored in the tissue to be drawn upon as needed. Of this element lean beef contains none; corn, 60.5 pounds per hundred; wheat, 70.1.

Another class is the fats or hydrocarbons. These are pure fat and oil. They are very rich in carbon and a given quantity is equal in efficiency to two and one-fourth times the same quantity of carbo-hydrates.

Another class is the minerals and salts—phosphorous lime, sulphur, iron iodine, chlorine potassium and alkaline salts, which are very essential in the digestive process.

#### Balanced Ration Not a Fixed Quantity.

Assuming that a fowl requires a diet with a nutritive ratio of 1:4 (that is one part by weight of protein to four of carbo-hydrates), it is balanced if the elements in it figure out in this proportion, but to compound a ration simply to meet this ratio would be apt to fail in results as so much depends on the minerals and salts as well as the proportion of free fat included in the carbo-hydrates. A balanced ration does not mean a specified weight of feed per bird per day, but a fixed proportion of the elements it contains to each other, regardless of the quantity of the whole, which will vary with the breed and the season.

For a flock of, say one hundred Plymouth Rocks, the keeper should feed rather sparingly in the morning, so they will keep busy exercising during the day, hunting and scratching for more, and give them a full feed at night, sending them to roost with full crops. If the ration is not one sided or containing an excess of carbonaceous elements, which is the only side error is liable to occur on, they cannot easily be overfed, but the elements will be appropriated to their specific uses, among which egg production is the most desirable and most readily diverted into, other conditions being harmonious and favorable.

A hen requires from three to four ounces of grain per day, varying with the breed and season. No hard and fast rule will apply and head work is necessary to determine the quantity, but an excess of any element that cannot be appropriated is as good as wasted so far as the ends we wish to attain are concerned. It is true that hens love corn above all else. You may say their nature craves it and they are better judges of what they need than we are, but if you will consider a moment, it is the nature of all animals to crave and devour all the fat forming elements they can procure and store up all the fat possible to provide for seasons of scarcity, and even in such quantities as bears and other hibernating animals do before going into their winter sleep. But we have learned

years ago that if we expect our hens to maintain a copious egg production we must direct their energies in the opposite channel, furnishing only fuel and energy sufficient to keep the machine running smoothly and all the nitrogenous elements that her inherited ability will enable her to digest, assimilate and appropriate.

#### Age and Development of Fowl to Be Considered.

Furthermore, the different ages and stages of development must be taken into consideration. What is sauce for the goose is sauce for the gander, but not for the gosling.

Digestibility and assimilation are of course as important as the feed itself. The chick starts in life with a very delicate digestive powers and until it has gained strength and power to digest and assimilate, its food should consist of such material as will properly nourish it.

This is a vital process, and of course can only proceed at the vital temperature. Intelligent feeding at this stage is very essential, as high mortality is sure to result if haphazard methods

or May, and intelligently fed, will have grown her adult plumage and be in condition for laying in October, or before cold weather sets in, and will continue through the winter. The hen, if intelligently fed through the molting season, will have grown her new crop of feathers in from six to eight weeks, instead of twelve, and will also begin laying in October or November. Intelligent feeding now means a continuation of summer conditions, as regards feed through the entire winter, without any relaxation or variation. Green food is now an important factor, for at no time can the best grain dietary be utilized without the addition of green food, not merely fed at intervals, or on certain days, but every day.

We might as well try to keep a horse without hay or fodder, and on grain alone, as a fowl without green food of some kind. The amount of grass a fowl will consume in a day, when on a range, will surprise many, and the last thing in the evening, before going to roost, she will eat a quantity of it. Green food is cheap.



View of poultry yards planted with fruit trees and blackberry bushes at the Fairview Farm, Groton, N. Y. The trees and bushes yield abundantly each year and fowls do much better than in ordinary small, bare yards.

are employed.

Thousands of people rely on corn meal, either dry and course, or wet as a mash, or baked into cake. It is all corn, however, and thousands of chicks are slain at this altar every year. Many survive, it is true; but some will live in spite of any abuse. After they have passed out of babyhood, and are beginning to grow, intelligent feeding furnishes the material to grow upon, not a surplus of one and an insufficiency of another; but as nearly as science is able to prove to us a regular and continued supply of each and all the elements needed. When this is done, the process proceeds rapidly and the greatest results are obtained in the shortest possible time.

Some may call this forcing, and it is in a sense, but not in the generally accepted one. Forcing or crowding as usually undertaken, pushes one side and holds back the other—stores up fat and starves the frame—furnishes an excess of fuel and heat making meterial and lacks in elements to sustain the vital process, and if carried to its limit, the fowl, although gorged with food, would be starving. Intelligent feeding of the growing chick is certainly advantageous and profitable.

#### For Laying and Adult Fowls.

Then come the mature pullet and The pullet, if hatched in April

Cabbage, beets, turnips, etc., are excellent. Steeped, cut clover is very good and cheap, especially when success or failure hinges upon a supply of it.

#### Maximum Profit is in Correct Feeding

Intelligent feeding is as sure to result in profit as the intelligent and studied application of correct methods in any mercantile business brings its returns. The days of guesswork have passed, and those who would gain success in any business must keep at the front, grasping every opportunity afforded to advance, if only a step at a time.

Again, we find intelligent poultrymen acknowledging in letters in poultry journals that they add condition powders, condiments and stimulants to their food, and even imagine they are gainers thereby. They no doubt discover later on that it simply inflamed and caused an abnormal condition of the ovaries, the after-effects being ruinous, stimulating for a few days, perhaps a quickened maturing of yolks, surrounded by a weak watery albumen, deficient in the elements needed to perfect development of the embryo. Such eggs are unhatchable.

The time is at hand when intelligent feeding will prevail as it must in order to secure the maximum profit in



the business. Those who have neither time, ability nor inclination to formulate and compound their own ration will rely on those who have and who have a reason for every move they make and can demonstrate it. When this is done the uncertain element in poultry keeping will largely vanish.

### CHICAGO'S POULTRY DEMAND.

Chicago, Ill., Jan. 26, 1904.

Editor Poultry Keeper:

Surely there should be some way of encouraging people to keep more good poultry. Eggs are selling in Chicago now at 45c per dozen, that is fresh eggs, and we could sell 500 dozen a week if we but had them. As it is, we can't spare but about 50 dozen for table use, and they are actually sold before the hens lay them.

## WHITE WYANDOTTES AND HOW I RAISE THEM.

### Account of Satisfactory and Paying Returns From a Flock of This Popular Variety.

Alson E. Leavenworth, West Haven, Conn.

**A**BOUT three years ago I became interested in poultry, but knowing little about fowls I bought some eggs from a farmer. As I was very anxious to raise chickens I did not care what breed they were and thought that "a chicken is a chicken" and that was the end of it. I had purchased a one-hundred egg Prairie State Incubator, so filled it and let it run steadily for five days.

I make them work for almost all they get and never lose one from bowel trouble. You can almost see them grow from the start. I raise them in a brooder house with an out door run for pleasant days. The brooder is cleaned every day and everything about the place kept clean.

There are never any lice to trouble the birds, but to be sure none come I use a home made lice killer composed of one pint of kerosene to one-half teaspoonful of carbolic acid, well



"I find the White Wyandottes make the best of broilers, are good layers and are hardy and handsome."—Alson E. Leavenworth.

We are selling also quite a few eggs for hatching. We have to turn hundreds of people away every week who would be willing to pay any price for fresh-laid eggs.

Encourage more people to take up the poultry business. It is healthy, profitable and interesting. Fresh-laid eggs never go begging for a customer—the customer generally goes begging for the eggs in this man's town. Not only at this time of the year, but at all times—summer as well as winter.

The Poultry Keeper is Chicago's most popular poultry journal and has done much in helping the beginner by publishing reliable, practical information.

D. D. Cavanaugh.

Get more scratching material into your poultry houses. Make the birds do more work for their living. If they have to do four hours work for part of their grain, and are given a good mash once a day, they will show better results than if feed all food in the feed-boxes. The busy bird is happy and is seen to visit the egg box nearly every day, provided other requirements are looked out for from day to day.

When I tested the eggs I found no germs in sight. What had I done? Roasted them, of course. But now I know better and I am getting as good hatches as can be wished for. I took no poultry paper at the time but soon found the Poultry Keeper to be just what I needed.

#### Their Strong Points.

After wasting some time with mongrels I at last settled on the White Wyandottes and I find they make the best of broilers, are good layers and are hardy and handsome. When the chicks start to hatch I light the brooder lamp and heat the brooder up to ninety degrees. When the chicks are placed in the brooder I keep close watch of them and the temperature.

When night comes and I see the chicks spread out over the floor of the brooder I know they are all right and warm enough. On the other hand if I see they are crowding in a bunch I turn on more heat. This is, I find, the surest way of telling how much heat to give. Until they are seventy-two hours old I give them nothing but sharp grit and water, then rolled oats, scattered in litter.

I sprinkle this under the droppings boards and on the perches. It can also be used in a spray pump all over the inside of the buildings. I use it once a week and it keeps things smelling sweet.

When the chicks are old enough to leave the brooder they are transferred to coops with large yards. They have a larger yard with good grass until near laying, then I put them into their winter quarters and they certainly shell out the eggs. The pictures show them in their scratching shed.

#### The Mash and Grains.

They work hard for all but their mash in the morning, which is composed of wheat bran, ground bone, cabbage and stale bread, soaked. I make the mash just moist and crumbly, not sloppy. I am using a mixture of grain at present which I find they prefer to anything else. It is wheat, oats, barley, buckwheat, cracked corn and whole corn. And now my advice to any who may be thinking of starting in the business is, first, get thoroughbred stock; second, be clean; third, use good judgment, and I am sure you will have success.



## WHITE LEGHORNS WHICH AVERAGE 188 EGGS PER YEAR.

House In Which The Flock Is Kept—What and How They Are Fed—January, February and March Best Egg Producing Months.

John Masters, Dilley, Oregon.

I SAW in a recent issue of Poultry Keeper an article and drawing of a poultry house by Mr. D. W. Gregory, in which he submits his plans and asks for suggestions. I am keeping several hundred White Leghorns and get most of my eggs during January, February and March, my flock average per hen being one hundred and eighty-eight eggs for the entire year 1903, and promises as good for 1904, so I think I can give a few suggestions that may perhaps be of value to Mr Gregory. If not, there is no harm done.

### One Cock for Fertile Eggs.

In the first place, he will find he cannot use two cocks in one pen and get even paying results, since there can be only one head to a pen. The other will be cowed down, so that he will be practically useless. Again, if they should agree it will be because they have not energy enough to fight, hence infertile eggs, since like begets like. Half the chicks will die in the shell or first ten days after hatching.

If he uses one cock to twenty-five hens his average of fertile eggs will be about sixty per cent and most of them weakly, so that the loss will be too great to pay. For breeding purposes he cannot afford to have more than ten hens to one cock. For eggs it will pay him better to have no cock, but only the twenty-five hens to the pen.

Now, I have two pens on Mr. Gregory's system, ten in each pen with cocks removed except during breeding season, and they do not do nearly so

well as others on the system shown in drawing.

They seem to do better with a variety of surroundings, so I use the two story house (Fig. 1.) with a board floor on one-inch mesh netting buried in the ground at least six inches to keep out "varmint" (netting preferred), but water must be kept from running under the straw from the outside.

Place about one foot deep of clean straw on the ground, in which freely



Fig. 2.—Swinging trough for bones and grit. Size, three feet by ten feet, and four inches deep at bottom below slats.

sprinkle air slacked lime, sand and sulphur. I use no dust boxes as I find that the hens prefer to choose their own dusting place, generally using the dust of the floor, hence the lime and sulphur.

I find it a very great help to hang bone and grit box to the ceiling with four wires (No. 10 galvanized) as shown in Fig. 2, and about three feet from floor.

Have the shelf for nests on the most convenient side of the sleeping room, with the nest boxes loose so you can remove them to paint with Carbolineum and spray with same, when

diluted with two parts of coal oil to one of Carbolineum.

If the straw is put in about November first it will last until April first without adding more. As it crumbles too fine for use, sift out all droppings once a month during the winter and add a little more straw. In the spring renew all of the straw and spray everything thoroughly.

As I have the nests upstairs I can gather the eggs without disturbing

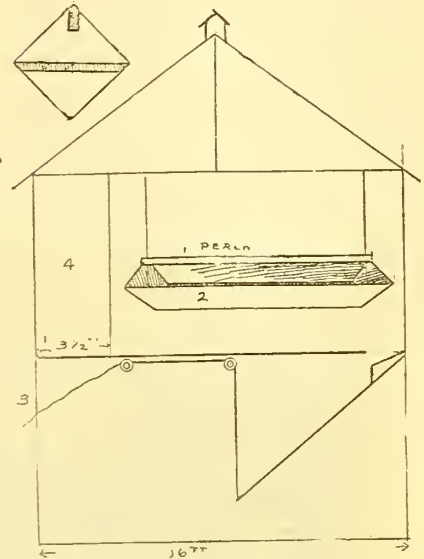


Fig. 3.—Cross section of pen, showing trap door under perch to catch droppings.

them while scratching; I think the hens like the privacy while laying, and in this way they are away from the hens which are scratching.

I have a small trap door in the floor of the passage opposite the door of the sleeping room in line with the ends of the troughs that catch the droppings. See Fig. 3. When I clean them out I just unhook the trough off perch, raise the trap door, place the

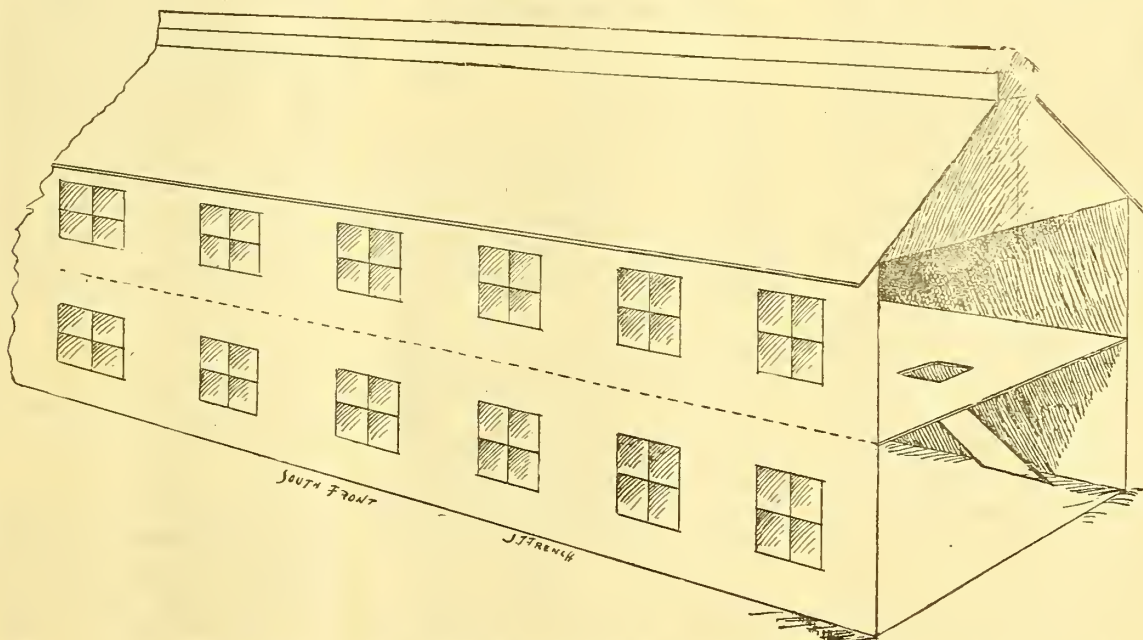


Fig. 1.—South front of Mr. John Master's Poultry House, in which he keeps several hundred White Leghorns with an egg production averaging 188 per year, most of them yielded during January, February and March.



end of the trough on the edge of the trap door hole, and rake all down a chute into a wagon, which can be driven along outside.

Sawdust or chaff can be sprinkled thick on the sleeping floor. The entire process of cleaning the house can be done in one hour.

Only one window is needed in each sleeping room on the opposite side

outside and in, thus— All walls should be double, with paper between, for the inside use ship lap or matched ceiling.

I don't believe in air space between walls. I put ship lap on first, smooth side in, then three ply tar paper, then ordinary one by twelve siding up and down, then battens or weather boarding. I use a piece of two by four,

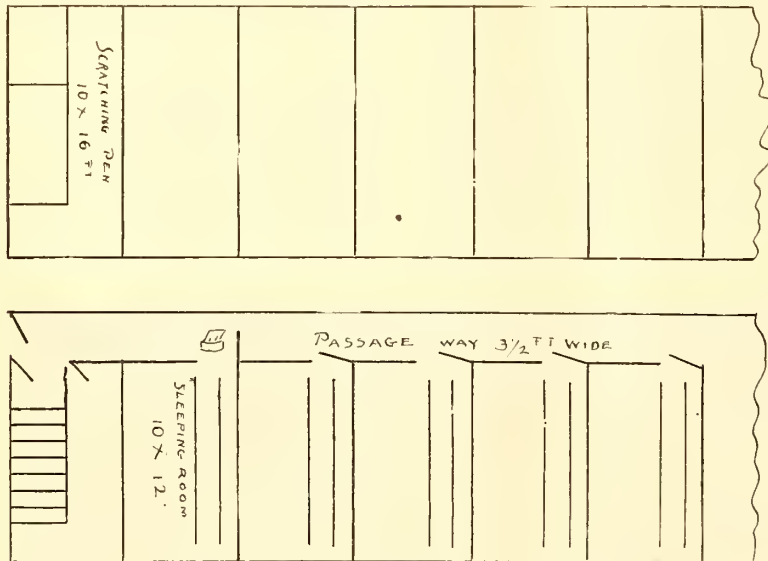


Fig. 4—Upper and lower floor plan of Mr. Master's house.

from the passage, and one to every two pens on the side of the passage, and one on each side of the scratching room below. Two perches nine feet long are enough perch room, which should be hung clear of the walls and with not less than nine inches between the troughs. For partitions, two-inch mesh netting will do.

I use the swinging box or trough for all purposes of feeding (except grain), as I find the usual bone and grit boxes cause too much waste, because the hens flip the bone out on the floor or ground. I have had them empty a newly filled box in one hour, scattering the contents all over the floor, but they cannot do this with the swinging trough, and they can get no trash in the feed while scratching.

The water fountains are suspended the same way, about three feet from the floor, by wiring to a board.

Soft food or mashes I never feed as I consider them the poultryman's curse and not according to nature.

For feeding chopped vegetables a separate box of some kind can be used, from which they can get beets, cabbage, bee scraps, green bone, etc. All grain should be fed in deep straw and nowhere else. On the board and trap for the hens to go up to roost I have a cord so that I can close it from the outside on cold nights, otherwise I leave it open for added ventilation, which is continued by ventilator—a shaft one foot from the upper floor through ceiling, the shaft four inches square inside.

To admit fresh air at any point convenient at or near the floor of lower part of the house, I would suggest auger holes one inch in diameter blinded with tin or galvanized iron

rounded at the top side for the perches, and one by twelve for the troughs.

I forgot to say I add a small door to each pen on the ground floor, opening from the scratching yards on the south side. If I have omitted any details which anyone wishes supplied I will add them through the columns of Poultry Keeper or privately when stamp is enclosed. I trust this may be of a little assistance to those who are seeking help in building.

#### PRACTICAL INFORMATION VS. EXHAUSTIVE THEORIES.

Evansville, Ind., Jan. 29, 1904.

Editor Poultry Keeper.

Of all the poultry journals I get, which includes four or five of the leaders, I like the Keeper best, as I consider that it has more practical, common sense information, applicable to the needs of the mass of poultry raisers and less of those exhaustive theories which are impossible of application.

I am preparing for your excellent magazine an article on breeding. I had thought of writing an article also upon feeding for winter eggs, which I know can be obtained in large quantities without detracting for the fertility. Better results can be had when your pens are entirely under your control. I will combine the two subjects in one and will send it to you, of all the poultry journals, because I like the Poultry Keeper the best.

C. M. Chaplin.

(We expect to publish Mr. Chaplin's interesting article on breeding and feeding in our March issue.—Editor.)

#### A WHITE PLYMOUTH ROCK RECORD.

Mrs. E. E. Dalton, Parkersburg, Ill.

THE fowls in the accompanying cut are the foundation stock of our White Plymouth Rocks. The hens were hatched June seventeenth from eggs that we sent away for. Sixteen chicks were hatched from twenty eggs; one died, one was caught by a hawk. Nine pullets and five cockerels reached maturity.

We were so well pleased with the pullets that we bought for their mate a cockerel which proved to be a fine breeder. The first egg was laid January thirtieth. This pullet died February seventeenth after laying twelve eggs. They were set February fifteenth and ten chicks hatched.

The eight remaining pullets laid as follows:

March, 143 eggs.

April, 187 eggs.

May, 144 eggs.

June, 78 eggs.

July, 77 eggs.

August, 161 eggs.

September, 97 eggs.

October, 107 eggs.

Nine hundred and ninety-four eggs for eight hens, an average of 124 1/4 eggs apiece. October thirtieth one of them died from a broken egg, leaving seven in the flock. These laid in

November, 70 eggs.

December, 125 eggs.

January, 148 eggs.

February, 111 eggs.

Four hundred and fifty-four eggs for seven hens, an average of 64 6-7 eggs for each hen. 124 1/4 eggs, the average yield from March to November, added to 64 6-7 eggs, the average from November to March, are 189 3-28 eggs for each hen for one year.

One hen became broody April twenty-eighth; two on May twentieth; one, May twenty-fourth, and another May thirtieth. All hatched and reared flocks except the last one. Another hen commenced sitting August twenty-fifth and one September first. One did not become broody at all.

In March tenth chicks were hatched from twelve of these eggs; one hundred and nineteen in April from one hundred and fifty-seven eggs; one hundred and five in May from one hundred and thirty-five eggs; forty-three in June from seventy-five eggs. The poor hatch in June is due more to the attendant and hens, than to the eggs. The weather was very hot and wet, the attendant extremely busy, the sitting hens restless and quarrelsome.

Inclosed find 50c for my renewal to Poultry Keeper. I cannot get along without it. It is the poultry paper without a peer.—Guy M. Lewis, Socorro, N. Mex.

We have splendid clubbing subscription department and can supply magazines and journals (poultry, farm, dairying, whatever you wish) at wholesale rates. Send in list of papers on a postal card and we will quote our best rate by return mail. Address Poultry Keeper Pub. Co., Quincy, Ill.



## HOW TO MAKE A LIVING WITH POULTRY.

Practical Stock, Good Methods and Staying Qualities Can Make Every Dollar Invested Bring a Profit.

D. D. Cavanaugh, 5903 Wentworth Ave., Chicago, Ill.

**W**HY is it that you meet so many people who claim there is no money to be made out of the poultry business? What becomes of the hundreds of thousands of hatching machines sold each year? What is the trouble?

I believe that it is not much of a puzzle to answer. In the last four or five years I have met hundreds of people who claim to have made an attempt at starting a poultry plant, and after spending several weeks or months of time, beside money, have dropped it. Whenever I meet a "has been" I question him as closely as he permits, and have never failed to find where the trouble lies. The fact of the matter is seventy-five per cent of the "has beens" never invested more than the price of a fifty egg incubator and four dozen eggs or a dozen scrub hens. Fifteen per cent went so deep in the business as to build a "hen house" at the rear of their city or town lot that might have comfortably held about two dozen, or maybe fifty hens.

Then they waited until perhaps the month of July and bought a bunch of laying hens. The first few weeks the hens did so well laying, that their owners made up their minds to either enlarge their plant or move out a ways, where they would have more room. But, alas, it's too bad. While they were building their plans it had got into the month of August or September (molting season), and the contrary hens began to stop laying. Although they ate as much as usual they gave nothing in return but feathers. After trying several methods without success of forcing the hens to lay, they cooped up the whole bunch and the butcher did the rest.

The remaining ten per cent of "has beens" would have been successful but for the lack of staying qualities. I have learned from interviews with the last mentioned "has beens" that over half of them spent double what was necessary to equip their plants, and most of them expected results too soon.

Advice is thrown away if given to persons who have not the wherewith to open up a practical plant. Without capital very few are able to open any kind of honorable business that will pay at the start. The poultry business requires but a small capital and the profits are large. For every dollar invested in the hen you will receive from one hundred to three hundred per cent profit a year. This is a fact.

As this is the proper season for beginners to start, if they intend to start at all, a little friendly advice would not be out of place. I do not know it all perhaps, but what I do know I have always been willing and ready to tell others who asked to know it. I have seen hen houses built of brick and plastered, double walled frame houses, stone houses, log and mud hen houses. Some that cost as high as \$400 and \$500 for a fifty foot house, and others

of the same size that cost less than \$10. The hens housed in the \$10 shed laid as large, as nice and as many eggs as those which lived in the \$500 house.

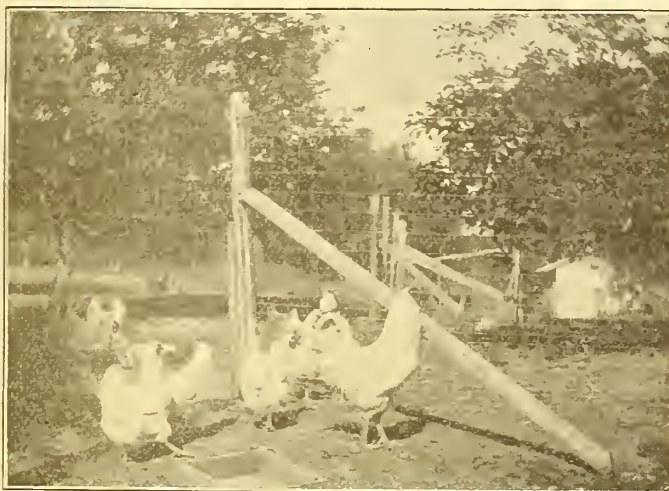
Do not blow in all your money on fancy houses. If you can afford it, all right, but if your capital is limited, pay more attention to building your laying sheds so that the fowls will be comfortable in them winter or summer. In the country a nice comfortable house may be built by first putting up the frame work, then stacking the hay and straw on the roof, allowing the hay to lop over the sides and back. In other words, build your hen house under the hay or straw stack with only the front exposed. A house so built will be warm in winter and cool in summer.

If you have no hay or straw stack build your house of lumber and as low

broom or sprayer, and spray the drop boards and roosts. This treatment will purify the air and kill germs of disease.

At the time when breeders are selling off their surplus hens and pullets at a reasonable figure those who contemplate starting should take advantage of the many offers advertised in the journals. Build your poultry houses, then buy your hens and pullets just as soon as you have your houses made water and wind proof. Don't look for stock that is now laying. No breeder is going to sell layers this season of the year when eggs are bringing forty to sixty cents per dozen.

Buy strong healthy stock—that's the whole thing. You can get them to laying before the first of February and by careful attention maybe earlier. Of course if you can buy layers, well and good, but if not you'll win anyway. Hens that are laying now and through the winter will want to sit early, so there is little gained by paying extra prices for hens that are now laying. Eggs bring a good price in



Mrs. E. E. Dalton's Breeding Pen of White Plymouth Rocks.

as possible and line it in or outside to exclude the drafts and rain. Do not build great high houses.

Don't waste room by building a three or four foot wide walk at the rear of the pens. All that extra room not being of any use to the hens will help keep your houses cold in winter. It is just as easy to go through your houses opening and closing gates that will swing both ways as it is to walk down an alley in back of the pens.

Be on friendly terms with your flocks. Go in among them occasionally with a basket of grain, let your visits be early in the morning or late in the afternoon. It is best to keep away from them between the hours of 7:30 a. m. and 2 p. m. The hens are generally too busy laying eggs then to entertain visitors.

Clearing away the droppings from a hen house does not require a truck wagon. A bushel basket and shovel is all that is needed to go through a one hundred foot house. A pitchfork to stir up the litter should be used every few days in the winter. Every two weeks go through your houses with a pail of crude carbolic acid and a whisk

the early months of the year and besides, the eggs laid in January, February and March will hatch double the amount of chicks that can be got out of fall eggs.

Chicks hatched in February and March can be marketed when weighing three-quarters of a pound to two pounds, at from \$6 to \$12 per dozen. Strictly fresh eggs will bring from twenty-five to thirty-five cents per dozen from the first of March to the first of October. No poultryman need sell cheaper than these prices. We have secured customers in Chicago for hundreds of poultrymen who did not know where and how to market their eggs except through a buyer and shipper.

We wish to state before going further that in order to secure the prices I mention, one must be able to furnish from fifteen to ninety dozen eggs a week, and the eggs must be laid by fowls which are compelled to lay in nests. One bad egg may cause the loss of a customer worth \$4 to \$20 per week. The farmer who allows his fowls to run all about the farm and lay their eggs in manure and hay



stacks, and who occasionally finds a nest of thirteen or twenty eggs which he dumps in his basket without knowing whether they are fresh or not, cannot command more than the market price for his product.

The breeder should pack his goods up tastefully, viz: Pack all eggs of



White Wyandotte Pullet "Starling," score 96%, bred by Ira C. Keller, Wyandotte specialist, Prospect, Ohio.

the same color together. Do not send a case of eggs to your customers with mixed white, brown and medium color shells. Pack the brown eggs in one case, white in another and medium colored shells in another. A box of cigars composed of two or three colors would not sell as readily as a uniform box of cigars.

The same rule stands good in shipping chickens. Take a coop of springs, say four pounds each, and another loaded with springs ranging from two pounds to five pounds. The uniform coop is sold as soon as it hits the sidewalk on South Water street, while the mixed coop is handled a hundred times before it is sold. I speak from experience, being a heavy buyer of poultry on South Water street. I have offered as high as two cents more per pound on a coop of uniform color and size fowls, and considered they were worth it.

Coming back to the starting point, I wish to say there is no excuse for failure if a person begins right and stays right. There is good profit in both branches of the business—either eggs or meat. Where a person has a suitable building for a brooder house and the hens are laying good strong fertile eggs in the late fall and winter, more money can be made by hatching the eggs and marketing the chicks as squabs, three fourths to one pound, or broilers one and a half to two pounds, than by selling the eggs for table use.

But do not try to raise chicks in winter unless you have a comfortable brooder house. If you are prepared that way, go ahead and hatch enough so it will pay you to devote a good part of your time in caring for them. Do not start a broiler plant in the middle of summer and expect to reap

a fortune at harvest time, for you can't do it. It would pay you better then, instead of hatching chicks to buy them already hatched and raise them to maturity so you will have layers for an early broiler hatch the following season.

As to how many fowls should be kept to build up a paying business, the beginner himself can answer that best. The market value of a hen according to most breeders is \$1 and she is expected to lay at least ten dozen eggs per season; many hens lay over two hundred eggs a season. If a hen lays ten dozen eggs a season and these eggs sell at twenty-five cents per dozen or \$2.50, it isn't hard to figure out the profits. It costs ordinarily about \$1 per year to board a hen and if twenty-five cents more were added to that as expense in marketing the eggs, we have left a clear profit of \$1.25 from each hen, or \$1,200 to every one thousand fowls. The more fowls the more profit.

Buildings to house one thousand fowls will cost all the way from \$400 to \$4,000, according to how fancy you want them built. One man can handle a thousand hen plant easily. Disease is almost unknown on a practical poultry plant where the fowls are penned and yarded off ten or twelve in a flock.

Lice is another article that is seldom seen, but if they should happen to visit your hen house it is only the work of an hour to get rid of them. The beginner should make up his mind to handle nothing but pure bred stock, and should pay more attention to building up a heavy laying strain than breeding show birds. Allow the little fellow who has the back yard plant to run the show business. He has more time, and you can buy his fancy birds cheaper than to raise them yourself.

The most popular table fowls that enter the Chicago market are the Barred Rocks, Buff Cochins, Wyandottes and Brahmans, in order named. Brown shelled eggs are very popular, still a case of nice large white eggs takes well.

In handling any kind of poultry bear in mind that sour, unsound feed is unfit food. Feed only the best. It's the cheapest in the long run. Fresh clean water should always be before the fowls. An easy method of furnishing fresh water to your fowls is to drill a threequarter inch hole in the side of a stone jug about three inches from the bottom. Then buy an iron or tin pan four inches deep and large enough that when the jug is set in it a space of about one and a half inches is left all around the sides. Fill the jug through the neck, holding a finger on the small hole at the bottom. When full, cork up tight and set in the pen. The rim of the pan being an inch higher than the top of the small hole in the jug, the water cannot overflow out will leak out as the fowls drink. This will make the best drinking fountain that can be made and will keep the water always fresh.

The question has often been asked, "Will a poultry farm located two to five hundred miles from Chicago pay?" Now there is no reason at all for it not paying almost as well as a suburban plant. Any location within a day's train ride from Chicago is desirable. Then, again, Chicago isn't

the whole thing—there are others. Even away down there in Arizona Territory eggs bring thirty to fifty cents per dozen and poultry sells at a good figure.

Do not ship your customers eggs that have been laid longer than one week, and pack them with taste and you won't have any trouble in keeping your trade and securing good prices.

So much has been said before concerning the treatment of poultry diseases that it is using up valuable space to mention it here. One valuable rule to always follow is to separate the sick fowls from the well ones. In so doing you can give the sick better care. Almost every disease known to poultry can be cured by the timely use of the poultry remedies advertised



White Wyandotte cock, "Snow King 2nd," score 96½, remarkable for pure type and its approach to perfection. Bred by Ira Keller, Prospect, Ohio.

in Poultry Keeper. Every poultry breeder should interest himself enough to send for circulars or samples of these different cures. It may save him dollars:

In closing I wish to say that any one with the liking for it can start small and build himself up a paying poultry business. Go at it to stay and you'll win. But do not expect \$10 worth of poultry to pay the rent and keep a family. If you want to, or are compelled to start small, you should use judgment. Do not neglect a paying job to care for a small flock. Give them your time mornings and evenings, and they will take care of themselves during the rest of the day.

Will you "help a good cause" by sending names of persons interested in poultry to whom we can send sample copies of Poultry Keeper?

The cut green bone should always be preferred, but the hard, dry bones may be ground and utilized also. The bone should not be too fine—about the size of peas is correct—and may be placed in a cigar box and located where the fowls can keep themselves. If the pieces are sharp they will serve as grit and also provide lime for the shells, because they are animal food and digestible, their action being mechanical.



"WHITE LEGHORN CITY" OF CALIFORNIA.

Some Astonishing Figures Regarding the Poultry Industry at Petaluma—Source of Great Income.

E. S. Comings, Indianapolis, Ind.

WITH the mercury two degrees below zero, the scenes shown herewith look doubly attractive. When we note the headlines of 18,000,000 eggs in four months, it strikes us even more forcibly that there is a country where such results are obtained and that, too, during the months that we are put to straits by the depletion of our coal

bins and the expenditures that always come in winter. Such conditions and such a country you can find only on the Pacific Coast, and it is at Petaluma and the valleys around the bay at San Francisco, where these conditions have reached the perfection that they have that enable us to call it the "poultryman's paradise."

Years ago Mr. L. C. Byce, the president of the Petaluma Incubator Co., a gentleman, whom if you once met

you would recognize as a man of observation, first brought into that country the shipments of pure bred poultry that have revolutionized that industry there. In his importations nearly every variety was tried, resulting in the selection of the White Leghorn as the peer of all for the "Italy of America," and from these experiments has grown the largest poultry industry of America, fostered and encouraged by the zeal of the Petaluma Incubator Co., reaching proportions that seem like fairy tales for me to relate them.

Fancy in your imagination a ride of forty miles around and about the little city which can be well termed the "White Leghorn City," finding

(Continued to Page 486.)

**18000000 Eggs in Four Months**

A BARRED ROCK from a noted breeder

A BIT OF SEMI TROPICS

A POULTRYMAN'S HOME

MORNING SCENE

FEEDING TIME

SHIPPING INCUBATORS

WHERE 50000 DUCKS WERE RAISED LAST SEASON.



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,

(INCORPORATED)

QUINCY, ILLINOIS.

SUBSCRIPTION PRICE, FOREIGN POSTAGE,  
 Fifty cents a year; Single Copies 5c. Thirty-six cents a year additional  
 Entered at the Quincy, Ill., Post Office as Second Class Matter.  
 Remittances should be made by Draft, Money Order, Express Order or Registered Letter. Small sums will be accepted in United States one or two cent postage stamps.

Change of address—When this is desired, be sure to give old and new post office addresses.

All subscriptions invariably discontinued at expiration. Subscribers will confer a favor by reporting to us any irregularities in receiving the Poultry Keeper.

Advertising rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, Editor.

Associate Editor, DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

15TH YEAR  
 VOLUME

FEBRUARY 15, 1904

NUMBER 11

## HOW TO START.

We have had in mind for months a series of simple articles on the little things in poultry lines. We are none of us too old, or too long in poultry keeping, to need some of the "A B C's" so brought to our attention as the simple story of "How to start with a brooder, how to start in the setting of a hen, how to start in the care of a young chick, these and many more questions are constantly coming to this office. We propose to handle these inquiries just before the time most of our subscribers will feel in need of help, and in our March number, Dr. Sanborn will tell the simple story of "How to start with a brooder." Other good things are in store for you and will prove that we are on the lookout to be helpful to all lovers of good poultry.

## THE PLACE OF A POULTRY PAPER.

In the successful running of a poultry plant, or the keeping of a few hens, many things are needed to get the best results. Care, food, housing, good birds, all these have a place in the round of "needfuls" necessary to do good work with poultry. Where then does the poultry paper come in? Let us see.

Does the beginner need the help held out through the pages of a good hen paper? Surely. The man who has built his first house, bought his first pen of hens, added his first lot of pure-bred stock, or has a sitting of fine eggs under a borrowed hen, needs the simple instruction that may be found in the poultry paper that is gaining readers. The new hen-man cannot do his best work without one or more good poultry papers.

Does the man who has passed the stage of the learner need the poultry magazine? Yes, even more than the beginner. He needs to be stimulated to do his best work. He gets careless, as the years pass, and should have

some of the things that he knows are necessary rubbed into him through the writings of poultrymen.

Can the fancier do without the poultry publication? Not at all. He needs to be reminded, month by month, that something more than fine feathers are required to make his birds a success. In the poultry paper he will find much of interest, and something of profit, in regard to the breed he fancies. The breeder of thoroughbred stock can come in touch with other breeders only through the pages, reading and advertising of the poultry papers.

The poultryman needs the paper even though its only pages are those devoted to advertising. Through these pages he sells his surplus eggs and birds, and from its advertisements he gets fresh blood.

The poultry paper has an important factor in the growth of the poultry industry. The more we look into its history the more we are impressed with its need today.

The Poultry Keeper has in mind the needs of all kinds of hennemen, and is just as anxious to help the boy with his first flock of a dozen birds, as to be useful to the breeder of fifty dollar birds. We look over our files of 1903 with pleasure and have plans for this year that will surely win your approval. S.

## THE SCORE CARD.

Some of our poultry papers have been drawn into giving much space to the controversy as to the comparative values of the score card and the comparison shows. There are two sides to the question, without doubt, but we have been impressed this winter, in following some of the shows, at the decided satisfaction of most of the exhibitors who have carried home a score card of the birds. We have heard man after man make the statement that the "judge scored my different birds where they belonged."

Then the man who is obliged to remain at home, while his birds take their journey to the show, has some idea as to the judges' opinion of the birds when the score cards come home. We know one fancier who paid twenty dollars in entry fees, shipped his birds to the show, in due time received the birds back by express, and all he had to show his friends was a postal card from the secretary saying: "Your birds have arrived in good condition." Why not more? Just because it was a comparison show and his birds winning no ribbons. As he did not win any prizes, his birds were not in the lists published in all the poultry papers. He was out twenty dollars, plus his express, plus one bird that died from exposure, and gained just one postal card from the show management. Comparison or show card? Which do you want?

S.

## GREAT DEMAND FOR S. C. WHITE LEGHORNS.

In connection with the photographic views of the Fairview Farm, Groton, N. Y., the following letter from the proprietor, Mr. H. J. Blanchard, to editor of Poultry Keeper will be of special interest. He writes under date of January 21: "During the past year we have handled a larger amount of business than ever before. Single Comb White Leghorns are in great demand, both for utility and fancy. Egg farms are being started all over the country and almost invariably they are stocked with Single Comb White Leghorns. The prices for fancy white eggs are higher than ever before and the demand exceeds the supply. Eggs are now being shipped from Germany to New York, so it does not look like over-production on the part of the American poultryman."

## COLUMBIA SCHOOL OF POULTRY CULTURE.

The success of the Columbia School of Poultry Culture, Waterville, N. Y., which was established something over a year ago, has put correspondence instruction in poultry keeping on a practical working basis. Poultry Keeper readers will be especially interested in the announcement of the school's courses of study as set forth on page 460 of this issue, and it will be well worth every earnest reader's time to send to the school for a copy of their handsome new illustrated booklet, giving a synopsis of the various courses. In no way can a better idea of their work be had than by a careful study of this book.

Mr. L. A. Peck, secretary of the Columbia School of Poultry Culture, under date of January 14, writes to Poultry Keeper as follows: "When the writer visited you in Quincy a year ago the Columbia School was only a scheme. We had nothing but hopes to base our ideas of the future. The past year has shown very plainly a number of important things. In the first place, correspondence instruction in poultry raising has proven practical. In the second place, it has been demonstrated that there is a large public to whom this work appeals. We



received between seven and ten thousand inquiries during 1903."

Students were enrolled from every state and nearly every territory in the United States, including Alaska, the Philippines and Hawaii, also from between fifteen and twenty foreign countries, among which might be mentioned England, Germany, New Zealand, Mexico, British Colonies in North America and in South Africa. In almost every instance the school has done for the student just what it agreed to do, namely, it has given a practical knowledge of profitable poultry raising. Students under this direction have reported good profits and in every instance where reports have been received Columbia School students have shown a good increase in profits since beginning the course."

The correspondence method as outlined and applied by the Columbia School is helpful from the very beginning. For 1904 new courses have been added and the school's faculty has been increased. We urge those interested to send for the school's prospectus and learn what it offers.

*"Success With Poultry" is worth more than all other poultry books put together if you want to learn how to make money with poultry. Price of book, \$1.00. For that amount (\$1.00) we send book post paid and full year's subscription to the Poultry Keeper. This is the biggest value ever offered in poultry literature.*

**HARDING'S EGG BUILDER.**

Geo. L. Harding,  
Binghamton, N. Y.  
Harding's Egg-Builder Ration was fed by the order of the management of the Binghamton Industrial Exposition to the 4,000 birds on exhibition in the Poultry department, Sept. 29th to Oct. 2nd—1903 with flattering results. I am only too glad when I see a good thing to let the public know of the same. I can cheerfully recommend "Harding's Egg-Builder Ration" to all poultrymen as a most excellent bal-

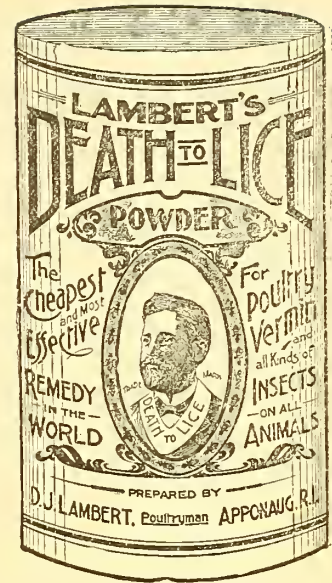
anced ration for forcing half grown chicks and feeding laying fowls. I also think it unexcelled as a food for exhibition birds.  
Secretary Binghamton Industrial Exposition, Binghamton, N. Y.  
(See page 492 for ad of Harding Poultry Products.)

**PRACTICAL TRAP NEST.**

Mr. Victor D. Caneday has had a trap-nest experience covering a number of years and his opinions regarding these nests are well worthy of consideration. His favorite nest is the "Ideal" and he recently wrote its inventor as follows:—  
Taylors Falls, Minn.,  
Mr. F. O. Wellcome, Yarmouth, Me.,  
Regarding your nest; I consider the "Ideal" the best general purpose nest I know anything about. It makes an "ideal" open nest, and is so easily converted into a trap nest, that I can quickly pick out the bird that is laying poor eggs any time, or find out anything I want to know about the layers, and readjust it to an open nest almost as quick as to reset it. Yours surely is a practical nest for every poultry raiser.  
Sincerely yours,  
Victor D. Caneday.  
(See ad of Ideal Trap Nests on page 478.)

The 1904 catalogue of the Burr Incubator Company of Omaha, Neb., is now ready for mailing. It is a beautiful book, filled with elegant illustrations, and, best of all, contains much valuable information regarding the successful raising of poultry with incubators and brooders. The Burr Incubator is one of the best known and most successful incubators in the country and it is sold at a price within the reach of all. In fact it is a matter of pride with the Burr Incubator Company that they are turning out a machine that is so simple and so perfectly automatic that the beginner succeeds as well as the expert. Prompt shipments are one of the company's strong points and it is selling the incubators and brooders on the "thirty day in your own home" plan. If you don't like them at the end of thirty days send them back and the money is yours. A plainer or stronger guaranty on incubators and brooders could not be given. If you are interested in poultry write for free catalogue. Address: Burr Incubator Company, Box K, Omaha, Neb., and mention P. K.

*We can save considerable in your subscription money. If you will send list of publications on a postal, special price will be quoted*



**This is the Remedy**

That I have manufactured and sold for upwards of twenty years. Other insecticides come and go but Death to Lice Powder has been and is now the most popular. Those who use it say it is the best for the purpose, the handiest and the most effectual.

**This is the Remedy**

That can be used with safety on show birds; will not stain their plumage or discolor their shanks, but acts as a cleanser, polisher and beautifier on all kinds of feathered birds. There are a number of things that will kill lice, but the most of them will kill the birds, stain their feathers, taint their flesh or make them unsightly or unsalable.

**This is the Remedy**

Used by the most successful breeders and exhibitors everywhere. It must do nice work or the upper ten of the poultry world would not continue to use it from year to year. But few keep hens for fun, the majority have to make money with them or quit the business, and they know that vermin invite failure and therefore use Death to Lice freely.

**This is the Remedy**

That is put up in all sizes of packages, from a 10c sample to a \$1.50 lb barrel. It is sold by agents and dealers in nearly every city of importance in this country and also in foreign climes. We also have Ointment, Special and Liquid Lice Killers which we advise and sell for specific purposes. Samples 10c each postpaid. Book free if you mention Poultry Keeper.

**D. J. LAMBERT,**

Box P, Apponaug, R. I.

**IMPORTANT AND PROFITABLE.**

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

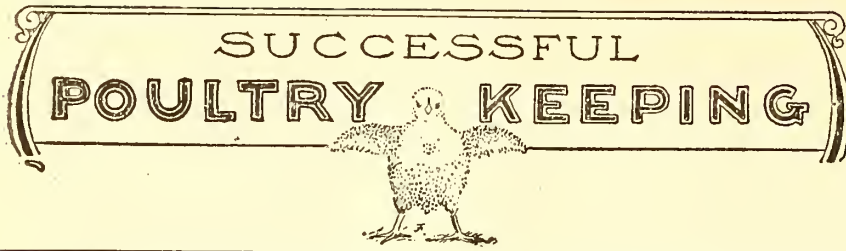
As a further inducement to our friends to send us "Blocks of Three"

POULTRY KEEPER, Quincy, Illinois.

Enclosed find one dollar for three subscriptions to POULTRY KEEPER for one full year.

|   | Name. | Postoffice. | State |
|---|-------|-------------|-------|
| 1 |       |             |       |
| 2 |       |             |       |
| 3 |       |             |       |





(This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.)

**SEASONABLE ITEMS OF INTEREST.**

Dr. N. W. Sanborn, Bellingham, Mass.

SO many readers are writing to me in regard to my methods of care, feeding and mating that I wish to give at this time some answer to the letters that have collected in my "den." I have tried to reply to letters that did not take too much time in the answering but lately the busy life of a country doctor has been too "strenuous" for letters and patients.

**Winter Eggs.**

The getting of eggs during the time of high prices seems to have bothered some of Poultry Keepers' readers. They are anxious to get winter profit as well as make the flock pay in the mild months of the year. There are two requirements to the getting of eggs through the winter months. The first is well matured pullets, and the second is supplying summer factors. Both are needed to get successful results. If the females are immature, all the good foods imaginable combined with proper housing and care will not bring the eggs. On the other hand, if well matured birds are not supplied the food necessary for egg making, or if obliged to keep up body heat in a zero house, they cannot lay many eggs.

Birds must be hatched early enough to get up to standard weight by the

**All the Leading Varieties of Standard Bred Poultry.**

**GOOD STOCK, PROMPT SHIPMENT, & LOW PRICES.**

| Varieties                  | Single Birds |
|----------------------------|--------------|
| Light Brahmans             | \$1.50       |
| Dark Brahmans              | 1.50         |
| Buff Cochins               | 1.50         |
| White Cochins              | 2.00         |
| Black Cochins              | 2.00         |
| Black Langshans            | 2.00         |
| Barred Plymouth Rocks      | 1.50         |
| Buff Plymouth Rocks        | 2.00         |
| White Plymouth Rocks       | 2.00         |
| Houdans                    | 1.50         |
| Golden Wyandottes          | 1.50         |
| Silver Laced Wyandottes    | 1.50         |
| White Wyandottes           | 1.50         |
| Single Comb Black Minorcas | 1.50         |
| Rose Comb Black Minorcas   | 1.50         |
| White Minorcas             | 1.50         |
| Single Comb Brown Leghorns | 1.00         |
| Rose Comb Brown Leghorns   | 1.50         |

| Varieties                  | Single Birds |
|----------------------------|--------------|
| Rose Comb White Leghorns   | 1.50         |
| Buff Leghorns              | 1.50         |
| Blue Andalusians           | 2.00         |
| Silver Spangled Hamburgs   | 1.50         |
| Cornish Indian Games       | 2.00         |
| Black Breasted Red Games   | 2.00         |
| Golden Polish              | 2.00         |
| Bearded Silver Polish      | 2.50         |
| White Crested Black Polish | 2.50         |
| Golden Sebright Bantams    | 2.00         |
| Buff Cochins Bantams       | 2.00         |
| Black Cochins Bantams      | 2.00         |
| White Cochins Bantams      | 2.00         |
| B. B. R. Game Bantams      | 1.25         |
| Pekin Ducks                | 1.00         |
| Toulouse Geese             | 2.25         |
| Mammoth Bronze Turkeys     | 3.00         |
| White Holland Turkeys      | 3.00         |

This stock is guaranteed true to name and first-class. Have hundreds of birds for sale. You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue for four cents in stamps.

**All Egg Orders** sent in within 30 days a 10 per cent discount from catalogue prices will be given for spring delivery. Every sitting guaranteed to give satisfaction. Send in your order soon. **ONLY 90 CENTS PER 13 FOR EGGS FOR HATCHING.** Mention Poultry Keeper.

**Northwestern Poultry and Fruit Farm,**

WALTER SEIDEL, Prop., Box K, Elerou, Ill.

**The Key To Success**

if you are keeping poultry or intend to, is to

**STUDY POULTRY CULTURE**

**We Teach It.**

Our whole business is giving instruction on this profitable and healthful profession. The course of study covers all branches. You study in your own home. The Advisory Board provides individual instruction. We assist graduates to paying positions. Our students are satisfied. Read the following:

St. Louis, Mo., Nov. 14, 1903.  
The American Poultry Institute,  
Rochester, N. Y.

Gentlemen: You cover every point thoroughly, and I feel confident that when I have gained all that your lectures and lessons cover, I will have a thorough, practical education in Poultry Culture. Respectfully yours,  
Win. J. McBURNEY.

Deep River, Conn. Nov. 16, 1903.  
The American Poultry Institute,  
Rochester, New York.

Gentlemen: I have received your lessons and think them very instructive and interesting, especially those on "Feeds and Feeding and Artificial Incubation." Tell me the ingredients of H. O. mash food. Would you advise using it in preference to mashies suggested in lessons on feeding, considering price? Second: Has white wheat more nourishment than red, providing quality is the same? If I can assist you in securing new students, I shall be pleased to do so. Yours truly,  
F. W. CHANDLER.

St. Albans, Vt., Nov. 18, 1903.  
The American Poultry Institute,  
Rochester, N. Y.

Gentlemen: Enclosed please find P.O. Order for my payment on tuition fee. I like the lectures very much. They are of great help to me. Yours truly,  
B. P. GREENE.

Testimonials from many other students including those who are in charge of poultry departments at Experimental Stations. **OUR FREE PROSPECTUS** develops fully our entire plan. Gives details as to courses, instruction, terms, names of faculty, etc. It is mailed free to any one on application. Write for it to-day. It points the way to profit in poultry raising.

**THE AMERICAN POULTRY INSTITUTE, - DEPT. P-13, ROCHESTER, N. Y.**



variety to begin life as chicks. The Leghorns do not need to be hatched as early as the Wyandottes. Too early hatching is nearly as bad in results as too late hatching. The extra early chicks lay in the fall but so many of them molt in November as to hinder more laying until the new feathers are all out.

Given well matured pullets, or yearling hens over the molt, in the middle of November, what should be the care and food for winter eggs? I can answer this oft repeated question of our readers by telling my way of doing it. I get eggs during all the months of the year and have usually succeeded in making my birds pay a fair profit during the zero weeks of winter.

#### Early Housing.

This getting the pullets in off the range and settled early in the winter house helps greatly in starting the eggs. If the birds are nearly mature by the end of September get them into the pens where they are to do their work for you. So far as possible do not move from pen to pen, or add birds later in the fall. A single new bird in a pen will stir up uneasiness in the whole flock and delay or lessen laying of eggs. Then the quiet life of the restricted yard tends more toward the egg habit that does the free life of the pasture. Food goes more to stimulate the egg system than to keep up body weight when the yard life is substituted for the half wild habits of the free range.

#### Feed for Growth.

The foods that make bone and muscle are those that are required for eggs. So you need simply plan to give those articles of diet that will continue the growth of the yarded chicks. This calls for wheat, barley, green-bone and meat, a good mash,

vegetables and cut grass or clover, with a limited amount of corn. Birds in the small yards will not stand the high feeding of corn that gives fine results when the birds have the run of the farm. You are after growth—not weight—and should feed with this in mind.

#### Do Not Stuff the Birds.

There is only one time of the day when the birds should have all they can crowd into their crops, and that is at roosting time. To over feed at breakfast, or at noon, is to send the birds into a corner or to the roost, to mope for hours, while digestion is trying to do something with the mass of food that has been crowded upon it. From the time the bird comes from the roost at daylight to the last feed at night, it should be in condition to scratch for a stray grain in the litter

or to run after the insect that appears under the fence. Keep the birds active if you want growth and early eggs. The well matured bird, active, well fed, well cared for, will lay in winter.

#### Bred-to-Lay-Stock.

Blood tells along all lines! We have the race horse. We have the butter cow. The big milker is getting more common. We have the birds that have been bred for generations for the table. These later years we have been working for the bred-to-lay birds. It takes skill (and patience) to produce this new bird. It is not nature to lay all the year round. Left to herself the bird would soon be doing all her laying at the time of the year when chicks could be produced most easily. You would have plenty of eggs in spring and summer but as to finding an egg in the hay-mow in the

## Who Breeds Barred Rocks and Rhode Island Reds? Well Raymond Breeds the Best. "The 200 Egg Strain." ←

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**EGGS** From finest exhibition matings, with the utility part left in, 15 eggs \$3.00; 30 eggs \$5.00; 50 eggs \$7.00, 100 eggs \$12.

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We raised last season more than 5,000 pure-bred White Leghorn chicks, all from the choicest matings, and we can justly claim to have the finest breeding stock in the country.

### FINE BREEDING COCKERELS AND PULLETS

Head your best pen with a cockerel from our strain. We offer first-class, early hatched, strong, vigorous, standard-bred cockerels, from unequaled egg strain, at prices from \$5.00 to \$25.00. They are the pick of a flock of 2,500 cockerels specially selected and raised to maturity—they are unsurpassed breeders. Fine breeding pullets \$2.00 per head and upwards. When you buy of us you get the best.

WRITE FOR FREE CATALOGUE.

Birds are shipped with infinite care and every precaution is taken to ensure them reaching destination in first-class condition.

**WHITE LEGHORN POULTRY YARDS CO.,** Box 514, Waterville, N. Y.



winter—it would be out of the question—Breed, variety, housing, feeding and maturity, all have a part in the getting of winter eggs, but the battle is half over when you start with birds that have the real egg laying habit bred into them for generations. Talk about it all you please, laugh at the idea as some have done, but the fact remains plain that blood tells along no line more surely than in the keeping of bred-to-lay birds for winter eggs.

**What Breed?**

The bred-to-lay birds that have made any stir in the poultry world have come out of the Wyandottes, Plymouth Rocks and Leghorns. The large poultry farms of note keep one of these three breeds. It is well to confine one's attention to one variety but in the learning which is the best for you and your locality it may be necessary to try more than one. You will do your best work with one va-

riety, and just as soon as you know which it is—throw out all the others.

**Shall We Cross Breeds?**

No! That has been tried over and over again and is seldom a lasting success. You spoil two good breeds and gain nothing. If you find the light weight Plymouth Rock best for good results for you, breed that kind of Rocks. Everything considered the weights as now given for the standard of our birds is all right. If the Plymouth Rock is too heavy a bird for your need then take up the Wyandotte. If your market pays its best price for a white egg then breed the Leghorn, making it as heavy a bird as seems best to you.

**Making a Start.**

If you have a strain of good winter layers, go on improving them along egg lines. If you have been following our teachings of the last three years and have not succeeded in getting eggs when you wanted them, then get

some of the egg-bred birds that are to be found not five hundred miles from any of our readers. There are careful breeders that will start you right if you will tell them what you have in mind. Whether to buy eggs for hatching, or to get a pen of birds and raise your own eggs for incubating, is a question to be settled by your pocket-book.

From my knowledge of poultry matters I should prefer to buy five birds as good as I could pay for and set all eggs laid in March, April and the first week in May. I should expect to raise over one hundred chicks from these birds, and have forty pullets to put in my winter laying house. This is starting large enough for safety. You will have some nice pullets, a fine cockerel, or two, with the five original birds for another year's breeding.

If you have only five dollars to make a new start you can do the most with it by buying eggs. A little look-

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**We Want You to Try Us**

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- 155 Popular-priced Furniture
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- Butterick Fashion Catalogue
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ing about will show you the place to invest this amount of money and you should have a pen or two of good breeders next fall to show for your money. Whatever you do take the best care of the birds all the seasons through that they may come to the winter months in shape for good service along money making lines.

**Will the Business be Overdone.**

Not in my day. We have heard this preached for a dozen years and yet see how the prices keep up in December and January. This country of ours is growing faster than we can supply the egg demand. Do our level best and still the great markets of the country will be calling for more and more fresh eggs. This month even case eggs are hard to get in our eastern cities and it is difficult to predict when eggs will be selling at old prices for the time of year.

I have tried to be frank in thus answering a few of the questions that are frequently asked me by Poultry Keeper subscribers and shall take up later some of those that refer to hatching of eggs and the rearing of chicks.  
Dr. N. W. Sanborn.

You can save money by subscribing for all your magazines and periodicals in connection with Poultry Keeper. You have only to mail us a postal card to find out prices of all you want.

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
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|  <p><b>SHE'S<br/>TOO<br/>LOUSY</b></p> | <p><b>TO LAY EGGS. GET RID OF THE LICE!</b><br/>All poultry-raisers should know of the new way—the way that's easy to keep hens and yards free from vermin. We'd like to send you a printed five-minutes-talk "how to keep away vermin permanently," saving monthly expense for kerosening, whitewash, insect powder, and lice killers.<br/><b>Carbolineum Wood Preserving Co.,<br/>MILWAUKEE, WIS.</b></p> |
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**BLUE BLOODED BUFF ORPINGTONS.**  
Sons and daughters 1st prize, Boston, Chicago Cock; 1st and 2nd Cincinnati, Hen; 1st Cincinnati Cockerel. Last three owned by me. Also purchased 1st Elmira Buff Rock Cock; 1st Frankfort, Ind. Buff Leghorn Cockerel; 3rd Louisville, Brown Leghorn pen.  
**RANKIN STRAIN PERIN DUCKS.**  
A few Brown Leghorn and Orpington Cockerels to spare.  
Send for free circular with instructions how to get eggs at half price. Free if you mention Poultry Keeper.  
**W. E. DAMON, PLEA SANT VALLEY, KY.**  
Ky. Vice President American Orpington Club.

**CHOICE LINE BRED BUFF ROCKS**

Price soon forgotten. Quality long remembered. Get plenty of winter eggs by starting right—with a sitting from my heavy laying strain, originating from the best yards in the country. Will reproduce themselves. No expense considered in obtaining the choicest. Pen 1, (scores nothing less than 91¼ to 93¼ females and 91¼ male). Egg \$3. 15. Pen 2, (89½ to 91¼, 93¼ male.) Eggs, \$2. 15. Scores by Judge Shane Fancy and utility combined in the highest degree. Nothing reserved. You will get the best I have from hens with winter egg records of 25 to 28 per month.  
Please mention Poultry Keeper.  
**C. M. CHAPLIN, 501 Washington Av., Evansville, Ind.**

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| <p><b>DR. SANBORN<br/>OFFERS IN<br/>BUFF WYANDOTTES</b></p> | <p><b>INCUBATOR EGGS,</b> from good stock, for \$8 and \$12 per 100 eggs. A few cockerels at \$3, \$5 and \$10. Eggs from best pens, after Feb. 1st one sitting, \$3; two sittings, \$5; 100 eggs for \$15. Buff Cochia Bantam eggs from one pen of eleven birds of show quality, for \$2 per 15 eggs.</p> |
| <p><b>DR. N. W. SANBORN, BOX 66, BELLINGHAM, MASS.</b></p>  |                                                                                                                                                                                                                                                                                                            |

# Millville Birds Win

## AT NEW YORK, 1904

**CHAMPION BUFF ROCKS RETAIN THEIR TITLE.**

Winning 2nd and 5th, Cock; 1st, 3rd and 4th Hen; 2nd Cockerel; 1st and 2nd Pullet; 1st and 3rd Pen. American Buff P. Rock Club Cup for best Cock, Hen, Cockerel and Pullet and nearly every other Special offered.

**THIS RECORD WAS MADE IN THE BEST CLASS OF BUFF ROCKS EVER SHOWN. WE DID NOT SHOW A SINGLE BIRD FROM OUR 1903 BOSTON CHAMPIONSHIP STRAIN. . . . .**

No other farm in the Country has ever made such a New York record.

### WHITE WYANDOTTES

Won 2nd hen; 2nd pullet; 5th pen (in 19); tied for second collection, and we bought the 1st pen.

**Buff Wyandottes** Won 4th cock; 1st hen; 2nd collection, and special for best female. We bought 2nd cock, and 1st pen.

Millville Matings for 1904 are 50 per cent stronger than in 1903, and will produce the winners for St. Louis and 1904-5.

Millville pairs, trios and pens will do you good, and please you, or you can get your money back, and return at our expense.

Millville Catalogue for 1904 will be the best yet, and is yours if you mention this paper. Not much to ask, surely.

Millville Farm wants you for a customer, and will go more than half way to make you a permanent one, if you will try us.

## Millville Poultry Farm Co.,

M. F. DELANO, President.

Box I, Millville, N. J.



## MONEY MADE KEEPING HENS.

Hundreds of farmers who never kept an account, would kill every "pesky hen" on the farm if it were not for the "women folks." The women intuitively know that the hens do not "eat their heads off every six months," but properly kept pay better than any other farm animals.

This is true. A record, simple to keep, so it would be used and show the facts in detail, would prove that every hen paid a profit. They could be made to pay from one to three dollars each. Mr. James L. Burgess, Nashua, N. H., reported to the Nashua "Telegraph" that his wife made a clean net profit last year of \$36.59 for eggs alone from only sixteen hens. He thinks her success was largely due to using Sheridan's Condition Powder. Manufactured by I. S. Johnson & Co., 232 Summer St., Boston, Mass. Leading poultry keepers all say there is nothing better to make hens lay.

## Barred Plymouth Rocks

BRADLEY BROS. AND RINGLET  
STOCK DIRECT.

My birds won 1st pen, 1st pullet, New York State Fair.

L, 3, 4 Pullets; 3 hen; 4 cockerel at Vermont State Poultry Assn. (Did not enter pen.)

EGGS \$2 PER SITTING.

Best Rocks You Can Buy.

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Ten different styles and sizes for use on poultry farms and buildings of all descriptions.

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WHITE WYANDOTTES

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper.

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WARNING!!

You are raising a nice, big crop of lice this winter on the warm, heavily feathered bodies of your hens and you will see the effect of your neglect when spring and summer comes, or perhaps sooner. Now if you would only use

## Lee's Lice Killer

you could get rid of the vermin before batching season arrives: your hens would lay better and bring forth healthier and stronger chicks. You can buy Lee's Lice Killer in quart, half gallon and gallon cans in most every important town in the United States or Canada. It's the best, surest, safest and easiest to use. Prepare now and send to us for our new poultry booklet, calendar and egg record, "A \$1000 Egg." It's free and will help you in your work.

Geo. H. Lee Co., Omaha, Neb.

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Contains *MORE* and *BETTER* Practical, Reliable Information on the general subject of

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Than any other book published. It treats of every branch of

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And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains *118 Pages* (9x12 inches in size) and *Cover and Is The Best Poultry Book Yet Published.* Contents (briefly stated) are as follows:

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*Care of Adult Fowls.*

*Feeding for Eggs.*

*A Hen Catechism.*

*Feeding Young Chickens.*

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*Care of Brooder Chicks.*

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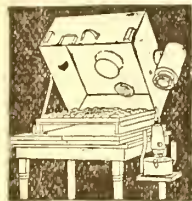
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The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

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THE PURE AIR HATCHING MACHINE.

No—it's no. an incubator. It hatches and the chicks in it. It's all metal—good as gold to people who want a business machine. Catalogue & ready. Get it.

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## Riverside Poultry Yards, Delaware, N, J.—Eggs for Hatching

From high class Barred and White P. Rocks, Single and Rose Comb R. I. Reds, White Wyandottes, Single Comb white, Single and Rose Comb Brown Leghorns, \$1 per 15; \$5 per 100 lots. Lt. Brahmas, \$1.50 per 15. Also S. C. and R. C. B. Minorcas, C. I. Games, Buff Wyands., Buff Orps. and Buff Leghorns, \$1.25 per 15. 15 years experience. Circular free if you mention P. K.

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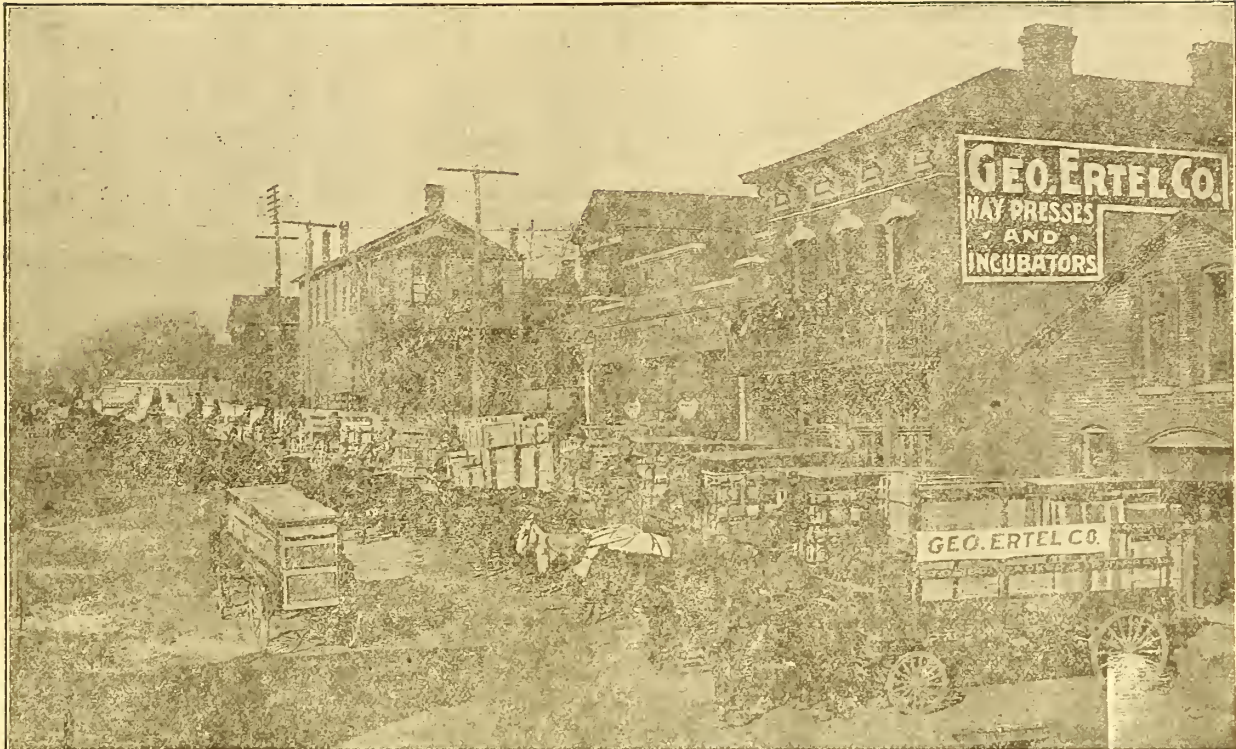
## System in Poultry Practice.

30 Chapters; 147 Pages; one Dollar Postpaid

Send for Booklet No. 4 Is the most striking document ever published on Poultry matters. Costs four cents 32 pages. Has sample page of book Results of old-time users of system. Many appreciative letters. Fully describes book.

JAMES SHACKLETON, BOX K-12, MILBURN, NEW JERSEY.





Starting off a big shipment of Victor Incubators from the factory of the manufacturers, Geo. Ertel Company, Quincy, Ill.

**VISIT TO A BUSY INCUBATOR FACTORY**

This is the season of the year when the incubator man is busy. Next month hundreds and thousands of incubators will be put at work to hatch 1904's crop of spring chickens.

The scribe thought the readers of the Poultry Keeper would be interested in knowing something about how incubators are made, and so called on the George Ertel Company and was shown through the plant by the president, Mr. Charles M. Ertel. This concern is one in which Quincy takes great pride. Established in 1867, thirty-seven years ago, it is one of the pioneers in its line. Beginning in a humble way the merits of its machines has made a constantly widening market and a steadily growing business. Today the Ertel machines are shipped all over this country, South America, Europe, Africa and Australia.

Citizens of Quincy seeing the Ertel wagons day after day carting incubators to the various freight depots have within the past two years seen this company twice break all records for the largest single day's shipments of incubators and brooders. February 14, 1902, they made the record shipment of five carloads in one day and last year, 1903, eclipsed their own record by forwarding over six carloads in one day on the same date, February 14. But the Ertel concern is a big one. Increased space has been needed from time to time and another shop and another building have been added from year to year and still the nearly a block of space covered is inadequate and plans are talked of for more room.

The writer was taken up and down and in and out among the different shops and warehouses. He saw the finished machines carefully packed and crated ready for shipment. He saw piles of seasoned lumber ready for the planing mills. He saw machines in all stages of erection. Copper tanks, lamps, burners, chimneys, regulators in all conditions.

He wondered at the many different steps, the number of parts which make up an apparently simple machine. His wonder grew as he saw the care with which the whole was watched over, the care that went into each detail. He decided that there was much more to the making of an incubator or a brooder than he had thought. He learned much that he had never dreamed of in connection with these machines, but as space is limited he will have to pass over the many interesting details and content himself with a few general observations.

In view of the statements made by different manufacturers of the value of different woods for use in incubator construction,

what the Ertel people say is of especial interest. They showed him butternut lumber, used exclusively for their best machines, which was bought over two years ago and told him how all their lumber was purchased a year or more ahead, and carefully selected and seasoned; how lumber which they used to buy a few years ago for about \$180.00 a car now costs \$400.00 to \$500.00 per car.

In addition to being well seasoned and of hard close grain the lumber used in incubator construction must be accurately fitted. There must be no leaky joints where a draft of air can get in to chill and kill the delicate embryo. The Ertel incubators are made and put together by first-class workmen—men who have been in the business for years, who take pride in their work and are known and respected in Quincy for conscientious reliable men.

The Ertel people are constantly at work devising plans to increase the efficiency of their machines. Receiving as they do hundreds of letters every month complimenting them on the perfection of their machines one would think they might now be content to adopt a standard and turn out the same machine year after year but it is not so. They themselves have not reached the position of saying their machines cannot be improved. They are constantly on the alert to see where they can better them.

Little points in construction, in ventilation, in regulation, in operation, are the subject of constant study and improvement. In addition to their own observation and experiments they frequently call to their aid scientific experts connected with the best colleges and institutions devoted to agricultural investigations. The results of the labors of a special commission of such experts employed at considerable expense last year led to several important changes in the machines turned out the past two seasons, which have undoubtedly increased the results their customers have secured from their machines.

It must be a pleasure to sit in the Ertel Company's office and open their mail. They showed the writer several commendatory letters taken from the morning mail. Words of such genuine appreciation and friendship for the makers of such a machine as they had found the Victor to be that they warmed the cockles of one's heart and led him to realize that such a business house has other than dollars and cents as a reward for observing its customers' interests.

The visit was terminated with a hearty laugh over the following unique experience:

Duke Center, Pa., Dec. 28th, 1903.  
Geo. Ertel Co., Quincy, Ill.  
Dear Sirs:—I want to say how well

pleased I am with the Incubator and Brooder I got from you this last spring. I will tell you of one hatch I had. I bought eggs from three different places, set with 72 eggs, tested out all but 53 and after having them set for one and one-half weeks, took them out, packed in basket and moved 10 miles. Reset and had 49 chickens, raised every one but four. Everyone thinks it is fine, so easy to care for.

Mrs. Eva Scowden,  
Duke Center, McKean County, Pa.  
(See full page ad of Ertel Co. on first page of this issue.)

**WILSON'S**  
New Green Bone, Shell and Vegetable Cutter for the Poultryman.  
Also Bone Mills for making phosphate and fertilizer at small cost for the farmer from 1 to 40 horse power. Farm Feed Mills grind fine, fast and easy. Send for circulars.  
**WILSON BROS., Sole Mfrs., Easton, Pa.**

**"EVERYTHING FOR THE POULTRY YARD"**  
Our illustrated descriptive catalogue and price list of everything needed by the poultryman, free for the asking. Address, THE POULTRY SUPPLY CO., Box 131, Kidders, N. Y.

**MAMMOTH**  
**White Sunflower**  
**SEEDS.**  
Plant Sunflowers and save grain bills. Fowls eat White Sunflower Seed greedily, and it is good for them.  
Will grow anywhere. Requires no cultivation, enormous size and very prolific. Every poultry keeper should raise sunflowers. The white is the best. For 25 cents we will send post-paid, to any address, a pound of last season's seed, sufficient to plant a large patch. It's a money saving proposition. Send for some and plant it.  
**POULTRY KEEPER PUB. CO.,**  
Quincy, Illinois.



## BREEDERS' CARDS

TOO LATE TO CLASSIFY.

**SILVER PENCILED PARTRIDGE**, Buff, White Wyandottes; Barred, Buff Rocks; Buff Orpingtons. Satisfaction guaranteed. Rockey Run Poultry Association, Clifton Springs, N. Y. 2-12

**EGGS FOR HATCHING** from my choice pens of S. C. W. Leghorns. Bred for large size and heavy egg production. Eggs guaranteed to be fertile, 15 for \$1.50; 30 for \$2.50; 100 for \$5. Fr. Waldon, Hawthorne, Ill., Box 21. 2-4

**SINGLE COMB BR. LEGHORNS** exclusively. Blue Ribbon strain. Send for my circular and show record. 16 years a breeder of first class exhibition and breeding stock. Eggs \$1.50 for 15. C. F. Lang, La Crosse, Wis. 2-4

**SUN BEAM POULTRY YARDS**, Chipewa Falls, Wis., are closing out Silver Laced Wyandottes, Rose Comb Brown Leghorns, score 90 to 92%. Also have Light Brahmans, Barred and White P. Rocks and Golden Wyandottes. Stock and eggs for sale. 2-1

**NOT HAVING TIME** to properly care for my 90 straight Homer pigeons, will sell the lot. Address H. N. Reed, Newark, Del. 2-1

**SINGLE COMB WHITE LEGHORNS**. Eggs from our best matings \$1 per 15; incubator eggs \$3.50 per 100. Write for full description of our stock. John R. Marvin, Fenton, Mich., Route No. 2. 2-4

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**-10,000 FERTILE S. C. White Leghorn** eggs for hatching, \$1 per 15; \$2 per 40; \$4 per 100; \$20 per 500. Great winter and summer layers. They are a regular egg machine. C. A. Stevens & Co., Box H., Wilson N. Y. 2-3

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**BUFF ORPINGTONS**, Partridge Cochins, White and Barred Rocks. Cockerels \$1 to \$2; trios, \$3 to \$5. Eggs \$1 per 15. White Pekin Ducks, eggs \$1 per 11. Rae Bird Phelps, Sharon, Wisc. 1-4

**SINGLE COMB BROWN Leghorn** eggs \$1 per 15. Cock direct from Wittman heads pen. D. M. Palmer, Rolfe, Iowa. 2-4

**ADDISON R. I. REDS** and Silver Laced Wyandottes in three years won 2 silver cups, 69-1st, 39-2nd. Do you want the best? Eggs \$2. Geo. Addison, Wenham, Mass. 2-4

**BARRED PLYMOUTH ROCKS** exclusively. Thompsons and Lambert strains. Eggs cheap. G. Roof, Bluffton, Ind., Route No. 7. 2-4

**SEND 25 CENTS** Silver and self addressed envelope to C. M. Long, Duncannon, Pa., for receipt to make sure death Louse Killer. Costs 1½ cents per gallon. 2-1

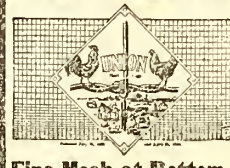
**SILVER GRAY EXCLUSIVELY**. 5 special prizes Boston, 1903, including two \$100 challenge cups, American Dorking Club cup New York, 1904, and two other first prizes. Eggs \$2.50, 13; \$4, 26. Watson Westfall, Sayre, Pa. 2-3

**WANTED.** Man and wife, who are experienced in running poultry plant and farming. Have one thousand good poultry now and facilities to increase considerably. Fifty acre farm. Good house and barn, poultry houses. None better. To the right parties a square deal will be given. None but those having experience need apply. Send reference with application. Box 353, Butler, Pa.

## ROSE COMB BROWN LEGHORNS

Some choice breeders and young stock for sale. Satisfaction guaranteed. Best eggs \$1.50 per 15. Please mention P. K. E. J. BARTH, 325 S. 12th St., Quincy, Ill.

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Has been fully tested and found superior to all others.

**Fine Mesh at Bottom for Small Chicks**

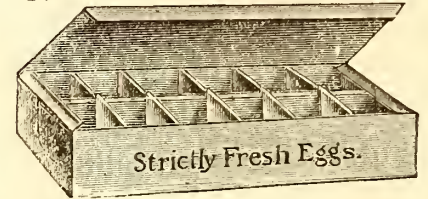
This feature adds greatly to the value of fence and places it in a class by itself. Every part stretches perfectly; does not sag between posts and will fit uneven ground without cutting. Union Lock Poultry Fencing is made at mills in Connecticut, Illinois and California. We pay freight and allow 30 days free trial. Send for free catalogue of Farm, Lawn and Poultry Fencing. Do it today.

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**FERRETS.** E. R. GIBBS, BREEDER and dealer in Ferrets, Guinea Pigs, Lop-Eared Himalayas, Belgian Hares, Angora and Common Rabbits. Send stamp for circular. NORWALK, OHIO.

**Buff White and Banded Plymouth Rocks** Cockerels, pullets and hens for sale. Send for catalogue. Mention P. K. Brookside Poultry Farm C. H. BARNES, Prop., Kalamazoo, Mich.

## Egg Box With Nests Attached.



**OBLONG OR SQUARE.**  
Doz. 20c; 50, 60c; 100, \$1; 500, \$4.25; 1000, \$7.50; delivered FLAT f. o. b. N. Y. City. Orders of 1000 or over special printing. Write for prices for larger quantities. Waxed paper butter print boxes—special boxes or cartons.

F. R. & F. J. VERNON,  
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## LIGHT BRAHMAS-MAMMOTH STRAIN

H. T. ROGERS, Cainsville, Missouri, Harrison County.

### 200 COCKERELS AND PULLETS.

The finest you ever saw with score cards by A. L. Pedrick which alone is a guarantee as to quality. We have won in the best shows. Do you want to do the same? Then come quick. We will guarantee every shipment.

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Please be sure to mention Poultry Keeper when writing.



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SHOW WHICH HEN LAID THE EGG

The Ideal is King of Them All

Easy Made, Inexpensive, Reliable, Practical for Every Poultry Keeper.

Write for circulars to

F. O. WELLCOME, Box C, Yarmouth, Maine.

They Work for Your Interests

## White Plymouth Rocks

THE KIND THAT WIN. THE KIND THAT LAY.

## EGGS! EGGS! EGGS!

Large and beautiful. White Pens headed by cocks scoring 96-95½-94½-94. Eggs \$2.00 per sitting. Order now. A great laying strain and sure to please you. I will please you in hatches.

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Is the Incubator you want BECAUSE it has a perfect heating and regulating system, BECAUSE it consumes five times less oil than others, BECAUSE it is the most simple in construction, and as finely finished as a parlor organ



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We Pay Freight.

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There have been many improvements added to this machine since that time. One, probably the most important, is in the ventilation. The question of the distribution of air and the amount of ventilation is one of vital importance and one that cannot be determined by the average poultryman. Patient and extensive laboratory experiments carried on during the seasons of 1901, '02 and '03 by skilled physicians and experts connected with the Cornell crew, have aided in the perfection of temperature regulation, system of heating and ventilating in the Cornell machine, so that in careful tests running through five or six hatches it has been proved to hatch a larger percentage of the fertile eggs, and to hatch strong and vigorous chicks.

The Cornell Incubator Mfg. Co. has just published a book of report of these testimonials containing 48 pages, which gives a full and careful report of these tests. The Cornell catalogue and book of reference for poultrymen for 1904 is now ready for distribution and, aside from being an incubator catalogue, it is one of the most valuable poultry books ever published, from the fact that there were written expressly for this book seventeen articles by that number of the most successful and popular poultrymen in America, dealing with the many different features of the poultry industry.

The Cornell Co. would be pleased to mail copies of the catalogue and testimonial book to anyone mentioning Poultry Keeper when writing. Address, Cornell Inc. Co., Box 11, Ithaca, N. Y.

James Crayton, Bellingham, Mass., one of our New England breeders of Buff Wyandottes, won first prize pen and Dutchter special at Milford, Dec. 8-10. See ad on page 484.

**STANDARD-BRED LIGHT BRAHMAS.** Fowls and eggs for sale at all times. I ship fowls or eggs to any part of the U. S. and Canada, to reach you in good shape. Give me a trial order, or call and see me. Mention P. K. **ARON J. FELTHOUSE,** P. O. Box 203, Elkhart, Ind.

**Squab Book Free**



Squabs are raised in months, one bringing big prices. Bigger market. Money makers for poultrymen, farmers, women. Here is something worth looking into. Send for our FREE BOOK, "How to Make Money With Squabs," and learn this rich industry. Address:

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All Wool Skirts.**

This cut pictures another of our handsome all wool skirts at

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It goes well with a pretty silk waist or looks stylish with a shirt waist.

The skirt is well made and has the popular and graceful sweep at the bottom.

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Catalogue and samples of cloth sent free if you write today and mention Poultry Keeper.

**MOLINE WOOLEN CO., Moline Illinois.**

**R. C. WHITE LEGHORNS.**



Scored by A. L. Pedrick. Cockerels 94, \$3; 93, \$2; 92, \$1; 91, \$1.50 for 2 birds. 10 hens and 4 pullets, average 91½, for \$10.50. Please mention P. K.

**MRS. S. P. ROGERS,**  
2-1 Box 12, Pleasanton, Iowa.

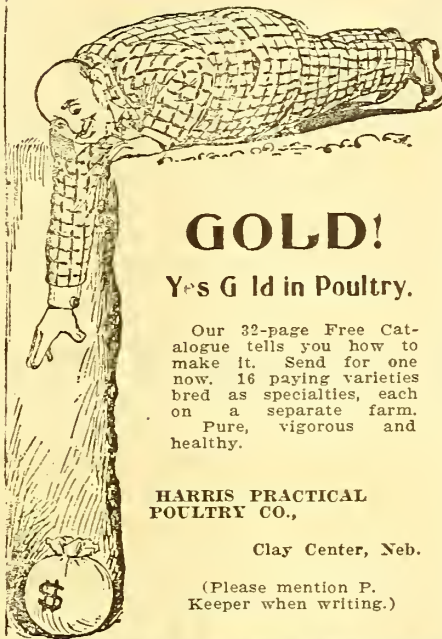
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Is the Poultryman's Friend.



Has triple walls; double dead air space; double doors; uniform temperature; runs the best; hatches the best; is the best. Write today for free circulars and mention Poul. Keeper.

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Y's G ld in Poultry.

Our 32-page Free Catalogue tells you how to make it. Send for one now. 16 paying varieties bred as specialties, each on a separate farm. Pure, vigorous and healthy.

**HARRIS PRACTICAL POULTRY CO.,**

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(Please mention P. Keeper when writing.)

**FREE POULTRY BOOKS**

We are printing a series of valuable poultry books to help our customers to right methods in handling poultry for profit. In November we published

**"A \$1000 Egg"**

telling how a young girl paid off the mortgage on her father's farm. It also contains a Calendar and Egg Record for 1904. 200,000 copies have already been sent out and we expect to make it a half million before the season is over. In March we will issue 200,000 copies of another book entitled

**"Mandy's Poultry School"**

This gives a detailed account of three years work in the poultry yards; tells how Mandy fed and handled her fowls; how she met and overcame difficulties; how she is now making a profit of over \$2000 per year. It is an interesting story full of poultry pointers and of value to experts as well as beginners.

**A Series of Five**

of these booklets will be published by us and they are free to all users of Lee's Lice Killer and Lee's Egg Maker, and to all owners of poultry. Write us, mentioning this paper, stating how many chickens you have and which book you want. Any one of the books will be sent free; or, if you want all five, send five 2c stamps and we will put you on our list and mail each as soon as published.

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| Green's Fruit Grower         | .50         | .70       |
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**POULTRY KEEPER PUB. CO.,**

**QUINCY, ILLINOIS.**



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Carefully selected, Bred over 20 years. Greatest Egg Laying Strain in existence. Large, pure white, fancy market eggs. Standard qualities. Birds a large, vigorous, active and handsome. Unexcelled for introducing blood or as foundation stock. Winners at Madison Square Garden, New York, 1903 and 1904. Stock for sale. Eggs for Hatchery. Illustrated circular free if you mention Poultry Keeper.

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EVERY DAY RESULTS, READ THEM.

## Single Comb White Leghorns.

Eggs, 1.50 per setting; \$5 per 100; \$3 per 50. I took first on cockerel, 1903, at Macomb, Ill.; 2nd on pen. My best hens scored by Charles McClave 94½ points. Some pullets left for sale at \$1.50 and \$2 each; or \$15 per dozen.

**H. C. BEEBE, Banner, Illinois.**

### 8,120 FEATHERS ON A BARRED ROCK HEN.

The H-O Company's Announcement of Results in their Unique Feather Guessing Contest.

(For particulars, see original announcement of Contest in previous issue of this Journal.)

The problem is solved. The above figures represent the official count. John H. Robinson, editor of Farm Poultry, received the majority of votes on the guessing certificates, and was therefore elected to select the judges. They were: H. J. Blanchard, Groton, N. Y.; W. R. Curtiss, Ransomville, N. Y., and H. P. Schwab, (President American Plymouth Rock Club) Rochester, N. Y. These gentlemen met on December 31st as scheduled, at Gardner & Dunning's Poultry Plant, Auburn, N. Y., killed the bird, counted the feathers, and made affidavit as to the result.

The sealed guesses were opened in the offices of the Feed Department of the H-O Company at Buffalo, by Mr. Aaron Fybush, attorney-at-law, a disinterested party (whose affidavit we also have) and the prizes awarded. Mr. Jas. D. Stover, of Pattenburg, N. J., won the first prize, of \$100 in gold, by having made the only correct estimate, 8,120.

Mr. Wm. Dow, Adams, Mass., with his estimate of \$,119, won second prize, of \$50 in gold.

Third prize, one ten of H-O Poultry Feed, was divided between G. F. Clark of Muskegon, Mich., and G. L. Cross, of Methuen, Mass., both of whom guessed 8,123.

Estimates were received all the way from "none to all" up to over 600,000,000.

As space forbids further details in these columns, complete list of prize winners with full particulars, will be furnished in printed form, on application to H-O Company, Feed Department (Contest Committee) Buffalo, N. Y. Mention P. K.

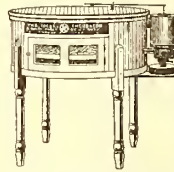
O. L. King, Walnut Grove, Ill., whose Barred Plymouth Rocks are as good as can be found in Illinois, has been a specialist in this variety for ten years. Last winter at Chicago Mr. King's Barred Rocks won first, third and fifth prizes. At Peoria this winter they won (16 birds entered—4 cockerels, 4 hens, 8 pullets) all firsts, seconds, thirds and fourths on cockerels and pullets, first and third on hens, and first, second and third on pens; W. S. Russell, judge. In a class of 167 birds they won all but two prizes competed for. Pens scored to 186 11-16 and fowls to 93%. The same week at Macomb, Chas. McClave, judge, they were the winners in their class. Mr. King bred and raised every bird shown and has others just as good that are ready now for the trade. He will have

twelve breeding yards to supply the egg trade and they will be his finest birds. He has just issued an attractive new circular that is free for the asking. See ad on page 488.



**CUTS OF CHICKENS.**—Every breeder needs them for cards, stationery and ads. Send today for my new proof sheet of "Ideal" Poultry Cuts—finest you can buy—all varieties—formerly sold by Harper Eng. Co.

Chas. L. Stiles, 921 Mohawk St., Columbus, O.



**HOAK'S ROUND INCUBATOR MATCHES** where others fail. No Cold Corners, Double Disc Regulator, Fresh Air Continually Supplied, Double Walls, Fresh Air Brooders. Free Catalogue. 30 Days' Trial. H. E. Hoak, Ligonier, Ind. Box K.

## SHOEMAKER'S BOOK ON POULTRY



and **ALMANAC for 1904** There is nothing in the world like it. It contains the following: 212 large pages, handsomely illustrated. A number of most beautifully colored plates, true to life. It tells all about all kinds of Thoroughbred Fowls, with life-like illustrations and prices of same. It tells how to raise poultry successfully and how to treat all diseases common among them. It gives working plans and illustrations of convenient Poultry Houses. It tells all about **INCUBATORS and BROODERS**. It gives full instructions for operating all kinds of Incubators. This chapter is marvellously complete and is worth dollars to anyone using an incubator. It gives descriptions and prices of Incubators, Brooders, and all kinds of Poultry Supplies. In fact, it is an encyclopedia of chickendom and will be mailed to anyone on receipt of only 15 cents. Your money refunded, if not pleased. Address **C. C. SHOEMAKER, Box 714, Freeport, Ill.**

### BLACK AND WHITE MINORCAS EXCLUSIVELY.

Largest Yards in the South.

## Eleven Ribbons Out of Twenty, Richmond Va., Nov. 1903

BLOOD WILL TELL.

For sale 50 Cocks, Cockerels, Hens and Pullets. Eggs \$2 and \$3 per 13. Orders booked for eggs now if cash accompanies order.

**C. H. STAUNTON, Barton Heights, Va., successor to J. Norman Bowen.** Buy of an exclusive breeder of one breed. He studies the variety and produces good stock

ON SIX ENTRIES AT THE BIG MINNEAPOLIS SHOW MY

## White Wyandottes Won

FIRST, COCKEREL.

SECOND, COCKEREL.

FIRST, PULLET.

THIRD, PULLET.

And Specials for **BEST MALE** and **FEMALE**; Also Nat'l White Wyandotte Club Specials for Best Cockerel and Pullet. No pens or adult birds shown. Conclusive evidence that my White Wyandottes are as good as the best. Circular Free.

**EDWIN H. SMITH, BOARD OF TRADE, DULUTH, MINN.**

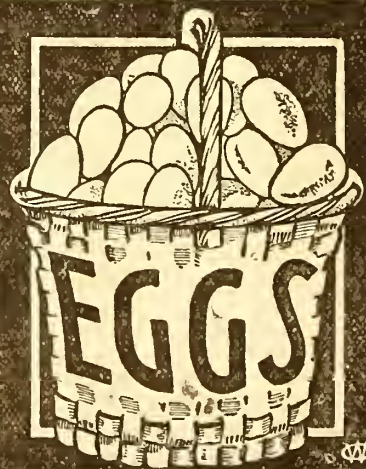
### A BASKETFUL OR A HANDFUL?

There's no money in feeding hens and then get next to nothing in eggs. Feed them green bone and watch the increase. It makes chicks grow; stimulates hens to lay; makes them all healthy. Put big or little bones into an

## ADAM GREEN BONE CUTTER

A granular bone will come out just the right size for chicks and hens. It's a strong, rigid machine; runs on ball bearings; all parts interchangeable; easily cleaned; cuts hardest bone. Send for our free catalogue No. 16, it gives prices and full details. Gives many good reasons why you should buy the Adam.

**W. J. ADAM, JOLIET, ILLINOIS**





**WIRE NETTING BARGAINS.**

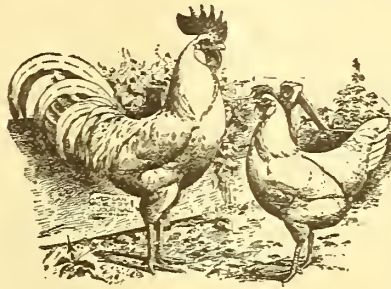
Under this heading there will be found on page 487 in the ad of A. J. Child & Son, 511 and 513 North Main St., St. Louis, Mo., attractive offers in standard high grade poultry netting. They have a large stock on hand and every order will have prompt shipment. Poultry Keeper readers who appreciate bargains will not miss the opportunity given here.

**A FINE INCUBATOR CATALOGUE.**

"Here's Its Name; Inside Its Fame," is the title of the new catalogue of the Iowa Incubator Company, Des Moines, Iowa, which is just out. The cover is an artistic conception—the above phrase encircling a map of the State of Iowa, printed in yellow and blue. It is a worthy piece of advertising literature for the incubator with "No cold corners," and the many friends of this famous machine will want a copy for preservation.

The Iowa Incubator has made the name of the state in which it is manufactured known all over the world. The catalogue tells about a number of 95 per cent hatcheries and ought to be in the hands of every one who raises chickens. It is mailed free of charge to those who mention P. K. See ad on page 459.

**GOLLINS' WHITE LEGHORNS**



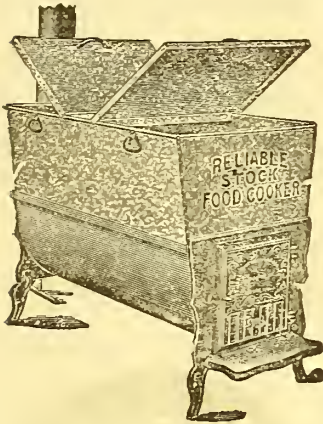
**NEVER FAIL TO PLEASE**

Are the greatest layers known. They lay in the winter and all the year. They lay more and larger eggs at less expense than any others. They are standard pure bred, large size, high scoring prize winners at all leading shows where exhibited. No one has better; few as good. They are Money Makers Sure. It has cost many years of thought and careful breeding to accomplish above results, yet you can secure their stock or eggs for hatching at little more than you pay for uncertainties. Note the above undisputed solid facts. No experiments. Stock and Eggs for sale. Satisfaction guaranteed. I have mated several pens with choicest, high scoring, prize winners and heaviest of layers of exceptionally fancy and eggs at prices—quality considered—that cannot be duplicated for twice the money. 100 Eggs .....\$5.00 200 Eggs ..... 9.00 500 Eggs .....20.00

1 Sitting, 15 Eggs .....\$1.50  
2 Sittings, 30 Eggs ..... 2.75  
50 Eggs ..... 3.50  
Reference, Second National Bank, Ravenna, Keeper.

Ohio. Write wants and mention Poultry N. R. COLLINS, ROOTSTOWN, O.

**Reliable Feed Cookers**



Fill the long-felt want of a good Feed Cooker and Water Heater at a low price. They are, as the name indicates, reliable in every way. Boilers are of best No. 22 galvanized steel. OUR \$5.00 FEED COOKER meets the demand for a small cooker at a low price.

- Price, 20 gallon size, burns wood only.....\$ 5.00
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- Price, 50 gallon size, burns wood or coal ..... 12.00
- Price, 100 gallon size, burns wood or coal ..... 16.00

Write at once for circulars and don't buy until you see what we have to offer.

Reliable Incubator & Brooder Co., U. S. A., Box A-15,  
QUINCY, ILLINOIS.

**1904 NEW YORK FIRST WINNERS  
FOR FIFTEEN YEARS AMERICA'S BEST**

**AND STILL AT THE HEAD.  
BRADLEY BROS. BARRED PLYMOUTH ROCKS**



A "GRANDSON'S BROTHER" MALE, sired by a son of "Grandson's Brother 5th", for which \$100 was refused as a cock. The bird in the cut is the sire of more First National Winning Cockerels than any other male living.

**AT NEW YORK SHOW, 1904,** FIVE of the Nine Blue Ribbon Birds were bred and raised by us. The First Prize Cockerel is now in our yards.

For the last Fifteen Years, birds we Bred and Raised have won at New York Shows as follows:

- (1)  MORE FIRST PRIZES by over 25 per cent than any other exhibitor has won on ANY STOCK.
- (2)  Nearly DOUBLE the First Prizes on EXHIBITION PENS that any other exhibitor has won.
- (3)  Nearly DOUBLE the number of FIRST PRIZES on COCKERELS of any other exhibitor.
- (4)  And THREE TIMES the number of FIRST PRIZES on MALES that any other exhibitor has won on stock not our breeding.

ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS., who have full liberty to make the foregoing statements.

No Less Than Thirty-Seven Winning Males at New York Shows have been bred by us the last fifteen years.

Our birds have been Winners at the Largest Shows held in this Country, also in England. Our shipments have extended to Canada, Mexico, West Indies, Spain and Africa. \$250.00 was refused for a cockerel and Pullet hatched by two customers from eggs we sold.

THE HIGHEST PRICE EVER GIVEN in this country, to our knowledge, for a Barred Plymouth Rock, was received for a "Lee Belle" female Bred and Raised by us. Write for our surpassing New York Show Records.

PULLET BREEDERS, the best we ever offered—same lines as Blue Ribbon Females at New York, 1904, for sale. Also brothers and sisters of First Place Winners at New York, 1904, in Both Cockerel and Pullets Bred Lines at fair prices.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of Medium Priced Exhibition Birds—hot ones for the money. Carefully mated Breeding Yards of 5 birds, mated for either light, medium or dark progeny as desired, \$20 and up. Special prices on poultry in large numbers.

New edition of "America's Best—Illustrated," giving 22 pictures of Recent New York Winners, also pamphlet of "What Our Hatching Eggs Produced for Our Customers Last Season," both sent free.

EGGS FOR 1904 From Best Pens Only, \$6 per 13; \$10 per 26; \$14 per 39; \$35 per 100.

BRADLEY BROS., Box 825, Lee, Mass.



A. P. Winslow of Freeport, Maine stakes the reputation of his excellent Barred Plymouth Rocks not only on their show record but on their heavy egg production. He is selling eggs for hatching guaranteed to hatch chicks that will please for both utility and beauty at \$2 per sitting. See ad on page 483.

C. H. Staunton, Barton Heights Va., has a strain of White and Black Minorcas that surpass any birds of the kind in the south. In contest at the big show of the south these birds have proved their quality. At Richmond (Va.) they won eleven out of twenty ribbons. Mr. Staunton is a specialist who has given much thought to his stock. See ad on page 480.

**SPECIAL BARGAINS!**

Grand lot high class **BUFF P. ROCKS**, (Pure "Nugget" strain). Breeders score to 94%, honest score. Buff wings and tall. Line bred for years. **WILD and BRONZE TURKEYS**, score 97%. Write **J. C. CLIPP, Box A., Saltito, Ind.**

**THE REAL THING**

McClaves matchless prize winning White, Golden and Silver Wyandottes, Barred and White Rocks, White and Brown Leghorns, Black Hamburgs, Light Brahmas, Langshans, R. C. B. Bantams, Bib Bronze, White and Narragansett Turkeys, all standard varieties of geese and ducks. Scotch Collie Shepherd Dogs. Finest collection of these varieties in America. More first prizes on our birds at Pan-American Pittsburg, Chicago, Columbus, Cambridge and Akron, than any other exhibitor. 612 prizes won at six shows. More than 1,000 choice birds for sale. Prices reasonable. Best quality. Prompt service. Low express rate. Satisfied buyers. Largest practical poultry farm in Ohio. Over a quarter of a century of successful operation. Write

**CHARLES McCLAVE, Box 700, New London, O.**

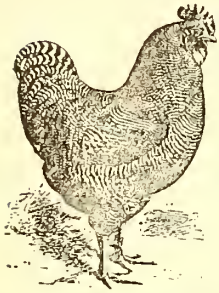
**POULTRY SUPPLIES** OF EVERY DESCRIPTION



Prairie State Incubators and Brooders; Prize, Champion. Old Homestead and Russ Brooders; Drinking Fountains; Caponizing Instruments; Spray Pumps; White Washing Machines; Powder and Liquid Lice Killers; Confiton Powder; Wire Netting; Dog Cakes and Dog Medicines, and everything necessary for breeding and rearing poultry and pet stock. Our immense Illustrated Catalogue gives a complete list. It's free if you mention Poultry Keeper. See d

**EXCELSIOR WIRE AND POULTRY SUPPLY CO.,**  
**W. V. RUSS, Prop.** Dept. K, 26 & 28 Vesey Street, New York City.

**Reliable Poultryman's Cuts and Poultryman's Printing.**



We are offering to the poultry fraternity a full line of Poultryman's Cuts for printing and advertising purposes, designed and drawn from original birds and by one of the most successful artists in the world. We also do Poultryman's Printing, and will use any cuts shown in our catalogue for the printing without extra charge, thus bringing the rate of printing down to the minimum. Send for our Free Catalogue of Poultryman's Cuts & Poultryman's Printing. Address,

**RELIABLE INCUBATOR & BROODER CO.,**

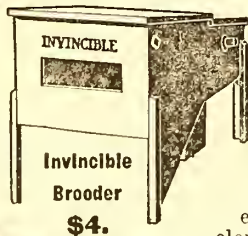
Quincy, Ill., U. S. A. Box A-15.

**NO PAY  
TILL YOU'RE  
SUITED**

**The First  
Four Reasons**

**30 DAYS  
FREE  
TRIAL**

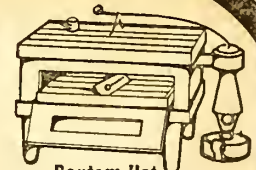
for owning a Buckeye or a Bantam Incubator readily appeal to every poultry raiser as unequalled arguments for a thorough consideration of our claims. We get no money from you till you have given our machines a fair test in your own home. This trial time is thirty days—long enough to prove that the Bantam and



**Invincible  
Brooder  
\$4.**

**Buckeye Incubator**

will hatch nearly every fertile egg. 50 chicks from 50 eggs have been hatched in a good many instances. Testimonials of the poultry raisers who get these results occupy six pages in our new catalog. Besides, Bantam and Buckeye Incubators are strong, rigid and carefully constructed. They're built to withstand heat and moisture, and all other elements that tend to cause an incubator to split, crack or warp. Buckeye and Bantams are simple in construction, easy to understand. A child can operate them. Regulation, ventilation and moisture are all automatic. The heaters and boilers, the lamps, etc., all are adjusted to give excellent hatches at the least possible expense or annoyance. Send for our free, new illustrated catalog and learn "how much a hen should earn."



**Bantam Hot  
Water Incubator  
\$5.**

**50 CHICKS  
HATCH  
OFTEN FROM  
50 EGGS**

**Buckeye Incubator Co.**

**Box 114,  
Springfield, Ohio**

**THEY'RE  
STRONG  
DURABLE  
SIMPLE**



**CHAMBERLAIN'S PERFECT CHICK FOOD**

The following is a letter from E. S. Foulks, breeder of the Ideal strain of S. C. B. Minorcas, largest Minorca farm in the west.

Jefferson, Iowa, Sept. 14, 1903.

W. F. Chamberlain:

I wish to say that your Chick Food is a perfect feed for young chickens. The past season was so cold and wet that I expected to have much sickness among my young chicks, but they escaped all bowel trouble. This is a disease that kills three-fourths of the brooder chicks in this locality when fed on the usual feeds. Have raised over 1,000 Minorcas on your feed, purchased from The Iowa Seed Co., and in the future will use no other feed but yours.

Yours truly,  
E. S. Foulks.

(See Mr. Chamberlain's ad on back cover.)

**SMITH'S SEALED LEG BANDS.**

are designed to insure positive identification of scored birds, and they do it. No lost bands. No duplicate numbers. Prices, post paid, 30c per 12; 25, 50c; 60, \$1; 100, \$1.50. Five sizes wanted. Sealers, plain, 50c; lettered, 65c; nickel plated, 75c. Samples and our leg band booklet for stamp.

THE KEYES-DAVIS CO., Ltd., Mfrs.,  
Battle Creek, Michigan.

**EASY MONEY**

is made by installing a Hawkeye Incubator. Little cost, little care, results sure, profits large. 30 Days' Free Trial. Catalogue free. Mention this paper.—Hawkeye Incubator Co., Box 5, Newton, Iowa.

**NO MORE CHICKEN LICE AND MITES**

after once using Carbolineum Preservative.

A thin liquid, easily applied with brush or spray pump to inside woodwork of poultry houses. Keeps vermin out permanently. Acknowledged the best preserver of wood in any situation against rot and decay. 30 years on the market. Shipped Freight prepaid. Circulars Free.

MILWAUKEE WOOD PRESERVING CO.,  
803 Third Street, Milwaukee, Wis.

**WINSLOW'S BARR'D ROCKS**

Won at Freeport, Me., December, 1903, 2d, (tie for 1st); 4th Hen; 3d Cock; 3d Pen. Special for best colored Barred Rock in show. This record combined with their reputation as heavy layers.

**SHOULD INTEREST YOU.**

EGGS that will hatch chicks to please you for both utility and beauty, \$2.00 per sitting. Stock for sale.

220 Egg Cyphers Incubator for sale.

A. P. WINSLOW, Bx 1334, Freeport, Me.

**SAVE YOUR CHICKS**

Keep them from bowel trouble and all ailments incident to the first five weeks. Profit lies in the chicks you raise to maturity—not in the number hatched. Give them a ration that makes healthy, well developed bodies like



**HARDIE'S CHICK FEED**

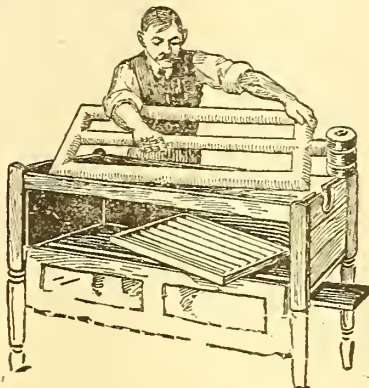
It contains ingredients that long experience in poultry raising has found best adapted to growing chicks. It is promptly digested; causes no indigestion; keeps bowels in normal condition. Chicks show increase in weight, strength and beauty when fed exclusively. Little chicks need no other food for the first five or six weeks. Save your chicks and make good profits. Hardie's Chick Food is sold in 25 lb., 50 lb. and 100 lb. bags. Write for complete information to



THE HARDIE CO.  
Box 13  
Kearney, Neb.

**BUILD YOUR OWN INCUBATOR**

**AND BROODER**



OF COURSE YOU CAN be just as clever as the several thousand average men, boys (and women too) who have taken up with the NEW IDEA IN INCUBATORS and built their own machines and operated them with phenomenal success.

IT'S VERY EASY. Write for one of our new catalogues How to Make and Save Money with Incubators and Brooders. This Unique, Attractive Poultry Book and Catalogue gives full particulars of our striking, original proposition on building Incubators and Brooders

YOU CAN DO BUSINESS with us in either one of two ways. We also manufacture and furnish the New Idea Complete. Incubators and Brooders in both 100 and 200 size all ready for hatching. If you prefer them this way they save you more than ONE THIRD. If you lack the time or knack for doing things, either way we are fixed for doing business with you

**WHEN BUILT**

Your machine will look like the illustration opposite and will hatch as well as any first-class machine made. It is a standard Incubator, has all the late improvements and will cost you, as compared with other first-class Incubators, ONE-HALF as much

Why not save this money

**WHAT OUR CUSTOMERS SAY.**

Dalton, O., Apr 13 1903  
Channon, Snow & Co.,  
Quincy Ill.

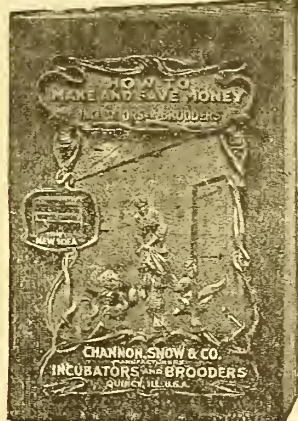
Gentlemen: This is my report of my hatch in your New Idea Incubator, got 126 chicks out of 165 eggs.



No trouble to build the machine. R. F. Snodgrass.  
Bendona, Kans., March 16, 1903.

Channon, Snow & Co., Quincy, Ill.

I have an incubator from your plans and fixtures and can say that I think they are as good as money can buy. Yours Truly,  
O. C. OVERMILLER.



The Catalogue is Free.

**DON'T DOUBT! BELIEVE!**

Doubters do little in this world. The people that believe they can do, DO! DO! Again we assure you its easy. If you will send for our Catalogue, which tells you HOW, and its FREE. Write to-day and enclose 2c stamp for postage.

We are anxious to hear from you, for we are satisfied we can convince and show you we have the best Incubator offered on the market

We also carry a large and compete line of, Incubators, Brooders and Poultry Appliances, Poultry Supplies, etc., at prices that will save you money. Write to-day.

**Channon Snow & Co.**

Box D. Quincy, Illinois, U. S. A



**E. B. THOMPSON'S Barred Rocks.** Winners at Kingston, Auburn and State Fairs. Eggs equal to best at \$1.50 per 13; \$2.50 per 26; \$6 per 100. H. E. Kipp, Red Hook, N. Y. 2-4

**214 EGG ST. AN** White Wyandottes mated to sons of a 241 EGG HEN. Eggs \$1.50 for 15; \$7.50 for 100. Young chicks \$7 for 50; \$12 for 100. P. J. HOEVEL, Box 349, Seymour, Conn.

**BUFF WYANDOTTES EXCLUSIVELY.** Sanborn strain. Incubator egg lots \$8 and \$10 per 100. A limited number sittings from best yard, including winners of 1st pen and Dutcher special, at Millford, 1 setting \$3; two for \$5. J. CRAYTON, Box 68, Bellingham, Mass.

**POULTRY PUBLICATIONS.** Poultry News, 25 cents yearly, illustrated, instructive, interesting. Has special departments on Pigeons, Bees, Turkeys, Water Fowl, Hares, Pet Stock, Farm and Home. Sample free. Ad. rate 70 cents an inch. Circulation over 7,500 copies monthly, New Era, Newark, New Jersey. 9-x

**WHITE PLYMOUTH ROCK and BLACK LANGSHAN** cockerels sired by 1st Prize Hen at Wisc. State Fair, price \$2 each. **GOLDEN WYANDOTTE** egl., score 90%, price \$1.50. **ROSE COMB WHITE LEGHORN** Pullet, 94%, price \$2. L. P. GILLON, West Allis, Wis., R. R. 15.

The Buff Orpington has come to the front remarkably strong as a paying fowl for all practical purposes. W. E. Daman, Pleasant, Valley, Ky., (see ad on page 475) has a few fowls for sale and is making a special offer on eggs for hatching. He also has Buff Rocks, Buff Leghorns and Pekin Ducks and it will be seen by his ad that his birds are of winning stock.

**POULTRY FARM FOR SALE.** 50 acres land, new barn, two wells, (one in hen house), buildings for five hundred hens, one mile from railroad station, school, store and postoffice. Death of owner cause of sale. Price \$1,000. Address, Mrs. Abbie E. Young, Clarks Corner, Conn.

**CAPON TOOLS**  
Complete set, with full instructions, postpaid, on receipt of \$2.50. 25 p. Capon Book free for 2c. stamp, Poultry Marker. 2c. Boup Syringe, 10c.

Gape-Worm Extractor, 2c. Remit by Money-Order or registered letter. G. P. MILLING & SONS, 1229 Callowhill Street, Philadelphia, Pa.

**YOUNG CHICKS**

Just hatched from Barred and Buff Plymouth Rocks, Single Comb Write Leghorns, and White Wyandottes, at 8 1/2 to 15 cents each. Distance no objection. 6,000 chicks hatched per week at the Pine Tree Hatchery. Send for circular, and get your order in early.

JOS. D. WILSON, Stockton, N. J. (Please mention Poultry Keeper.) 2-6

**BARRED PLY ROCKS**

High class stock. Won 1st cockerel at Houston, Texas, Nov. 28, 1903. A few cockerels good as my 1st at Houston for sale. **EGGS \$2.50 PER 15.** Satisfaction guaranteed. Ben. T. Laws, Box A-205, Conroe, Texas.

**THE IMPROVED CHAMPION LEG BAND.**

**25 PAT. APPLIED FOR**

Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock, they can't lose off. Postpaid 12-15c; 25-30c; 50-60c; 100-80c; initials extra 10c per 100.

The SUPERIOR is securely locked can't lose off, six sizes. State breed and sex. Postpaid 12-20c; 25-35c; 50-60c; 100 \$1; sample for stamp. Circular free.

T. CADWALLADER, Box 704, Salem, Ohio.

**CLIMAX LEG BANDS**  
Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied. Note Reduced Prices, 13 for 25c; 25 for 50; 60c; 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples. The Keyes-Craig Co., Ltd., Mfrs. Battle Creek, Mich.

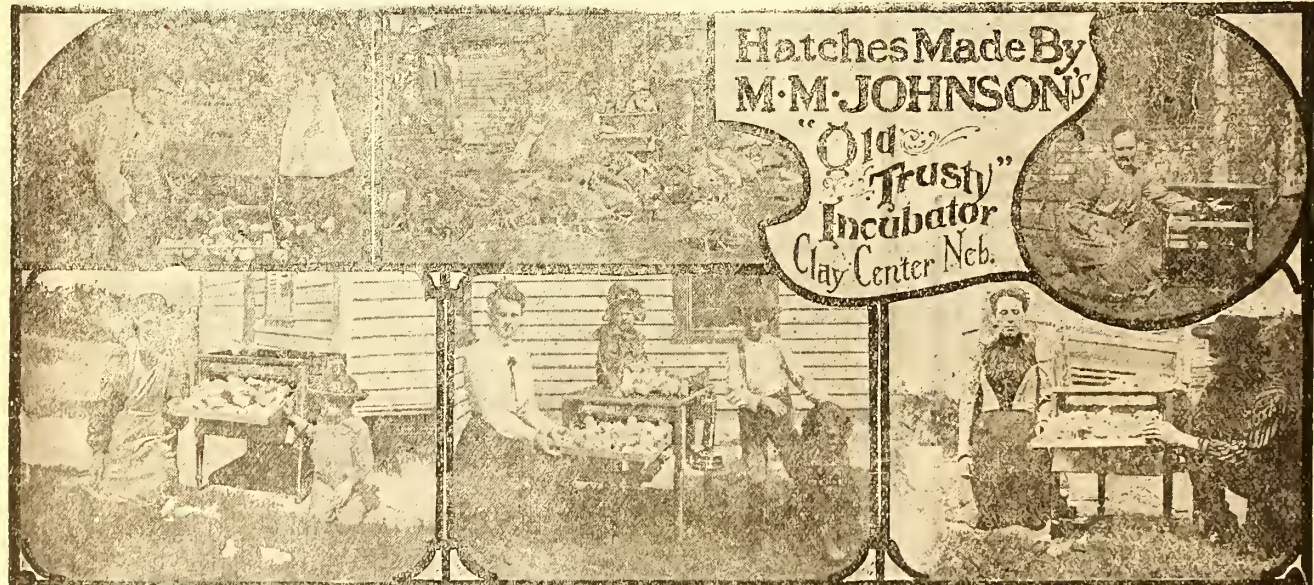
**PINELAND**

INCUBATORS HATCH GREATEST NUMBER OF FINEST CHICKS. BROODERS HAVE NEVER BEEN EQUALED.

**FIDELITY FOOD FOR YOUNG CHICKS.** Used everywhere by practical poultrymen and special fanciers with unfailing success. Insures perfect health and promotes rapid growth. Concise catalogue from Pineland Incubator & Brooder Co., Box C, Jamesburg, N. J., U. S. A.

**J. T. French**, 839 W. Grove Place, Toledo, Ohio

Barred Plymouth Rocks of the highest quality. 1st Cock; 5th Pullet at Chicago, Dec. 1903. Hewes, Judge. Eggs from correctly mated stock \$3 per 15 straight.



Johnson says the real worth of an Incubator is in its hatching, ease of operation, economy and respectable appearance, and that all other considerations are foreign to a sensible way of looking at these things.

M. M. Johnson's new Catalogue of Old Trusty Incubators has come to hand; big fat catalogue that is full of poultry meat. It is the kind of catalogue one wants to show to his friends, and read over with the women folks. We say: "Well done, Johnson." All the expert catalogue writers on earth could not have produced such a catalogue. Every page gives a lesson and there are 108 of them. There is sound philosophy of honesty and unselfishness in it. There is not a farm home in America which would not be brightened and cheered by this book which Johnson calls a catalogue.

From the Nebraska Farmer of Dec. 24, 1903.

Denver, Colo., December 19, 1903.  
Mr. M. M. Johnson: Your catalogue came to hand. Never did I see one so full of good common sense and language. Not in a single instance have I seen wherein you have overdrawn on the possibilities and probabilities of poultry raising, as is so often the case in books of a like nature. Being an engineer myself, and having a pretty good idea what constitutes a good heating system, I would certainly say that your invention should appeal to thinking people whether they have made hot water circulation a study or not. I shall retain the book and your letter a long time so that I can see how Johnson talks.

Wm. A. NIGH, Engineer Stock Yards, Box 91.



**SUCCESS WITH POULTRY.**

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry will help you

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

Do you want to get plans for building practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages (9-12 inches in size, with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

**WHITE ROCKS FISHEL STRAIN**

May hatched, bred from \$50 pen, direct from Fishel. Cockerels \$1 to \$3.50. Pullets, \$1 to \$2.50. White Wyandottes for sale. Terms cash. BROWER & SONS, Box 50, Grafton, Ill.

**OUR BROODER SECRET**

Raise-All Brooders astonish the poultry world. Will not over-heat chicks; avoid bowel trouble and other brooder fatalities. Secret lies in my plan of heating and ventilating by infusing fresh warm air. Catalog explains why brooder chicks die. It's free. GEORGE KREUSCHER, SOMERS, WIS.



**BEAT THE WORLD**  
How the orders are pouring in for HOOSIER INCUBATORS AND BROODERS. This is because they are proving to be the best built, easiest operated, and surest in results of any machines on the market.

Both incubators and brooders are fitted with our triple-strength regulator which makes them absolutely certain. Guaranteed to hatch and raise more chicks with less care than any other machines or your money back. Free catalogue to all who mention Poultry Keeper. Tells all about them. Send for it. HOOSIER INCUBATOR & BROODER CO., Columbia City, Indiana.

**HOW TO GET \$2 EGGS**

For 50c Per Sitting.

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.

V. F. CHAMBERLAIN, (The Perfect Chick Feed Man) KIRKWOOD, MO.

**White Wyandottes Exclusively.**

Catalogue free if you mention Poultry Keeper. ARTHUR F. HARTMAN, Box 111, Nappanee, Ind.

**\$5 Buys One M. B. Tom**

Or two Hens. Trio fine chickens. 100 Eggs for hatching. B. Leghorn, W. Leghorn, B. P. Rock, W. P. Rock, Blk. Minorca or W. Wyandotte. 13 Pit Game Eggs \$2. 10 M. B. Turkey Eggs \$2.50. Circular free if you mention Poultry Keeper. E. W. GEER, Farmington, Missouri.

**BARRED PLYMOUTH ROCKS. EGGS \$2 PER 15.**

**WHITE PLYMOUTH ROCKS EGGS \$2 PER 15.**

**S. C. WHITE LEGHORNS. EGGS \$1.50 PER 15.**

Eggs from my best pens, only high scored birds used. My birds are large and vigorous. Barred Rocks are barred to the skin. White Rocks and Leghorns that are snow white. No other breeder selling eggs from such fine stock at these prices. Fine White Rock and White Leghorn Cockerels, \$2.00 to \$3.00. Largest Fancy Poultry Farm in the West. Satisfaction guaranteed. Write at once.

JAS. C. HEATH, Imperial Poultry Farm, Valley Junction, Iowa.

—OUR—

## Wild Mallard Ducks

Were awarded First, Second and Third prizes at the Great St. Louis Show. We are the Pioneers in this industry and have stock that will please you. Our BARRED ROCKS bred for BEAUTY and UTILITY. A 24-page catalogue for a stamp. See photographs of our plant in January issue of Poultry Keeper. Please mention Poultry Keeper when writing. SUNNYSIDE POULTRY FARM, Coldbrook, Illinois.

**"The Best in the World"**

Not only from a fancy point of view has my claim of above been proven as to my White Plymouth Rocks, but also as a Utility fowl there is none to compare with them. The past show season has demonstrated the fact that in nearly every case and every show the Winning White Plymouth Rocks were direct from or bred from Fishel birds. Dear Reader, why ponder over the question what to buy when

**Fishel's White Plymouth Rocks.**

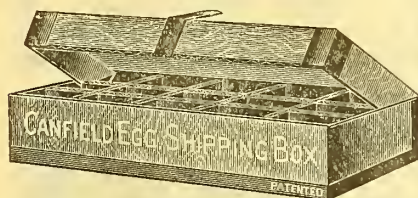
have proven themselves the Best, both in the Show Room and as a utility fowl. Take the Winners at Shows like CHICAGO, ST. LOUIS, ATLANTA, LOS ANGELES, INDIANAPOLIS, KANSAS CITY, NEW YORK STATE, GREAT CRYSTAL PALACE AND DAIRY SHOWS, ENGLAND, ETC., ETC., in nearly every case they were Fishel bred birds. I have yet for sale something like 2,000 CHOICE BIRDS, among the number several hundred CHOICE COCKERELS that will breed you winners. Enclose a 2-cent stamp for my 36 PAGE CATALOG. It tells all about the noted Fishel White Rocks.

25 BREEDING YARDS FOR 1904. EGGS \$5 PER 15.

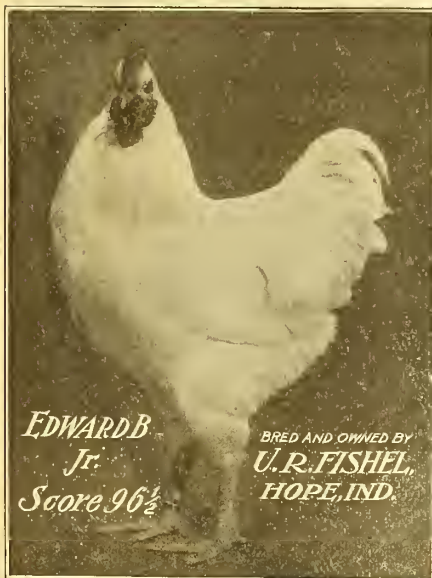
**U. R. FISHEL,**

Box K-2, HOPE, IND.

**—FROST PROOF.**



This box protects eggs from changes of temperature as well as breakage. Each is surrounded by four solid air tight walls and two layers of dead air cells. Steam pipes in cars cannot start development of the germs, neither will exposure chill them. Box seals. Can be packed in one minute. Made in four sizes. Sample, 15 egg size postpaid, 20 cents, weighs 9 oz., will support half a ton. Catalog Free. Mention P. K. CANFIELD COOP CO., 31 Maine St., Bath N.



EDWARD B. Jr. Score 96 1/2

BRED AND OWNED BY U. R. FISHEL, HOPE, IND.



(Continued from Page 469.)

scarcely nothing within this radius but poultry farms, homes of a contented and well-to-do people, a people cultured and refined, engaged almost exclusively in the production of "eggs for market." At this writing I have a letter stating that eggs are selling at Los Angeles for forty-five cents per dozen. At such prices the general average often reaches more than twenty-five cents for the year.

As practical fanciers you know that there is money in these farms selling the product at such prices, and when you consider that fowls are kept in lots of five hundred to five thousand as a common occurrence, you can figure for yourself the profits, for while it may cost a trifle more to keep fowls there, I often question even that, as the climate is so mild that the poultryman saves a great deal that here is costly to produce.

Twenty-five thousand dollars is a large sum to be distributed in a single week as an income from "hens," but this is frequently done there. Eighteen million eggs in four months mean an army of hens to produce them, but this is just what was done last season. Could this have been done by natural methods? Not at all; so is it not to be wondered at that the incubator and brooder have entered into this as such important factors. And I know of no other section where there is a better illustration of its success in successful poultry culture.

The pictures I give speak for themselves. There is a convincing lan-

guage in a picture that always tells its story. In this instance it shows suggestions that can well be studied by the poultryman. It is suggestive to what a future the great industry can be built. There is no danger of over-production and these same conditions, by suitable buildings and proper feeding, can be duplicated elsewhere. Here is the opportunity, now is the time to consider it. Diversified as the climate of California is, it offers an easier road to success there than here, but here we have the great markets and the entree to the foreign ports that are open to our production.

For twenty years I have heard the cry of over-production, but as W. D. Curtis, of the Curtis Newhall Advertising Agency of Los Angeles, puts it. Don't cry over-production say "advertise" for should conditions arise that may look like over-production, judicious advertising would dispose of the product. With poultry, as with other California products, its superiority would soon be stamped upon the markets of the world. Here is where all Mediterranean varieties reach their best form and feather, and I venture to say should some of our Minorca or Leghorn fanciers procure birds from there, show at Chicago or New York, they would create a sensation. A visit to Petaluma or other valleys of the coast will well repay anyone thinking of embarking in this business, for it is to come in touch with successful people along lines we are all interested in.

### S. C. BUFF LEGHORNS

Good Breeding Males \$3; females \$2. Entire flock for sale. Compelled to sell. Other business demands entire attention. Includes all my prize winners and choice breeding birds.

CHAS. M. CLIME, Terre Hill, Pa.

## Yourke's Rheumatic Combination

FREE



FREE

TO ALL.

This Remedy is the Greatest Rheumatic Cure ever placed on the market. Acts at once, pains stop almost instantly. It is nothing short of marvelous, words cannot express its wonderful curative powers. Hot Springs a thing of the past after using my combination. Shipped free, write today, send your name and address, without stamps or money.

Yourke Remedy Co.  
Box 622 Detroit, Mich.

# Chas. A. Cyphers



## New Incubator Company

Last month's announcement that I had started a new company for the manufacture of my improved incubators and brooders resulted in a shower of commendatory expressions from friends all over the United States. It is very gratifying to note the deep interest and friendly feeling toward my new business. I beg to assure all interested that my new incubators and brooders will satisfy the most critical. They will be known as

## Chas. A. Cyphers' Model Incubators and Brooders

Herewith is a photograph of my new factory building which contains forty thousand square feet of floor space, and will give some idea of my equipment. The wheels are now turning and my improved machines will be ready for delivery December 1st. Send in your name for both my advance circular and my catalog. Preliminary circular ready now. Catalog will be ready about January 10th. They will interest you. Both are free.

Chas. A. Cyphers Company

39-47 Henry St., Buffalo, N. Y.



# QUESTIONS & ANSWERS

(In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address, Editor Poultry Keeper, Quincy, Ill. Give name and address in full, and only initials will be used in our answer.—ED.)

### COLDS.

I have quite a flock of Plymouth Rocks, and I have a few that have started sneezing. Sounds like they had hiccough. Wish you would tell me what to do for them.  
F. J. C., Fairbault, Minn.

Place the fowls in a warm, dry coop where the sun can shine in freely. Put 15 grains of chlorate of potash in each pint of drinking water. Give a little chopped onion or garlic in the food.

### PARTRIDGE COCHINS.

Please publish an article on the merits of Partridge Cochins. What are they good for? I see very little about them.

Mrs. E. S. H., Garden City, Kan.

Partridge Cochins, while largely a fancier's fowl, have many utility qualities. They are excellent winter layers and largely used for "soft roasting chickens," of which they make the finest quality when fattened at six to eight months of age. They are also used largely for capons. High scoring specimens of this variety are quite difficult to breed.

### LEG WEAKNESS.

I have a fine Barred Plymouth Rock pullet afflicted with a peculiar disease. The symptoms are these: About a week ago I noticed her stagger sideways. In a few days she seemed unable to support her weight and would drop her "craw" on the ground and in her efforts to move would turn a complete somersault. She is now unable to walk at all and her head seems to twist around toward right wing. She eats sparingly and will sometimes sing when I lay her out in warm sunshine. Is this a disease? Is it contagious? What is the cure, if any? Please answer through P. K.  
C. E. N., Flat River, Mo.

Your pullet no doubt has leg weakness, caused by too rapid growth. Use ground bone freely in food and give a pill, three times a day, composed as follows: Sulphate of iron, one grain;

### HORSE-HIGH.

Many styles and heights, made of High Carbon Colled Spring Steel Wire, heavily galvanized. REGULATES ITSELF.

**BULL-STRONG**  
Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.

**CHICKEN-TIGHT**  
Fence, that will turn all kinds of large stock as well, is seldom found. We have it. Send for our Catalogue. It's free.

COILED SPRING FENCE CO.  
Box 222, Winchester, Indiana.

## Standard Poultry Food

**Your Hens Will Pay**

bigger profits if you give them a little help right now—I have the Poultry Food you've been looking for—a combination of vitalizing elements and most needed nutrition. It's the

### Standard Poultry Food

and it surely does make fowls thrive, and thrifty fowls pay—mix it with the feed.  
4 pound box 25c, 10 pound bag 50c. If your dealer hasn't it send your name to us at once for our great \$2.00 offer and agency proposition.

F. E. Sanborn, President.

**The F. E. Sanborn Company,**  
1505 Howard Street,  
Omaha, Neb.

Used and indorsed by Mrs. A. H. Hansel, Loup City, Neb. Leader in great Australian Laying Contest.

## WIRE NETTING BARGAINS

We have recently bought a round lot from one of the largest factories in the U. S. and name prices below the market in order to close out quickly. This is steel wire netting. Galvanized, new and saleable goods, but not perfectly bright, having been in warehouse some time. Offered subject to stock on hand when order is received. Can ship promptly. Put up in rolls of 150 ft. We do not sell less than full rolls.

| WIDTH   | MESH   | WIRE PER ROLL     | WIDTH   | MESH       | WIRE PER ROLL     |
|---------|--------|-------------------|---------|------------|-------------------|
| 12 inch | 2 inch | No. 19.....\$ .51 | 24 inch | 1 1/2 inch | No. 20.....\$1.22 |
| 18 "    | 2 "    | " 19......75      | 36 "    | 1 1/2 "    | " 20.....1.83     |
| 24 "    | 2 "    | " 19.....1.02     | 48 "    | 1 "        | " 20.....1.12     |
| 36 "    | 2 "    | " 19.....1.53     | 48 "    | 1 "        | " 20.....3.62     |
| 48 "    | 2 "    | " 19.....2.04     | 48 "    | 1 "        | " 19.....4.30     |

We have many other sizes also.

Farmers Nails, mixed, 100 lb. keg, \$1.60. List on request. Do you want our Large General Catalogue on Farm and Household Supplies, etc.?

Wholesale Supply House, Established 1874. A. J. CHILD & SON, 511 and 513 Main Street, St. Louis, Mo.

## INCUBATOR WALLS

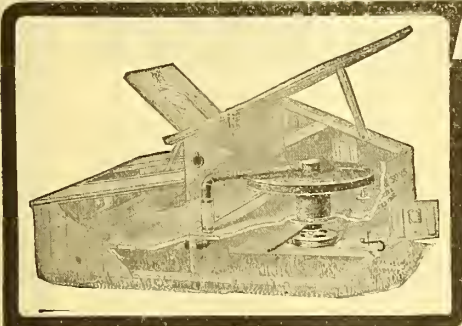
### MADE OF FEATHERS

The Feather Incubator is a high per cent hatcher. Like the hen and her nest it imitates nature by regulating its fresh air and moisture supply through the feathers. The

### FEATHER INCUBATOR

is unique yet successful. It will hatch strong, hearty chicks in any place where a hen can hatch them. No overheating—our double, scale-beam regulator keeps the heat at the right degree. Write for our new, free catalog and don't buy an incubator till you read it.

Zimmer Incubator Co., Dept. 1, Ft. Wayne, Ind.



## DON'T YOU WANT TO KNOW MORE ABOUT THIS BROODER?

SELF REGULATING, PERFECT VENTILATION, ABSOLUTELY CLEAN

If we could prove to you that the

# HUMPHREY PURE AIR BROODER

with its perfect system of ventilation and self-regulation of heat will raise more chicks than any other brooder, wouldn't you be glad to know more about it? That's exactly what it does—it is the only brooder made that gives a constant change of pure fresh air. Its principle of construction is simple and unique. It is strong and durable, built to last and can be kept as sweet and clean as your kitchen. You know that the average brooder is a death trap. The Humphrey is a life preserver and a growth promoter. Let us prove to you what it will do. Send for our free brooder book.

N. B. We are the manufacturers of the famous Humphrey Open Hopper Green Bone Cutter and the Humphrey Rapid Clover Cutter.

**SEND YOUR NAME TO HUMPHREY GLASS ST. FACTORY, JOLIET, ILL.**



strychnine, one-sixteenth grain; phosphate of lime, five grains; sulphate of quinine, one-half grain.

**FEEDING AND MATING BUFF ORPINGTONS—SWELLED HEAD.**

1.—Please state how much food and what kinds for best results should be fed per day to one dozen Buff Orpingtons?

2.—I have real dark Buff Orpington cockerels and pullets, also real light buff cockerels and pullets. How ought these be mated for best results in proper color?

3.—A neighbor of mine has a chicken queerly affected. It seems that the chicken's eyes will swell up as large as bird's eggs and look like a ball of pus. Between eye and beak large scabs form and the chicken invariably goes blind in the eye affected. Is it a disease that affects them? If so, what will cure it, and is it contagious?  
B. M. R., Lamoni, Ia.

1.—They should have about 3½ pounds total food per day. Fully one-half whole grain, which the fowls should be made to work for by throwing it in litter. A mash fed at night may constitute nearly half the ration, but if fed in the morning not over one-fourth. The mash should be a mixture of ground grains, bran, middlings, etc., having a high protein content, mixed with cut clover or alfalfa hay, cooked vegetables or something of this nature. About ten per cent of the ration should be some sort of meat product. Fresh cut green bone is the best, but a good grade of beef scraps answers very well.

2.—A medium dark cockerel to light pullets and vice versa.

3.—Swelled head usually starts from

**Gunster's Single Comb Black Minorcas Are Winners.**

My birds win at Springfield, Danville and Belleville, Ill., and St. Louis, Mo. If you are interested in Minorcas send for my 1904 circular and score records. Stock for sale. Egg orders booked now. Prices right. Satisfaction guaranteed. Please mention Poultry Keeper.

LEO F. GUNSTER, Box 118, Carterville, Ill.



**REX LICE KILLER**

is the most effective lice and mite destroyer because it is as carefully compounded as a medicine from ingredients of uniform power and quality. Sprinkled about the houses, nests and roosts **IT HELPS HENS LAY**. You know why. As necessary in winter because cold does not kill lice. Liquid Lice Killer is better than Powders and Rex is best of all. If other kinds have disappointed you try Rex.

Write for circulars and Free Sample.  
**REX STOCK FOOD CO. Dept. 51, Omaha, Neb.**  
*Rex Poultry Food is a natural egg producer. Try it.*

**1884-Barred Plymouth Rocks-1904**

Mine are bred for winter layers as well as show birds. Also choice Buff and Partridge Cochins. Beautiful Catalog free if you mention P. K. Sharpest Grit. 500 lbs., \$1.00.

O. E. SKINNER, COLUMBUS, KAS.

**SILVER PENCILED WYANDOTTES**

Eggs from choice matings of Prize Winners, \$5 per sitting of 15 eggs. Eggs from pens headed by Prize winning Cockerels, \$3 per sitting of 15 eggs, 2 sittings, \$5. Choice Trios and Cockerels for sale.

**Rhode Island Reds, Over 100 Prizes Won This Season.**

Eggs from Prize matings, \$2 per sitting of 15 eggs; 3 sittings, \$5; \$10 per hundred. Eggs from Farm range utility stock, \$1 per sitting; \$5 per hundred; 300 or more eggs ordered at one time, \$4 per hundred. R. I. Red Standard free if you mention Poultry Keeper. Stock for sale.

T. N. SMITH Attleboro, Mass., Box No. 186.

**...Wyckoff's S. C. White Leghorns..**

Acknowledged everywhere **THE WORLD'S GREATEST LAYING STRAIN**. None better in **STANDARD QUALITIES**. By our 30 years of continuous breeding and selection we have placed them **UNQUESTIONABLY IN THE LEAD** as the most profitable strain of poultry in America, and **YOU ASSURE YOUR SUCCESS** by using them as your foundation stock. Choice stock for sale. **EGGS FOR HATCHING** in any quantity from the choicest matings at \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Send for Catalogue and let us know your wants. Free if you mention Poultry Keeper.  
Address, **WYCKOFF'S, Aurora, Cayuga County, New York.**



**Don't Split it Up—  
Put on an**

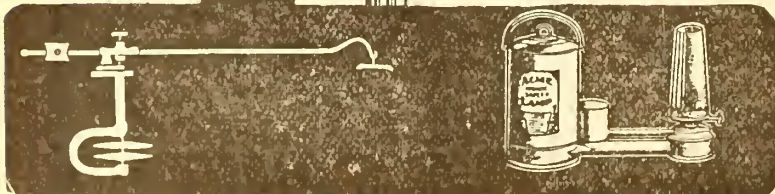
Acme Regulator and Acme Lamp. They have resurrected many incubators and brooders which had been consigned to the wood-pile as worthless. Ninety per cent of hatching troubles are regulator and lamp faults. The trouble is, too many cheap, unreliable devices for these purposes are put on to keep cost of machine down with the result that after one season's use they give out.

**Acme Regulators**

Compound—Patented

are made to work perfectly and guaranteed for ten years. That's proof enough they are worth ten times as much as the other kind, though they cost but a little more. They are the simplest, most accurate and durable regulators ever invented and if they fail to fulfill every claim made for them, your money will be refunded. Acme Lamps are automatic—they tend themselves—save bother—save loss against fire or chill—save disappointment. Send for our descriptive catalogue, it tells many more good points about Acme Goods—all kinds of supplies and fixtures, plans for building your own Incubators and Brooders, etc. It is free.

**The H. M. Sheer Company**  
Box 2, Quincy, Ill.





a draught of air striking the head at night. Fowls that are predisposed to roup are more liable to this trouble than perfectly healthy birds. It may develop into roup, in which state it is contagious. Mix one part spirits of turpentine with four parts sweet oil and anoint head, face and comb once a day. Give a pill of 1/2 grain quinine and 1/2 grain bromide of potash twice a day and add a teaspoonful of chlorate of potash to each quart of drinking water.

**INFLAMMATION OF THE OVIDUCT—HOUSE—NEW BLOOD.**

1.—I have a sick hen. I found her one morning lying in a corner with a soft shelled egg hanging to her rectum and she had the appearance of a hen having diarrhoea. I brought her in where it was warm and she revived, but when I take her out to her hen house again she becomes bad, and not able to get on the roost. I lost some hens last winter and summer with the same disease without the soft-shelled egg.  
I am going to build a house in the spring 12x12. How high should I build it in front and back, and how many fowls should I keep in that sized house?  
3.—How long should I keep a rooster without changing? I got a cockerel and two pullets of Thompson's Ringlets last March. When will I need to change roosters and get new blood?

Mrs. M. McC., Oxbow, N. W. T.

1.—Your hen suffered from inflammation of the oviduct. Treatment of this disease is very unsatisfactory. It consists of injecting a weak solution of tannic acid (one part to 100) to which a small quantity of chlorate of

potash (2 or 3 parts to 100) has been added. The fluid should be made warm before using and should be injected carefully and in small quantities with a rubber syringe.

2.—A house twelve feet wide would have to be 8 feet high in front and 8 1/2 in rear to give much slant to the roof. Twenty-five fowls is enough for a house of this size.

3.—If you do not wish to inbreed it will be necessary to get a new male every year. If you line breed mate

One Coupon on each order  
**GOOD FOR \$1.00**  
on orders for eggs prior to April.  
**Coupon C**  
Cut this Out

Single Comb  
**Buff Orpingtons**  
Rose Comb  
**Buff Leghorn**  
As good as can be produced. Our circular tells more about them—FREE. Birds' eggs and chicks.  
A. E. Green Co., Morgan Park, Ill.



**Winners Layers.**

My Leghorns stand at the head. 242 eggs to a pullet Rose C Browns.  
**ROSE COMB BROWN LEGHORNS:**  
27 Firsts, N. York.  
4 Firsts, 1903, N. Y.  
**S. C. BROWN LEGHORNS:**  
1st ck; 2nd and 4th hen; N. York.  
28 other first and 3rds.  
**R. & S. C. WHITE LEGHORNS:**  
1st hen, N. York and Philadelphia.  
3 firsts, Washington, D. C.  
**WHITE WYANDOTTES (Duston):**  
Five Firsts, one show, 9 breeders competing.  
None better. Stay White, Large Brown Eggs  
**BARRED ROCKS (Bradley) Many wins**  
Scored to 93 1/2 for ckl. and pullet in show.  
**BUFF ROCKS. Sold Buff Males, Four 1st.**  
Eggs \$2 for 15; \$5 for 45; 100 for \$10.  
**CATALOGUE FREE.**  
Collie Pups, Fine Ones.  
W. W. KULP,  
Box 30. Pottstown, Pa.

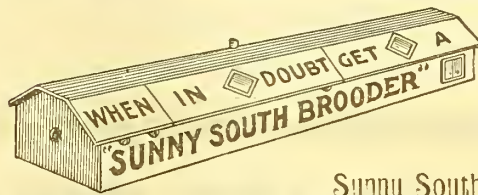
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**Incubators**

It gives you a correct idea in raising Chickens..... Illustrated by Photographs

This Book is INTERESTING, FASCINATING

AMERICAN BROODER CO., BOX 8, RACINE, WIS.



**The Brooder With Advantages**

By mentioning this paper will send catalogue telling why.

Sunny South Brooder Co., High Point, N. G.

**CHAS. F. THOMPSON & Co.**  
LYNNFIELD CENTER, MASS.

**COCKERELS FOR SALE**—Rhode I. Reds, Barred Rocks, White Wyandottes, Rose White Leghorns Largest Breeders of Reds in United States. EGGS \$1 A SITTING. \$6 PER 100. PRIZE WINNERS \$2 A SITTING. \$10 PER 100. Per cent of fertility guaranteed. Send postal at once for our 24-page catalogue. Latest official standard of REDS FREE if requested. Strong healthy, vigorous birds, heavy layers of large brown eggs. If you want cockerels to win prizes write us for prices; we have them suitable to win at any show. Call and inspect our stock; visitors always welcome.

**THE DANDY BROODER.**



Beats all the old hens and all the other brooders. It is the simplest, surest, suggest, safest and most economical brooding apparatus. Only \$7 and up. Smallest size 2 1/2 x 4 1/2 feet. Sectional Brooders \$5 per section.

**THE DANDY EGG-TRAP NEST.**

The one you have been looking for. Traps the egg only and registers and releases the hen. The simplest yet. Make them yourself for 15c to 25c per nest. Complete plans \$1.

**RAISE 'EM IN A DANDY.**

T & DANDY DOOR MANIPULATOR  
Opens all your pens at sun up and closes them at sun down. No wires or batteries to get out of order. Very simple \$2.50. Complete plans for making, yourself \$1.

**THE DANDY BURGLAR AND FIRE ALARM**

Will positively protect your poultry house, cutting house wire does not effect alarm. Price \$5 and up. It will pay you to investigate the Dandy Specialties, also to get the 1904 Dandy Brooder, Egg Trap Nest and Poultry Books, sent free if you mention Poultry Keeper.

**FOR DANDY BROODER.**

DANVILLE, ILLINOIS-

**A Thousand Dollar Egg**

And The Hen That Laid It

**How Mandy Lifted A Mortgage**

A book of money making poultry points. From cover to cover its pages contain information that will put dollars into the pocket of the poultry keeper. It tells just the things every poultryman is anxious to know more about, not from a theoretical standpoint, but from the common sense, practical experience of successful poultry raisers. Contains page after page of helpful hints on

**How to Make Poultry Pay**

better. Tells what to do when disease gets into your flock, when lice get troublesome, when hens don't lay, and how Mandy saved the farm from the sheriff's hammer even when all hope was gone. It also contains a calendar and egg record for one year, making a useful, valuable book worth keeping at hand. It tells all about Lee's Poultry Remedies—the best in the land. Sent free if you mention this paper.

Geo. H. Lee Co., Omaha, Neb.



the male you now have with the pullets raised from this trio, but do not mate brothers and sisters.

#### HOW MANY FOWLS?

How many fowls should be kept in a pen 8 feet by 8 feet, and how many feet of roost do they need?

P. W. B., Chicago, Ill.

Ten or twelve.

#### PRESERVING EGGS.

Please state in P. K. how long I must keep eggs in water glass solution in order to preserve them.

R. B. Y., Good Ground, N. Y.

If kept in a ten per cent solution until sold. Some coat them over with the thick liquid and lay them away on trays, but they will not keep as well this way.

#### BROWN LEGHORNS — CROOKED BEAK—MATING—POLISH.

1.—I bought a pair of Leghorns last winter at a poultry show from a well known breeder. I succeeded in raising about two dozen young birds this summer. Some of the pullets have a brown breast and are brown, while some of them are darker. What I want to know is this, which should I breed from, the brown or the darker ones?

2.—I have a Hamburg pullet whose bill is crooked and the upper part bends over the lower. Otherwise she is a fine bird. Would you advise using this bird as a breeder?

3.—What should be the dimensions for a poultry house to hold 50 birds.

4.—About how many hens should be allowed to one cock to insure fertility in eggs for hatching purposes?

5.—What are the characteristics of the Polish class?

A. F. N., Hartford, S. D.

1.—Those with the light breasts—rich salmon, shading off lighter under



IT SCATTERS THE CORN.

**Acme Corn Sheller**—Most convenient and efficient little sheller ever made. Strong, light, compact. Just the thing for shelling corn for poultry, seed corn, etc. Shells from pop corn to largest ear common corn. Price, prepaid 50c. For 80c we will send sheller and year's subscription to Poultry Keeper. Address, Poultry Keeper Publishing Co., Quincy, Ill.

# FISHEL'S WHITE WYANDOTTES

## STILL LEAD THE WORLD.

SIMPLY WONDERFUL HOW THEY WIN THE PRIZES.

At the Great A. P. A. Show held at Indianapolis, 1903, 1-2-3, Cocks; 1st Hen; 1-3rd Cockerels; 1-2-3rd Pullets; 1st-2nd Pen. Then at the Great St. Louis Show just after we won 1-2nd Cockerels; 1-2nd Pullets, 2nd Cock; 2nd Hen, and 1-2 Breeding Pens. Then at San Antonio, Texas 1-2nd Cocks; 1-2nd Hens. Does not that prove what we claim—

## —THE WORLD'S BEST—

200 EXTRA GOOD BREEDERS YET FOR SALE at prices to move them. Fine Cockerels fit to head a breeding yard for \$5 each.

**NOW FOR THE EGGS**—We will have 14 yards mated for the egg trade, so you see we will be in the best shape to take care of all orders with all fresh eggs and from strictly first class breeders. Send 2-cent stamp for our new 1904 catalog telling you all.

Remember we are Headquarters and if favored with your order will serve you right.

# J. C. FISHEL & SON,

Box K., HOPE, INDIANA.



the body—are the color of the exhibition female. In order to secure exhibition males you will have to breed from some of the darker females, but they will not produce exhibition pullets. This is the reason the majority of breeders of Brown Leghorns practice double mating.

2.—We do not believe the deformity will reproduce itself. It depends much on how it was caused—whether hereditary or from accident. If the latter there will be no danger.

3.—10x32 is a good size; divided into two pens each 10x16, with 25 birds in a flock.

4.—Ten to fifteen for the heavier breeds and fifteen to twenty for the light.

5.—A bird of medium size, with full round breast carried well forward. The head is surmounted by a crest and the comb is what is termed a "leaf comb." They are considered a fancy fowl and are bred principally for the show room and for pleasure, although they are fairly good layers of medium sized eggs and non-sitters.

**VALUE OF POPCORN.**

Will you tell me whether popcorn is as good to feed to hens or pullets for laying as the other kind of corn.

J. F. H.

Popcorn contains nearly one per cent more protein than either the flint or dent varieties. It is good for an occasional feed but should not be served in large quantities nor oftener than every other day.

**FERTILITY — MINORCAS — BUFF PLYMOUTH ROCKS.**

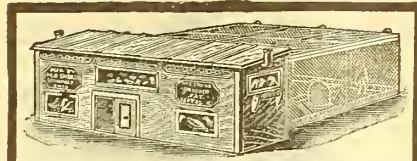
1.—My hens and cocks are running in separate lots; will you please tell me how long after penning them together it will be before the eggs are fertile?

2.—Do White Minorcas have yellow or pinkish legs?

3.—Some of my Buff Plymouth Rocks have black in tail and end of wing feathers, while others have white on breast and top of wing; which would you advise me to keep for breeders?

C. E. E., Charleston, Ill.

- 1.—Ten days to two weeks.
- 2.—White or pinkish white.



**THE SHAUB COMPARTMENT BROODERS**

have stood every test of time and tempest. Equally good for out or indoor use. Every year the sale of them increases and they always give satisfaction. They furnish natural conditions for the chicks and are constructed to give best results. Ten years of success have made the Shaub Brooder the leader of all. The machine is right and the price is right. Send for free booklet describing it.  
**M. O. Sherer, Box 102, Louisville, O.**



**\$1000 PER ACRE**

**Hammond's Sensation Potato**

Produced \$1000.00 per acre last year. The EARLIEST POTATO IN THE WORLD. Most delicious in quality, heaviest yielder known. Ready for market in six weeks. Elegant 100-page Bargain Seed Catalog Free.  
**HARRY N. HAMMOND SEED CO., LTD.,**  
 Box 71 Bay City, Mich.

**SWAN'S**  
 Extra Heavy  
**Felt Roofing**

In use by thousands of poultrymen.  
 For samples, circulars and prices  
 f. o. b. Chicago or New York, address

**THE A. F. SWAN COMPANY,**  
 116 Nassau St., New York.

**BEAUTIFUL PICTURE**

In Colors FREE with a Sample Copy of Fancier's Gazette, the most instructive poultry paper published. It teaches you how to make money out of the greatest industry in the world. Also learn about our \$15,000 World's Fair prize offer. Send us your name on a postal card.

**Fancier's Gazette Co.**  
 622 E. Washington St. Indianapolis, Ind.

**ROSES! ROSES!**

We are headquarters for strong, stocky rose bushes, grown on their own roots, growing many thousands for wholesale trade, as well as for our mail order business. We do not grow cheap plants at any price, but we do sell good plants cheap.

**Roses Postpaid  
 5c Each**

Our catalogue will be sent free to those who mention Poultry Keeper, giving prices of all best kinds (except new varieties) at 5c each. Your choice of variety, you do not have to buy a collection to get the kind you want at this price.

Catalogue also gives full description and price of all Cannas, Carnations, Begonias, Chrysanthemums, Dahlias, and other greenhouse and bedding plants. Prices from 5 cents up, and also many bargain collections that will surprise you.

**Alice Roosevelt**

FREE. Cut this out and send it with your first order amounting to \$1.00 or more, and I will send you this grand new rose free. It is a perfectly hardy, strong growing, ever-blooming rose of a brilliant red color and has never been offered for sale before.

Special trial collection. In order to induce everyone to try my plants and see what they are, I will send one each of the following 12 plants in all, postpaid, for only 50 cents: Roses—Ivory, Helen Gould, Burbank, Crimson Rambler, Clothild Souper, General Jacqueminot, Climbing Meteor, Virginia R. Cox and Austria Camia; Asparagus Sprengeri, Begonia Argentea Gutata and Red Cactus Dahlia.

Address, W. R. GRAY, Oakton, Virginia...  
 Fairfax County.

(Mention P. K. when writing.)

**THE EARLY BIRD**

Catches the worm. We have a special offer and it's a hot one. Send a postal and we'll tell you all about it. When it comes to price and quality we don't take a back seat for anybody.

**BURR INCUBATORS**

and Brooders are supplied with the most accurate regulator that has yet been discovered. There is no night watching. It keeps the temperature exactly right. Ten minutes a day does all the work. All latest improvements. California Redwood case, copper tank, 30 days' trial and your money back if you say so. Write for free catalogue. It's a beauty.

**BURR INCUBATOR CO, Box K, Omaha, Neb.**



3.—Other things being equal we should prefer the black to white.

**REGULATING THE SEX.**

I should like to raise a larger per cent of pullets than roosters from my early hatches. Is there any way to regulate this matter? Has the shape of the egg anything to do with it?

A Subscriber, Utah.

There is no way known of regulating the sex. Many theories have been advanced but none have been fully demonstrated.

**PLASTERED POULTRY HOUSE FEED FOR YOUNG TURKEYS.**

1.—Would it be safe to keep chickens in a newly plastered poultry house, provided it is warm and well ventilated?

2.—What is the best feed for young turkeys?  
C. A., Whitehall, Wis

1.—If the house is damp they will be very likely to contract colds.

2.—There is no "best feed." A good first feed is stale bread or cracker crumbs soaked in milk and squeezed dry. After the first two weeks add rolled oats, oatmeal and cracked wheat, all dry, and clabbered milk scalded and drained in a colander. Add chopped onions to the bread or milk twice a week.

**FERTILITY QUESTIONS.**

How long will hens have to be kept away from the cocks before the eggs will be infertile, and how long with the hens before the eggs will be fertile.

R. McK., Blue Rapids, Kan.

It varies with different hens, and under different conditions. Two weeks in either case is a safe calculation.

**STARTING QUESTIONS.**

1.—If you were starting in the poultry business would you buy the best eggs for hatching that could be got?

2.—Would you get from prize winning stock to start with or any pure breed?

3.—How many chickens can you keep on a lot 100 feet square?

4.—Would you hatch eggs worth \$5.00 .. dozen in an incubator or under a hen?  
H. P. W., Chicago, Ill.

1.—It would depend on what we wish the stock for. If we were going into the fancy poultry business no stock would be too good.

2.—The answer to No. 1 applies alike to this question.

3.—Naturally 100; by the intensive system, 300.

4.—That would depend on the faith we had in our ability to operate, and also somewhat on the faith we had in our sitting hen. If only one sitting is to be hatched it will be more economical to use a hen.

**SUBSTITUTE FOR GREEN BONE.**

What is the best substitute for fresh green bone? Is granulated bone, or raw bone meal, preferable to beef scrap for this purpose?

Mrs. H. C. M., Buchanan, Mich.

A good quality of beef scrap is the best substitute for fresh cut bone. A little raw bone meal, if pure, will help supply mineral matter.

**TO HEAD THE BREEDING PEN.**

How old should a Plymouth Rock cockerel be to head a breeding pen?  
W. W. S., Canon City, Colo.

About ten months, but it depends much on how well he is developed. He should have good size, being fully grown.



**FOR HARDY CHICKS**

**HARDING'S**  
**Baby Chick Food**

makes baby chicks hardy. Makes vigorous, rapid growth, insuring chick life, so uncertain at this stage, that it more than saves its cost in saving life. It adds profit where loss is the usual result. One trial test will prove its worth. It saves worry and makes poultry raising pleasurable—profitable. 5 lb. cartons, 30c; 10 lb. bags, 50c; 50 lb. bags, \$1.50; 100 lb. bags, \$2.50, f. o. b. Binghamton, N. Y. Give your chicks a chance for life by giving them food that furnishes life—Harding's Baby Chick Food. Send for free catalogue containing good points for making poultry pay.

**Geo. L. Harding, Box 111, Binghamton, N. Y. U. S. A.**



**FEED HARDING'S FOOD**

**OUR BIG \$4.15 BROODER OFFER**

**THE NEW IDEA BROODER**



Is the best, cleanest, has new system of ventilation, largest chick capacity, and costs less money than any first-class brooder on the market. Built for both INDOOR and OUT, self-regulating, perfectly safe and comes nearer filling the duties of

**The Mother Hen**  
Than any other brooder on the market. No steps for chicks to climb, double walls, hot water heating system and many other good points not found in other brooders. If you are looking for a brooder you can't help but be interested in our

**Big \$4.15 Brooder Offer**  
which is thoroughly described in our new poultry book and catalogue entitled:  
"How to make and save money with incubators and brooders"

Gentlemen: Replying to your favor of the 13th, I take pleasure in stating that the brooder which I built according to the plans and fixtures bought of you has been entirely satisfactory and have had better results with it than with any I have heretofore used.

Yours truly, James J. Hanna,  
Care Hanna & Leonard, Galveston, Tex.

filled with valuable information on brooders, care of young chicks, etc. We want you to write for it.  
It costs you nothing and we are certain the information it contains will save you many dollars. WRITE TODAY and enclose 2c in stamps for postage.  
Address, CHANNON, SNOW & CO.,  
Box D, Quincy, Illinois.

Galveston, Tex., Feb. 21, 1903.  
Messrs. Channon, Snow & Co., Quincy, Ill.

**200-Egg Incubator for \$12.80**

The simplicity of the Stahl incubators created a demand that forced production to such great proportions it is now possible to offer a first-class 200-egg incubator for \$12.80. This new incubator is an enlargement of the famous

**WOODEN HEN**

recognized the most perfect small hatcher. This new incubator is thoroughly well made; is a marvel of simplicity, and so perfect in its working that it hatches every fertile egg. Write for anything you want to know about incubators. Send for the new free illustrated catalog with 14 colored views.

**GEO. H. STAHL, Quincy, Ill.**





**HOW TO FEED.**

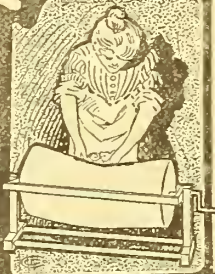
I would like to have your advice in regard to feeding. I have S. L. Wyandottes and S. C. W. Leghorns. Would a mash composed of wheat bran, corn meal, cut clover, and cotton seed meal be of any value in egg feeding? If so, what proportions of each would you advise and what quantity by measure to a flock of fifty? We cannot get meat, meal and scraps as the freight makes shipment of any thing of that character prohibitory. I can get corn, whole or cracked wheat and oats.

Now do you think that I could get favorable results with the feed mentioned and what manner of feeding same would you advise?

P. S. D., Texarkana, Texas.

We think fair results can be obtained with the feeds, but there is nothing that will take the place of animal food. We will first mix the whole grain, which is to be fed in deep litter, in the morning. We will take one bushel of cracked corn, two bushels of wheat and four bushels of oats. This gives us a ration with a nutritive ratio of 1 to 7.4 digestible nutrients. Of this mixed grain feed three quarts and a pint, so scattered that it will require nearly all day for the fowls to find it. We will now compound our mash mixture, ten pounds of which is to be fed about an hour before the fowls go to roost. We cannot give this in measure as the ingredients vary so, but by weighing it once and then measuring you can calculate near enough what the quantity should be. We take cottonseed meal, 15 lbs.; corn meal, 20 lbs.; wheat bran, 35 lbs.; cut clover, 30 lbs. This gives a ration with a ratio of 1 to 5.6, and as this is nearer what we want we feed more mash than whole

## 12 Turns Kills All The Lice

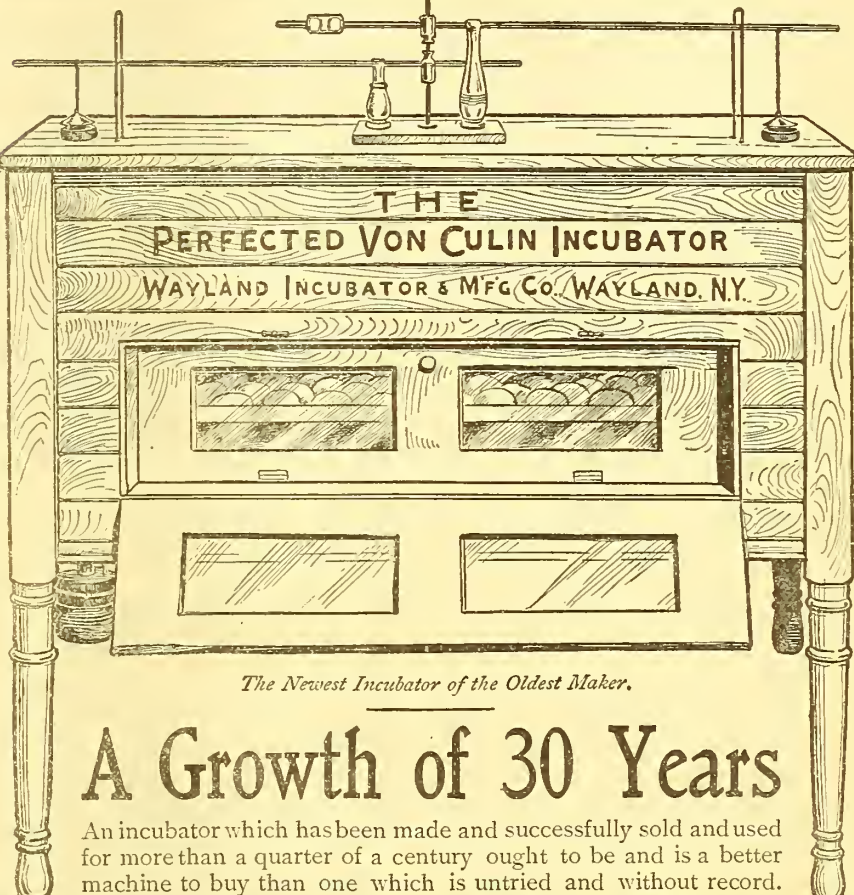


An easy way to get rid of lice—easy on the fowls—easy on the owner. Simply sift lice powder into the machine, put in a few hens, turn the crank slowly a dozen times, let them out and see the dead lice fall off their bodies.

### Lightning Lice Killing Machine

wastes no powder, doesn't choke or harm fowls, can't break their feathers and makes fowls contented, fat and lively. That means more eggs and sweeter flesh. Thoroughly cleans 100 hens or 300 chicks in 60 minutes. Handles any fowl from smallest chick to largest turkey. It puts the powder next to the skin and makes its effect instantaneous—quick as lightning. Illustrated catalog with full explanation, free.

**CHARLES SCHILD COMPANY, IONIA, MICHIGAN**



**THE PERFECTED VON CULIN INCUBATOR**  
WAYLAND INCUBATOR & MFG. CO. WAYLAND, N.Y.

*The Newest Incubator of the Oldest Maker.*

## A Growth of 30 Years

An incubator which has been made and successfully sold and used for more than a quarter of a century ought to be and is a better machine to buy than one which is untried and without record.

## The Perfected Von Culin

is the most perfect Incubator on the market. Its inventor, Mr. C. Von Culin, began making incubators in 1873 and has been at it ever since. Don't you think he must know more about incubators than those who have not had his experience?

Let others experiment. Be on the safe side; buy a Von Culin. They are no experiment; they are **perfected**.

Heaviest double packed walls of any incubator. Kiln dried lumber. Largest heating flues. Metal safety lamp. Best and most sensitive Regulator. Tested Thermometer and an Egg Tester Free.

This machine only uses about  $\frac{1}{3}$  as much oil as others and will give you 20 per cent better hatches. It requires very much less care and attention than others. Figure out for yourself what this means not only for one season but during the life time of the machine. Why not get the **best** and be satisfied. Our **"Boiled Down"** Catalogue tells in a simple, clear way and in few words what you want to know. We send it free if you write.

**The Price?** It will make it easy for you to buy. Write now.

**Wayland Incubator & Mfg. Co. Box 52, Wayland, N. Y.**

Sole Makers of Von Culin Incubators and Brooders

## Factory Price

Direct to You

We are the only general merchandise house which owns, controls and directly manages a vehicle factory. We build our vehicles from the ground up and know what's under the paint. We add but one small profit to the cost of material and labor, hence our customers are getting a better made job in a finer finish and at a lower price than can possibly be secured elsewhere.

**\$19.80**

"LEADER" Road Wagon—imitation leather trimmed; carpet, wrench and shafts; just as illustrated. Write for further description.



**\$25.50**



"CHALLENGE" Buggy—24 in. body, cloth trimmed; top, back and side curtains, storm apron, carpet and shafts. Write for details.

We also have better grades up to the very best and most stylish that can possibly be put together.

VEHICLE CATALOGUE FREE. Send for it today. It will give particulars about the above work. It also illustrates and describes the newest and best line of Runabouts, Stanhopes, Buggies, Phaetons, Surreys, Carriages, Carts, Spring Wagons, etc., ever quoted direct to the buyer. It explains the difference between good and unreliable work—between the hand-painted and the dipped buggy—and also explains our Guarantee of Satisfaction and

**30 Days' Trial Offer.**

Send a postal today for our Vehicle Cat. No. E1.  
**Montgomery Ward & Co.**  
Chicago

A special circular quoting our entire line of Sleighs, Sleds, etc., will be sent at the same time, if you request it.



grain. This is the reason we advise feeding the mash at night.

**DUE TO PARASITES.**

One of my hens had a peculiar white place on her comb, which looked like little insect eggs, but could not be scraped off. I applied the old remedy of sulphur and lard liberally, and I think there was a few drops of carbolic acid in the box. The comb seems to be natural now. Will you kindly let me know through the columns of Poultry Keeper what was the matter.

Mrs. J. G. H., Oxford, Miss.

The spot probably caused by either animal or vegetable parasites—Protozoa, or the parasite of favus, known as Achorium schonleinii.

**HOW MUCH COPPERAS.**

In the October issue copperas is spoken of as a tonic. How large a piece should go into a gallon of water, would be appreciated by many readers I think.

K. A. M., Stanford, N. Y.

A safe way to administer copperas is to dissolve one-half pound in a gallon of water and of this solution give a tablespoonful in each quart of water.

**LAWN CLIPPINGS — SCRATCHING MATERIAL—MATING—PICKING.**

1—Will you kindly inform me through P. K. if lawn clippings (mostly grass) with some white clover are good to feed in the mash in the winter, providing the clippings have been carefully cured in the shade? I have several hundred pounds I would like to use if it is good.

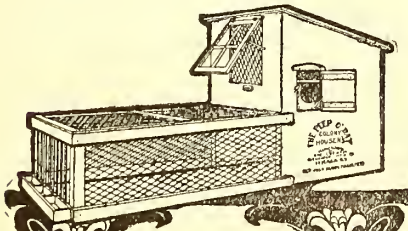
2—My scratching shed has no floor. How much litter (hay, fodder, etc.) should I use for scratching material?

3—Will a Barred Rock cockerel, if a little darker than standard, necessarily throw dark cockerels when bred to correct colored pullets? My best shaped and sized cockerel (6½ lbs at five and a half months) is a trifle dark about the hackles.

4—Can some one give me a formula for making an easy job of picking a fowl either wet or dry picked.

D. B. E., Indiana, Pa.

1—Lawn clippings are good but con-



**Peep-O'-Day**  
Coops and Colony Houses

are recommended by the largest and most successful poultrymen. We manufacture these houses in several styles and sizes. They are manufactured at the Cornell works in the Cornell way; built of one-inch white pine, free from black knots and shake; painted two coats of linseed oil and lead paint. Illustration shows Portable House No. 5, with run, 5 ft. square, 5 ft. high; run 10 ft. by 4 ft., 4 feet of the run being under the house, protected from the sun and storms.

Boston, Mass.  
Gentlemen: I have given your No. 6 Poultry House a thorough trial, both winter and summer, and can state that it has given me the best of satisfaction. For price and compactness I think they have no equal. Wishing you success, I remain  
Yours truly,  
ELMER R. B. CHAPMAN, Architect.  
3 Hamilton Place.

Price Complete, \$16.50  
Cornell Incubator Mfg. Co.  
Bc. 11 Ithaca, N. Y.

**90 Days' Trial**

We sell more reliable merchandise by mail than any house in the world. Volume of sales regulates prices. No firm can underlead us on reliable goods; we refuse to handle the other kind.

Our Oakland Machine 825



Our Oakland Machine at \$8.25 is warranted for 5 years and is the best machine on the market at this price.

At \$12.75 our Amazon is as good as the regular \$20 kind; is beyond comparison with other machines at this price. 1275



For 14.50

our Brunswick Seven Drawer, High Arm, Ball Bearing, Drop Head Machine is a beauty, one that will do all kinds of work and can be depended upon. Price is much lower than any other firm asks for equal quality. Mounted on handsome Automatic Drop Desk Quartered Oak Cabinet like picture, only 1695



Free Catalogue of Sewing Machines containing our 90 days' free trial offer, sent on request. Write for it today.  
**MONTGOMERY WARD & CO.**  
CHICAGO

Get A  
**DANDY**  
GREEN BONE CUTTER  
and get dandy satisfaction in every way. Try it before you buy it for 15 days. If not satisfactory we'll take it back.  
Stratton Mfg. Co., Box 43 Erie, Pa.


30  
**Days Free Trial**

Don't be caught by a promise to give your money back. Try your machine and then buy if it suits. We claim, and ask you to prove in the 30 days, that the surest hatcher in the world, the easiest to handle, the most perfectly automatic in all workings, is the

**Badger Incubator.**

You don't have to be an expert to run it and get results. You'll say that if you try it. Start in by asking us to send you our Mammoth 100 Page Catalogue. It gives reasons we can't be here, so we mail it free. If you would improve your poultry strains ask about our Forty Varieties of High Bred Fowls, Fancy turkeys, geese, ducks, chickens.

**J. R. Brabazon Jr. & Co.,**  
Box 108, Delavan Wis.





**IRON AGE IMPLEMENTS**  
are better than ever.

Improved Robbins Potato Planter.

Two tools you need now to make this year's profits greater. Write for the new Iron Age Book, showing the full line. Full of ways to save work. FREE.

**BATEMAN MFG. CO.**  
Box 25, Granloch, N. J.

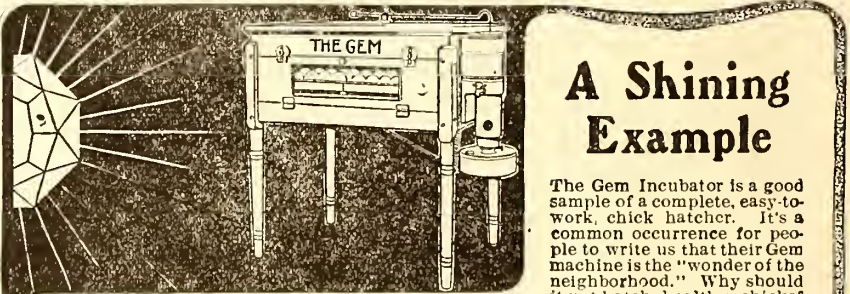
**A Shining Example**

The Gem Incubator is a good sample of a complete, easy-to-work, chick hatcher. It's a common occurrence for people to write us that their Gem machine is the "wonder of the neighborhood." Why should it not hatch healthy chicks?

**Gem Incubators and Brooders**

are built to imitate natural conditions. The egg chamber develops just the right temperature, moisture conditions and ventilation to start every germ into active growth. It's solid-made case assures the eggs a freedom from outside changes. The regulator needs little attention, holding the heat just where needed. Best of all, the Gem Incubator costs less than most other machines—yet does the same work. This means less investment for you and you get the same profit as though you paid 10 to 25 per cent more. We're ready to prove these claims by our free catalog. Write for it. Now.

**The Gem Incubator Company, Drawer D Dayton, Ohio.**





tain as much protein as all clover.

2.—It depends on how heavy your scratching material is. Of straw we use about a foot, as it is thrown in loose.

3.—The cockerels are not as apt to come too dark as the pullets. Such a bird would be apt to produce "smutty" colored pullets.

4.—We do not believe there is any "easy way" of picking a chicken. It is all work from start to finish, and if the chicken is to be picked dry, it must be lively work.

**ROOSTERS WILL ROOST.**

I have understood that roosters should not roost, so fitted up a pen for those I am fattening, without roosts, but have in it a box filled with dirt. Every night all get on to the edges of the box that there is room for. I have another rooster in another pen which always gets on to the roosts with the hens. Have another pen with small pullets and roosters and they all get on to the roosts. Will you kindly advise if I am misinformed regarding the matter.

L. A. K., Dover, N. H.

It is generally desirable to have cockerels roost when two or three months old. If you desire to prevent them place them in a coop having no roosts, the floor of which is well bedded with straw or hay.

**AN "HONEST INJUN" INCUBATOR.**

With this head line the Hiawatha Incubator made at Hiawatha, Kans. makes its announcement to P. K. readers this season. The phrase seems most happily chosen, for we believe this machine is, as its makers claim, most thoroughly

built in every way with superior fittings. While it is one of the later claimants for popular favor, we see no reason why a new concern, which is backed by capable men, as this concern is; men who have made a life study of incubation should not turn out as good a machine as can be made. We shall be glad to have every reader who contemplates purchasing an incubator this season, write to the manufacturers for catalogue and prices. See ad on page 501.

**FRUITFUL TREES**



Health, hardy, vigorous trees, finest varieties; honest values. Apples, 50¢; Peach, 50¢; Concord Grapes, \$20 per 1000; Hamber Raisin, 50¢; Black Locust and Russian Mulberry, \$1.40 per 1000. Freight prepaid. Catalogue free.

Gage County Nurseries  
Box 613 Beatrice, Neb.


**450,000 TREES**

200 varieties. Also Grapes, Small Fruits etc. Best rooted stock. Genuine, cheap. 2 sample cuttings mailed for 10c. Desc. price list free. Lewis Roesch, Fredonia, N. Y.

**HEALTHY TREES** Free from disease. Honest in quality. Grafted Apples, 50¢; Budded Peaches, 50¢; Budded Cherries, 20¢; good varieties. Concord Grapes, \$3 per 100. 1000 Ash \$1.20. B. and H. Locust, Rus. Mulberry, &c. Low price. We pay freight. Catalog free. Calbraith Nurseries, Box 78 Fairbury, Neb.

**EVERGREENS**

Hardy sorts, Nursery grown, for wind-breaks, ornament and hedges. Priced \$1 to \$10 per 100-500. Great Bargains to select from. Write at once for free Catalogue and Bargain Sheet. Local Agents wanted. D. Hill, Evergreen Specialist, Dundee, Ill.



**MONEY IN GOOD CABBAGE**

My elegant new book for seed growers is a storehouse of rare seed information. Tells about my famous varieties of money-making cabbage.

WRITE TO-DAY FREE Mention this Paper and I will send you a package of Buckbee's New Early Marvel Cabbage the best-growing variety on earth, together with a copy of my great Seed Book.

H. W. BUCKBEE  
Dept. L-30 Rockford Seed Farms  
Rockford, Illinois

**Try the New Majestic Tomato**

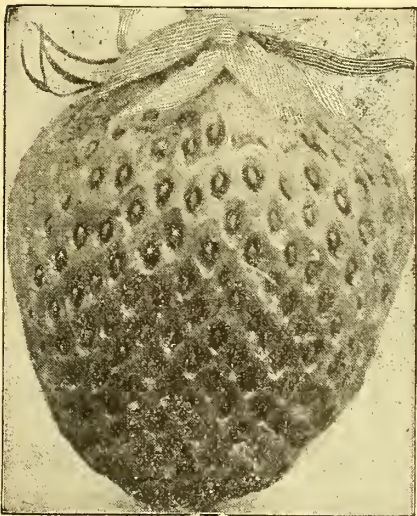
This grand variety we claim to be the largest and most productive kind in existence. It yielded 1160 bushels per acre on our place last season, grown under ordinary conditions, and will, we believe, double it by special culture. The fruit is not coarse and rough like other large sorts but is of fine shape and unsurpassed quality. The seed is scarce this year and sells at 40 cents per packet of 100 seeds. We desire, however, to place our catalogue in the hands of every one who has a garden and have decided to send a trial packet of 25 seeds FREE if you mention paper in which you saw this advertisement.

\$100 in Cash Prizes  
\$35 for largest tomato grown, \$40 for largest yield from one plant, \$25 for best photograph of a plant. Postal brings 10c worth of seed, a chance to win a valuable cash prize and the finest seed catalogue published. Our Iowa Seeds are unsurpassed.

**IOWA SEED CO.,**  
Des Moines, Iowa.

FREE---GREAT CROPS OF  
**STRAWBERRIES**

AND HOW TO GROW THEM.



"STRAWBERRY KING," so called because he discovered the way to develop the fruit organs in a plant and make it grow two big berries where one little one grew before. He grows the biggest crops of the biggest berries ever produced and the book tells all about how he does it. It is a treatise on PLANT PHYSIOLOGY and explains correct principles in fruit growing. It is worth its weight in gold to any fruit grower. Will be sent free to all readers of Poultry Keeper. Send your address now. The finest THOROUGHbred PEDIGREE PLANTS in the world.  
R. M. KELLOGG, Three Rivers, Mich.

**HANNA BARLEY** **SALZER'S SEED NOVELTIES**

**SALZER'S NATIONAL OATS.**  
Yes, farmers of America, lend me your ears, while I chant the merits of this new Oat Novelty.  
Editors, Agricultural Writers, Institute Orators, all talk and write about this new Oat. It yielded in Wis 156 bu., in Ohio 187 bu., in Mich. 231 bu., in Mo. 235 bu., and in N. D. 310 bu. per acre, during 1903, and in 1904 you can grow just as easily 300 bu. per acre of Salzer's National Oats, as we can. Your land is just as good, just as rich and you are just as good a farmer as we are. We hope you will try this Oat in 1904, and then sell same for seed to your neighbors at a fancy price, next fall.

**Macaroni Wheat.**  
It does well on arid, dry lands as also on rich farm lands, yielding from 30 to 80 bu. per acre.

**Speltz and Hanna Barley.**  
Greatest cereal food on earth. Yields 4 tons elegant straw hay and 80 bu. of grain, as rich as corn, oats and wheat ground together! Does well everywhere. Hanna Barley grows on dry, arid lands, yielding 60 bu. per acre.

**Salzer's Home Builder Corn.**  
Positively the biggest eared early corn on earth, yielding in Ind. 137 bu., Ohio 160 bu., Tenn. 198 bu., Mich. 220 bu., and S. D. 276 bu. per acre. It is really a marvelous corn. Sinks its roots deeply after moisture and nourishment and grows like a weed.

**Bromus Inermis and Alfalfa Clover.**  
Bromus Inermis is the most prolific grass for permanent pastures on earth. Yields 7 tons hay per acre. Good on sand, lime, clay, gravel—yes, on all kinds of soils!  
Alfalfa Clover produces more hay and better hay than any Clover known. It is good for 7 tons per acre.

**Potatoes 736 bushels per Acre.**  
The Editor of the RURAL NEW YORKER says, "Salzer's Earliest Potato is the earliest out of 58 early sorts tried, and yields 464 bu. per acre, while Salzer's Early Wisconsin yielded for them 736 bu. per acre. Salzer's Potatoes for yield challenge the world!"

**FOR 10c IN STAMPS**  
and the name of this paper, we will send you a lot of farm seed samples, including some of above, together with our mammoth 140 page illustrated catalog. Send to-day.

**JOHN A. SALZER SEED CO. LACROSSE, WIS.**



and address Hiawatha Mfg. Co., 804 Oregon St., Hiawatha, Kans. Mention Poultry Keeper.

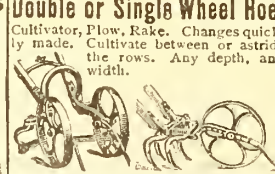
There is much of technical information, and much information that if carefully studied and followed cannot but result to increase profits for any poultry man, in the new Victor Incubator Book just issued by the Geo. Ertel Co. of Quincy. In addition to being a complete catalog of their lines of Incubators, Brooders, and Poultry catalogs, there are nearly fifty pages of facts and figures, hints and helps, by which any poultry man, especially the novice, can profit. Name Poultry Keeper when writing and book will be sent free.

Some breeders think that if they pack the eggs they sell for hatching so they are not broken in transit they have done their duty. This might be so with market eggs but eggs for hatching usually sell for good prices and purchasers have reason to expect that the eggs will be properly protected from changes of temperature which cause more poor hatches than any other one thing. The steam pipes in an express car will heat a basket of eggs to above 110 degrees in short order if placed near and should this be the case the chances for hatching any of those eggs are very slim. Especially is this the case if the same eggs are allowed to stand on a stand on a station platform a half hour afterwards. Breeders who are anxious to hold their trade should use a tight egg shipping box such as The Canfield Coop Co. of Bath, N. Y., are advertising on page 485. Their catalogue is free to P. K. readers.

**"NEW UNIVERSAL" LINE OF GARDEN TOOLS**



**6 STYLES SEEDERS**  
Opens furrow, drops in plain sight, covers, marks. Models of Accuracy.



**Double or Single Wheel Hoe,** Cultivator, Flow, Rake. Changes quickly made. Cultivate between or astride the rows. Any depth, any width.



**6 Tools in 1.** Combined seeder, marker, hoe, rake, plow, cultivator. Single or double wheel. Every adjustment easily made. For planting and all kinds of cultivation.

Details on full line tools in 1904 free catalogue. Write for it.

Note High Arch and Plant Guards. Bent Oak Handles on all Tools.



**Wheel Plows** with cultivator, rake and hoe attachments. For garden and poultry yards.

AMES PLOW COMPANY, 102 MARKET STREET, BOSTON, MASS.

**NORTH SIDE POULTRY YARDS, Silver, Buff and White Wyandottes.**

We don't claim the best in the world, but we have them as good as any one. Our record in the show room the past ten years will prove it, winning our share or more at such shows at Chicago, Boston, Philadelphia, St. Louis, Kansas City and Des Moines. Won this winter on Silvers at Chicago, 1st cock; 3rd hen; 4th cockerel; 1st, 2nd, 3rd pullet, 1st pen on 9 entries. This, in the hottest competition, winning 7 points more than any other exhibitor. Also 5th pen in W. Wyandottes. Our 1st pullet at Chicago pronounced by a number of judges the finest they had ever seen. St. Louis, same week, on Silvers, 3 entries, we won 1st pullet and 1st pen. 100 cockerels, good breeders, \$2 to \$5; 100 pull ts, \$2 to \$4; trio, \$5 and up; pen, \$10 and up; 300 head, with score cards, by Shellabarger and Tucker, at living prices; 2 pens of Buffs, cock and 6 hens, \$20 per pen; one pen headed by the 3d cockerel at Chicago last year and 6 hens, \$25; 2 pens of Whites, cock and 4 hens, \$10 and \$15. Send for circular and be sure to mention Poultry Keeper.

A. & E. TARBOX, Box 2, Yorkville, Ill.

**The Inside of this Building in Ten Colors**

32 Years World's Headquarters for Everything.

showing the clerks at work, the goods, and, in fact, an interior sectional view of every floor of the tallest commercial building in the world. It makes a very attractive and interesting wall hanger, and is one of the most complex and complicated pieces of lithography ever attempted. If you want it send four two-cent stamps, about what it cost us to print. Ask for our ten-color Wall Hanger. If you want to save your dealer's profits on everything you eat, wear or use, send 15c for our 1128-page Wholesale Catalogue. Millions are saving 1/3 of their former expenses by trading direct with us. If you want both Wall Hanger and Catalogue enclose 20c.

**MONTGOMERY WARD & CO.**  
Michigan Ave. and Madison St., Chicago. 49

**CYPHERS** is the **Lice Powder** that **Kills.**

Stronger than any other on the market. It does not simply drive away the pests, but kills them. Contains no carbolic acid. Clean to handle, easy to apply, sure in effect. Will not injure eggs nor chicks. Excellent for lice, ticks, fleas, etc. on stock. Send for trial package, post paid 15c; at your dealer's 10c. 100 oz. package (by express) \$1.00.

**Poultrymen's Necessities.** Our full line of patented appliances, remedies, balanced ration poultry foods, sealed bag clover products, etc. will be found described in Cyphers Poultry Supply Catalog. Free if you mention this paper. Name your special wants and address nearest office.

**CYPHERS INCUBATOR CO.,** Buffalo, N. Y. Chicago, New York, Boston.

**CYPHERS GLOVER PRODUCTS**

Put up in Sealed Bags. Guaranteed 95% Pure Clover.

**Keep the Fowls Healthy. Increase the Egg Yield. Make Fertile Eggs.**

Green food of some sort is absolutely indispensable to the health, vigor and success of your flock. Clover—rightly prepared—supplies it in the most available form. The

**Cyphers Glover Products** are cut and milled by us, in our own mill by special machinery. We use only best grade of selected, second crop clover. Largest and best mill in existence devoted exclusively to the manufacture of Poultry Foods and Clover Products.

**CYPHERS SHORT CUT SCREENED CLOVER HAY,** Cut to short lengths and carefully screened. Absolutely no waste. May be fed either with mash or scalded alone. Price, 50 lb. bag, \$1; 100 lb. bag, \$1.75

**CYPHERS SHREDDED CLOVER.** Resembles fine short cut excelsior in texture. All coarse parts finely shredded, making it easily digestible. Unequaled for breeding stock. Price, 50 lb. bag, \$1; 100 lb. bag, \$1.75

**CYPHERS MEALED CLOVER.** Cut clover—blossom, leaf and stem—all the plant—reduced to a fine meal. The best form of clover for morning or evening mash and for feeding to small chicks. Price, 50 lb. bag, \$1.10; 100 lb. bag, \$2.

Look for the Seal. **CAUTION.** Look for the Seal.

All Cyphers foods and clovers are in bags, bearing the Cyphers trade mark, and sealed with lead seal, having "Cyphers" on one side and "Buffalo" on the other. Do not accept a bag with broken seal. **Insist upon the genuine.** You are paying for it and ought to have it. Much better value than any other brand. We invite comparison.

Ask your Dealer for Cyphers Goods in Sealed Bags. We are headquarters for every poultry necessity, patent appliances, supplies, foods, remedies, etc. Get our Supply Catalogue. Free if you name this paper. Address nearest office.

**Cyphers Incubator Co.,** New York, Buffalo, Boston, Chicago.



AUSTRALIAN LAYING CONTEST.

Mrs. A. H. Hansel of Loop City, Neb., whose fowls have held first place in the great Australian laying contest, writes: "I have just ordered 100 pounds Standard Poultry Food, as I consider the best food is none too good for poultry that brings such good returns. My competitive hens are still in the lead and from reports from Australia stand a fair chance of winning. I am using Standard Poultry Foods with good results."

Seven of Mrs. Hansel's hens were recently sold in Australia for the neat little sum of \$21 each, which she considers a pretty good price for Nebraska hens. All of her fowls in the contest have been fed on Standard Poultry Food. They have presented so good an appearance and made such a good record that she has received cable orders for several shipments of fowls. If Standard Poultry Food will fit birds to enter as successful competitors in an International Laying Contest and also fit birds to stand a long sea voyage, and put them in condition to bring good prices, it will certainly pay every poultry raiser who is fitting his fowls for market or feeding for increased egg production to use Standard Poultry Food. Send to P. S. Sanborn Co., 1505 Howard St., Omaha, Neb., for circular on egg production and name P. K.

Special attention is called to the ad of the Dandy Brooder, Trap Nest and specialties on page 413. These goods are the invention of Dr. A. F. Meserve, of Danville, Ill. and were originally gotten up for his own personal use. They are a decided novelty in poultry appliances and will be found to fulfill a long felt want. Their success has been so marked that they will be given to the poultry fraternity in gen-



is absolutely pure. It costs one-tenth cent a day per hen if you buy it in one cent cans. It will increase the profit from your poultry this winter. To be profitable your pullets should lay now. All your hens should be in condition to lay daily while eggs are high. It assures perfect assimilation of the food elements needed to produce eggs.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$5. Sample copy, best Poultry paper free. I. S. JOHNSON & CO., Boston, Mass.



REX POULTRY FOOD

is not a medicine nor a stimulant to force for a little time and leave the fowl's vitality lower than before. It Brings Eggs In Winter because it is a scientific preparation of elements necessary to egg production. It keeps fowls in health because it aids the digestion and assimilation of the other things you feed them. You only use a little at a time. This is what you have been looking for. Get circulars and free sample. REX STOCK FOOD CO. Dept. 51, Omaha, Neb. Rex Lice Killer is always the same. It kills lice.

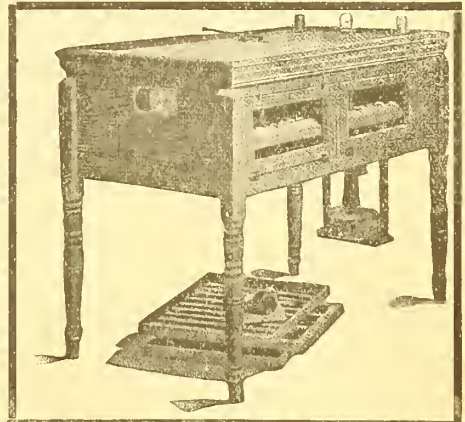
WERUM'S  
DISINFECTING NEST EGG,  
THE BEST AND MOST CONVENIENT  
LICE AND VERMIN  
EXTERMINATOR.  
INDORSED BY POULTRYMEN AND DEALERS  
SOLD ON GUARANTEE  
PRICE PER 1/2 DOZ. BY MAIL (PREPAID) .60 CENTS.  
MANUFACTURED BY  
WERUM DISINFECTING CO. STRYKER, OHIO.

"Uncle Sam's" Testimonials

Together with the following list of large breeders:

- WM. D. ULSH,
- F. B. MAGILL,
- SID CONGER,
- E. O. WILCOX,
- FRENCH BROS.,
- CASTLEGOULD,
- WM. C. CASEY,
- W. H. WHITE,
- NOLAN BROS.,
- W. H. PYE,
- S. J. BENNETT,
- PHILANDER WILLIAMS,
- CHAS. L. CUSHMAN,
- C. W. B. GERNERD,
- A. J. HALLOCK
- C. W. RICE,
- E. H. HALLEY,
- F. E. WALLACE,
- E. L. WHITE,
- JNO. SHERMAN, JR.,

etc., etc., are all found in the Prairie State Catalogue.



All the Large Breeders use Prairie State Incubators and Brooders

382 FIRST PRIZES  
Write us at once for our new catalogue—it will pay you to do so.

Prairie State Incubator Co.,

Box 23, (Always use box number.)

Homer City, Pa

It's Poultry History

covering many years, that the leading Incubator, the one that produces uniformly the highest per cent in hatches, hatches the strongest, best chicks and is the most nearly automatic in all workings of all machines, is the

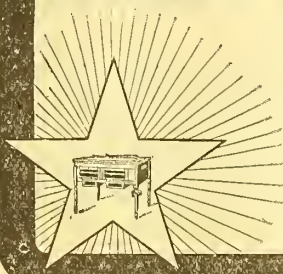
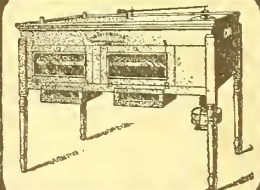
Famous STAR INCUBATOR.

It is a machine that has made a record, "a hatcher that hatches." Stands absolutely unapproached in its system of ventilation, which supplies, in addition to fresh air, all the moisture needed in the natural way.

Brought Within Reach of All

by 1904 prices: 50 egg Star \$6.00, 100 Egg \$12.00, 200 Egg \$20.00. Poultry raisers may now have the dependable, record hatcher for the price they would pay for untried machines. Let us send you the new catalog, which explains the new era we are establishing in prices. It comes free. Ask for it to-day.

Star Incubator & Brooder Company, Box 15, Bound Brook, N. J.





eral. They are guaranteed by their manufacturer to be all that is claimed for them, and it will pay any one interested to write for 1904 catalogue, which contains lots of valuable information on brooders, trap nests, etc. Drop a postal with your address, mentioning Poultry Keeper, to The Dandy Brooder, Danville, Ill.

**10,000 PLANTS FOR 16c.**

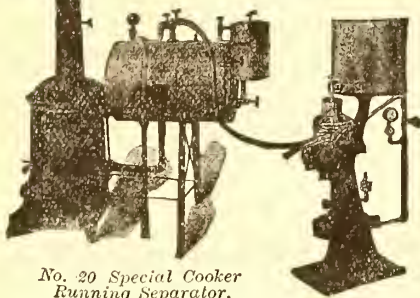
This is a remarkable offer the John A. Salzer Seed Co. La Crosse, Wis., makes. They will send you their big plant and seed catalog, together with enough seed to grow  
 1,000 fine, solid Cabbages,  
 2,000 delicious Carrots,  
 2,000 Blanching, nutty Celery,  
 2,000 rich, buttery Lettuce,  
 1,000 splendid Onions,  
 1,000 rare, luscious Radishes,  
 1,000 gloriously brilliant Flowers.  
 All for but 16c postage providing you will return this notice, and if you will send them 20c in postage, they will add to the above a package of the famous Berliner Cauliflower.

Poultry Keeper.

It doesn't look as if the rush of men into poultry keeping would lower the price of eggs! Perhaps you remember the fears of a few years ago, on the part of some timid people, that the egg business bid fair to be overdone. It has worked the other way. Never have eggs been so high, and kept there for so long a time, as the past few months. It is a fact that eggs are more a necessity to-day than ever before, and the increased demand bids fair to continue.

The seventh annual catalogue of the Sure Hatch Incubator Co., Clay Center, Nebr., is brimming over with evidence of the worth of the Sure Hatch machines. The machines are described and illustrated (by photographs) and many strong letters are presented from persons who are using the Sure Hatch. The company report that they sold over 20,000 machines last season and that in every way the sales were successful. They ask us to announce that every reader of Poultry Keeper is welcome to a copy of their 1904 catalogue. We suggest that

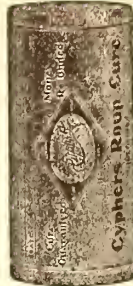
**RIPPLEY'S Improved 1903-4**  
 Combination Steam Feed Cooker, Water Tank Heater, Poultry and Dairy House Heater.



No. 20 Special Cooker Running Separator.

Will heat buildings and cook feed 300 feet from machine, will run small engines and Dairy Separators. Constructed of Steel and Cast Iron. Safe as a heating stove. Guaranteed to cook 25 bushels ground feed, roots or vegetables in 2 hours, with less fuel, time and attention than any steamer on the market. Fitted with safety valve and water gauge. Children operate them, very safe. Used and endorsed by Wisconsin, Iowa, Virginia, Georgia, Kansas, New Mexico and Ontario, Canada Experiment Stations and hundreds of breeders. Made in three sizes and three styles. Fire box is a double cylinder and can be detached from steam chest and used as a heater only, or the complete cooker can be used to heat buildings and cook feed or heat stock buildings. Price of the fire boxes less steam chest, \$18.00 and \$20.00. Don't buy a cooker until you have inspected our line, as we have the best line on the market. It will boil a barrel of water in 25 minutes, cook a barrel of vegetables or ground feed in 30 minutes. 100 page catalog mailed free.

**RIPPLEY HARDWARE CO. Mfrs.**  
 Box 72, Grafton, Illinois.



**Cyphers Roup Cure**

*Cure Guaranteed or Money Refunded.*

Poultry men and pigeon growers have found this the one certain remedy for roup in all states and forms. Prevents and cures common colds. Without an equal for canker. Used by simply dissolving in drinking water. Small package makes 25 gallons of medicine. We agree to refund your money within 30 days if you are not satisfied. Price, small package 50c, large package \$1, postpaid. For sale by 2,000 dealers. Accept no substitute.

**Necessities for Poultrymen.**

Patent Appliances, Foods, Remedies, Books, etc.—everything for poultry raisers, fully described in special circulars and separate supply catalogue; free if you name this paper. Address nearest office.  
**Cyphers Incubator Co., Buffalo, Chicago, Boston, New York.**

**„THE OAKES HYDRO SAFETY LAMP,,**  
 COMPOUND THERMOSTATIC BARS.

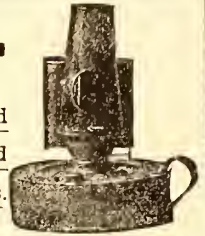
Improved Wafer Regulators, Copper and Brass Boilers and Tanks, Thermometers, Egg Testers and all Incubator and Brooder Supplies, Fixtures and Repairs.



Manufactured by  
**THE OAKES MFG. CO., Bloomington, Ind.**

Box No. 8.

Illustrated Catalog Free.

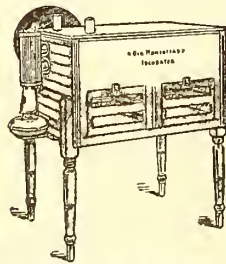


**King's Barred Plymouth Rocks**

Again proved their superiority by winning 13 out of 15 prizes competed for, in a class of 167 Barred Rocks at the recent Peoria show. Clean sweep on cks' 93 1/2, 93 1/4, 93, 92 1/2; clean sweep on pullets 93 3/4, 93 3/4, 93 1/2 93 1/4; 1-3 hens, 92 1/4, 92; 1-2-3 pens, 186 11-16, 185 11-16, 184 1/4. (W. S. Russell, judge). Same week at Macomb, Ill., show, 1st cock, 91; 1st c'k'l, 92 1/4; 1st hen 92 1/2; 1st pen, 184 1/4. (Chas. McClave, judge). All birds shown at Macomb show were under weight and cut from one-half to one point, which accounts for low scores. All birds shown by me at above shows were bred and raised by me. I have them just as good for sale. Write me your wants.

**O. L. KING, Walnut Grove, Ill.**

**The Old Homestead New Incubator,**



It will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send for it. It is free to all who mention Poultry Keeper when writing.

**OLD HOMESTEAD BROODER CO., MIDDLEBORO, MASS.**

**FLOOD'S ROUP CURE**

**Absolutely the best. Cure guaranteed.** Simply put the Cure in drinking water and the chicken takes its own medicine. Our 50c package makes 50 gallons of Medicine. Post Paid 50c and \$1.00.

The best and cheapest liquid louse killer is **Flood's Disinfectant and Germicide.** 1 qt. cans 35c, 1 gal. cans \$1.00. Easy to use and lasts the longest.

**Flood's Paragon Egg Producer** mixed with the feed for chickens especially in winter is sure to make your hens lay eggs when prices are highest. Remember this is not a medicine. Price, 1 lb. package 25c, 5 lb. package \$1.00. 1 lb. package by mail 40c, 5 lb. by express \$1.25. Our remedies are sold on an absolute guarantee. **Manufactured only by**

**W. H. FLOOD, Cleveland, O., U. S. A. Agents Wanted.**



those interested in artificial hatching send without delay.

**THE "EGG BASKET" PEOPLE.**

A number of P. K. readers have profited by reading poultry supply advertisements of Darling & Company of Chicago, especially the little book mentioned in their advertisement. Those who have put to the test and know the value of the few preparations formerly put out by Darling & Company will be glad to know, therefore, that they are to occupy a more extended field in the poultry supplies in the future. They have lately put out a general supply catalog, the first they have ever issued, listing their old standby preparations and several new ones, in addition to many select poultry appliances which they do not themselves manufacture but for which they have become the selling agents. Not only poultry, but stock supplies, find a place. They announce the new Darling Stock Food, a 30 per cent protein product, which from its perfecting a few months ago began to command attention. A feature of this widening out by this firm is their Advisory Board consisting of poultry and stock feeding experts to whom they refer for correct answer free of charge, the questions upon care and feeding of poultry and stock submitted to them by their patrons. All who have used the Darling preparations will want this general catalogue. It is a good book issued by a reliable growing concern which will be found valuable to all poultry raisers and stock feeders. It may be had by writing the firm at the address given in their add on page 458, and mentioning Poultry Keeper.

Of course it was expected that Mr. M. M. Johnson's (Clay Center, Nebr.) new incubator catalogue would be a book worth having and he has met this expectation. An advance copy has reached our desk and by the time this number of Poultry Keeper will be in circulation the Johnson book will be ready for free mailing to every one who is interested in good incubators. This book is one of the big incubator catalogues of the year. There are 108 pages (8x9) and a handsome colored cover. The illustrations are new half tones and the reading is interesting and well worth any chicken man's time. Just name Poultry Keeper when writing and Mr. Johnson will send his book free.

**COMES BACK TO THE BEST.**

I expect to subscribe to Poultry Keeper the coming year. I have tried other poultry papers, but they do not seem to be very practical.—Wm. H. Spayde, Sandbeach, Pa.

# 30 Days Free Trial

We don't ask people to take our machine on faith. If you try you know. Just so people may buy with their eyes open, we sell the

## ROYAL Incubator

on above terms. We can do this and do it because it performs right. It holds its own in any company. Its work sells it. All we care for is to know that you're in earnest about wanting a machine. Incubator and Poultry Catalog free. With poultry paper one year 10 cents.

**ROYAL INCUBATOR CO.,**  
Dept. 47, Des Moines, Ia.  
*Also Breeders of Fine Poultry.*

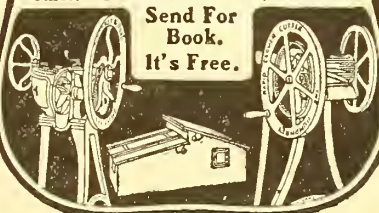
**IT'S NOT TOO LATE TO SEND YOUR NAME HUMPHREY**  
Class St. Factory, JOLIET, ILL.

It's never too late to feed green bone and cut clover. It is not too early to get a good brooder. Therefore, send your name today to Humphrey and get his book about the

**Humphrey Open-Hopper Bone Gutter, Humphrey Rapid Clover Gutter, Humphrey Pure Air Brooder.**

They are not the "only" machines of the kind but they're very different. The bonecutter has an open hopper—ready when you are—no partitions and only three working parts. Guaranteed to cut more easily and faster than any other or your money back. The clover cutter cuts finer and faster than any other. The Brooder is perfectly ventilated, absolutely sanitary and clean. Unlike any other. You'll be interested, therefore

Send For Book. It's Free.



**LACE CURTAINS FROM FACTORY TO YOU.**

Why pay high prices to your local dealer when you can buy direct from the mill? We sell the most beautiful Lace Curtains at the lowest possible prices. Every Curtain the right kind, made of Egyptian cotton, hard twisted, warranted to wear. We make beautiful Curtains, 6 yards to the pair, 54 to 60 inches wide, as low as \$3c per pair. Hundred other styles up to \$5.00 per pair.

Write for catalogue of new styles, free if you mention P. K. Our goods sent C. O. D. upon examination and if not desired may be returned at our expense.

**MOLINE LACE CURTAIN CO.,**  
MOLINE, ILLINOIS.

This is the way they grow on  
**CYPHERS** Put up in sealed bags. Get the genuine.  
**Ready-Mixed Poultry Foods.**

Special foods for special purposes. Compounded by experts, guaranteed to contain only sound, wholesome grain and seeds, and to be properly balanced. Used and endorsed by successful, money-making poultry raisers.

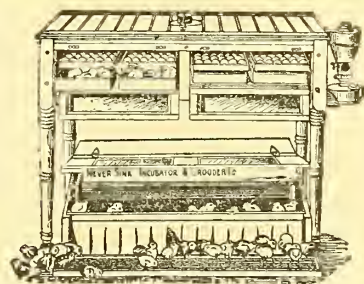
- Cyphers Laying Food**—Positively makes hens lay. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cyphers Scratching Food**—Makes hens work and lay eggs. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cyphers Forcing Food**—For production of prime roasters and broilers. Price, 50 lb. bag \$1.15, 100 lb. bag \$2.
- Cyphers Chick Food**—"Complete food" for chicks—makes bone, muscle and feather. Price, 50 lb. bag \$1.50, 100 lb. bag \$2.50.
- Cyphers High Protein Beef Scrap**—(60% to 65% protein.) Price, 50 lb. \$1.60, 100 lb. \$2.75.

Ask your dealer for Cyphers Foods. Look for trade mark and unbroken lead seal on every bag. Accept no other. Poultrymen's Necessities. Cyphers Patent Appliances, Clover Products, Remedies, Insecticides, etc. Special circulars and separate supply catalogue, free if you mention this paper. State what you want. Address nearest office.

**CYPHERS INCUBATOR CO.,** Buffalo, Chicago, New York, Boston.



Pair of Capons, weighing 23 lbs. at six months old. Were fed Cyphers Chick Food & High Protein Beef Scrap. Raised by Mr. Pratt, Hingham, Mass.



**HIGH GRADE Incubators AND Brooders**

Experience is a high salaried school master. Its teachings, however, have taught us successful methods in Artificial Incubating and Brooding. Our Hot Water Incubators Regulate and Ventilate Automatically with the Egg Chamber, causing the natural moist air to pass over the eggs while going through the different stages of the hatch. Naturally results are strong, vigorous, bright, healthy chicks. Our Lamp Brooders are built on sanitary principles and highly recommended by our many customers. A long felt want accomplished worthy the attention of many unsuccessful Poultrymen the world over. There is nothing that succeeds like success. Will you have it? The Most Practical System of Today is the Never Sink Hot Water Pipe System. Built for business and economy. Catalogue if you mention Poultry Keeper.

**Never Sink Incubator Co., R. F. D. 3, Columbus, Ohio.**

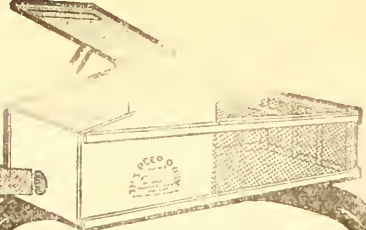


At the Chicago Show (December 1903) in a splendid class of Barred Plymouth Rocks I. T. French, Toledo, Ohio, secured first prize. This is a good endorsement. Mr. French can furnish birds and will take good care of egg orders. Ad on page 501.

This is what a subscriber wrote to us because his December number went astray. "We have not received December Poultry Keeper as yet. Have worried because we thought we would not get it. Of all the magazines we receive, we would rather miss any other than the old Poultry Keeper. Fred R. West, 695 S. Ashland Ave., Chicago."

The man who advertises in a journal solely because it is cheap, is a cheap man in the business world. He will add nothing much to anybody's purse—not even his own.—American Advertiser.

It is better to under-rate than to over-rate a value. People can believe little things quicker than big ones.—American Advertiser.



**PEEP-O'-DAY**  
Coops and Colony Houses

are recommended by the largest and most successful poultrymen. We manufacture these houses in several styles and sizes. They are manufactured at the Cornell works in the Cornell way; built of one-inch white pine, free from black knots and shake; painted two coats of linseed oil and lead paint. Illustration shows Portable House No. 4, with run, 3 feet square, 2 1/2 feet high; run 3 feet by 5 feet.

BRYN GARW.  
Rockville, Conn., Sept. 30, 1903.  
Cornell Incubator Mfg. Co., Ithaca, N. Y.

Dear Sir: We take pleasure in saying the twenty No. 4 Coops we bought of you are giving good satisfaction, and are much superior to the coops made by the former maker. We shall be glad to respond to any inquiry regarding these coops.

Yours very truly,  
STIRLING & CLAY POULTRY CO.  
Per J. C. Stirling.

Price, as illustrated, \$6.00; with floor, \$7.00. The Cornell catalog and book of reference is mailed free for the asking. Write us today.

**CORNELL INCUBATOR MFG. CO.**  
Box 11 Ithaca, N. Y.



**He'll Never Let Go**

of the two legged hatcher. He doesn't look down on the hen—he fixes her up and he uses her in his business. He's the kind of boy that gets money out of poultry. If you will follow the natural plan and use the hen's instinct you will win success with the

**Natural Hen Incubator.**

It costs but little—\$3.00 for the 200 egg size. You have the hen on your side. Don't ever forget that she knows how. Just give her a chance. She will work out success for anybody with the Natural Hen. Any worker can make big wages selling our plan for it sells on sight. You need to know. Write us. Catalog and 25c Lice Formula Free.

**NATURAL HEN INCUBATOR CO.,**  
Box B-1, Columbus, Nebr.



**A BUSY HEN** is a profitable hen whether she be laying, hatching or taking on fat for market. Nothing will aid so much in all of these occupations as small daily feeds of **Prussian Poultry Food.** It not only helps in eggs, growth, etc., but also prevents and cures croup, cholera, roup etc. and helps in moulting. "I have tried the Prussian Poultry Food for rump and it cured my flock. For keeping poultry in condition, and especially as an egg producer, it stands without an equal. Every one that keeps poultry ought to give it a trial and be convinced."—B. H. PAYNE, Painesville, Ohio.

Price 25 and 50 cents. If by mail, 40 and 75 cents, Pails \$3.50. Ask your dealer. If not there, write us. We will see that you are supplied and send you our 68 page book free.

**PRUSSIAN REMEDY CO., St. Paul, Minn.**



Agents—Portland Seed Co., Portland, Ore.; Vaughn Seed Store, Chicago, Ill.; J. W. Wilder & Co., Cincinnati, Ohio.

# NEW YORK SHOW RECORD UNAPPROACHED.

FOR THE LAST FOURTEEN YEARS  
BARRED PLYMOUTH ROCKS WE BRED AND RAISED.



A "GRANDSON'S BROTHER" MALE, bred by a son of "Grandson's Brother 5th", for which \$100 was refused as a cock. The bird in the cut is the sire of more First National Winning Cockerels than any other male living.

HAVE WON AT NEW YORK SHOWS AS FOLLOWS:  
(1) MORE FIRST PRIZES than any other exhibitor has won on Any Stock.  
(2) More FIRST Prizes on Exhibition Pens than any other exhibitor has won.  
(3) Nearly DOUBLE the number of FIRST PRIZES on COCKS and COCKERELS of any other exhibitor.  
(4) And THREE TIMES the number of FIRST PRIZES on MALES that any other exhibitor has won on stock not our breeding.

ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS.

No less than Thirty-five Winning Males at New York Shows, Singly or at Head of Pen, have been bred by us from our "Grandson's Brother" line and its near relatives.

OUR LAST SEASON'S PRODUCT were Winners at the Largest Show held in this Country, also in England. \$250.00 was refused by two customers for a cockerel and Pullet hatched from eggs we sold.

THE HIGHEST PRICE EVER GIVEN in this Country, to our knowledge, for a Barred Plymouth Rock was received for a "Lee Belle" female, Bred and Raised by us.

AT NEW YORK SHOW, 1902, Our last exhibit—in a class of 223 of the Best America Prizes and All the special Prizes except one, including All Silver Cups, Gold Special, and Silver Medal.

THREE of the FOUR HIGHEST PRIZES on COCKS and COCKERELS were won by birds from our "Grandson's Brother" lines, and our First and Second Prize Pullets, Judge Scudder, who has placed the awards on Rocks at nearly every New York Show for fourteen years, stated, were the Highest Scoring of any he ever judged in the Garden.

We won Four of the Five Cockerel Prizes; Four of the Five Pullet Prizes; Four Prizes on Fowls, and Three of the Five on Exhibition Pens—1st, 2d and 4th.

ALL OUR TWENTY-SEVEN WINNERS were from our own yards except two; one of these was hatched from our eggs direct—the other, a fourth place bird, was bred from our stock.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of medium priced exhibition birds—hot ones for the money. For sale—carefully mated Breeding Yards of Five Birds, mated for either Light, Medium or Dark Progeny as desired, \$20 and up. Special Prices on Poultry in Large Numbers. Send for the new edition of "America's Best—Illustrated," giving 22 pictures of Recent New York Winners, also for pamphlet, "What Our Hatching Eggs Produced for Our Customers Last Season"—Both sent free if you mention Poultry Keeper.

BRADLEY BROS., Box 825, Lee, Mass.



# 1500-BIRDS FOR SALE-1500

Scored by Judge  
G. A. Emry

## ALL POPULAR BREEDS

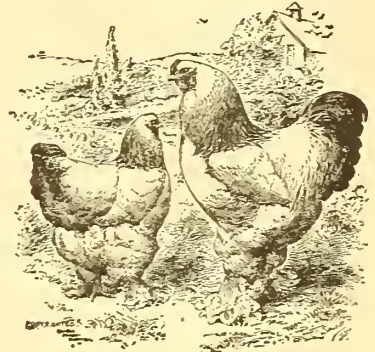
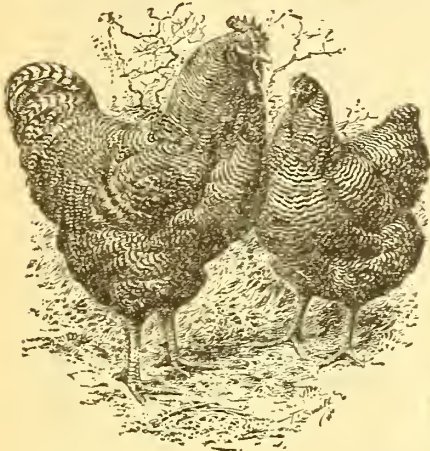
Farm Raised; of Winning Ancestry;  
Vigorous, Well Conditioned and...

HIGH SCORING.

Ready for Show or  
Breeding Pen

ON THE

## Reliable Poultry Farm



Barred Plymouth Rocks  
White Plymouth Rocks  
Buff Plymouth Rocks  
Light Brahmans  
Black Langshans  
Buff Cochins  
White Wyandottes

Silver Laced Wyandottes  
S. C. Brown Leghorns  
S. C. White Leghorns  
R. C. Brown Leghorns  
Imperial Pekin Ducks  
Toulouse Geese  
Mammoth Bronze Turkeys

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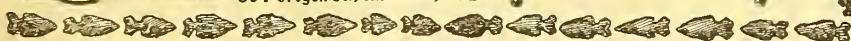
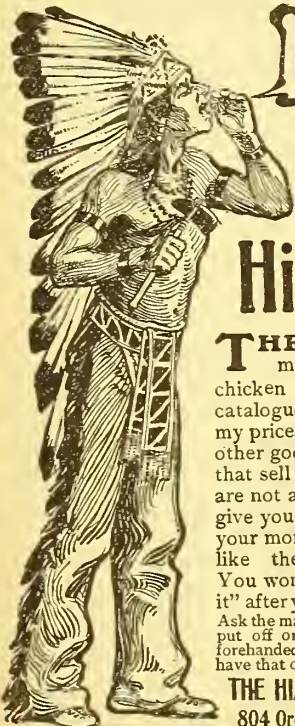
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**SILVER CUP WINNERS,** Barred Rocks, Pekin Ducks; Hagerstown, Stamford, Matetawan, Danbury, West Haven, Meriden, Breeding Cockerels, \$2 upwards. Eggs, \$3. Trios, \$5 to \$10. Circulars free. Harry F. Sherwood, Sangatuck, Conn. 1-4

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**WHITE WYANDOTTES** and Pekin Ducks. Booking orders for eggs. Pen No. 1 (either) 13 eggs, \$3.00. Pen No. 2 (either) 13 eggs, \$2.00. Benton Farm, 612 East Diamond St., Allegheny, Pa. 1-4

**PRENDERGOST'S WHITE PLYMOUTH ROCKS** Fishel strain. For sale 50 large, vigorous Cockerels, 100 fine Pullets. Satisfaction guaranteed or money refunded. Pekin ducks and Bronze turkeys. M. J. Prendergast, R. 4, Streator, Ill. (1-4)

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**SHADY LAWN POULTRY FARM** breeds Geese, Ducks, Turkeys, Guineas, Barred Plymouth Rocks, White and Golden Wyandottes, Brown Leghorns, Black Langshans. Choice stock for sale. Eggs in season. Send for catalogue. B. F. Kahler, Route No. 1, Hughesville, Pa. 1-6

**BUFF ORPINGTONS,** Partridge Cochins, White and Barred Rocks. Cockerels \$1 to \$2, trios \$3 to \$5. Eggs \$1 per 15. White Pekin Ducks, eggs \$1 per 11. Rae Bird 1-4

**BUFF ORPINGTONS** Cook strain. Prize winning males, \$2 per 13 eggs; White Wyandottes (Duston and Hawkins), cockerels, \$2 up. White Leghorns, prize winners, Brown Leghorns (Dorsey and Kulp); eggs, \$1 per 13; \$5 per 100. F. Taylor, Hanover, Md. 3-12

**NO MORE STOCK** for sale. Buff Turkey eggs, \$2 per 12. Barred Rocks direct from Thompson, \$1.50 per 15. Others from prize winners, \$1 to \$1.25. Thompson's and Hawkins' (indirect.) J. W. Upchurch, Benevola, Ala. 1-3

**SINGLE COMB BUFF ORPINGTONS,** single comb Buff Leghorns and Pekin Ducks. Indiana State Fair 1903, won 1st cock; 1st and 2nd hen; 1st pen; 3rd pullet. Write for circular. J. B. Middleton, Franklin, Ind. 12-4

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**ROSE AND SINGLE COMB,** Buff, Black and White Orpingtons; Ply. Rocks; Wyandottes; Brahmas; Leghorns; Minorcas. All eggs this spring at half price. Circular free. Lewis C. Beatty, Washington, N. J. 1-4

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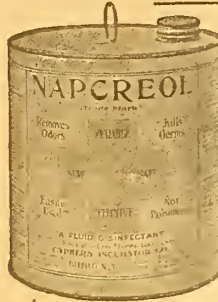
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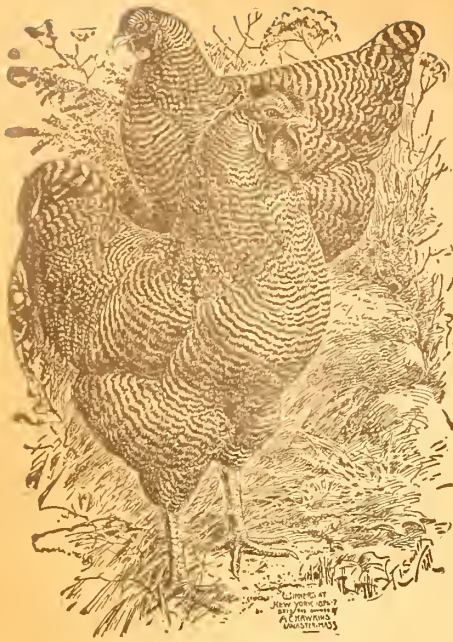
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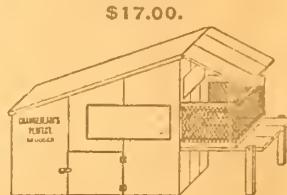
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Vol. XX.

MARCH, 15, 1904.

No. 12.

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**▲ ▲ RINGGOLD BUFF ROCKS ▲ ▲**

Won at Johnstown Feb. 18, 20, '04. Cockerels 1st, 2nd, 3rd, 4th; Cock, 3rd; Pullets 1st, 2nd and 3rd. Eight birds entered. This is the only time we have shown our birds this season. The birds winning above prizes were all raised by ourselves from our own eggs. Still some stock for sale, **ORDERS NOW BEING BOOKED FOR EGGS.** Send for circular, free if you mention Poultry Keeper.

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We want to send it and are anxious to have the name and address of any one who desires to make money out of chicken raising. The book tells how to have eggs to sell when prices are high; how to get spring chickens on the market and realize the greatest profits; how to fatten heavy fowls for fall markets. In other words, how to systematize the poultry business so as to make the most money.

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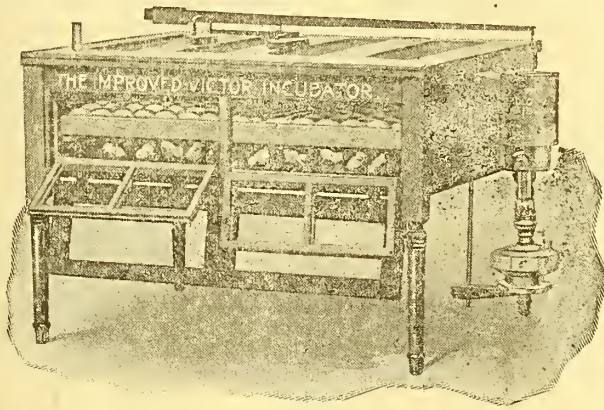
The Story of the Development of the Chick in the Egg is a valuable scientific treatise. It contains information that will enable any poultryman to save money in the handling of incubators or hens. The chapters giving the result of practical experiments in artificial Incubation are likewise valuable. Then there are hundreds of Hints and Helps in all departments of the poultry business.

Only a portion of the book is used to describe the Victor Incubators and Brooders, but we tell the whole story. We describe the material used. We tell the little points in construction which mean so much in ease and economy of operation. We tell what an incubator should do. The essential points are all told so that you can recognize a practical incubator when you see one.

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We are pioneers in our business. George Ertel started business in Quincy in 1867. He established a reputation for quality of goods and integrity of business dealings which we take pride in sustaining. He did business in a small way, but the machines he turned out were practical and one in a community has always meant orders for more.



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Today our goods are known all over America and we are shipping all over the world. When you write us for our book we will send you a list of people in your own state and county—perhaps in your own town—who are using Victor Incubators. You can ask them about us—whether our machines are what we say they are and whether we do as we promise. You can look us up in Dun or Bradstreet or ask the banks or express agents in Quincy how we do business. Then you will know that you can do business with us in safety and satisfactorily. We further protect our customers by sending with each machine we ship our guarantee bond providing for the return of your money in case the machines are not just exactly as represented.

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I saw your ad in Poultry Keeper.

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Postoffice .....

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Incubator you are to get your money back. We have fixed it so  
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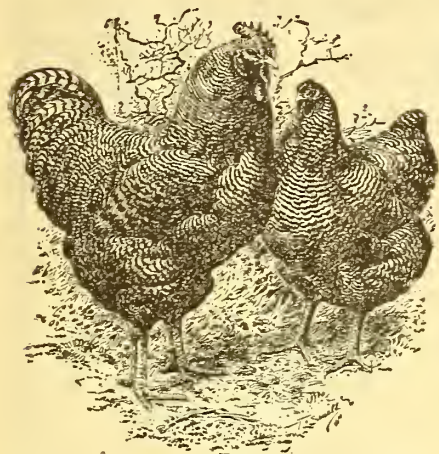
**Reliable Incubator and Brooder Co.,**  
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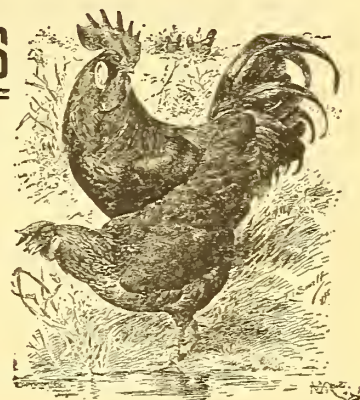


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IS FED ON RELIABLE POULTRY FARM.

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Feed **RELIABLE POULTRY FOOD** to your chicks and nothing else. Prices are as follows:

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| 25-pound bag .....  | \$1.00 |
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| 100-pound bag ..... | 2.50   |
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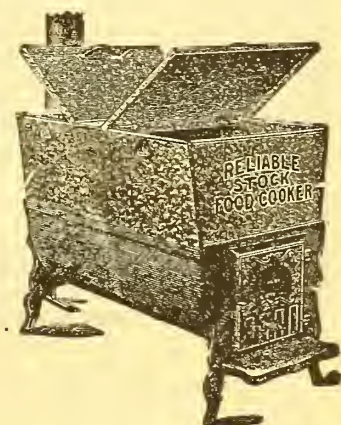
## Reliable Feed Cookers

Fill the long-felt want of a good Feed Cooker and Water Heater at a low price. They are, as the name indicates, reliable in every way. Boilers are of best No. 22 galvanized steel. **OUR \$5.00 FEED COOKER** meets the demand for a small cooker at a low price.

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| Price, 20 gallon size, burns wood only.....      | \$ 5.00 |
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| Price, 35 gallon size, burns wood or coal .....  | 10.00   |
| Price, 50 gallon size, burns wood or coal .....  | 12.00   |
| Price, 100 gallon size, burns wood or coal ..... | 16.00   |

Write at once for circulars and don't buy until you see what we have to offer.

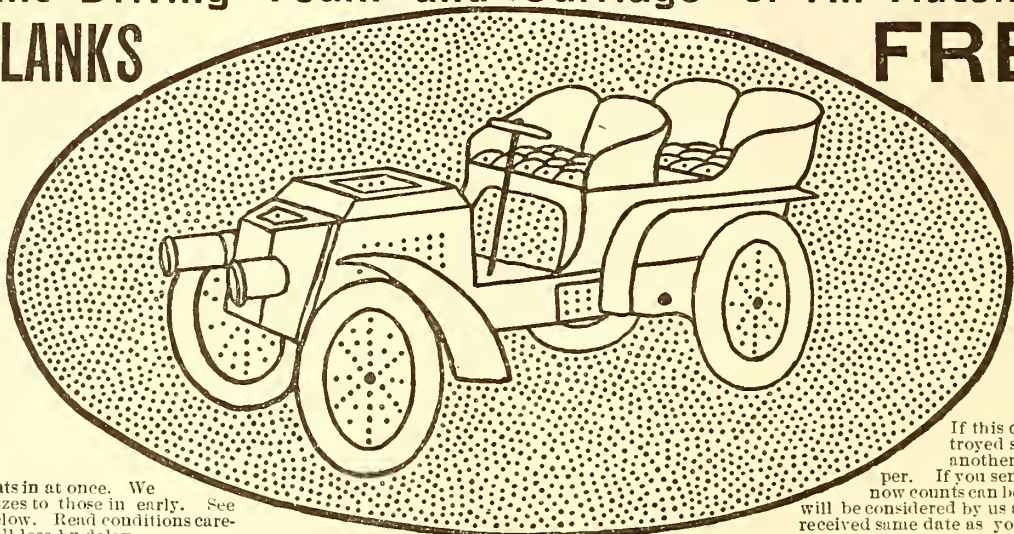
**Reliable Incubator & Brooder Co., U. S. A., Box A-15,  
QUINCY, ILLINOIS.**





# FREE An 80-Acre Farm and TWO \$400 PIANOS FREE

Elegant Driving Team and Carriage or An Automobile  
**NO BLANKS** **FREE!**



**\$50 EXTRA**  
 for best count received by April 15th

**80 ACRE FARM FREE**  
 in any one of a dozen states

Get your counts in at once. We offer extra prizes to those in early. See Time Prize below. Read conditions carefully. You will lose by delay.

If this chart gets destroyed send stamp for another on heavy paper. If you send subscription now counts can be sent later and will be considered by us as having been received same date as your first letter.

**Do You Think You Can Count? Try It and See. If You Can Count and Plan You Can Win!**

**Have You Got a Good Plan? It May Enable You to Win a Big Prize!**

**THE AMERICAN HOME MONTHLY**, an elegantly illustrated up-to-date home and family magazine will give FREE to those who can count the dots above correctly or nearest correctly, the following grand prizes:

**FIRST PRIZE**—A Gasoline, Steam or Electric AUTOMOBILE, or a Matched Driving Team, Harness and Carriage, or a Matched Work Team and Wagon, or An 80-Acre Farm.

**SECOND PRIZE**—Two Elegant \$400 Pianos, one to a Lady and one to a Gentleman.

**THIRD PRIZE**—\$100 Cash. **FOURTH PRIZE**—\$50.00. **NEXT FIVE**—\$10.00 each, and \$200 to be divided equally between all who come within three of the correct count.

**AWARDS WILL BE MADE AS FOLLOWS**—The person giving correct or nearest correct count will get first prize. Next nearest correct, second prize, etc. In case of a tie for any prize it will be awarded to the person giving best plan for counting the dots.

**EXTRA PRIZES**—To winner of first prize and winners of the two pianos will be given an extra cash prize of \$50.00 each if they have three or more counts entered, that is, have paid \$1.00 for two years and three counts, instead of 50c for one year. Don't lose \$50.00 by having only one count, and besides you are more likely to get correct count by taking three and having one on each side of what you think correct.

**CONDITIONS**—50 cents pays for one full year's subscription to AMERICAN HOME MONTHLY, and entitles you to one free count; \$1.00 pays for two years and entitles you to three counts and makes you eligible for the special \$50.00 prizes.

**TIME PRIZE**—We feel early counters should be rewarded and will give \$50 to person sending best count or plan by April 15th. If you can count within three you are sure of a prize, as part of the \$200 to be divided. If you send best count before April 15th, you get \$50 extra and are as likely as any to win automobile team, farm or piano.

**OPTIONS**—The Gasoline Automobile may be had to seat either two or four people. Instead of the Automobile we will give you, if you prefer, an elegant matched driving team with gold mounted harness and elegant rubber-tired carriage, or a fine matched draft team with hand-sewed harness and best wagon, all complete, or an 80-acre farm in any one of a dozen states.

**OUR PRIZES**—We believe we have arranged for the best in every case. These are all prizes well worth working for. There is no element of chance. It is a test of skill pure and simple. If you can count, you can win.

**JUDGES**—The awarding of prizes will be wholly in the hands of the following persons. We are bound the contest must be absolutely fair, and certainly with such judges nobody can question it: Rev. Walter M. Walker, Pastor First Baptist Church; Hon. Frank D. Jackson, Ex-Governor of Iowa; Prof. Z. C. Thornburg, County Superintendent of Schools, Polk county.

**OUR FINANCIAL RESPONSIBILITY**—As to whether we are abundantly able to do as we say, we are glad to refer to Des Moines Savings Bank and Central State Bank. Our offer will be carried out to the letter.

Nobody connected with our paper will be allowed to compete. Contest closes May 31st, but get your counts in at once. See about Time Prize above. Anybody having three counts entered may enter additional counts at 25 cents each. The more counts you have, the better will be your chance for winning.

Publisher AMERICAN HOME MONTHLY, 236 7th St., Des Moines, Iowa.

I enclose \$..... for subscription to American Monthly, and I wish to enter the..... (write ladies' or gents') Dot Contest. If \$1.00 is paid send three counts; if more than \$1.00 send one additional count for each 50c over \$1.00; if only 50c is paid send ONLY ONE count. The \$50.00 special prizes go only to those having THREE or more counts entered.

My count is: (1).....(2).....(3).....

Name.....

P. O. .... State.....

Remarks: My plan of counting is.....

### Some Winners in Past Contests

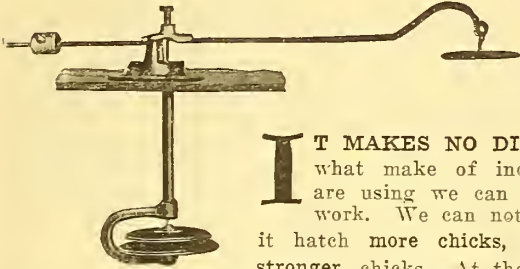
- Piano—W. C. Elliott, Audubon, Iowa.
- Piano—Mrs. L. W. Nott, Marlon, Iowa.
- Piano—Mira E. Farnsman, Panola, Ill.
- Piano—D. L. Freeborn, Knoxville, Pa.
- \$100—Amy R. Barnes, Van Horne, Ia.
- \$350—John A. Goodwin, Akron, Ohio.
- \$100—Eva I. Buckner, Fredonia, Kan.
- \$100—C. S. Wyman, Vinton, Iowa.
- \$50—S. Irving Stroyer, Baltimore, Md.
- \$100—E. M. Hall, Montrose, Mo.

We have a list of hundreds who have won \$5, \$10, \$20, Bicycles, Free Trips, Pianos, etc. It will be sent you free upon request.

Address all letters to AMERICAN HOME MONTHLY, 236 7th St., DES MOINES, IOWA



# WHO MADE YOUR INCUBATOR?

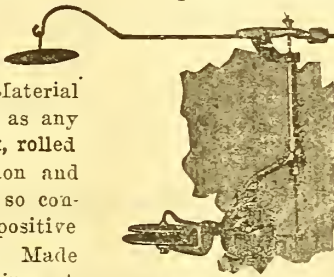


**I**T MAKES NO DIFFERENCE what make of incubator you are using we can improve its work. We can not only make it hatch more chicks, but better, stronger, chicks. At the same time

our equipment will relieve you of all that worry, annoyance and trouble common with other lamps and regulators. The cost is trifling compared with the comfort and the results. It would be shrewd economy upon your part to throw away your old lamp and regulator and put on an Acme outfit. Because

## The Acme Gompound Regulators (Patented)

are the simplest and most efficient regulators made, and we challenge any one to equal them. Our Wafer Thermostats have exclusive features not found in any other. Material is special, heavy spring brass, twice as thick as any other, hence, twice as durable. Its double lock, rolled edges make the strongest possible construction and make them practically everlasting. Valve is so constructed as to secure a predetermined and positive uniform action, impossible to obtain otherwise. Made in various styles and sizes to fit any machine. A regulator that regulates perfectly. A test will prove you never had a regulator worthy of the name until you get the Acme.



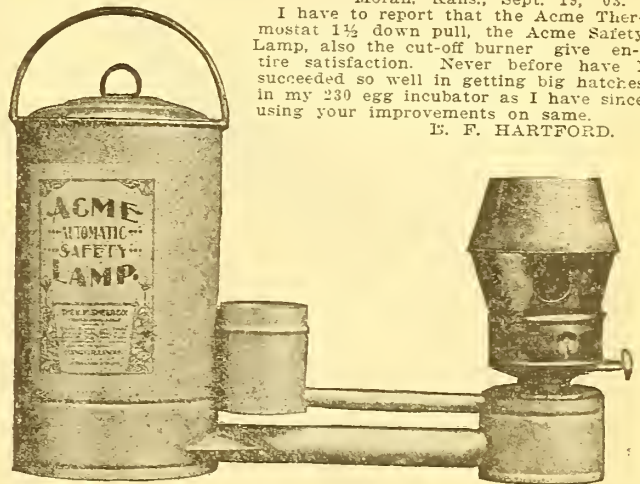
put your kind on all of them. Wishing you good luck with your goods, I remain,  
E.E. PRICE.

For a limited time we are offering best incubator thermometers at 50 cents each, three for \$1.00; best brooder thermometers at 30 cents each, three for 60 cents. Special prices on all our goods. Send for free catalog and bargain list.

Chicago, Ill., June 11, 1903.  
Enclosed please find \$2.00 for another Regulator, same as sent me before, which is working excellently not having varied one degree in two weeks. Am using same in connection with your Automatic Lamp, for which I can not say too much.  
Very respectfully,  
H. O. SCHMACKELS.

## The Acme Safety Lamp.

is the acme of lamp perfection for incubators and brooders. Does away with trouble of frequent filling and trimming. Large reservoir holds over a gallon of oil. Its automatic oil supply insures an even, steady flame all the time. Has a special burner which requires no trimming of wick and consumes 20 per cent less oil than any other lamp producing equal amount of heat. Absolutely safe—has water jacket which prevents overheating. No smoke, soot, odor. Made of heavy, cold rolled polished brass, making as perfect and durable a heating apparatus as it is possible to build. It is a real pleasure to run an incubator with an Acme Lamp and Regulator equipment.



Moran, Kans., Sept. 19, '03.  
I have to report that the Acme Thermostat 1 1/2 down pull, the Acme Safety Lamp, also the cut-off burner give entire satisfaction. Never before have I succeeded so well in getting big hatches in my 230 egg incubator as I have since using your improvements on same.  
E. F. HARTFORD.

## Incubator Fixtures and Supplies.

We manufacture tanks, heaters, lamps, regulators, lamp stands, trays, doors, legs, poultry punches, bands, gape worm extractors, capenizing tools—anything the poultry man needs or wants and everything at the most reasonable prices. If you have any special appliance of your own invention we can make it for you. We are wholesale dealers in thermometers and incubator hardware.

## Plans for Building Your Own Machine.

We furnish plans for building the celebrated Peerless Incubators and Brooders. You can build your own machine or go into the incubator manufacturing business on your own account. These plans are complete and illustrate every piece of material, give exact dimensions and location of same. Complete instructions for operating are included. They are copyrighted and the price is \$1.00, but if you send us six names and addresses of people who own incubators, we will send them prepaid for 25 cents.

Ithaca, N. Y., Aug. 27, 1903.

The regulator received and it is at work and it regulates to a fraction of a degree, and my other one also works like a charm. Will you please send me some charts, as I am making five more machines. I think you should make a fortune out of your regulators. I have six 200 egg machines that have other regulators and if they do not act better this winter I will

# The H. M. Sheer Company,

Box 2, Quincy, Illinois.



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Our work is strictly first class, neat, attractive and Up-to-date. Good stationery and circulars with cut showing the variety of fowls you breed will bring orders, where poor printed matter spoils all.

## Good Printing is one of the Secrets of Success in the Business.

We have a large and complete line of **Sewell Cuts** made expressly for use in printing, showing every prominent breed, which our customers can have the use of on all work ordered of us, **without extra charge**. In ordering printed matter state what size cut and what variety you desire, make your directions to us very plain. If we are in doubt we will write you for instructions. **Our prices are for good printing, delivered prepaid, illustrated with high grade cuts. All work guaranteed to please.** Terms, cash with order.

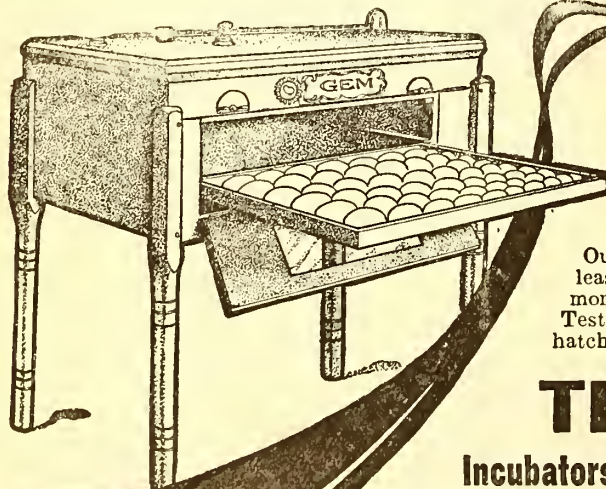
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| BUSINESS CARDS.                 |        | ENVELOPES.         |        | LETTER HEADS.        |               |
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| 250, Size 2½x4½, Square.....    | \$1.25 | 250, No. 6½.....   | \$1.25 | 10-lb. Paper.        | 12-lb. Paper  |
| 500, " 2½x4½, ".....            | 1.75   | 500, " 6½.....     | 1.75   | 250, Size 8½x11..... | \$1.90 \$2.00 |
| 1000, " 2½x4½, ".....           | 2.75   | 1000, " 6½.....    | 2.75   | 500, " 8½x11.....    | 2.50 2.75     |
| 250, " 2½x4½, Round Corner..... | 1.50   | 250, " 9.....      | 2.00   | 1000, " 8½x11.....   | 3.75 4.25     |
| 500, " 2½x4½, ".....            | 2.00   | 500, " 9.....      | 3.50   |                      |               |
| 1000, " 2½x4½, ".....           | 3.25   | 1000, " 9.....     | 5.00   |                      |               |
| SHIPPING TAGS.                  |        | BILL HEADS.        |        | NOTE HEADS.          |               |
| 250, No. 4.....                 | \$1.00 | 250, Size 6x9..... | \$1.60 | 6-lb. Paper.         | 7-lb. Paper   |
| 500, " 4.....                   | 1.25   | 500, " 6x9.....    | 2.00   | 250, Size 6x9.....   | \$1.50 \$1.60 |
| 1000, " 4.....                  | 1.75   | 1000, " 6x9.....   | 2.80   | 500, " 6x9.....      | 1.85 2.00     |
|                                 |        |                    |        | 1000, " 6x9.....     | 2.60 2.80     |

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Out of every sixty fertile eggs you put into a Gem—at least fifty will hatch. Hundreds of users have demonstrated this. Often the percentage is higher. Tested by time, pronounced a high per cent hatcher by its friends and disinterested judges

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are in the front rank of the procession. Eggs are protected by uniform temperature—no chilling—no excess of moisture to retard hatching. Every operation can be easily understood and quickly done. Chicks start in life strong, vigorous and healthy. The Gem machines are a close copy of nature's way with none of the cranky, erratic notions of the hen. No fussing—no worry—no disappointment with Gem machines. They're solid, strong, well made and prepared to withstand successfully—heat, cold or moisture. Our free catalogue discusses points you're interested in. Send now.

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**Drawer D, Dayton, O.**







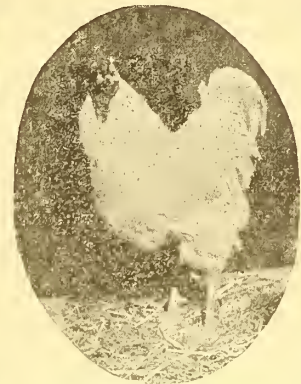
First Prize Ind. Fanciers Show, 1904.

# EGGS

— FROM —

## FISHEL'S

### White Wyandottes



First Prize at the Great A. P. A. Show 1903.

WILL HATCH YOU WINNERS JUST THE SAME AS THEY DO FOR US.

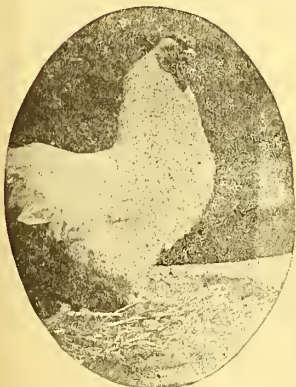
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Have just issued a new Mating Circular, describing each yard with a true picture from life of each male that heads the yards. By the number of yards we have mated you will be sure to get strictly fresh eggs.

A number of good Breeders yet for sale. Note our winnings at the last Great Show, February 8-12, 1904, Indianapolis, Indiana: 1-2-4, Cock; 1-2-3-4, Cockerel; 1-2-4-5, Hen; 1-2-4-5, Pullets; 1-2-3, Breeding Pen; \$25.00 Silver Cup for best display White Wyandottes; White Wyandotte Club special best Cock, best Hen, best Cockerel and best Pullet. Is not that a stronger proof of our claim?

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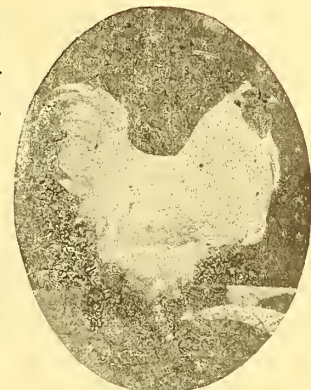
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Now, in buying eggs from us, we guarantee every sitting. Send for our catalogue and Mating Circular, which tells you all, just for a 2c stamp.

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**GOLDEN WYANDOTTE** chl., score 90½, price \$1.50.

**ROSE COMB WHITE LEGHORN** Pullet, 94%, price \$2.  
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**SHOW AND EGGS.**

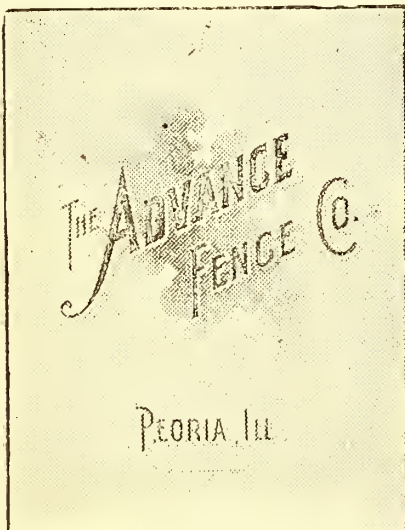
These are the two profitable qualities in poultry culture. Either alone is only half profit.

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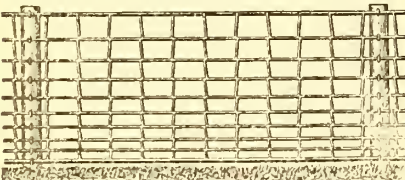
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This valuable book posts one fully on the kind of fence to use for every purpose, and on the correct prices to pay for the very best fence. Whether you intend to buy Advance Fence or some other kind, at least send for this free book and be on no posted on the subject.



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5 grand exhibition matings for 1904 and no finer could be bred. Large vigorous, chalk white males and 200 egg females that score to 96%. Prominent judges, all my customers and overwhelming victories in the leading western show rooms testify as to the quality of my stock. Look them up, a wonderful record since 1898.

EGGS guaranteed to give best results, \$2 per 12.  
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**Breeders of Barred Plymouth Rocks, White Wyandottes and S. C. B. Leghorns.**

(Nelson strain) Chicago Champion cock heads one of our pens of Browns. As cock he won 1st and special twice at Chicago Shows 1903, we also won 1st and 3rd cock; 2nd and 5th pen; 4th and 5th hen and Am. S. C. Brown Leghorn club specials as follows: Best male head, best shape and color female; also gold special for hen free from shafting and brick. Eggs \$3 per 13; \$1 per 13. Send for circular. Mention P. K.  
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Is the Incubator you want BECAUSE it has a perfect heating and regulating system, BECAUSE it consumes five times less oil than others, BECAUSE it is the most simple in construction, and as finely finished as a parlor organ.



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Is BOUND to revolutionize the poultry-raising industry of this country—in fact it is doing so VERY RAPIDLY wherever used.

We want all those that have not already tried it to do so at once. We are leaving no stone unturned to get everybody to do so. Just to try it, that's all. The food will soon convince you that you cannot possibly raise chicks for profit without it. It will positively stop that dreadful mortality amongst your chicks. That is what causes everybody to despair in the poultry business. It is sold to you under that guarantee.

**It Has Got to do the Work.**

**T**HAT'S your protection. No ifs ands about it at all. No conditions of any kind. It will and it must. If not, why then you are not out one single penny. You get your money back, every cent of it, and also the transportation charges you have spent in getting the food to you. All that it costs you is one cent for a postal card to us.

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This unheard of offer really admits of your buying the food under a Positive Guarantee—a guarantee that means something. Compare this for a moment with other "guarantees."

Incubator manufacturers, for instance, in some cases sell you their goods "on trial." BUT WHAT DOES THAT MEAN? You try the machine and if you are not satisfied you can return it at the end of a certain time limit, usually 30 days. It takes 21 days to hatch your birds. The machine must be uncrated and set up, and then run for three or four days more prior to using, then it will probably be the 22nd day of the hatch before you can take your last chick out, and you must then recrate the machine if you are not satisfied, and truck it down to the depot. IF YOU CAN DO ALL THIS IN THE 30 DAYS you will get your money back, provided the bank that holds it in trust has not turned it over to the company, the time limit having just expired. Thirty days is a very narrow margin. Even so, you are out the freight both ways, and the company gets their goods back. Now, see the difference: You try the food—a five-pound box. Use it all up. Take your time about making up your mind. If it fails to live up fully to all our claims, demand your money back; return us nothing. You simply say, "I am not satisfied," and your money is promptly refunded, and we pay the express charges. Will you resist an offer such as this? We trust not. Send today to our nearest dealer, list of which follows, and drop us a postal, and we shall keep your name on our mailing list and send you all our printed matter as soon as issued.

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IT POSITIVELY CHECKS MORTALITY in broods of very young chicks, turkeys, ducks, etc., SAVING EVERY CHICK that can be made to live by any manner of means. A REALLY SCIENTIFICALLY BALANCED RATION that is a genuine revelation to all who try it. Originated, manufactured, and exclusively used by the WORLD'S LARGEST and MOST SUCCESSFUL POULTRY PLANT, THE PURITAN POULTRY FARMS & MFG. CO. (Incorporated), of Stamford, Conn. This immense establishment's principle product is



An article that is world renowned and used by the leading up-to-date breeders of America, England, Mexico, Canada, and many of the most distant European countries. Sold under a positive guarantee to do all claimed. If it fails, your money will be at once refunded by the manufacturers. A five-pound box will carry forty chicks over the danger line, and it costs but 35c. It is easily the unapproachable peer of all foods for the young of all fowl. A trial will convince, please and surprise you. It never fails.

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Special by the ton.

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We have over 1,500 agents in all localities of the U. S. and Canada. Write us for nearest agent's name and full particulars. Address—

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Is there a single reader of the "Poultry Keeper" that will not send in 35c for a TRIAL 5-lb. package of PURITAN CHICK FOOD, to any of the above dealers, under such a binding guarantee? If there is, we would value his name and address on a postal card that we can have a further talk with him.



# CHAMPION INCUBATORS AND BROODERS



## SAFE IS THE WAY

for all poultry raisers who use **The Champion Incubators**. Our "**Champion**" has removed all the dangers of failure from the path to successful artificial incubation. We have devoted our lives to the originating and manufacture of artificial poultry appliances. Our experience extends over a period of 15 years and during this time our experts have brought forth more new and valuable inventions and processes than any other one concern on earth, and last but not least our **Champion Incubator**, the embodiment of all the incubator goodness gained in our long experience. We have dug down deep into the laws governing artificial incubation, experimenting, studying and scrutinizing, turning each one, as found, over and over, under the light of scientific endeavor until their mysteries were made known and mastered. **The Champion Incubator** conforms to **Nature's** ways and will hatch every fertile egg, without supplied moisture.

**The Champion Incubator** has opened a field of new opportunities for poultry raisers, in which failure is practically impossible as it does its work **automatically**. It is the most perfect and successful **non-moisture, self-regulating** hatcher made, especially designed to relieve the overtaxed operator of the many arduous duties and discouragements imposed upon him by the ordinary incubators. It has its own **moisture-retaining chamber**, not found in others, requires no water pans, is simple, perfect and successful, safe and reliable. Finished and polished like a piano, it is a triumph in the art of incubator manufacture.

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This season's sales of over **100 carloads** tells a graphic story, a story of success never known of other brooders. Its good works, under all conditions of the weather and times of year, indoors and outdoors, is known to all poultry raisers. If you haven't one you should have. It will save you many dollars of losses and hours of worry. It is used on the largest poultry plants of the country, as well as the smallest, none are too small, none too large. No leg weakness, bowel disease, drooping wings. Its **safety chamber** is a marvel of success. Our "**Easy Chick Feeder**" is another innovation not found in others. Send for our catalog, it will tell you many other things, too, you ought to know about incubators and brooders before you buy.

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Direct From Our Factory

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This cut shows detail of construction of Advance Fence.

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You can take the fence home, put it up and try it. If you are not perfectly satisfied return it to us at our expense and we will return your money. This gives you a better opportunity to see and test the fence in actual use than the dealer will give you. Don't you think this is a fair offer? By selling direct to the farmer, we are enabled to sell

## At Wholesale Prices

We are the *originators* of this method of selling fence direct to the farmers and it has saved them thousands of dollars.

### Saved \$15 on One Hundred Rods.

I got the fence all up and I am well pleased with it, and I saved at least \$15 on the 100 rods by getting it from you, and you can consider me as a customer every winter.

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*Advance Farm Fence* is just right for general farm use.

- 6 Strand 35 in. high, 12 in. Stay.
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- 8 Strand 27½ in. high, 6 or 12 in. Stay.
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- 10 Strand 45 in. high, 12 in. Stay.
- 10 Strand 51 in. high, 12 in. Stay.
- 11 Strand 34 in. high, 12 in. Stay.
- 12 Strand 37 in. high, 12 in. Stay.

*Special Hog Fence* is recommended to those desiring a very closely woven fence for small pigs.

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*Our Giant Fence Stretcher* is the cheapest good stretcher made. Everybody likes it.

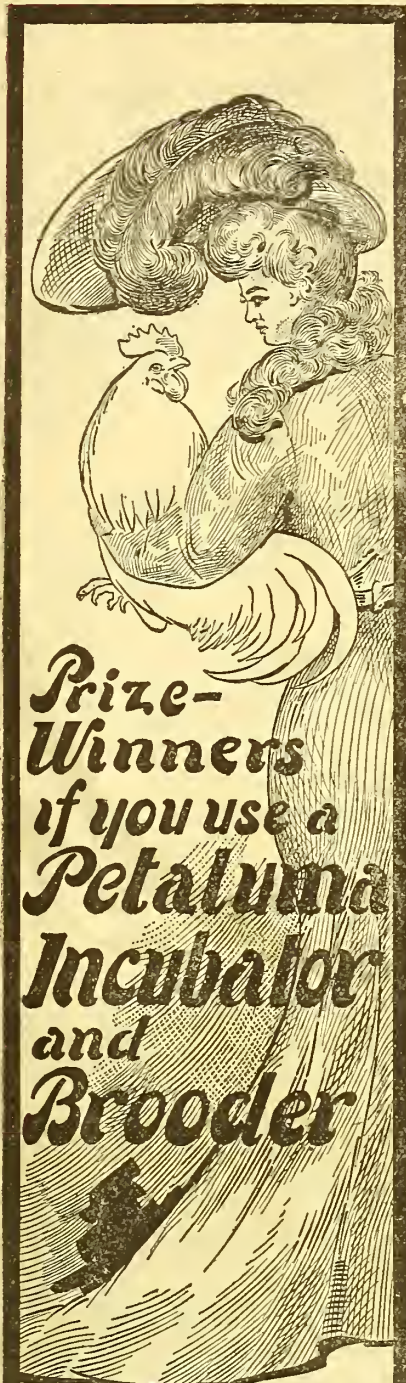
*Gates.* We make a complete line of both large and small steel framed gates covered with either farm or garden fence.

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Use This Coupon for Thirty Days Trial  
 Name .....  
 Address .....  
 Gentlemen:—  
 Please send me your  
 Free Book and prices.



## Prize-Winners if you use a Petaluma Incubator and Brooder

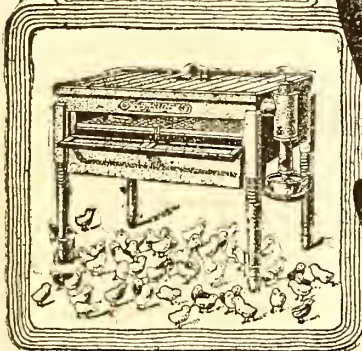
You get there every time because chicks are stronger and mature earlier than if hatched any other way. The brooder never lets them stop growing. It's the record of 26 years of continued success in poultry yard and in shows all over the world. The how is in our catalogue. Ask for it. We mail it free. Freight paid on our machines in the United States.

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Box 147, Petaluma, Cal. Box 147, Indianapolis, Ind.







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Man Who Knows."**

I have been using and experimenting with incubators and brooders for twenty years. I never found in my best efforts anything which was just exactly right and satisfactory. I finally made a machine in the way which I conceived to be right. It was right. I put it on the market last year and sold thousands of them under a positive guarantee and on trial. In every case they gave perfect satisfaction. I am therefore going to make and sell many more thousands of

**Miller's  
Ideal Incubators and Brooders**

this year. They heat with hot water, because I find that best. They are entirely automatic in heating, regulating, ventilating and applying moisture. They are just good, common sense machines made for busy people. They produce the best results with the least attention and no loss. I will send them to anybody, anywhere, on

**30 Days Trial.**

If not entirely satisfactory send them back. I don't know how to deal more fairly. In any event you had better not buy an incubator or brooder of any kind until you get

**Our Big Poultry Book.**

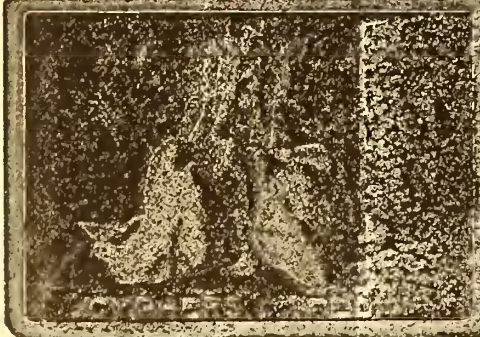
It tells all about our machines, our thoroughbred poultry and our full line of poultry supplies. We mail it free.

Write for a copy today.

**J. W. MILLER CO.,**

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**CYPHERS READY MIXED POULTRY FOODS**



**Note  
The Contrast!**

The prime stock "soft roasters" on the left were raised on Cyphers Food and Beef Scrap. Those on the right were of the same age, but were grown by the ordinary "farm fed" method. Both photographs were taken at J. H. Curtiss' Poul. Farm, W. Norwell, Mass.



**Cyphers Ready-Mixed Poultry Foods**

are without question the most economical and profitable the poultryman can use, because they are properly balanced, free from all waste and by-products and are exactly adapted to the special purpose in view. **Prepared by Experts.** Used and recommended by the **money makers** in the business. Send at once for special feeding circular. It's free for the asking.

- Cyphers Chick Food—50 lb. bag \$1.50, 100 lb. \$2.50**
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Ask Your Dealer for Them. Take no other. All Cyphers Foods are put up in bags sealed with lead seal bearing the words "Cyphers" and "Buffalo" Get the genuine. Our new general supply catalog describes Poultrymen's Necessities. Free, if you name this paper. Address nearest office.

**CYPHERS INCUBATOR COMPANY,**

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# They Challenge Inspection—

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## Outside—

An honest article never dodges the closest scrutiny. That's why the Sure Hatch is always prepared for inspection. Whether at home or on exhibition—at the dealer's or in actual use, the Sure Hatch stands "on parade" ready to be examined. Are you interested in hatching chickens? Look at a

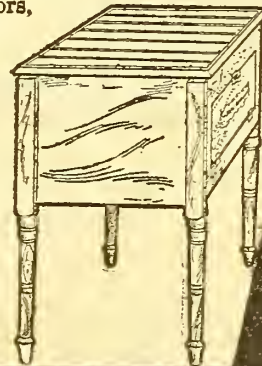
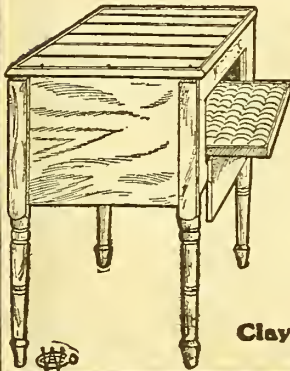


## Sure Hatch Incubator

from every point—inside—outside. Examine the odorless safety lamp; the no-leak, rustless, solid copper heating system. Test the delicate, self-acting regulator that keeps the eggs at just the right temperature.

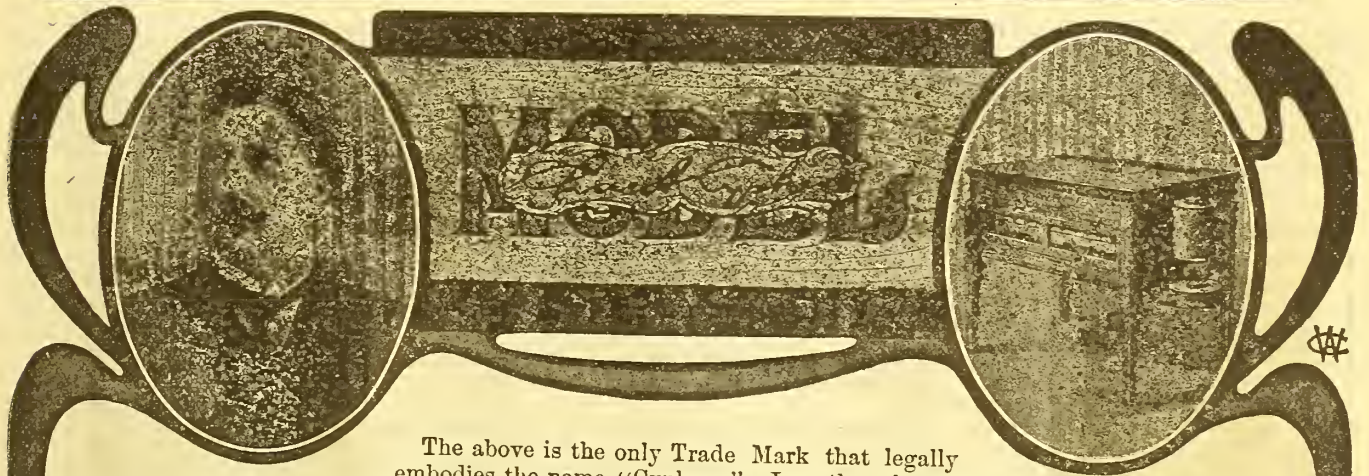
Look at the trays and nursery, the doors, etc. Notice their convenience. Last

of all try to find a weak place in the case—in joints, in lining, in casing—there isn't one there. Our guarantee means protection to you—it means live chicks—it means money in your pocket every season. Write for our free catalogue A 14 You need it if you raise chickens or sell eggs.



**Sure Hatch Incubator Co.**

Clay Center, Neb. Indianapolis, Ind.



The above is the only Trade Mark that legally embodies the name "Cyphers." • I am the sole owner of this Trade Mark. The Incubators and Brooders bearing it are manufactured under my personal supervision, are my latest design, and are the result of ripe experience in the construction and manufacture of this class of goods. It stands for the best there is in artificial incubation.

## The Model Incubator

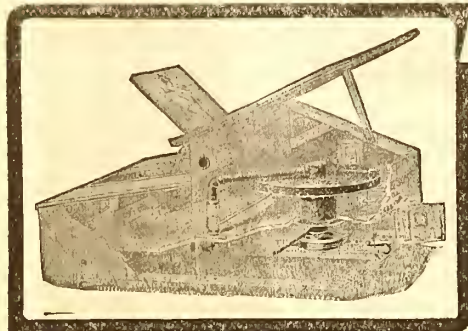
(not the Cyphers by name) contains all my latest improvements, and is warranted to outmatch my older invention, which machine still bears my name and is manufactured by another house. Do not get the two machines confused. The Model Colony Brooder is an entirely new invention. It has many points of superiority over other brooders. It is double walled, has diffusive ventilation under the hover, is light and cheerful, and can be used as a colony house after the brooding season is over. The Double Indoor Brooder is designed to replace the Sectional. It is lower in price, has two compartments in each end—a hover and warm nursery—is light and cheerful, is easily cleaned, and one lamp heats it. If you are interested in an indoor brooder look this one over. A simple request brings my free catalogue. Don't forget the street address.

**CHAS. A. CYPHERS, 39-47 HENRY STREET, BUFFALO, NEW YORK**



**HORSE-HIGH.**  
 Many styles and heights, made of high carbon galvanized Spring Steel Wire, heavily galvanized. REGULATES ITSELF.  
**BULL-STRONG**  
 Our prices will surprise you. We sell direct to the user at lowest Wholesale Prices.  
**CHICKEN-TIGHT**  
 Fence that will turn all kinds of large stock as well, is seldom found. We have it. Send for our Catalogue. It's free.  
**COILED SPRING FENCE CO.**  
 Box 222, Winchester, Indiana.

**CABLES MAKE IT STRONGER.**  
 All horizontal lines are cables. Fine meshes at bottom for small chicks. It stretches perfectly, does not sag between posts and fits your uneven ground without cutting. We sell you  
**UNION LOCK Poultry Fencing**  
 direct from factory at factory prices. Why pay dealers more for poultry fences not so good! Poultry people by the thousand, all who ever used it, tell you there's no other fencing so equal Union Lock Mills in Connecticut, Illinois, California. We'll ship quick from nearest one. Freight paid to nearly all points. Send right now for Catalogue of all Farm, Lawn and poultry Fences. It's free for the asking.  
**Case Brothers, Colchester, Connecticut.**



**DON'T YOU WANT TO KNOW MORE ABOUT THIS BROODER?**

**SELF REGULATING, PERFECT VENTILATION, ABSOLUTELY CLEAN**

If we could prove to you that the

**HUMPHREY PURE AIR BROODER**

with its perfect system of ventilation and self-regulation of heat will raise more chicks than any other brooder, wouldn't you be glad to know more about it? That's exactly what it does—because it is the only brooder made that gives a constant change of pure fresh air. Its principle of construction is new and unique. It is strong and durable, built to last and can be kept as sweet and clean as your kitchen. You know that the average brooder is a death trap. The Humphrey is a life preserver and a growth promoter. Let us prove to you what it will do. Send for our free brooder book.

**N. B. We are the manufacturers of the famous Humphrey Open Hopper Green Bone Cutter and the Humphrey Rapid Clover Cutter.**

**SEND YOUR NAME TO HUMPHREY GLASS ST. FACTORY. JOLIET, ILL.**

**"CYPHERS QUALITY"**



Comes to those who use the  
**"Standard Incubator of the World"**

No manufacturer can put better material or better workmanship into an incubator than we put into the Cyphers. We guarantee this.

No man has ever found a better system of incubation than that embodied in the Genuine Cyphers Patent Diaphragm, Non-Moisture, Self-Ventilating, Self-Regulating, Automatic Incubators. Results Prove This beyond question. Note what a few of our customers say:

Our experience has been altogether in favor of the Cyphers as the most reliable and satisfactory incubator yet conceived.  
 GEO. H. POLLARD, South Attleboro, Mass.



"Our first prize Buff P. R. Cockerel (Boston show) sold for \$300, the highest price ever paid in this country for a single bird. He was hatched in a Cyphers." (See illustration.)  
 MILLVILLE POULTRY FARM CO., M. F. Delano, Pres't.  
 Millville, N. J.

"Your Incubators are the best hatching machines I have ever used or examined; they give the largest percentage of strong chicks."  
 C. S. WETMORE, Lockport, N. Y.

"I am well pleased with the Cyphers. I sold enough chickens from the first hatch to pay for it and had \$5 left, clear gain."  
 ROSE B. JEFFRIES, Rockville, Ind.

"During the past thirteen years I have used a number of leading makes but found nothing that gave us the good results the Cyphers has."  
 J. F. CRANGLE, Valley Farm, Simsbury, Conn.

**Read and Analyze the Cyphers Guarantee Before You Buy an Incubator.**

It means exactly what it says, and we don't know how to make it stronger. The Cyphers must work satisfactorily in your hands, hatching more and stronger chicks, costing less for operating, causing less trouble and giving better satisfaction than any other incubator will, or you get your money back. Complete catalogue for 1904, free if you mention this paper. Address nearest office.

**BUFFALO, N. Y. CHICAGO, ILL. CYPHERS INCUBATOR CO. BOSTON, MASS. NEW YORK, N. Y.**

Poultrymen's Necessities. All standard Poultry Appliances, Cyphers Remedies, Balanced Ration Foods, Clover Products, Poultry Books, Insecticides and Poultry Supplies in general, fully described in our separate supply catalogues. Ask for it.



THE IMPROVED CHAMPION LEG BAND.

25 PAT APPLIED FOR



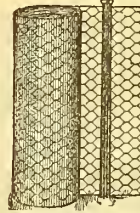
Aluminum or copper; two sizes adjustable to fit any fowl; held by double lock, they can't lose off. Post-paid 12, 15c; 25, 30c; 50, 50c; 100, 80c; Initials extra 10c per 100.



The SUPERIOR is securely locked, can't lose off, six sizes. State breed and sex. Post-paid, 12, 20c; 25, 35c; 50, 65c; 100, \$1. Sample for stamp. Circular free.

T. CADWALLADER, Box 704, Salem, Ohio.

## WIRE NETTING BARGAINS

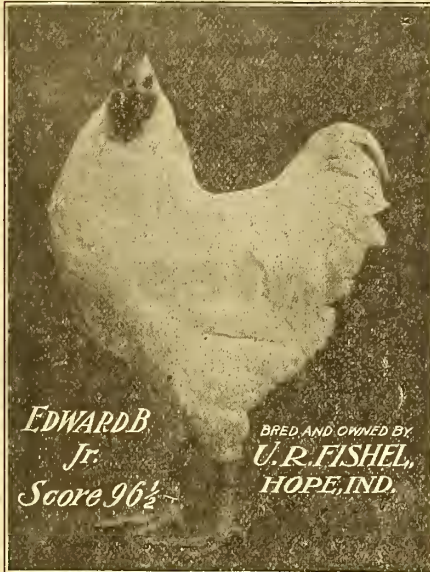


We have recently bought a round lot from one of the largest factories in the U. S. and name prices below the market in order to close out quickly. This is steel wire netting, Galvanized, new and saleable goods, but not perfectly bright, having been in warehouse some time. Offered subject to stock on hand when order is received. Can ship promptly. Put up in rolls of 150 ft. We do not sell less than full rolls.

| WIDTH   | MESH   | WIRE   | PER ROLL    | WIDTH   | MESH       | WIRE   | PER ROLL    |
|---------|--------|--------|-------------|---------|------------|--------|-------------|
| 12 inch | 2 inch | No. 19 | .....\$ .51 | 24 inch | 1 1/2 inch | No. 20 | .....\$1.22 |
| 18 "    | 2 "    | " 19   | ..... .75   | 36 "    | 1 1/2 "    | " 20   | ..... 1.83  |
| 24 "    | 2 "    | " 19   | ..... 1.02  | 48 "    | 1 "        | " 20   | ..... 1.12  |
| 36 "    | 2 "    | " 19   | ..... 1.53  | 48 "    | 1 "        | " 20   | ..... 3.62  |
| 48 "    | 2 "    | " 19   | ..... 2.04  | 48 "    | 1 "        | " 19   | ..... 4.30  |

Farmers Nails, mixed, 100 lb. keg, \$1.60. List on request. Do you want our Large General Catalogue on Farm and Household Supplies, etc.?

Wholesale Supply House, Established 1874. A. J. CHILD & SON, 511 and 513 Main Street, St. Louis, Mo.



EDWARD B.  
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Score 96 1/2

BRED AND OWNED BY  
U. R. FISHEL,  
HOPE, IND.

## "The Best in the World"

Not only from a fancy point of view has my claim of above been proven as to my White Plymouth Rocks, but also as a Utility fowl there is none to compare with them. The past show season has demonstrated the fact that in nearly every case and every show the Winning White Plymouth Rocks were direct from or bred from Fishel birds. Dear Reader, why ponder over the question what to buy when

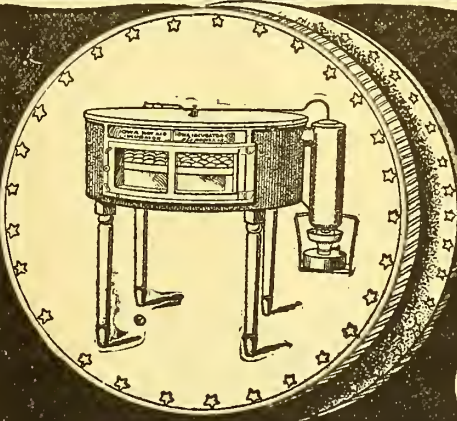
### Fishel's White Plymouth Rocks

have proven themselves the Best, both in the Show Room and as a utility fowl. Take the Winners at Shows like CHICAGO, ST. LOUIS, ATLANTA, LOS ANGELES, INDIANAPOLIS, KANSAS CITY, NEW YORK STATE, GREAT CRYSTAL PALACE AND DAIRY SHOWS, ENGLAND, ETC., ETC., in nearly every case they were Fishel bred birds. I have yet for sale something like 2,000 CHOICE BIRDS, among the number several hundred CHOICE COCKERELS that will breed you winners. Enclose a 2-cent stamp for my 36 PAGE CATALOG. It tells all about the noted Fishel White Rocks.

25 BREEDING YARDS FOR 1904. EGGS \$5 PER 15.

U. R. FISHEL,

→Box K-2, HOPE, IND.



# ROUND

AS A DOLLAR  
AND AS  
GOOD AS GOLD

## THE IOWA ROUND INCUBATOR

The standard of value in an incubator is fixed by the results received from its use by ordinary, every-day people. It is easy to claim everything, but results speak for themselves. We let those who have used the IOWA ROUND INCUBATOR speak for us.

### Read These Testimonials

IOWA INCUBATOR CO.—I am well pleased with your incubators, my best hatches being 225 chicks from 240-egg machine and 49 chicks from my 60-egg machine. I hatched hen, turkey duck and guinea eggs with equal success. MRS. H. P. HATTENDORF.

Geo. T. Ulmer, of the Standard Poultry Farm, Mont Vale, N. J., has one 120 and three 250-egg size. He says: "Its workmanlike construction and pleasing proportions, coupled with its hatching ability, ease of operation, correctly applied scientific principles, invariable, uniform and easily controlled temperature, to say nothing of the entire solution of the vexing moisture problem, stamp the IOWA with 'no cold corners,' as the only reliable incubator on the market."

There is the whole story. Send for our free book, giving full description, prices and many more testimonials.

IOWA INCUBATOR COMPANY, BOX 179 DES MOINES, IOWA





# The Columbia School of Poultry Culture

## Provides Positions FOR Competent Graduates.

The demand for competent poultrymen as managers of poultry plants far exceeds the supply. As fast as our students become proficient we place them in lucrative positions. Here is a letter from a student whom we placed with the famous Lakewood Poultry Farm Company.

Mount Airy, Maryland, Jan. 28, 1904.

The Columbia School of Poultry Culture, Waterville, N. Y.

Gentlemen: I am glad to inform you that I have secured the position with the Lakewood Poultry Farm Company, and want to thank you for the deep interest you have taken in me and the valuable assistance you have rendered.

I am proud of being a graduate of the Columbia School of Poultry Culture.

Since leaving you I have been able to demonstrate how thoroughly practical and up-to-date your teaching and training is. I consider a graduate of your school a full-fledged and self-supporting poultryman.

Again thanking you for your assistance and advice and wishing you continued success.

Sincerely yours,

(Signed) S. C. BARNES.

Our success in teaching profitable poultry raising has been phenomenal. Our faculty is composed exclusively of well-trained educators and experts, who are themselves successful poultry raisers and acknowledged authorities upon every phase of poultry culture.

The various courses are practical and helpful from the very beginning. They cover not only every phase of Poultry Culture, but include Waterfowl Culture, Turkey Culture and Pigeon Culture; also Bee Culture, Horticulture and Dairying in conjunction with Poultry Culture.

The lectures of each course are profusely illustrated with cuts, charts, tables, architects' plans, etc.

The lessons are personal, being specially arranged to suit the individual needs and conditions of each student and any one course or any combination of them can be taken as desired. Everyone interested in poultry, no matter how or where, should take a course with us—it will prove a most valuable investment.

Pupils not only make money, but in many instances have saved the entire cost of a course in the plans supplied for a single building.

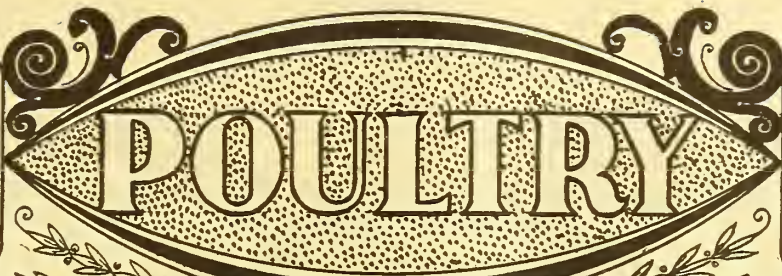
The egg production of their fowls has increased, and the birds have been healthier, stronger and more profitable in every way.

Write for handsome illustrated booklet with synopsis of the various courses. Send for it to-day—it's free.

**The COLUMBIA SCHOOL OF POULTRY CULTURE, Box 640, Waterville, N. Y.**



# THE



A JOURNAL FOR  
EVERYONE  
INTERESTED

# KEEPER

IN MAKING  
POULTRY  
PAY

Vol. XX.

QUINCY, ILLINOIS, MARCH 15, 1904.

No. 12

## BREEDING A FLOCK TO PROFIT AND EXCELLENCE.

Even Ordinary Success in Poultry Breeding Requires Care and Judgment—Improving a Strain By the Selection of Breeders—Developing Egg Production.

Chas. F. Thompson, Lynnfield Center, Mass.

**E**VERY breeder of poultry who meets with more than ordinary success must of necessity adopt some method in improving the strain he keeps. As only by the careful selection of the best birds both for egg production and standard requirements can a flock be kept up to a point necessary to obtain good results. If one is to excel and build up a reputation so that more than ordinary prices may be obtained for eggs and breeding stock, there is much more required than at first

thought would seem necessary.

While egg production should be given first and foremost attention in selecting it is not the most difficult point to attain. The selection of birds true to standard requirements, that will breed their like, requires much more care and judgment, for not only must the birds so selected be the correct type, but to be any way sure of what they will produce the breeder must know their breeding for several generations past, for often a high scoring bird which may by chance come

from poor stock is liable to produce not a single bird worth raising.

Were I to buy a high scoring cockerel I should consider it as important to see the stock which produced him as to see the bird I was buying. Those who buy and pay no attention to previous breeding often throw their money away.

We aim in breeding to produce strong, vigorous birds as near standard requirements as possible as well as good layers of large brown eggs.

Published with this article are views of a portion of our poultry plant, in addition to large houses shown, there are smaller ones located at different parts of the farm, built on the colony plan. All birds that have given good account of themselves during the winter and spring, both for egg production and quality of stock produced, are reserved for next season's breeding pens and are transferred from the long winter houses to the colony houses, giving them free range during the latter



Bird's Eye View of Poultry Yards of Chas. F. Thompson & Co., Lynnfield Center, Mass. This is one of New England's most successful poultry plants. It consists of fifteen acres, located thirteen miles from Boston. It is an up-to-date poultry farm stocked with the best birds of their kind, with an annual output of five thousand birds per year. The varieties are Rhode Island Reds, Barred Plymouth Rocks, White Wyandottes and Rose Comb Leghorns.





View showing part of twenty-four outdoor double section brooder houses at farm of Chas. F. Thompson & Co., Lynnfield Center, Mass.

part of the summer and late into the fall. This carries them through the molting season under favorable conditions and by proper feeding we prevent as much as possible their laying during November and December.

We have found that birds that lay freely during these months will not produce as fertile eggs nor as strong, healthy chicks during March and April as those that commenced later. There is much else of importance necessary to keep a flock up to a high standard which space will not allow our entering into details, such as raising for breeders only such chicks as have been properly incubated, brooded and passed through the first few months without being checked in growth by sickness or other causes. Good incubators, brooders, clean, dry, comfortable houses free from vermin for both young and old stock as well as proper food

are necessary.

Our winter houses as well as a portion of the colony houses are built on the scratching shed plan, facing southeast. The long houses have a walk three feet wide in the rear, with roosting room 8x12, scratching shed 10x12 with one window and two cloth curtains, which are kept open during warm weather and closed in the winter nights and stormy days.

We are probably the largest breeders of Rhode Island Reds in the United States, making a specialty of that breed, hatching thousands which are sold when a week or ten days old, as well as large numbers when fully matured. We also raise and winter several hundred Barred Plymouth Rocks, White Wyandottes and White Rose Comb Leghorns. Visitors who wish to inspect our stock, or plant, are always welcome.



Head of "Lord Chesterfield, Jr." a prize winning Black Minorca owned by C. H. Staunton, Barton Heights, Va.

It will do us all more good than you would think if you always remember, when writing to our advertisers, to mention Poultry Keeper.



View showing one of the long poultry houses at farm of Chas. F. Thompson & Co., Lynnfield Center, Mass.



## SOME PRACTICAL POINTS ON MINORCA BREEDING.

Straight Truths From a Minorca Specialist Who Appreciates the Size, Value and Good Looks of the Minorca Breed.

C. H. Staunton, Barton Heights, Va.

**A**RE you about to start breeding Minorcas? If so, allow me to offer a few words of advice. First of all make up your mind that you will start with only pure, strong, vigorous stock. Do not imagine that because the Minorca is a "solid color bird" that you need not be so careful. If you are going to breed for feather you will find that good foundation stock is very necessary, stock which has been bred for feather for generations back.

If you purchase stock with a pedigree and give them proper care, keep them properly housed while molting, clear them of every louse before entering the molt, do not allow the feathers to become injured during molt and feed them properly, you will find the new plumage jet black, with that beautiful green sheen required by the standard.

If fed irregularly, for one stretch good nourishing food, next food with no nourishment in it and then ravenously hungry, next "off their feed," the plumage will be purple barred and cast with brown and they will be disqualified. If lousy the louse will cut

uses Black Langshans to get size. Buy large birds, above standard weight, and properly mated. The egg propensity should always be looked after but I am sorry to say some breeders are mating for show points only and have lost the egg producing quality to a great extent in their strain.

All who have a good knowledge of Minorcas know there is no better layer and that beside laying as many eggs as any known breed they lay an egg so large that from five to six weigh one pound.

Last year I had a special mating—two pullets and a cock. On Tuesday they laid two eggs. Tuesday night they laid two soft shells from the roost. Wednesday they laid two proper eggs. It wasn't their fault. They just could not help it. It was bred in them to lay and lay they had to.

This is, of course, an exception, but it shows how they keep at it in spite of "accidents." These were White Minorcas and it has been my experience that they exceed the Blacks a little as regular layers but lay a smaller egg. I conclude the White is



"Black Diamond," true Minorca type. Owned by C. H. Staunton, Barton Heights, Va.

the new web to get the blood and leave an open bar in the feather. The judge knows what did it and a cut follows. If you strike a man who has black hair on the head you injure the hair bulb and the hair turns gray. So a pin feather if injured yield a gray and sometimes a pure white.

If you are breeding for size look out for the unscrupulous breeder who

uses Black Langshans to get size. Buy large birds, above standard weight, and properly mated. The egg propensity should always be looked after but I am sorry to say some breeders are mating for show points only and have lost the egg producing quality to a great extent in their strain.

If you expect Minorcas to lay in winter you must give them warm quarters. Lay them right and when they can be bred to reach the weight of eight pounds (in hens) and ten pounds (in cocks) they are in every way a desirable bird to raise.

## HENS ARE LAYING.

Sycamore, Ill., Feb. 7, 1904.

Editor Poultry Keeper.

Having been a subscriber of your most excellent Poultry Keeper for one year I will say it is the best in the land. It gives me just the information I need and it has helped me wonderfully in taking care of my pen of Plymouth Rocks, which is my favorite fowl. There are other breeds just as good, but nothing better. My hens began laying six weeks earlier than they did last winter. Eggs are worth thirty cents per dozen on the market.

I feed my fowls in the morning as follows: To twenty hens, three pints of corn and oats, half of each, a pint of corn meal moistened with hot water, and pepper sprinkled over it. At noon I give about the same amount of corn and oats with some cracklings (about two times a week) and scraps from the table, potatoes and carrots. At night they get two quarts of whole corn. This is all scattered in six inches of straw. I give them plenty of water and oyster shell.

For colds I give them kerosene oil in the drinking water and a small pinch of lime once a month. This warms them up. My best three year old hen hatched out two sittings of chicks and is now laying with a chick under each wing while on the nest. My hens are quite tame and go about their work singing and laying the golden eggs. For fear my letter will be too long will close, with a promise to tell you more about the success I am enjoying.

Wesley H. Gochenour.

## FORMULA FOR MASH FOR LAYERS

Here is a good formula for a mash mixture for laying hens in winter.

For each one hundred pounds take  
 25 pounds mill feed (equal parts of corn and oats ground together.)  
 20 pounds buckwheat middlings.  
 20 pounds wheat bran.  
 10 pounds wheat middlings.  
 10 pounds clover meal.  
 10 pounds animal meal.  
 5 pounds raw ground bone.

Feed mash at either a morning or evening meal and give the whole grain in the litter.

The demand for incubator eggs for winter hatching has begun early. Poultrymen, with the brooders and incubators on hand, see no reason why they should not get the high meat prices of May and June, and this calls for extra-early hatching. Not many men are so fixed as to supply hatchable eggs during January and February but several of our advertisers have succeeded along this line of work in previous years.

If you have never tried the keeping of a hopper of beef scraps before growing chick and laying fowl, do it the coming month. Drop all animal food out of the mash, letting the bird take her supply how and when she desires. It will be good judgment to put along the side of the meat scraps another hopper of cracked corn. The birds are up early these spring mornings and should not be obliged to wait for a late breakfast.



**EIGHTY ACRES DEVOTED TO FINE POULTRY AND FRUIT**  
**A Well-Equipped Poultry Plant in Iowa That Can Stand For a**  
**Model of Its Kind—Description of the Houses and**  
**Their Fixtures.**

J. H. Heath, Imperial Poultry Farm, Valley Junction, Iowa.

**O**UR plant, known as the Imperial Poultry Farm, is located four miles southwest of Des Moines, at Millman, a station on the Chicago & Great Western and the C., B. & Q. railways. The farm is

by two two-inch hot water pipes, which heat the house outside of the hovers. Each hover has 4x10 feet outside for scratching pens. This leaves a space of 2x4 for the hovers.

The brooder house has twelve win-

wood floor throughout. The outside of the building is of No. 1 drop siding, 2x4 studs, lined with heavy tarred felt. The roof is covered with the best grade of cedar shingles. A house like this will accommodate over one thousand chicks at a time.

There is another brooder house 16x50 feet built for chicks taken from the first brooder house. This building has five compartments with roosting houses with each, and can be used for most any aged chick. There are large double doors in the south, each door having a window which is left open in good weather. The roosting part is heated by hot water connected from the brooder house.

**Accommodations for Layers.**

One laying house is 16x50 feet, divided into five pens, including roosting shed with each. This house faces the south, has large double doors with window so as to make it either an open or closed house. The out door runs go into the orchard to the south.

The main house for layers is a continuous house 108 feet in length by 12 feet in width. This house is divided into nine compartments, a roosting and scratching shed with each. All the roosting sheds are built on the inside of the house proper and are double boarded with heavy felt between which makes it extra warm. Each roosting house has a window in the south opposite the outside house window. All ventilating is done by these windows. The south side of the main house is made up of doors, windows and drop doors with windows so as to make either the open or closed house. There are also doors on the inside from pen to pen. The outside runs are to the north which leaves the south side for entering to clean out the roosting and scratching sheds. This is one of the warmest and handiest houses to be had. The building is set on a solid brick foundation and is six and one-half feet at the front, five feet at the back. It has a gable roof nine feet at the peak. The roof is covered with the best grade



Pen of White Plymouth Rocks at J. C. Heath's Imperial Poultry Farm, Valley Junction, Iowa.

composed of 80 acres, devoted to fancy poultry and fruit. The land has a south and east slope, which gives it fine drainage and makes it an ideal poultry farm.

The buildings are all first-class, built expressly for the business. They are scattered out over the farm with large runs into the orchards which give the fowls good range. The buildings consist of the incubator cellar, brooder houses, colony houses, packing house, cockerel house and a number of large continuous laying houses. Besides these there are a number of other buildings, such as barn, buggy and ice house, feed house, etc.

**Description of the Buildings.**

The incubator cellar was built to hold six large size Cyphers Incubators. The cellar is 12x15 feet, set five feet set in the ground with gable roof. The cellar has windows in each end which furnish plenty of ventilation.

The brooder house is 50x16 feet, with boiler house 16x10 attached. This building is heated by one large hot water boiler with capacity enough to heat two such houses, besides a nine-room dwelling. The house proper has a four foot hall running the full length of the building, with doors opening into each of the twelve brooder compartments. Each compartment has a hover heated by four one and one-quarter-inch pipes which are supplied

dows in the south side, one in front of each pen, which furnish plenty of fresh air and sunshine for the chicks. All pens are equipped with grit cans, dust boxes, earthen drinking fountains, etc. This building has a hard



The incubator cellar built to accommodate six incubators—Imperial Poultry Farm, Valley Junction, Iowa.



of shingles taking over 16,000 for the one building. The outside walls are built of No. 1 white pine ship-lap.

Then there is another continuous laying house the same as the one just described, with the exception it is not quite as long, being 84 feet in length. It is divided into seven compartments, the same in size as in the main house.

The third house for layers is 25x12 with gable roof. It is built along the same line as the others.

**Some Special Features.**

All the houses are equipped the same, having droppings board hinged to the walls 18 inches above the floor with roosts set four inches above these. The nest boxes are underneath and are light and movable. The houses are all arranged so as to save time and labor in making the rounds to clean out. All pens are furnished with feed troughs, grit cans, dust boxes and earthen drinking fountains.

In whitewashing the houses we have a Bean-Chamberlin coating machine with hose and spray nozzle attached. This machine carries 150 pounds pressure. Two men operate it and can do more work than ten men with brushes. It sprays the whitewash into all cracks and crevices where it would be almost impossible to reach with a brush.

All our buildings are equipped with electric burglar alarms, it taking over 3,000 feet of copper wire, six large batteries, and one relay besides a numerous amount of fixtures to install the system. Besides the buildings mentioned, the farm also has thirty outdoor brooders and a number of colony houses.

Our specialty is fancy stock and eggs, the breeds being Barred and White Plymouth Rocks and White Leghorns. All stock and eggs shipped from the farm are raised on the place and most of the feed used is raised on the farm. Our water supply is furnished by a wind-mill which pumps the water from a spring to a cistern located on the



Brooder House, 50x16 feet, with boller house, 16x10 attached. There are twelve brooder compartments, with capacity for over 1000 chicks. Imperial Poultry Farm, Valley Junction, Iowa.

highest ground. From here it is piped to a number of hydrants near the buildings. We aim to raise between three and five thousand fowls each year, besides the great number of sittings of eggs shipped out. All visitors are welcome to Imperial Poultry Farm. It is one of our best advertisements to have people see the place.

Poultry Keeper is an old-time favorite and we pay the most liberal commission to subscription agents of any first-class publishing house. We furnish sample copies. Go among your friends who are interested in poultry and see how easy it is to secure a club of five, ten or twenty subscribers. You will be well paid for your time and trouble. Send for samples and try it. Address Poultry Keeper Pub. Co., Quincy, Ill.

**PRETTY GOOD FOR A SIDE ISSUE.**

Pennsville, Pa., Feb. 28, 1904.  
Editor Poultry Keeper.

As I gave a report of my year's work for 1903 I will tell what my birds have done this year. I wish to say that poultry keeping has been a side issue with me. My occupation does not require all my time and poultry seemed to be my hobby. I concluded to try the business for pastime.

My expectations were value received, and I found pleasure and profit, so much that I will increase my stock each year. Last year my stock consisted of three pens. For last year's report refer to Poultry Keeper, December issue, 1902.

This year (1903) I had five pens, three Barred Plymouth Rocks and two White Wyandottes, sixty head. During the year these sixty birds laid 6,898 eggs. The exact figures are as follows:

|                               |          |
|-------------------------------|----------|
| Eggs sold at store .....      | \$ 94.88 |
| Eggs used at home .....       | 30.01    |
| Sold 10 sittings at \$1 ..... | 10.00    |
| Sold poultry .....            | 67.54    |
| Used poultry .....            | 11.85    |

|                     |          |
|---------------------|----------|
|                     | \$214.28 |
| Paid for feed ..... | 79.28    |

Profit .....

.....\$135.00  
In last year's report I estimated the value of my pullets that I kept over, which I have omitted in this year's report, as I thought it was out of place. The coming year I will have six pens, seventy-two birds. All hatching and brooding was done by hens. Three hundred eggs were set and two hundred and sixteen chickens raised.

Yours for success,  
H. E. Harris.

Doubt should never be suggested in an ad or in connection with advertised interests, either by the advertiser, the editor, or contributors. Doubting is a business which belongs exclusively to the public; they should be allowed a full monopoly.



\*One of the laying houses at the Imperial Poultry Farm, Valley Junction, Iowa. There are four of these houses with size and pens as follows: 108x12 ft., 9 pens; 84x12 ft., 7 pens; 50x16 ft., 5 pens; 25x12 ft.



## TOULOUSE GEESE; MATING, CARE AND FOOD.

### The Egg Laying Season—Hatching and Caring for Young—Habits of Geese During Breeding Season—Food For Different Seasons.

Mrs. E. E. Dalton, Parkersburg, Ill.

"On St. Valentine's Day  
The old gray goose begins to lay."

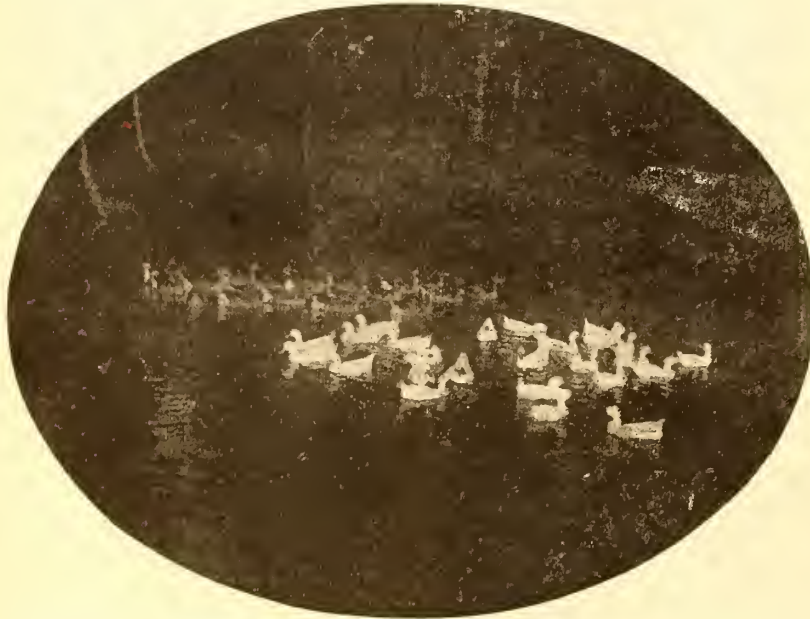
**W**E had great faith in this homely old couplet, but it was rudely shattered last February. For the first time our geese failed to commence laying the middle of February. We had over a week of very cold weather at that time, and we supposed that was the reason. It seemed at the time another proof that the goose is the wisest of our domestic fowl. But spring came and went and our geese had laid only about thirty eggs apiece—the first time we ever received less than fifty eggs per goose.

We had company in our misery. Customers from various localities wrote us that geese were not laying well, and the eggs were not hatching

#### Picking the Feathers.

We never pick our geese until after they are a year old, and we seldom pick them then. This may be the reason why our "gosling eggs" hatch. People near us have raised geese from our eggs, picked them that same year, and set their eggs the next spring. The results have been poor hatches, sometimes none of the eggs hatching.

We think there is more profit in meat than in feathers. We sold twenty goslings the first week in June that averaged eight pounds apiece. We have had them to weigh twelve pounds when nine weeks old. Like ducklings the early hatched ones grow faster than late ones.



Pekin Ducks and Toulouse Geese, from photograph taken by Mrs. E. E. Dalton, Parkersburg, Ill.

well. The eggs our geese did lay were all right but we didn't get enough of them. I have just been reading James Rankins' "Duck Culture." He says, "Cold feet affect the winter laying of the duck the same as a frozen comb affects a hen. It stops the egg production at once." Now, I wonder if the cold coming just at the time for our geese to begin laying did cut the egg production nearly one-half.

The popular belief that eggs from goslings (geese not a year old) will not hatch has not proved true in our experience. Eggs from our young geese hatch as well as from our old ones. As the eggs are smaller the goslings are smaller when hatched, but they are just as strong and grow so rapidly that in a short time they can hardly be told from the others.

#### Feed for Young Goslings.

We treat goslings the same as ducklings except that we pen them only a few days, while ducklings are kept in small inclosures four or five weeks. We never bother with hard boiled eggs chopped fine, bread crumbs soaked in milk, etc. We give them ground feed three measures of bran, one of shorts, one of corn meal; mix soft with milk if you have it, and put a little sharp sand or fine grit in for the first two weeks.

#### When and How to Feed.

We mix the feed with water and add a little meat meal the first two weeks; after that beef scraps until they are feathered. It is better to soak the scraps before mixing. Keep sharp gravel, coarse sand or the chick size of grit where they can get it. I

like to have a pan or box of sand near their feeding place and keep it wet.

Four or five times a day is often enough to feed them the first week or two; then three times a day. When five or six weeks old two meals are sufficient. If they have good pasture they will seldom wait for breakfast, but it is best to give them a little or supper.

#### Must Have Grass.

Grass is absolutely necessary for them, and they should have it from the very first; but don't expect them to live on it. They can do so, but they cannot grow into large geese on grass alone.

#### When to Put on Range.

When the goslings are fully feathered (rather when their backs are covered with feathers) they will need no more shelter. This is at about six weeks if they have thrived. When they are small we use boxes for them laid with one side on the ground. Tack tarred paper on top to keep the rain from soaking in. Nail lath or boards part way down the front. When the weather is cold and rainy we sometimes throw an old piece of carpet or burlap over the front.

#### Habits of Geese.

A great many people seem unfamiliar with the habits of geese. Not long ago we received a letter from a gentleman inquiring about the price of six Toulouse geese and one gander to be shipped in April or May. Some recommend an equal number of geese and ganders; four geese to one gander is the highest number I ever knew to be given for the Toulouse.

Geese shipped in May or even in April would give little or no returns to the buyer that year. The laying season is almost ended by June. Geese mate in January and are usually much attached to each other. Each gander with his mate or mates keep close to one another and at a little distance from the others.

#### The Domestic Gander.

The gander is as interested in choosing and making the nest as the goose. He often accompanies the goose to her nest and stays near until she leaves it. He is very willing to fight anyone or anything that comes near. When two or three geese mate with one gander they often have but one nest. When the laying season is over they all go again in one flock.

Our geese never sit, but they seem very interested in the little goslings. They stretch their necks, look through the fence at them and make a great ado. When the early goslings are large enough to be turned into the field with the geese, they are received with much rejoicing. But I am very sorry to say the later ones are not received so kindly.

#### Hatching With Hens.

We have learned that a hen should not be given more eggs than she can cover easily. Last spring a good sized White Rock pullet would come in the yard and make her nest among the hollyhocks. In May she wanted to sit. The weather was warm, she was large and I gave her six goose eggs. We had five goslings, but the last was hatched four days later than the first,



## THE GROWING OF PEKIN DUCKS.

### How to Feed When First Hatched—Preparing For Market—Curing the Feathers—Rations For Ducks at Different Seasons of the Year.

Frances E. Wheeler, Clovernook Duck Ranch, Chazy, N. Y.

and one egg was rotten. If I had given her only five eggs we would probably have had five goslings hatch within a few hours. They hatch in from twenty-eight to thirty days; like all eggs a little sooner in warm weather. Ducklings and goslings both pip the shell forty-eight hours before they hatch.

#### Destructive to Young Trees.

We have not found Toulouse geese destructive to pastures, but they will kill young trees. They bite the bark off and soon have the trees girdled. Their bodies are so neavy that they cannot fly, and they are even easier to fence against than hogs.

#### Food for Different Seasons.

I have never heard or read of giving geese animal food. But our geese are fed with our ducks and receive the same food. From June to January this is three measures of bran, one of meal and one of shorts mixed soft with water. From January until June two measures of clover and one of meat meal or beef scraps are added. In cold weather corn on the ear is fed once a day and sometimes twice. Keep grit and oyster shell where they can help themselves. We sometimes throw wood ashes where they can get them; the more charcoal they contain the better.

Give the breeders all the free run possible. The first grass that grows soon disappears when the hens have access to it. If not free range, then make large yards that will hold the green crop through the season. The bird that is not confined will stand a lot of poor food and bad care. At the same time, good food and proper care, combined with freedom of range, will give fertile eggs that produce the winning chick.

It will help everybody concerned if you will remember always when writing to our advertisers to say, "Saw your ad in Poultry Keeper."

PEKIN ducks, and the ways of ducks, are dear to the heart of Clovernook's mistress and she never really wearies of writing and talking about them. Though occasionally there dawns a dim sense that to some people she is a bit of a bore; she is sufficiently optimistic to hope herself mistaken, and so cheerfully continues, as opportunity offers, to exploit her favorite subject.

The fact is, ducks in one respect are like the children of the present day. "You've got to know how to manage them if you want to get along with them." They have a prompt and serene way of turning up their little toes in protest against certain treatment that is simply appalling. And, on the other hand, when matters work just right, they are so exceedingly fascinating and satisfactory, an investment that we wonder (after we have caught a bit of the "know how") that former disasters and discouragements ever occurred.

#### Food for the Growing Time.

Of course, as regards the basis of a good season, like all other branches of poultry culture, it rests on healthy, well selected and cared for breeding stock. Birds of symmetrical form, deep chested, legs well apart, large feet and bill, clear eyes and shining white plumage. These birds have not been fattened for market, but from their infancy were fed for frame and vigor. They had broad pasturage, water privileges and clean, dry, well kept

housing at night and during heavy storms.

They were fed during the fall and winter and up to within about a month of the time eggs are needed, one-quarter part corn meal, one-quarter part wheat bran, two-fourths part brown middlings. To this we add in bulk one-quarter steeped clover and mix with it ten per cent of sand. Each birds eats about a half pint of this warm mash night and morning. They are fed what they will eat up clean and quick; are given water with each meal and at noon a light feed of cracked corn. During the winter and pleasant weather, they are kept out of doors.

#### Ration for Egg Laying Time.

When preparing for eggs the food is changed. To one-quarter corn meal are added one-quarter ground oats, one-quarter wheat bran and one-quarter brown middlings. To this are added the one-tenth-beef scraps (to every nine parts of ground grain add one part beef scraps), the steeped clover and sand already described. This diet is continued during the entire breeding season and after the change, usually in about two weeks, the eggs begin to roll in.

#### Hatching and Care of Young.

At Clovernook we do not begin hatching until March 1st, which brings our ducklings out the last day of the month. We are late, owing to the severity of our northern climate, but are in time for the summer hotels, our customers. Though our brooder houses



First and second prize winning White Wyandotte cockerels at Sanatoga, Pa., 1903. These two splendid birds were bred and exhibited by W. W. Kulp, Pottstown, P. a., a fancier who is noted for the excellent and practical quality of his stock.



are built very warm, we require a stove fire during April and our babies don't get into the yards till a month or so old; for though the sun is warm, there is a chill in the wind fatal to such infants. Indoors they have a good sized space to run and we keep the temperature about 60 degrees. When they are well dried off in the incubator, and the brooder registers ninety degrees the ducklings are carefully transferred to it and in twenty-four hours offered sand and water. We are careful to keep the temperature not

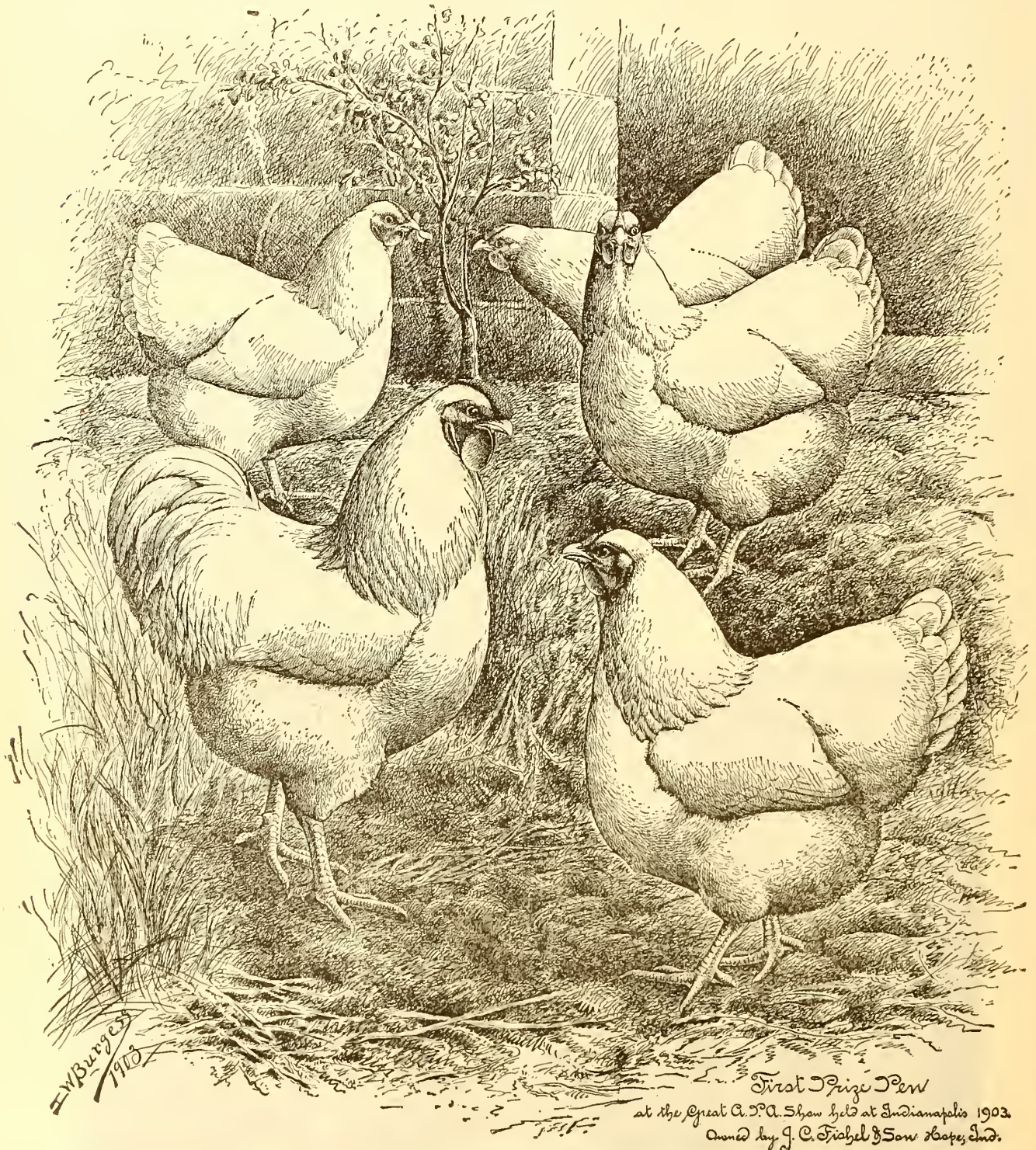
over ninety degrees during the first week, and gradually lower it five degrees each succeeding week. **Losses From Overfeeding and Changes in Temperature.**

Regarding feeding. At Clovernook, as before suggested, overfeeding and sudden changes of temperature caused most of the deaths. After the stove was in and the houses were kept comfortably warm, the brooder heat regulated carefully, only fifty birds kept in a brooder, and the sand and water diet given, followed the night of the

third day by a mash feed of one part corn meal, two parts brown middlings, four parts wheat bran, one-tenth hard boiled, fine chopped eggs, and one-tenth sand, we found very few losses, as compared with the past, and many entire hatches were raised with scarcely a single death.

#### Extra Precautions.

The above food ration we feed for the first month four times a day, keeping fresh sand and water before the ducklings. We only give what they eat up clean and quick and never leave



[ Magnificent Group of White Wyandottes, winners of First Prize pen at Indianapolis last fall. These birds are owned and were exhibited by J. C. Fishel & Son, Hope, Indiana, specialists of this variety and show the strong type for which the "Fishel" strain of White Wyandottes is noted. ]



stuff around for them to pick at, and are careful to have no sour eating or drinking vessels around. Also during warm weather after feeding the birds are provided with shade, as they cannot stand strong sunshine. It produces vertigo, blindness and death. We also run them in out of rain showers, till their breast feathers are grown, and house them during cold storms.

#### As Market Time Nears.

From four to eight weeks old the ration is, one part corn meal, two parts brown middlings, three parts wheat bran, and one-tenth beef scraps, and to this add in bulk about one-third of fine cut green clover.

From eight weeks old till marketing we feed two parts corn meal, one part middlings, one part wheat bran and one-tenth beef scraps. We market at between ten and twelve weeks old.

#### Manner of Killing.

The birds are sent to the river to clean up, brought up to the killing pen and my man catching a bird and giving it a sharp blow on the head, holds the duck firmly between his knees, opens the bill, inserts a long thin bladed knife back, up into its brain, draws it downward and with a quick turn, cuts the jugular vein. After it has bled profusefly, and while warm, it is quickly plucked.

The fine feathers and down are kept apart and spread on the floor of our loft, a dry, clean, airy room, where they are stirred once or twice a week. In a month or a little over, they are ready for market.

#### Dressing for Market.

In preparing the birds for market, we pluck about half way up the neck, and to the end joint of the wings. The birds are then plunged into cold spring water, and in about two hours it is changed. When the animal heat has left the bodies they are drained dry, weighed and packed in cold, dry straw, no two birds touching at any point. The boxes have air holes in sides and top. This method answers well on night express and for a twelve hour trip or longer.

#### Profits Duck Growing Offers.

Ducks are certainly easily raised and are as profitable as any branch of the poultry business. They have their own ways and their own market, both of which must be catered to. To procure satisfactory returns from a small ranch it is necessary to work up a reliable local trade; also for feathers, which are an important item.

#### A Bit of Advice; With a Moral.

Ducks are especially adapted to a small place; as they grow quickly—do not require much room. It is well to go, at the start, a little slow till the knack of carrying them safely through the critical points is secured and the market is assured, then gradually increase. It is a good thing to plan ahead for the end of the trip.

This bit of advice is plucked from the wing of experience, for one or two of Cloverhook's exploits remind its mistress of an anecdote told of Huxley. Entering a cab, hastily one day, he asked the owner to drive fast. The man started off at a breakneck gallop. "Do you know where you are going?" shouted Huxley at him, through the

window. "Faith, I don't sir," replied cabby, "but I'm driving fast."

#### TO KILL HEAD LICE ON CHICKS.

New Orleans, La., March 3, 1904.

Editor Poultry Keeper:

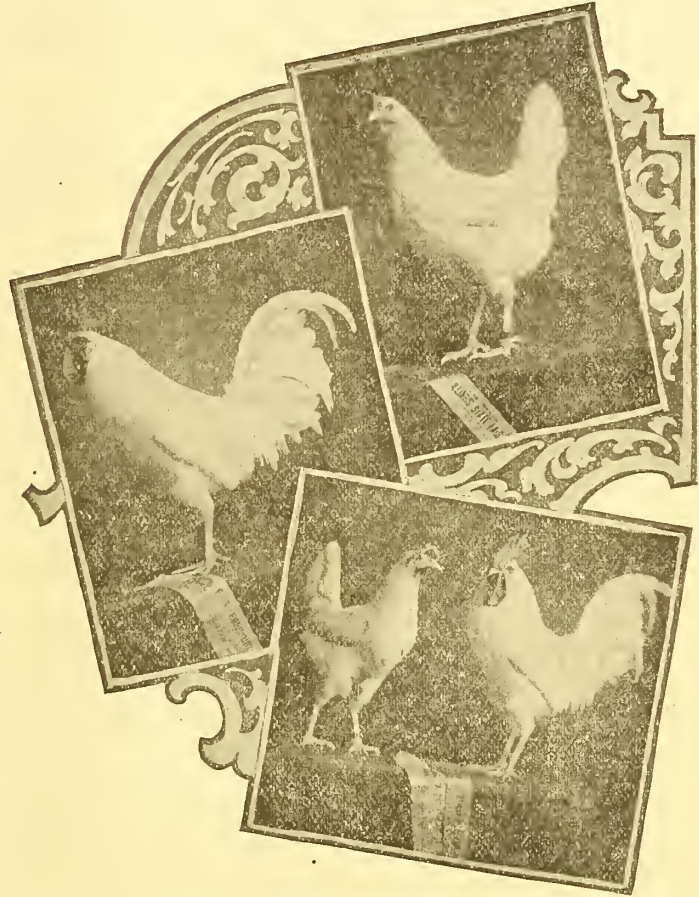
Several letters appeared in the Poultry Keeper for the past year asking how to kill lice on young chicks' head. I thought I would help them so far as I can, because I am certain that the way I do, is the best mode I have ever heard of. In the first place have a small brush (painter's brush), carbolic soap and warm water ready. Put the chicks in a basket or box, take hold of each chick, dip the brush in the water

#### COMPARATIVE WEIGHTS OF EGGS.

Editor Poultry Keeper.

I notice that you say on page 439 of your January issue that there is "little difference in the weight of eggs laid by the best laying strains of the various breeds."

I register a complaint. I am a breeder of Black and White Minorcas and I claim there is no other breed of fowls that will lay so large an egg as the Black Minorca. My hens are laying eggs five of which weigh 16 ounces, or one pound. Now if you



An attractive group of Single Comb White Leghorns, bred and owned by Anna L. Pinkerton Co., Hastings, Neb. The pullet won four first prizes at Iowa, Nebraska, Kansas and Illinois State Fairs this season. The cock won first in pen at Iowa, Nebraska and Kansas and second at Illinois State Fair. The pair won the blue ribbon at the great St. Louis Fair, 1903. This company makes a specialty of White Leghorns and White Wyandottes, and manufacture the Pinkerton Chick Food. Their new catalogue is attractive and helpful.

and rub it on soap, and brush well on the chick's head, and also along its wing. Return it to its mother. Do each chick in the same way. Mind you do it gently and quick. Either their mother or brooder or the sun will dry them.

In the summer I washed their heads when they were one or two days old, but in winter I waited until they were five or six days old. Wash their heads with carbolic soap water once a week until you are sure there is no more lice on them.

Mrs. J. J. L.

Don't delay getting in your order for stock. Time is near at hand when breeders will be mated for the season.

know of any other breed that lays eggs of that weight let me know.

C. H. Staunton.

Bartou Heights, Va.

If your best breeding yard contains one or two extra fine females plan to hatch all of those eggs and mark the chicks that you may line-breed another year. Find some way to get those choice eggs as they are worth more than all the others. Better do all your breeding from a few extra fine birds than to fill up the pen with second quality stock. The man who will do this as we suggest will soon become known as having superior stock. There is plenty of the common line of birds, but quality in poultry is hard to find and is worth the price asked.



# POULTRY KEEPER,

A JOURNAL FOR EVERYONE INTERESTED IN MAKING POULTRY PAY.

ISSUED THE 15TH DAY OF EACH MONTH BY

POULTRY KEEPER PUBLISHING COMPANY,  
(INCORPORATED)

QUINCY, ILLINOIS.

## SUBSCRIPTION PRICE.

Fifty cents a year; Single Copies 5c.

## FOREIGN POSTAGE.

Thirty-six cents a year additional

Entered at the Quincy, Ill., Post Office as Second Class Matter.

Remittances should be made by Draft, Money Order, Express Order or Registered Letter. Small sums will be accepted in United States one or two cent postage stamps.

Change of address—When this is desired, be sure to give old and new post office addresses.

All subscriptions invariably discontinued at expiration. Subscribers will confer a favor by reporting to us any irregularities in receiving the Poultry Keeper.

Advertising rates made known on application.

Poultry Keeper readers are cordially invited to express their opinions on any subject of poultry that will be of interest to our readers; give helpful talks to the inexperienced, and ask questions in any department.

F. PIGGOTT, Editor.

Associate Editor, DR. N. W. SANBORN.

**X** When a subscriber finds this item marked with an X in blue pencil, he will know that his subscription has expired. We invariably discontinue sending the P. K. when a subscription runs out, for we have no way of knowing that a person wants it except by receiving his or her renewal. We urgently solicit a prompt renewal, on the ground that the paper is worth the money. We are trying month by month to make it better and better.

TWENTIETH YEAR  
VOLUME.

MARCH 15, 1904

NUMBER 12

## BETTER POULTRY. MORE OF IT.

Is Poultry Keeper wrong in urging from month to month that its readers should work for better birds and more of them? If so, then we read the desires of the writers of many letters that come to us with blinded eyes. Over and over again come to us earnest inquiries as how to improve stock and increase the per cent of chicks raised. We know that our subscribers are not satisfied with the standard of the birds they have, and with the results of each season's labors, and are anxious to do better work toward the keeping of better birds and getting a larger cash return for the labor of the year. It is along these two lines we wish to advise more effort.

Better poultry does not mean the getting of some variety different from that now in your yards. It may be that such a change would be to your advantage but we preach this month the improving of the flock of birds now on hand. Let this improvement be first of all along utility lines. A dozen more eggs per bird a year, or the gain of a half pound of flesh at no higher cost, is worth more to the poultry world than a farm of "stay white" Wyandottes.

Give more attention to size and shape, and less for the present to color of feather. Above all, use for breeders birds that in vigor and health are beyond criticism. Whether you are the breeder of New York winners or the owner of a large egg producing plant let vigor be the first requirement of your breeding birds. To this, add the other points you are striving for, from year to year, and our word for it, you will be near the top of the ladder when you least look for it.

More poultry! A few more hens to set, a new brooder added to the few in use, a larger incubator, call for very little more labor or money. You can do this and have more cash on hand at the end of the season and during the time of next winter's high egg

prices. Is there danger of lowering the prices of eggs and poultry? We see no indications of this kind. High prices will rule for years to come and we desire that our readers should prepare to have a hand in the producing of better poultry and more of it, as well as sharing in the financial part of the business. S.

## THE EARLY CHICK.

We are learning a lesson this year that may be a blessing if we follow its teaching. The early chick is the one that matures in the fall in time to lay the winter eggs. Too many late hatched chicks were in the breeders' yards last fall. The proportion of early chicks was too small for a good winter profit. The season has now come when every reader should get his birds to sitting. The more chicks you can get hatched the next six weeks the larger will be the returns of the financial year. Birds are now at their best. Hens and pullets are laying as well as in any month of the year and it is nature's time to incubate for the season's hatch. Get your orders into our advertiser's hands as early as possible that they may fill your order at the date you name. It will be helpful to all concerned if you will mention Poultry Keeper in writing to any advertiser. We believe the statements in all our columns, reading and advertising, are to be relied upon.

If you are to use your own eggs for hatching the early chick let them be from a few of your best birds. Do not think you can make much improvement in your birds by breeding from all eggs laid on your place. Even though your male bird be near perfection do not set all eggs of the flock. Pen this nice male with a dozen, or less, of the best females you can pick out and do all your hatching from these few superior birds. Do this at once. Get out all the April chicks you

can, stopping when you have hatched the number required to fill your needs. Hatch what you can take care of, no more, and have them grow through the coming months without a drawback, that they may mature in time to become your flock of winter layers. The man who does not get winter eggs tries to make light of it, but really he knows that he would like to bring in that "hatful of eggs" that his neighbor gets, day by day.

So get to work at an early date, save your best eggs, buy of some good poultryman, at any rate put under your broody hens the eggs that are to hatch the early chick. Then we will be with you during the months of care and feeding that these chicks may mature in such a condition as to give you the best money birds you ever wintered. S.

## BONE CUTTERS AND GREEN CUT BONE.

**I**F fowls are supplied with green bone they will lay, and the bone will cost less than grain. It pays, because the poultryman by using green bone will get two eggs from each hen instead of one. Green bone also contains a proportion of meat and provides the mineral matter for eggs. By procuring a green-bone cutter the poultryman can pay for it in a short time from the saving of food and the increased number of eggs, and the one who has no bone cutter is in the predicament of one who attempts to grow wheat without a harvester. Green bone is a complete food. It contains the nitrogen for the albumen, the phosphate of lime for the bones of the chicks, and carbonaceous matter for the yolks.

While a bone cutter may cost a small cash sum at a start in procuring it, yet it forces the hens to bring back cash returns daily as a reimbursement for the outlay. It is a matter of eggs or no eggs. One may feed all the grain possible, but grain is not a complete egg-food. A pound of cut bone to sixteen hens once a day will cost about one cent, and will be worth ten pounds of grain, so far as egg-production is concerned. Grain exclusively is a detriment to laying, because it warms the body, providing only a portion of the essential elements necessary to egg-production, and is lacking in the substances that form the albumen, shell, etc.

When the hen is deprived of a sufficiency of all the elements necessary to produce eggs she will lay only as many eggs as she can supply the albumen therefor. With plenty of corn she is provided with the elements for the yolk and to warm her body, such elements being known as carbonaceous. If the carbonaceous elements are proportionately balanced by the nitrogenous materials (cut bone, etc.) the hen will lay nearly every day, and will not become fat; but if she is fed liberally with corn, and is not given enough of the other foods, she will not lay so frequently, hence the loss of carbon in the form of eggs will be reduced, and the excess of carbonaceous matter is then stored up within the body as fat.

She may be apparently not too fat, and she may lay fairly up to the ave-



rage, but if the carbonaceous material is not balanced with the proper proportion of nitrogenous material she will soon become fat and this may happen gradually as she may lay a sufficient number of eggs to prevent becoming very fat until she has done fairly well. But sooner or later she will cease to lay, succumbing to a natural law of supply and demand—not being able to produce something for nothing—the corn being useful in protecting her from cold, and serving as a valuable assistant in the production of eggs; but being deficient in lime and nitrogen, the poultryman sustains a loss because he does not fortify the corn with nitrogenous foods.

While cut green bone is perhaps the best food that can be used for laying hens, and is also the cheapest, yet there is a way to feed it. There are different kinds of bone, some being better adapted to the use of poultry than others. It is a mistake to use fat and marrow with the bone. It is true that it is not an easy matter to get rid of such adhering materials, but it would be well to always endeavor to secure bones with lean meat adhering. Avoid fat as much as possible, as the fat is not only undesirable but often injurious when the hens are in high condition.

Bones are intended as nitrogenous and not carbonaceous. Grain will supply all the carbonaceous matter needed, and bones should contain as little as possible. Bones supply mineral matter and are digestible. They are largely composed of lime (being phosphate of lime) and are far superior to oyster shells, because the bone serves as food, which is not the case with shells.

One pound of cut green bone for sixteen hens once a day will be sufficient, and the more lean meat on them the better will be the results obtained.

The incubator catalogues this season far excel anything issued in this line heretofore. They are proof positive that the incubator and brooder factories are among the substantial industries of the manufacturing world. This month is the time of the year to study these catalogues and select the machine that suits your purpose so that the order may be placed with the manufacturer before the great rush comes on. You will find every standard incubator well represented in our advertising columns. Each make of these machines is good and we guarantee the manufacturers to give prompt and honest attention to every order they receive. If you will mention Poultry Keeper when writing you will get the best service. Copies of catalogues are gladly sent free by the manufacturers to those who request them.

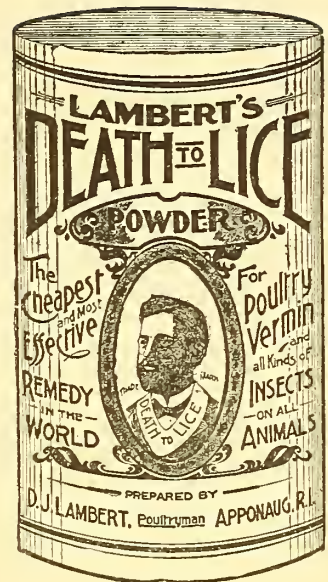
**"LITTLE CHICKS."**

The newest book on poultry is "Little Chicks," edited by the veteran poultryman, Michael K. Boyer. The book contains 170 pages and cover, is well illustrated and is a complete treatise on the successful care of chicks, by both natural and artificial methods.

The price of "Little Chicks" is 50 cents per copy. For 80 cents we will furnish a year's subscription to Poultry Keeper and send a copy of "Little Chicks" postpaid. Address, Poultry Keeper Pub. Co., Quincy, Illinois.

*"Success With Poultry" is worth more than all other poultry books put together if you want to learn how to make money with poultry. Price of book, \$1.00. For that amount (\$1.00) we send book post paid and full year's subscription to the Poultry Keeper. This is the biggest value ever offered in poultry literature.*

On account of the name "Ideal" having been used and copyrighted by another concern making incubators and brooders, the Ideal Brooder Co., of High Point, N. C., have changed the name of their brooder to the "Sunny South" and the name of their firm to the "Sunny South Brooder Co." These people make an excellent brooder and request P. K. readers to send for their catalogue. It is free.



**To Readers of Poultry Keeper**

Greeting!—Poultry keepers ought to enjoy the very severe winter, because the cold weather has enhanced prices for eggs and poultry, so that those, who have given their birds good care, have been well paid for their trouble. Hatching is necessarily delayed and Spring chickens will be scarce and high priced. It will pay those who are fortunate enough to have any to do all that they can to keep them growing.

Breeding stock has been confined so closely on account of the ice and snow that they will be as lousy as beggars unless something has been done to keep them clean. If they are left alone now, they will not lay many eggs, hatches will be poor and the chicks will die or grow very slowly, never properly maturing.

You can get lots of remedies for lice, but many of them will injure the birds in some ways, soil their plumage, taint their flesh or kill the chickens when they hatch in it. If you want to do things right, get the right kind of things to do them with. The right remedies for lice are Lambert's. You make no mistake in using them freely. You cannot lose a cent, if they do not do good work after using enough of them, you can have your money back, no matter whether you have a package or a ton.

There's nothing so popular for use on sitting hens as Lambert's Death to Lice Powder. You can fill their feathers full, put it in the nests, on the eggs or anywhere except in their feed without injury to anything but lice. There's nothing handier. We mail it in 10c, 15c, 40c and \$1.00 packages, or you can purchase from your dealer. There's nothing that works quicker. The lice disappear while you put it on the hen. All sitters need it. All sitters must have it to do their best.

Little chickens often have head lice. These little blood suckers fasten themselves upon top of a chicks head and stay there as long as there is any blood in their victim. Lice kill more chickens than disease. When the youngsters do not grow, it pays to look on top of their head and see what you see. Death to Lice Ointment applied at night will work while they sleep so they will come up to breakfast bright and chipper in the morning. It never injures the chickens. This mixture recently improved. Trial size 10c; large size 25c, postpaid.

MY POCKET BOOK Pointers for 1904 will be ready for mailing this month and will be sent to all customers and applicants who mention this paper.

Yours truly,

**D. J. LAMBERT,**

Box P, Apponaug, R. I.

March 1st, 1904.

**OUR BEST CLUBBING OF FERI**

**Farm Poultry, Poultry Keeper** } The great semi-monthly poultry paper of the east \$1.00 } Both \$1.10  
 } The greatest practical poultry paper of the country.... 50c }

Offer good for renewals as well as new subscription. This is the strongest combination ever offered. Address, Poultry Keeper Publishing Co., Quincy, Illinois.

**1904 WHITE LEGHORNS** **WE SELL EGGS** **NEW YORK PRIZE WINNERS**

THAT HAVE PRODUCED WINNERS FOR YEARS AT THE LARGEST SHOWS OF THE COUNTRY—OVER 3000 HIGH CLASS BIRDS IN OUR YARDS. PART BRED FOR FANCY EXHIBITION POINTS, OTHERS FOR LAYERS, PRODUCERS OF LOTS OF EGGS FROM SELECTED LINE BRED STOCK.

**WHITE LEGHORNS, BARRED PLYMOUTH ROCKS, WHITE PLYMOUTH ROCKS, WHITE WYANDOTTES, BLACK MINORCAS, LIGHT BRAHMAS** ALSO ANGORA GOATS AND RAT DOGS.

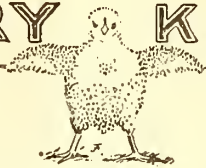
**EGGS** SPECIAL MATINGS RECORD BIRDS \$5 PER 12 STRAIGHT GRAND SHOW STOCK \$3 PER 12 \$5 PER 24 \$15 PER 100 LAYERS \$2 PER 12 \$8 PER 100 \$70 PER 1000 OR CHICKS RIGHT FROM THE INCUBATORS 15 PER 100 LAYERS

**Elm Poultry Yards, HARTFORD, CONN.**

36 PAGE CATALOGUE FREE



## SUCCESSFUL POULTRY KEEPING



(This department is devoted especially to the cause and effect which bring about the best results in the breeding, feeding, care and management of standard-bred chickens, turkeys, ducks and geese. We will discuss subjects by request, answer questions and offer information to Poultry Keeper readers through this department. Address communications to Editor Poultry Keeper, Quincy, Ill.)

### RAISING OF BROODER CHICKS.

Great Problem With Incubator Operators Is How Best to Care for Chicks When Hatched—Transferring From Incubator to Brooder—When and How to Feed.

Dr. N. W. Sanborn, Bellingham, Mass.

THE average poultryman is not getting the good results that he should out of the brooder flock. He does not raise the proportion of chicks to the number committed to it that he should. He has a useful ally in the modern brooder that he ought to make more of in his poultry work. Let us look then at some of the points of a good brooder, before we say anything of the chicks themselves.

#### Points of a Good Brooder.

To raise chicks as well as does the mother hen, the brooder must maintain an even heat and supply an abundance of fresh warmed air. Most brooders will keep the chicks warm but many do not force in plenty of pure warm air to the chick chamber. The brooder illustrated in our January number, and working plans given, is so made as to give a constant current of fresh, outdoor air, well warmed, flowing through the "mother" all the time, both day and night. A brooder that depends upon the change of air that may, or may not, work its way through cracks or cloth of the brooder seldom does good work and fails when it comes to raising first quality chicks.

Hot water and hot air brooders are both popular, but the demand seems to be for the hot air brooder. Sometimes a hot water tank is used for the top of the "mother" to radiate heat to the bodies of the chicks, while a tube around the lamp chimney is used to force a current of hot air into the chick chamber. This method is all right and is winning many friends on the large market poultry plants.

#### Shelter for Brooder.

The brooder that is giving good re-

**A \$1,000 EGG**  
and "MANDY'S Poultry School" are two valuable poultry books telling how to raise poultry for profit. The first contains an Egg Record, Calendar, etc., and tells how a young girl paid off the mortgage on her father's farm. The other describes the actual daily work of a successful poultry raiser and gives pointers not to be had elsewhere. Send stamp for free copy of either book.  
**GEO. H. LEE CO. Omaha.**

**PEEP-O'DAY**  
Sitting Coop No. 1.  
This little coop is just the thing for Biddy and her brood. She is securely to her duty while sitting, though she may get out into the small yard for air. This coop has become very popular. It is 18 in. square; yard, 18 by 24 in. Made of 1 in. white pine and painted with two coats. Shipped knocked down, put together with 12 screws.  
**PRICE \$2.00.**  
Orr's Mills, N. Y., June 29, 1903.  
Cornell Incubator Mfg. Co., Ithaca, N. Y.  
Gentlemen:—They are satisfactory indeed, and I feel positive I will want more next season. They beat anything I have seen for bantams, and I must congratulate you (and myself also) on the coops. If this testimonial is of any use to you, you can use it in any way you wish, as it is written without request.  
D. LINCOLN O'R.  
**CORNELL INCUBATOR MFG. CO.,**  
Box 11, Ithaca, N. Y.

## CHAS. E. THOMPSON & Co.

Box 6. LYNNFIELD CENTER, MASS.

**COCKERELS FOR SALE**—Rhode I. Reds, Barred Rocks, White Wyandottes, Rose White Leghorns Largest Breeders of Reds in United States. EGGS \$1 A SITTING. \$6 PER 100. PRIZE WINNERS \$2 A SITTING. \$10 PER 100. Per cent of fertility guaranteed. Send postal at once for our 24-page catalogue. Latest official standard of REDS FREE if requested. Strong healthy, vigorous birds, heavy layers of large brown eggs. If you want cockerels to win prizes write us for prices; we have them suitable to win at any show. Call and inspect our stock; visitors always welcome.

## Grasp the Opportunity Now.

Prosperous Poultrymen admit a thorough knowledge of hatching, brooding and feeding poultry must be acquired before success with poultry can be expected. These men have studied and experimented for years to attain their knowledge because of no place where it could be acquired. This was but a short time ago. Now you can

### Study Poultry Culture

easily and conveniently in your home for we have a School, a Correspondence School on Poultry Culture. You receive instruction direct from half a hundred of America's most expert poultrymen. Important topics at hand are Natural and Artificial Incubation; Brooding; Diseases of Poultry and How to Prevent and Cure Them and Poultry Farming are treated in order by Henry E. Moss, William C. Denny, Dr. N. W. Sanborn and Thomas F. McGrew. Other subjects are treated by other leading experts.

**Our Free Prospectus** develops fully our entire plan. Gives details as to courses, instruction, terms, names of faculty, etc. Mailed free to anyone on application. Write for it. It points the way to profit in poultry raising.

**The American Poultry Institute, Dept. P-13, Rochester, New York.**



suits is so placed as to hold an even heat day and night. A thin, single case brooder should never be placed in the open air at any time of the year. It needs protection from the heat of noon and the cold winds of night. A brooder that is too hot at noon and too cold at night will not give satisfactory results to anyone. The best brooder made needs protection from all weathers, pleasant or stormy, both in windy March and pleasant June. The brooder should have a roof over it, a wall behind it, and be sheltered from the cold breezes that are prevalent in the locality where it is operated. This shelter, or house, needs some kind of a front, though it be only cloth.

Do not try to run your brooder in the open air, too many have failed in the doing of it, but provide shelter for brooder and chicks. The common brooder of three feet square, with the fifty chicks committed to it, needs a house of some sort that contains thirty-six square feet of floor room. Less room than this may do if great care is taken in the management of the flock, but I do not advise a smaller space than I have indicated.

**Floor and Scratching Material.**

The floor of the house and brooder needs some scratching material to feed small grain in. I have found chaff from the hay mow the most satisfactory material for this purpose. Whatever you use, have it short enough to be handled by the little feet of the newly hatched chicks. The floor or ground under the scratching material should be dry and sweet. A wet soil, or earth rich in old poultry droppings, is not a good foundation upon which to place any scratching material, even though you have been in the habit of planning it this way. When you least expect it disease will break out in your flock and take off the profit of a year's work. The cleaner and sweeter you keep your brooder and its house the more sure you are to succeed with brooder chicks. With a dry floor, clean scratching material, pure warm air,

and an even heat, you may safely remove your chicks to the brooder.

**Getting the Brooder to Work.**

The lamp, or stove, should be filled at night, the wick trimmed and set to meet the expected temperature of the night that is at hand. An hour after attending to the brooder lamp it should be visited again to see that it is not smoking and that the chicks are comfortable. The lamp burns most brightly soon after it is filled, so that the most heat will be given during the cold hours of the twenty-four. If the following day is sunny and warm the lamp is to be turned down to meet the increased heat of the warm house.

The ideal brooder house is so built as to hold an even heat all day long. This is obtained by increased ventilation by windows as the heat of the sun raises the temperature of the room, or by the small brooder-house that has most of its glass in the east and west ends.

**Clean Quarters.**

The brooder should be kept free of droppings. This does not call for daily cleaning when the chicks are small, but the droppings should not be prominent in the litter of the brooder floor. The warmth of the brooder usually dries the droppings so that they are not so much a source of danger as they otherwise would be.



**BIG RETURNS IN EGGS.** Even if it does cost you a little money, you are not squandering it, but making a wise investment. Use the Prussian Lice Powder to keep the fowls free from vermin, and feed

**PRUSSIAN POULTRY FOOD**

and you will be surprised at the great return you will receive in the form of eggs, or whatever else you are raising poultry for, and the cost is very little per hen after all—not a tithe of the returns you get. It is meat and medicine to your fowls. Prices, 25c and 50c. Get it from your dealer, or write to us. Book on poultry and stock feeding free.

**PRUSSIAN REMEDY CO., ST. PAUL, MINN.**

AGENTS—Portland Seed Co., Portland, Oreg.; Vaughn Seed Store, Chicago, Ill.; J. W. Wilder & Co., Cincinnati, Ohio.

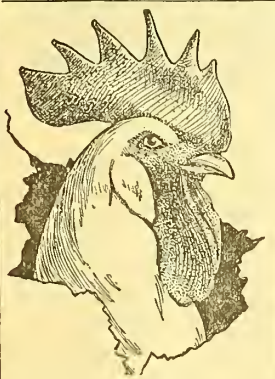
**Who Breeds Barred Rocks and Rhode Island Reds? Well Raymond Breeds the Best. "The 200 Egg Strain."**

Years of careful breeding and prizes won on his stock all over the country prove there is none better.

**EGGS** From finest exhibition matings, with the utility part left in, 15 eggs \$3.00; 30 eggs \$5.00; 50 eggs \$7.00; 100 eggs \$12.

Catalogue and R. I. Red standard free if you mention Poultry Keeper.

**D. C. RAYMOND,**  
LOCK BOX 955. SOUTH FRAMINGHAM, MASS



**"The Breed That Lays is The Breed That Pays."**

**Our Famous Single Comb**

**White Leghorns**

carried all before them at the great **Rochester Poultry Show.**

**WE WON NINE PRIZES—as follows:**

- First and Second Pens,
- Second Cock, Hen and Cockerel,
- First Pullet,
- The American Poultry Association Silver Cup and The National Single Comb White Leghorn Silver Cup.

We are the most extensive breeders in the world of **Single Comb White Leghorns** and every bird shown by us was bred from our own pens and raised on our own farm. If you want prize-winners, our young birds hatched from special prize-winning pens will surely land you winners. Eggs for hatching from our regular matings \$1.75 per fifteen or \$8.00 per hundred. Eggs from prize pens, including the *Rochester winners*, at from \$3.00 to \$5.00 per sitting.

*Birds and eggs are shipped with infinite care and every precaution is taken to insure them reaching destination in first-class condition.*

*Write for free catalogue.*

**WHITE LEGHORN POULTRY YARDS CO., Box 514, WATERVILLE, N. Y.**



The brooder calls for a thorough cleaning twice a week. Not only a getting rid of the filth that has collected, but a sunning of the chick chamber. If the window is so placed that the sun can shine into the uncovered chick chamber for several hours each week you will be doing much toward reducing the large mortality of some brooder records. Fresh air and sunshine are the best disinfectants that the poultryman has at his disposal and ought to be more often used in his work.

**Danger From Lice and Mites.**

Whitewash, with carbolic acid in it will be serviceable in filling cracks and sweetening the brooder and its house. At the commencement and close of each brooder season give a thorough white-washing to all parts of the brooder. A brooder that begins the year's work with cracks so filled as to shut out all access to the red-mite carries with it a good probability of doing a good season's work. There is no danger so great to the brooder chick as that of the ravages of the red-mite or spider louse. Many a brooder, and too many long brooder houses, are perfect nests of the red-mite, and when the warm days of May and June arrive the chicks drop off, not one by one, but by dozens and twenties.

Then in the keeping the brooder clean remember the danger of the lice and mites, being always on the look for them, and constantly doing those things that will keep all insects from getting any foothold in your flocks. If, at any time, you find red-mites have appeared in the brooder use some good liquid lice killer, following this with a thick coat of white wash. Do this on a warm day so the chicks will not suffer by being shut out for the time necessary for thorough work.


**Food for Brooder Chicks.**

The well hatched chick in the carefully cared for brooder will amount to little unless the food is supplied in proper amounts and at right intervals. The growing chick that is confined to a brooder house or bare yard needs more attention along food lines than does the bird who has constant access to green grass and clover. The chick that is dragged over the farm by the mother hen will make good growth if fed nothing at all. The brooder chick that can get onto growing grass whenever it pleases will stand methods of feeding that would spoil the ordinary brooder flock.

GET THIS BOOK, IT'S FREE, ON

**Incubators**

You should read this book before placing your order for an INCUBATOR or BROODER

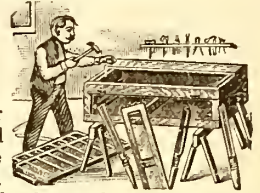


It gives you a correct idea in raising Chickens... illustrated by Photographs

THIS BOOK IS INTERESTING, FASCINATING

AMERICAN BROODER CO., BOX 8, RACINE, WIS.

# BUILD YOUR OWN INCUBATOR AND BROODER



**Of Course You Can** You are just as clever as the several thousand average men, boys (and women too) who have taken up with the New Idea in Incubators and built their own machines and operated them with phenomenal success.

**How?** It's easy. First write for one of our new catalogues, "How to Make and Save Money With Incubators and Brooders." This unique, attractive Poultry Book and Catalogue gives full particulars of our striking, original proposition on building Incubators and Brooders.

**85 per cent Hatch From Machine Built by a Lady.**



Hitchcock, Tex., Feb. 20, 1904.  
 Channon-Snow & Co., Quincy, Ill.  
 Gentlemen: It is a pleasure to remind you that I am your friend when it comes to the plans and fixtures which I bought of you. I built the incubator and brooder myself and am very proud of them and have had fine success with them. My first hatch was 85 per cent, which was excellent, considering the quality of eggs I had to use. I have just taken off my second hatch and I can say I am more than pleased with it. I filled the machine with 200 eggs on Jan. 25th; had to pick up eggs any old place, from my neighbors. I tested out on the 16th day and took out 59 infertile. I left those I had a doubt about in until hatch came off, the result was I took out 115 fine healthy chicks and all are doing well. There is no question but that you have the machine. Your plans and fixtures are just what you claim for them. I had no trouble whatever in building the machine. My neighbors are wild over my success and you will hear from them. The order I sent you for plans and fixtures for Mr. Tennewell, arrived O. K. and he has his machine finished and will start it soon. I would like the agency for this territory for I am satisfied I can sell a large number of fixtures here. Let me know by return mail. Wishing you the success you deserve, I remain,  
 Hitchcock, Galveston Co., Texas. MRS. C. H. MORRIS,

**You Can do Business** with us in either of two ways. We manufacture complete Incubators and Brooders; can furnish you the NEW IDEA in 100 or 200-egg sizes all ready for hatching if you prefer a complete machine and lack the time or knack for doing things. Whatever class you are in, we are fixed for doing business with you.

**When Built** your machine will look like the illustration below and will hatch as well as any first-class machine made. It is a standard incubator, has all the late improvements and will cost you as compared with other first-class incubators One-half as much. Why Not Save This Money?



You don't find double walls like this in other machines.

**Don't Doubt! Believe** The Catalogue is Free. Doubters do little in this world. The people that believe they can do, DO, DO. Again we assure you It's Easy if you will send for our Poultry Book and Catalogue, which tells you How, and it's Free. Write today. To-morrow never comes. Enclose 2c. stamp for postage. If you need repairs for your old machine, such as regulator, tank, lamp, etc., we can supply you. We also carry a large and complete line of Poultry Supplies at cut prices. Address,

Channon. Snow & Co., Box D, Quincy, Ill., U. S. A.



Our brooder chicks require, first of all, plenty of food for growth. When it is fed, or how it is prepared, makes much less difference to the good of the chicks than is commonly supposed. The mash is the cheap meal of the day and gives an opportunity to use many of the waste products of the mills. A mash of three parts corn meal, two of bran, one of clover (fine cut), one of meatmeal, will start the chicks off well for the first meal of the day, and will do good service as the noon feed. Give of this mash all the chicks will clean up in a quarter of an hour.

Always keep in the litter of the brooder and the floor of the brooder house sufficient fine-cracked grain to induce the chicks to scratch for food and exercise. I always intend to have a hopper of cracked corn within reach of every growing bird on my place. If you do not do this, be sure the chicks go to sleep with full crops of cracked corn or wheat. Green food must be supplied, if none is growing near at hand. Cut lawn grass, rye, lettuce, or cabbage are all good, and cattle beets appeal to the appetites of moderately large chicks. Cut clover can be used for litter and will be eaten by the chicks, but is rather too costly. Barn waste or the rubbish from baled hay makes a perfect litter for the brooder.

**The "Ready Made" Chick Foods.**

There are several chick foods now advertised in our columns that are fine to get growth in brooder chicks. These

**850,000 GRAPE VINES**

69 Varieties. Also Small Fruits, Trees, &c. Best rooted stock. Genuine, cheap. 2 sample vines mailed for 10c. Descriptive price-list free. LEWIS ROESCH, FREDONIA, N.Y.

**IDEAL ALUMINUM LEG BANDS**



Are the acknowledged leaders. Finest and most secure lock. Quickly put on and guaranteed to stay on. Price, postpaid, 12 for 15c;

25 for 30c; 50 for 50c; 100 for 75c. All supply dealers sell them. Please mention P. K. FRANK MYERS, Mfr., Box 84, Freeport, Ill. Write for B. P. Rock circular and sample band.

**Bred to Lay WHITE WYANDOTTES**

A superior strain of heavy layers. Our booklet free if you mention Poultry Keeper.

C. BRICAULT, Andover, Mass

**MAMMOTH White Sunflower SEEDS.**

Plant Sunflowers and save grain bills. Fowls eat White Sunflower Seed greedily, and it is good for them.

Will grow anywhere. Requires no cultivation, enormous size and very prolific. Every poultry keeper should raise sunflowers. The white is the best. For 25 cents we will send postpaid, to any address, a pound of last season's seed, sufficient to plant a large patch. It's a money saving proposition. Send for some and plant it. POULTRY KEEPER PUB. CO., Quincy, Illinois.



**IT SCATTERS THE CORN. ACME CORN SHELLER** Most convenient and efficient little sheller ever made. Strong, light, compact. Just the thing for shelling corn for poultry, seed corn, etc. Shells from pop corn to largest ear common corn. Price, prepaid 50c. For 80c we will send sheller and year's subscription to Poultry Keeper. Address, Poultry Keeper Publishing Co., Quincy, Ill.



**Prosperity Awaits You**

If you are a farmer who knows how to farm, prosperity awaits you in Nebraska, the North Platte Valley and the Big Horn Basin.

There good farming lands can be purchased for half the cost (or less) of similar land here. You will find good schools, churches and markets, an excellent climate and pure water.

No time like the present to make your plans for the future.

The BURLINGTON will sell round-trip tickets to many points in Nebraska and Wyoming on the first and third Tuesdays of March and April, at the very low rate of one fare plus \$2.00.

Ask for free copies of our publications on Nebraska, the North Platte Valley and the Big Horn Basin.

**P. S. EUSTIS,**

PASSENGER TRAFFIC MANAGER,

CHICAGO, ILLINOIS.



are kept before the chicks all the time in bins always filled, and the birds help themselves as they please. If the chick food does not contain meat in any form a second bin of meat scraps should always be along side that of the other dry food. Chicks fed dry rations seldom are troubled by diarrhoea, the bane of brooder raised chicks.

Fresh water is needed by growing birds, and by none more than the chicks in the modern brooder. If you have milk to spare it had best be fed in the mash, used to mix it, thus avoiding the upset digestion that often follows free access to sour milk.

Clean water dishes are required for best results in handling our chicks. In fact, these chicks need clean quarters, clean food and above all clean drinking water.

**About the Temperature.**

In the running of the heat of the brooder learn to depend upon the appearance of the chick for knowledge of the proper temperature. The thermometer is all right in its place, but if you find your chicks spread out on the food of the brooder, with their heads near the fringe of the mother, you know you have the right heat for them.

As the chicks grow in size the litter should be supplied more freely and removed quite often. The chick's legs are stronger and will do harder work. The droppings become more heavy, are more moist, and the chicks breathe a larger quantity of air. Too much pains cannot be taken to keep everything clean and sweet. Success or failure often depends upon the doing of very simple things, and in the raising of brooder chicks the common, daily duties must be well done, if success be yours.

It is time to leave open a window or two during the night for ventilation. If there is no draft on the birds they are the better for the change of air that goes on all the time. Just as soon as water does not freeze in the dishes at night the amount of air can be increased.

The makers of the Successful Incubators and Brooders, the Des Moines Incubator Company, of Des Moines, Iowa, have done much to bring the incubator up to the state of popularity and efficiency that it now enjoys. That the leading poultry raisers of the world recognize the high value of Successful Incubators and Brooders, is shown by the steady flow of orders for the machines. From time to time the company has been compelled to enlarge its plant, until at present they have one of the largest and best equipped factories in the world. A feature of note is that they are not alone manufacturers, but are in the poultry business themselves. They have a large and fine assortment of fowls known as the Royal Poultry Farm. It numbers over a hundred pens of fine fowls of all classes. They publish a separate poultry catalog. To readers of Poultry Keeper who write the company requesting it, both the Incubator and Poultry Catalog will be mailed free of charge.



—Sittings of—  
**CLOVERNOOK**  
**PEKIN DUCK EGGS.**

Extra fertile and vigorous stock. Sittings of White Wyandottes eggs. Duston strain. Four White Holland Cockerels, thorough-breds and first class birds. Clovernook Ranch, Frances E. Wheeler, Chazy, N. Y. (Mention Poultry Keeper.)

SEE THIS COMB



A 1904 BREEDER.

—DO YOU WANT—  
**WHITE WYANDOTT- EGGS**

from 6 pens headed by Handsome Harry (score 95½); the 3rd (fed for 2nd) prize cockerels Chicago; the two best sons of the 1st Cleveland hen 1902; best son of 2nd Chicago pullet 1903. They are white as chalk and from a pound to two pounds over Standard weight. Do you want

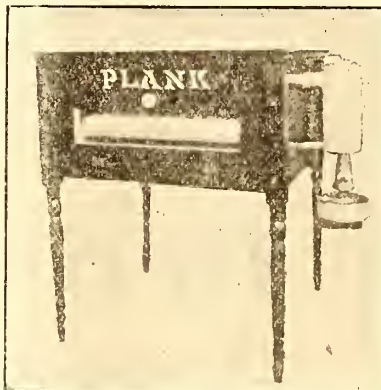
**WHITE WYANDOTTES**

with low curving, nicely corrugated combs (see cut), bay eyes, nice arched neck, broad backs, well spread tails, deep round full breasts, bright yellow legs and beaks, the large silvery white, stay white kind, score from 94 to 96¾. Then buy eggs from me. My new 1904 catalogue will tell you more about them. It's free if you mention Poultry Keeper. Send for it today. Eggs \$3 per 15; \$5 per 30; \$15 per 100.

CHAS. V. KEELER, Winamac, Ind.

**THE PLANK INCUBATOR**

Is Held Up by its Users as Being a Model Hatcher.



Because they do the work entrusted to them in a satisfactory manner, and they are easy to operate. Note what Mr. Rowe says in the accompanying testimonial:

Samantha, O., Dec. 18th, 1903.

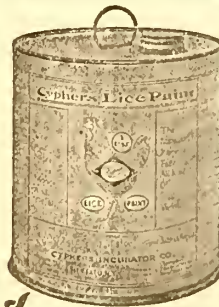
I am very much pleased with the incubator I purchased of you. Out of 80 fertile eggs it hatched 74 healthy chicks. The ventilation is as near perfect as it could be, and I wish especially to compliment you on the regulator, it is perfection itself. It controls the heat at the required temperature throughout the entire hatch. The machine is just as you represent it to be. I wish to thank you for your kindness and fairness. Yours truly, (Signed) J. W. Rowe.

If you use one you will like it as well as Mr. Rowe does.

We sell them on thirty days' trial. If they don't suit you send them back. Our Brooder is just as good as our Incubator. Catalogue explains our full line. Send for it today. (Free if you mention Poultry Keeper.)

S. S. PLANK & CO.,

Washington C. H. Ohio.



**It Does Kill Lice**

Don't say you can't get rid of lice and mites affecting either your poultry or live stock. You can.

**CYPHERS Lice Paint**

Does Kill Lice, Mites and all insect pests. It never fails. Perfectly safe; easy to use; Extra Strong; a little of it goes a long ways because it is guaranteed free from all adulteration. Save your fowls—increase your profits. Ask your dealer for CYPHERS and take no other. Full and easy directions on each package. Agents wanted.

**Poultrymen's Necessities.**

Our full line of patented specialties—Balanced Ration Foods, Sealed Bag Clover Products, Remedies, etc., at right prices. Cyphers poultry supply book FREE if you name this paper.

CYPHERS INCUBATOR CO., Buffalo, Chicago, Boston, New York.

**Orpingtons**

STOCK AND EGGS FOR SALE.

“UNDISPUTED ORPINGTON CHAMPIONS.”

Madison Square Garden, New York, January, 1904,

S. C. BUFF AND BLACK ORPINGTONS.

7 Firsts, 7 Seconds, 4 Thirds, 3 Fourths, 1 Fifth.

Send For 32 page Catalogue and Mating List Giving Complete Records of our Birds.

WILLOW BROOK FARM, BOX 25 BERLIN, CONN.



**EARLY PULLETS.**

As March is the month when the early pullets should be hatched, it is a subject now of special interest. If pullets are hatched too early they may molt in the fall, and for that reason it is not the practice to hatch them before March. This molting in the fall, instead of beginning to lay at that season, is the exception and not the rule, but it is better not to hatch earlier.

Keep in view the fact, also, that the large breeds require a longer time during which to grow than the smaller breeds, and that only the pullets of the large breeds should be hatched early. They are intended to come into service next fall and then lay through the winter. Plymouth Rocks, Brahmans and Cochins should be hatched in March; Langshans, Wyandottes and Minorcas by April 10th; and Leghorns, Hamburgs and like breeds by May 1st. The small breeds sometimes begin to lay when only five months old, and it is not always desirable to have them do so. The pullet that does not begin to lay until November, and then starts at work, will probably lay during the whole winter.

When we allude to early pullets we mean those for next year. If pullets are to be hatched, there is no time now to lose. It requires three weeks for the eggs to hatch. The advantage of hatching them early is that it gives them more time for growth, and they escape lice and other drawbacks that appear in later breeds.

It is, of course, important that the early chicks be given good care; but as the young cockerels can be sent to market as broilers, they will repay all the labor bestowed. March and April are the best months of the year for securing rapid growth and success. The hens, when spring opens, are in

**de Wolf Farm,**  
Pappoesquaw, Bristol, R. I.

**RHODE ISLAND REDS**

Single, Rose and Pea Comb.  
Live stock for sale at all seasons.  
Eggs for hatching, \$3 a sitting of 15;  
\$15 a hundred. Circular free.  
de WOLF FARM, Lock Box 151,  
Bristol, R. I.

**PAYNE'S ALFALFA MEAL.**

The BEST of ALL poultry foods.  
Not a medicine, not a patent food.  
Simply the wonderful alfalfa plant,  
killed and pulverized into meal.  
FOR LITTLE CHICKS it has no equal.  
FOR BROILERS there is nothing like it  
FOR LAYING HENS it is the complete  
food.  
Put up in 100 pound sacks.  
100 lbs., \$1.50 per cwt.  
500 lbs., \$1.25 per cwt.  
1000 lbs., \$1.00 per cwt. or \$20 per ton.  
f. o. b. cars Omaha.  
Remember ALFALFA MEAL is a  
green food so much desired by all kinds  
of poultry, giving summer conditions  
in the winter time. Try it and you will  
be convinced. Send for Trial Order and  
illustrated pamphlet, mentioning Poul-  
try Keeper.  
ALFALFA MEAL CO., Omaha, Nebr.

**Business Birds.**

• THAT WIN AT THE BIG SHOWS. •

Pure White Wyandottes. Mammoth White Pekin Ducks.

Eggs, \$1.50 per 15; \$4, 50; \$7 per 100. Guaranteed 75 per cent fertile. Cut clover \$1 per 100 lbs. Poultry Supplies and Stock for Sale. Eggs from Prize Winners, \$3, 15. Circulars Free if you mention Poul. Keeper.  
W. R. CURTIS & CO.,  
Box 8, Ransomville, N. Y.

Agents for Celebrated Puritan Chick Food and Hall's Mammoth Incubators. Circulars free.



**Trap Nests**

SHOW WH CH HENS LAY THE EGGS.  
Inexpensive—Reliable—Easily Made—Simple  
—Convenient—Compact.

BETTER THAN EVER.  
"The IDEAL is a strictly first-class article and is head and shoulder ahead. We can vouch for its accuracy and all that the inventor claims for it. They work for your interests."—M. K. Boyer.

F. O. WELCOME, Box C., Yarmouth, Maine.

Circulars Free.

**RICH GOLDEN BUFF  
BUFF WYANDOTTES  
THE SANBORN KIND**

These birds of mine are all right and will reproduce themselves. When you see a brown egg bred-to-lay cockerel go to the Milford Show and win 1st and Dutch Special you know you are on the right track. This bird, with half my males, has one even shade of rich golden buff from head to tail, and, like the others, is mated to hens and pullets of "the Sanborn Kind." I am limited in the number of chicks I can raise, and sell eggs from the pens I use myself. I do not expect to be able to fill all this spring's orders, and prefer small orders to large ones. Prices for 1904 are: One sitting, \$3; two sittings, \$5; three sittings, \$7; 100 eggs, \$15.

I have a few individual matings, of rare merit, that I will sell eggs from, when I can spare them, for \$6 for 12 eggs. Make P. O. money orders on Milford, but mail to DR. N. W. SANBORN, Box 66, Bellingham, Mass.

**EXMOOR FARM'S  
Single Comb Brown Leghorns**

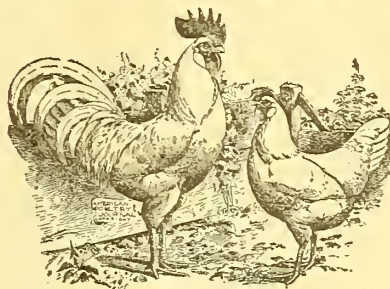
Win in females Jan., 1904, at Madison Square Garden, 1st, 2nd, 3rd, 4th, 5th, 6th Pullets; 1st, 2nd, 3rd, 5th, 6th Hens.  
At Chicago: 1st, 3rd, 4th and 5th Hens; 1st, 4th and 5th Pullets.  
This same line has won 1st and 2nd Pullet at Madison Square Garden for 6 years straight.

**IT IS THE UNDEFEATED FEMALE LINE OF AMERICA.**

To get the very best I had to buy Mr. W. Theo. Wittman's entire stock of Leghorns. These birds will be mated by him at Exmoor Farms along his old successful lines.

Eggs from 10 fine pens, \$5 per 13. Pedigreed Eggs \$1 each.  
Send a 2 cent stamp for 44 page circular, also my Leghorn mating list.  
We breed almost every known variety of Chickens, Ducks and Geese, also Collie Dogs. Please do not fail to mention Poultry Keeper when writing. Address, EDGAR A. WEIMER, Propr., Exmoor Farms, Lebanon, Pa.

**COLLIN'S WHITE LEGHORNS**



NEVER FAIL TO PLEASE  
Are the greatest layers known. They lay in the winter and all the year. They lay more and larger eggs at less expense than any others. They are standard pure bred, large size, high scoring prize winners at all leading shows where exhibited. No one has better; few as good. They are Money Makers Sure. It has cost many years of thought and careful breeding to accomplish above results, yet you can secure their stock or eggs for hatching at little more than you pay for uncertainties. Note the above undisputed solid facts. No experiments. Stock and Eggs for sale. Satisfaction guaranteed. I have mated several pens with choicest, high scoring, prize winners and heaviest of layers of exceptionally fancy and fertile eggs at prices—quality considered—that cannot be duplicated for twice the money.

1 Sitting, 15 Eggs .....\$1.50  
2 Sittings, 30 Eggs ..... 2.50  
2 Sittings, 50 Eggs ..... 3.25  
Reference, Second National Bank, Ravenna, Ohio.  
Write wants and mention P. K.

100 Eggs .....\$5.00  
200 Eggs ..... 9.00  
500 Eggs ..... 20.00  
N. R. COLLINS, ROOTSTOWN, O.



their best condition for laying, just as the winter is passing away, and can be made to pay better than at any other period, if given good care.

The first portion of the year is when the largest number of chicks are hatched, especially to renew the flock for next year. As this is simply getting ready twelve months ahead, the results of the future depend upon the success of this year. The hatching of the new stock is the foundation of the work, and if a good beginning is made there will be a great saving of time later on.

The most important matter is to secure healthy stock—to avoid roup and disease—and you can never buy such fowls as you can hatch for yourself.

#### RELIABLE INCUBATOR CO.'S NEW BOOK.

The old stand-by Reliable Incubator & Brooder Co., Quincy, Ill., have "done themselves proud" this year on their 20th Annual Catalogue & Guide. The book is elaborate, yet practical in every way. The company did not devote the entire space to advertising the Reliable goods, but set aside sufficient space to give much general information on poultry subjects, making a valuable book for anyone raising poultry. It gives many practical pointers that would require years of experience to acquire. The book requires 10c for mailing and is sent free to P. K. readers. Address Reliable Incubator & Brooder Co., Box A-15, Quincy, Ill., and please mention Poultry Keeper.

### SILVER PENCILED WYANDOTTES

Eggs from choice matings of Prize Winners, \$5 per sitting of 15 eggs. Eggs from pens headed by Prize winning Cockerels, \$3 per sitting of 15 eggs, 2 sittings, \$5. Choice Trios and Cockerels for sale.

#### Rhode Island Reds, Over 100 Prizes Won This Season.

Eggs from Prize matings, \$2 per sitting of 15 eggs; 3 sittings, \$5; \$10 per hundred. Eggs from Farm range utility stock, \$1 per sitting; \$5 per hundred; 300 or more eggs ordered at one time, \$4 per hundred. R. I. Red Standard free if you mention Poultry Keeper. Stock for sale.

T. N. SMITH Attleboro, Mass., Box No. 186.

### ...Wyckoff's S. C. White Leghorns...

Acknowledged everywhere THE WORLD'S GREATEST LAYING STRAIN. None better in STANDARD QUALITIES. By our 30 years of continuous breeding and selection we have placed them UNQUESTIONABLY IN THE LEAD as the most profitable strain of poultry in America, and YOU ASSURE YOUR SUCCESS by using them as your foundation stock. Choice stock for sale. EGGS FOR HATCHING in any quantity from the choicest matings at \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Send for Catalogue and let us know your wants. Free if you mention Poultry Keeper.

Address, WYCKOFF'S, Aurora, Cayuga County, New York.

## THE REAL THING

McClaves matchless prize winning White, Golden and Silver Wyandottes, Barred and White Rocks, White and Brown Leghorns, Black Hamburgs, Light Brahmas, Langshans, R. C. B. Bantams, Big Bronze, White and Narragansett Turkeys, all standard varieties of geese and ducks. Scotch Collie Shepherd Dogs. Finest collection of these varieties in America. More first prizes on our birds at Pan-American Pittsburg, Chicago, Columbus, Cambridge and Akron, than any other exhibitor. 512 prizes won at six shows. More than 1,000 choice birds for sale. Prices reasonable. Best quality. Prompt service. Low express rate. Satisfied buyers. Largest practical poultry farm in Ohio. Over a quarter of a century of successful operation. Write

CHARLES McCLAVE, Box 700, New London, O.



### REX LICE KILLER

is the most effective lice and mite destroyer because it is as carefully compounded as a medicine from ingredients of uniform power and quality. Sprinkled about the houses, nests and roosts IT HELPS HENS LAY. You know why. As necessary in winter because cold does not kill lice. Liquid Lice Killer is better than Powders and Rex is best of all. If other kinds have disappointed you try Rex. Write for circulars and Free Sample.

REX STOCK FOOD CO. Dept. 51, Omaha, Neb.  
Rex Poultry Food is a natural egg producer. Try it.

# For Fifteen Years America's Best and Still at the Head.

## BRADLEY BROS. BARRED PLYMOUTH ROCKS



A "GRANSON'S BROTHER" MALE,"

And the sire of more First National Winning Cockerels than any male living. He was sired by a son of "Grandson's Brother 5th," for which \$100 was refused as a cock. This is one of nearly twenty-five birds in both sexes, Bred by us the last six years, which sold for \$100 or more, each, or that price refused.

For the last Fifteen Years, birds we Bred and Raised have won at New York Shows as follows:

- (1) MORE FIRST PRIZES by over 25 per cent than any other exhibitor has won on ANY STOCK.
- (2) Nearly DOUBLE the First Prizes on EXHIBITION PENS that any other exhibitor has won.
- (3) Nearly DOUBLE the number of FIRST PRIZES on COCKERELS of any other exhibitor.
- (4) And THREE TIMES the number of FIRST PRIZES on MALES that any other exhibitor has won on stock not our breeding.

ALL THE ABOVE BIRDS WERE BRED AND RAISED BY BRADLEY BROS., who have full liberty to make the foregoing statements.

At New York Show, 1904, five of the Nine Blue Ribbon Birds were Bred and Raised by us. The First Prize Cockerel is now in our yards.

No Less Than Thirty-Seven Winning Males at New York Shows have been bred by us the last fifteen years. Our birds have been Winners at the Largest Shows held in this country, also in England. Our shipments have extended to Canada, Mexico, West Indies and Africa. \$250.00 was refused for a Cockerel and Pullet hatched by two customers from eggs we sold. THE HIGHEST PRICE EVER GIVEN in this Country, to our knowledge, for a Barred Plymouth Rock female, was received for a "Lee Belle" pullet Bred and Raised by us. Write for our surpassing New York Show Records. Bradley Bros., Lee, Mass.

Dear Sirs: The Pullet-breeder I bought of you a year ago is the sire of three First Prize Pullets at three Wisconsin leading shows, also Pullets in First Prize Pen at State Show and a large number of others fully as good.

This makes seven times I have dealt with you in eight years and I assure you every one has been entirely satisfactory to me. Yours truly,

Geo. H. Ble, Station A, Racine, Wis.

PULLET BREEDERS for sale, the best we ever offered of same line as Blue Ribbon Females at New York, 1904. Also Brothers and Sisters of First Place Winners at New York, 1904, in Both Cockerel and Pullet Bred Lines at fair prices.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of Medium Priced Exhibition Birds—hot ones for the money. Carefully mated Breeding Yards of 5 birds, mated for either light, medium or dark progeny as desired, \$20 and up. Special prices on poultry in large numbers.

New Edition of "America's Best—Illustrated," giving 22 pictures of Recent New York Winners, also pamphlet of "What Our Hatching Eggs Produced for Our Customers Last Season," both sent free.

EGGS FOR 1904, From New York Show Winners and from birds closely related to New York Show Winners. They are the Best lot of Show Birds we ever put together. Eggs from best Pens Only, \$6 per 13; \$10 per 26; \$14 per 39; \$35 per hundred. Our last season's eggs produced for our customers stock scoring to 95 points.

BRADLEY BROS., Box 825, Lee, Mass.



**OBSERVATIONS OF A RURAL PHILOSOPHER.**

Written for Poultry Keeper by Silas Wiggins P. P.

I'd rather judge a man's experience by what he knows than judge what he knows by his experience.

Stale eggs has had experience, but somehow fresh ones seem to taste better.

China eggs are base imitations and will fool any settin' hen, without regard to her experience or theirs.

Did you ever buy real estate or trade horses on the strength of t'other feller's experience? If so, you have had experience in buyin' real estate and tradin' hosses.

Speakin' of hosses, them fellers as guessed we'd never git the 2 minit hoss guessed wrong, didn't they? Them as guesses last guesses the nighest, and there's always another guess comin'.

200-egg hens is considerable more plenty and a durn site cheeper than 2 minit hosses, but there's no sence in gittin' sore about it jest because we don't happen to own either. 3 minit hosses and 150-egg hens is well wuth havin'.

Breedin' has improved our horses and our hens; but good roads, good drivers, and rubber tired sulkeys has helped the wellfed hoss a mitey site; and good feedin', good care and trap nests will do the same for our hens.

When I see the big ad of a fortune teller in my daily paper one month and read in the news columns of the same paper the next month that the aforesaid fortune teller hed skipped town with \$4,000 (four thousand plunks) belongin to one of his customers, I am much impressed with "the power of the press."

I have learned that the thing we want the most, find the hardest to git, and like the least after we git it, is truth.

Some fokes klame that a thing is wuth all that you kin make enybody think it is worth, while others think it's only wuth what they are willin' to pay for it. I can't see much sence in either view.

I respect some rich men's sagact-

ity more when I recollect that they are taken for soft marks by so many folks that they would be in the poor house if they wan't pretty sharp.

When sum fokes shake up what they imagine with what they know, it works somethin' like oil and water; the imagination rises to the top.

"Sum men are born grate, sum acheeve grateness, and sum have grateness thrust upon um"—and sum jest imagine it.

I don't care who plays the tune if it is a good tune and he plays it well.

Funny how much more a thing is wuth when we are a sellin' of it than when we are a buyin' of it' aint it?

2 men can have different ideas about a thing, but the thing itself don't change none.

It costs money to breed a good rooster, costs money to raise him, costs money to find sumbody who wants rim, and costs money to coop and ship him. How much is he wuth?

**R. C. WHITE LEGHORNS.**

scored by A. L. Pedrich. Cockereils, 94%, \$3.75; 94, \$3; 93, \$2; 92, \$1; 91, \$2; birds, \$1.50. Eggs. Circular free.

MRS. S. P. ROGERS  
2-1 Box 12, Pleasanton, Iowa.

**MAKE MONEY ON YOUR MARKET EGGS.**

By keeping them until prices are high. Can keep eggs two years if necessary, absolutely the same as a fresh laid one. Send 2 cent stamp for circular telling HOW, also handsome ART FOLDER of the largest Fancy POULTRY FARM in this Country. Address J. C. HEATH'S Imperial Poultry Farm, Route 2, Valley Junction, Iowa.

**Homers for Squab Raising**

LARGE, RAPID BREEDERS,  
and

Producers of Choice Squabs.

I am shipping

EXTRA SELECTED BREEDERS,

Ready for Work.

Squabs Pay Better Than Poultry.

Write for price lists and state how many you want. Please mention Poultry Keeper.

ARTHUR P. SPILLER, Beverly, Mass.

**BANNER ROUP CURE.**



Banner Roup Cure is guaranteed to cure Roup, Colds and Canker in Poultry or Pigeons, or money refunded.

Given in the drinking water and they take their own medicine.

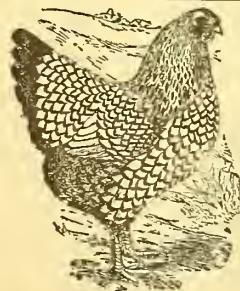
Price, 50 cents and \$1 per box. Postpaid.

Our Immense Illustrated Catalogue Free, if you mention Poultry Keeper. Send for one.

EXCELSIOR WIRE & POULTRY SUPPLY CO. Dept. K.

W. V. BUSS, Prop.

26 & 28 Vesey St., New York City.



**POULTRY MAGAZINE**

Monthly, 50 to 100 pages. Its writers are the most successful poultrymen and women in the United States. It is

**THE POULTRY TRIBUNE,**

Nicely illustrated, brimful each month of information on, How to get Eggs when Prices are High, Housebuilding, Ailments and Remedies, Incubators, Care of Fowls in General, Etc. In fact so good you can't afford to be without it. Price, 50 cents per year. Send at once for free sample and SPECIAL OFFER TO YOU.

R. R. FISHER, Pub., Box D, Freenort, Ill.

**Success**

with

**Poultry**

Contains MORE and BETTER Practical, Reliable Information on the general subject of

**POULTRY FOR PROFIT**

Than any other book published. It treats of every branch of

**Practical Money Making Poultry**

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains 118 Pages (9x12 inches in size) and Cover and is The Best Poultry Book Yet Published. Contents (briefly stated) are as follows:

- How To Get Started.
- Leading Standard Breeds.
- Characteristics of Breeds.
- Practical Poultry Houses (Plans).
- Fowls; Care and Feeding.
- Model Brooding Houses (Plans).
- Care of Adult Fowls.
- Feeding for Eggs.
- A Hen Catechism.
- Feeding Young Chickens.
- Care of Growing Stock.
- Artificial Incubation.
- Incubator Cellars.
- Broilers and Broiler Raising.
- Care of Brooder Chicks.
- Pekin Ducks For Profit.
- 5000 Ducks on Two Acres.
- Starting with Standard-bred Poultry
- Profitable Egg Farming.
- Turkeys; Care and Management.
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- Poultry and Fruit Combined.
- Diseases of Poultry.

The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

POULTRY KEEPER PUB. CO.,

QUINCY, ILL.

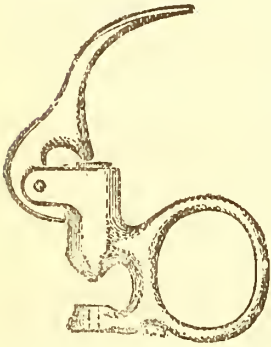


The figger'in of profits, like charity begins at home.

How would you know where to get a good rooster anyway, if sumbody didn't tell ye? That's advertisin'.

Faithfully yours,  
Silas.

**P. K. POULTRY MARKER.**



There is nothing in a poultry yard more important to the breeder than a good poultry marker. By the use of the marker herewith illustrated any form of mark may be adopted by punching

the web between the toes. A complete record of chicks from different breeders and strains can thus be kept, affording also a mark of identification for your birds wherever they may be. It may save you money and a valuable bird. It costs, prepaid, 25c; or for 65c we will send postpaid a marker and a full year's subscription to Poultry Keeper. Be sure to ask for the Poultry Keeper marker when ordering. It is the best there is. Address Poultry Keeper, Quincy, Ill.

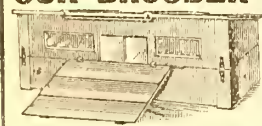
Lice will put in an appearance before the early pullets begin to lay in the spring, and if not taken in hand will have the poultry house well stocked. The way to prevent lice is to fight them early and often. Never let them get possession. Get a hand sprayer and spray the house once a week, and do not miss a single square inch, giving the fences a spraying also. In our advertising columns will be found the best preparations for this use.

**WHITE ROCKS FISHEL STRAIN**

May hatched, bred from \$50 pen, direct from Fishel. Cockerels, \$1 to \$3.50. Pullets, \$1 to \$2.50. White Wyandottes for sale. Terms cash.

**BROWER & SONS, Box 50, Grafton, Ill.**

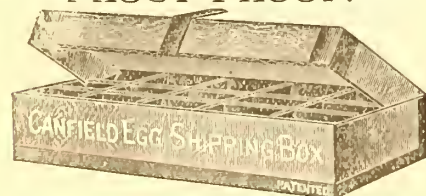
**OUR BROODER SECRET**



Raise-All Brooders astonish the poultry world. Will not over-heat chicks; avoid bowel trouble and other brooder fatalities. Secret lies in my plan of heating and ventilating by infusing fresh warm air. Catalog explains why brooder chicks die. It's free.

**GEORGE KREUSCHER, SOMERS, WIS.**

**FROST PROOF.**



This box protects eggs from changes of temperature as well as breakage. Each is surrounded by four solid air tight walls and two layers of dead air cells. Steam pipes in cars cannot start development of the germs, neither will exposure chill them. Box seals. Can be packed in one minute. Made in four sizes. Sample, 15 egg size postpaid, 20 cents, weighs 9 oz., will support half a ton. Catalog Free. Mention P. K. **CANFIELD COOP CO., 31 Maine St., Bath N. Y.**

**Peep-O'-Day**  
**Coops and Colony Houses**  
are recommended by the largest and most successful poultrymen. We manufacture these houses in several styles and sizes. They are manufactured at the Cornell works in the Cornell way; built of one-inch white pine, free from black knots and sbake; painted two coats of linseed oil and lead paint. Illustration shows Portable House No. 5, with run, 5 ft. square, 5 ft high; run 10 ft. by 4 ft., 4 feet of the run being under the house, protected from the sun and storms.

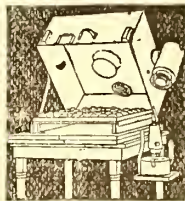
Boston, Mass.  
Gentlemen: I have given your No. 5 Poultry House a thorough trial, both winter and summer, and can state that it has given me the best of satisfaction. For price and compactness I think they have no equal. Wishing you success, I remain  
Yours truly,  
**ELMER R. B. CHAPMAN, Architect.**  
3 Hamilton Place.  
**Price Complete, \$16.50**  
**Cornell Incubator Mfg. Co.**  
Box 11 Ithaca, N. Y.

**30**  
**Days Free Trial**  
Don't be caught by a promise to give your money back. Try your machine and then buy if it suits. We claim, and ask you to prove in the 30 days, that the surest hatcher in the world, the easiest to handle, the most perfectly automatic in all workings, is the  
**Badger Incubator.**  
You don't have to be an expert to run it and get results. You'll say that if you try it. Start in by asking us to send you our **Mammoth 100 Page Catalogue.** It gives reasons we can't tell here, so we mail it free. If you would improve your poultry strains ask about our **Forty Varieties of High Bred Fowls.** Fancy turkeys, geese, ducks, chickens.  
**J. R. Brabazon Jr. & Co.,**  
Box 108, Delavan Wis.

**MY GOLDEN BRONZE TURKEYS**

made a record in Pan-American and Chicago, hundreds of people saying they were the most beautiful birds they ever saw. Never had a turkey score below 93 in four years, to 97 1/4. **EGGS, 50c EACH, Barred Rocks (Feich strain) bred in line 27 years, eggs \$3 per 13. Buff Cochins (Sternberg, Donisthorp), eggs \$4 per 13. Pekin Ducks, (Hallock strain) Eggs, \$2 per 13. Chester White Swine. Pedigrees furnished with all hogs sold.**

**MRS. CHARLES JONES, Paw Paw, Illinois.**



**"New Thought" True in Name.**

**THE PURE AIR HATCHING MACHINE.**

No—it's not an incubator. It hatches and the chicks live. It's all metal—good as gold to people who want a business machine. Catalogue K ready. Get it.

**HASTINGS MFG. CO., Hastings, Nebr.**

**BLUE BLOODED BUFF ORPINGTONS.**

Sons and daughters 1st prize, Boston, Chicago Cock; 1st and 2nd Cincinnati, Hen; 1st Cincinnati Cockerel. Last three owned by me. Also purchased 1st Elmira Buff Rock Cock; 1st Frankfort, Ind. Buff Leghorn Cockerel; 3rd Louisville, Brown Leghorn pen.

**RANKIN STRAIN PEKIN DUCKS.**

A few Brown Leghorn and Orpington Cockerels to spare. Send for free circular with instructions how to get eggs at half price. Free if you mention Poultry Keeper.

**W. E. DAMON, PLEASANT VALLEY, KY.**

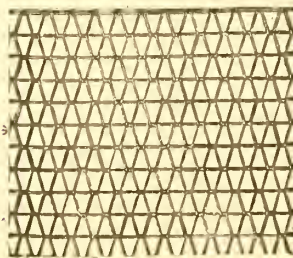
Ky. Vice President American Orpington Club.

**CHOICE LINE BRED BUFF ROCKS**

Price soon forgotten. Quality long remembered. Get plenty of winter eggs by starting right—with a sitting from my heavy laying strain, originating from the best yards in the country. Will reproduce themselves. No expense considered in obtaining the choicest. Pen 1, (scores nothing less than 91 1/4 to 93 1/4 females and 94 1/4 male). Eggs \$3. 15. Pen 2, (89 1/4 to 91 1/4, 93 1/4 male.) Eggs, \$2. 15. Scores by Judge Shane Fancy and utility combined in the highest degree. Nothing reserved. You will get the best I have from hens with winter egg records of 25 to 28 per month.

Please mention Poultry Keeper.

**C. M. CHAPLIN, 501 Washington Av., Evansville, Ind.**



**NO-SAG POULTRY NETTING**

Something new and just what you have wished for. A poultry netting that will not sag, or narrow between posts. A netting that you can stretch tight and that will remain rigid and upright without the use of base board or top rail. This means a great saving.

**SEE THOSE LINE WIRES?**

Only 2 1/2 inches apart full height of fence. Made with 1 1/2, or 2 in. mesh, and in heights from 12 to 60 inches. Price so low as to excite your interest, and netting so substantial that nothing on the market approaches it. Catalogue free.

**KITSELMAN BROS. Box 16 Muncie, Ind.**



# BLANCHARD'S SINGLE COMB WHITE LEGHORNS

Carefully selected. Bred over 20 years. Greatest Egg Laying Strain in existence. Large, pure white, fancy marked eggs. Standard qualities. Birds are large, vigorous, active and handsome. Unexcelled for introducing blood or as foundation stock. Winners at Madison Square Garden, New York, 1903 and 1904. Stock for sale. Eggs for hatching. Illustrated circular free if you mention Poultry Keeper.

**H. J. BLANCHARD, Groton, New York.**

## Single Comb White Leghorns.

Eggs, \$1.50 per sitting; \$5 per 100; \$3 per 50. I took first on cockerel, 1903, at Macomb, Ill.; 2nd on pen. My best hens scored by Charles McClave 94 1/2 points. Some pullets left for sale at \$1.50 and \$2 each; or \$15 per dozen.

**H. C. BEEBE, Banner, Illinois.**

### MIDLAND POULTRY FOOD.

In these days of specialists and experts the poultry keeper who is not alive to up-to-date methods cannot hope to receive full profits from the fowls. The Midland Poultry Food Co., Kansas City, Mo., make a balanced poultry food that is one of the standards of the world. In a letter to P. K. from Dr. Petros Nishkian, of the Midland Company, he writes: "It suffices to say that to produce a successful food one must consider the functions with all their details of organic chemistry. We have considered these facts and never lose sight of the fact that nature's own laboratory requirements must be met with as much scientific accuracy as an organic chemist can foresee. The sure and positive results from the use of the Midland are heralded to us from all over this great country. We aim to see that the Midland Food is in fact the most economical food on the market, therefore the most commercial, because the Midland is a scientific food. A part of a letter dated January 19th from the Petaluma Incubator Co., Petaluma, Calif., reads: 'We assure you that the Midland is at the top of the ladder as ever.'"

The Midland Poultry Food Co. (see inside of back cover for full address) have an instructive booklet on feeding that they will send free to P. K. readers.

### REMOVAL NOTICE.

The Never Sink Incubator & Brooder Mfg. Co., formerly of Manheim, Pa., are now located at Columbus, Ohio, giving them a more central location. They have fine shipping facilities, with a factory thoroughly equipped to fill large orders on short notice. They write: "We employ the best of mechanics, use good lumber and metals necessary to build a machine merited for business." The following letter from a customer is submitted to show how well their customers are pleased:

Neversink Incubator & Brooder Co.  
Your Brooding System is a labor and fuel saving, easily managed system. The self-ventilating device on your incubators means strong healthy chicks. I recommend most heartily your incubators and brooders and your prompt and business-like way of filling orders.

P. S. Moore, Lancaster, Pa.

For ad of the Never Sink Co., see page 552.

"Tell P. K. readers," writes Pearl Lawson, White Plymouth Rock specialist of Staunton, Ind., "that my breeding yards are mated and they will be able to find none better. Cocks and cockerels are pure white and large. Second per is headed by a cock scoring 95 1/2 by Judge Lane. Orders are now being booked for eggs."



**CUTS OF CHICKENS.**—Every breeder needs them for cards, stationery and ads. Send today for my new proof sheet of "Ideal" Poultry Cuts—finest you can buy—all varieties—formerly sold by Harper Eng. Co.  
Chas. L. Stiles, 921 Mohawk St., Columbus, O.

**STANDARD-BRED LIGHT BRAHMAS.** Fowls and eggs for sale at all times. I ship fowls or eggs to any part of the U. S. and Canada, to reach you in good shape. Give me a trial order, or call and see me. Mention P. K. **ARON J. FELTHOUSE,** P. O. Box 203, Elkhart, Ind.

## Squab Book Free



Squabs are raised in month, one bringing big prices. Enter market. Money makers for poultrymen, farmers, women here is something worth looking into. Send for our FREE BOOK, "How to Make Money With Squabs," and learn the rich industry address.

**Plymouth Rock Squab Co.**  
19 Friend St., Boston, Mass

### BRADLEY BROS. BARRED ROCKS.

Bradley Bros. Barred Plymouth Rocks have proved again this year to be the strongest birds in their class at the New York show. For fifteen years in succession Bradley Bros. have bred and raised the Barred Plymouth Rocks that have exceeded the winnings of any other strain. At New York, 1904, five of the nine blue ribbon birds were Bradley stock direct, and the first prize cockerel is now in their yards. They have for sale the best birds they ever offered and P. K. readers are given a rare opportunity to acquire excellent stock. Prices of eggs for hatching, from best pens only, are, \$6 per 13; \$10 per 26; \$14 per 39; \$35 per 100. Their handsomely illustrated catalogue, showing half tones of famous birds free to those who mention P. K.

When the weather permits outside range the number of birds in some pens can be increased, thereby giving a few pens to the brooder chicks. See that these pens are free from lice and red-mites before putting a chick into them. Lice and chicks never flourish in the same pen. Always be on the watch for vermin.



**NEUBERT'S POULTRY** won 1st share of prizes at largest Pairs and Shows. 25 breeds of Chickens, Ducks, Geese and Turkeys. Fowls and eggs at low prices. Largest establishment in the Northwest. Send 4 cents postage for our new 60-page Catalogue, grandly illustrated—tells all. One of the finest and most valuable poultry books issued.  
**R. F. NEUBERT, Box 288, Mankato, Minn.**



**HOAK'S ROUND INCUBATOR HATCHES** where others fail. No Cold Corners. Double Disc Regulator. Fresh Air Continually Supplied. Double Walls. Fresh Air Brooders. Free Catalogue. 30 Days' Trial. H. E. Hoak, Ligonier, Ind. Box K.

## SHOEMAKER'S BOOK ON POULTRY



and **ALMANAC for 1904**  
There is nothing in the world like it. It contains the following: 212 large pages, handsomely illustrated. A number of most beautifully colored plates true to life. It tells all about all kinds of Thoroughbred Fowls, with life-like illustrations and prices of same. It tells how to raise poultry successfully and how to treat all diseases common among them. It gives working plans and illustrations of convenient Poultry Houses. It tells all about **INCUBATORS and BROODERS.** It gives full instructions for operating all kinds of Incubators. This chapter is marvellously complete and is worth dollars to anyone using an incubator. It gives descriptions and prices of Incubators, Brooders, and all kinds of Poultry Supplies. In fact, it is an encyclopedia of chickendom and will be mailed to anyone on receipt of only 15 cents. Your money refunded, if not pleased. Address **C. C. SHOEMAKER, Box 114, Freeport, Ill.**

## IMPORTANT AND PROFITABLE.

Now is the best time to secure subscribers for Poultry Keeper, and our offer of "Blocks of Three" for \$1 makes it easy for the club raiser to get his paper free for one year.

The raiser can secure two subscribers at 50 cents each, send us \$1 and we will send Poultry Keeper one year to the two subscribers, also to the one who has procured the two new ones.

As a further inducement to our friends to send us "Blocks of Three"

for \$1, we will give to each of the three subscribers comprising these clubs a special premium of our booklet, "Feeding for Eggs," that tells what and how to feed, with table showing food values, so that every subscriber gets a 50-cent poultry magazine and a 25-cent poultry book, all sent postpaid.

Below is a subscription blank on which the names and postoffice addresses may be written. We urge an early effort to secure three names under this liberal offer. A dollar bill will reach us if sent in a letter.

**POULTRY KEEPER, Quincy, Illinois.**

Enclosed find one dollar for three subscriptions to **POULTRY KEEPER** for one full year.

|   | Name. | Postoffice. | State |
|---|-------|-------------|-------|
| 1 |       |             |       |
| 2 |       |             |       |
| 3 |       |             |       |



**SUCCESS WITH POULTRY.**

The best book on poultry ever published, one which embraces every branch of the poultry business, is Success With Poultry. From the first chapter, "How to Get Started," to the different chapters on every phase of poultry for profit, this is a book that is of greater value than any other ever published.

Do you want to start right? Success With Poultry will help you

Do you want to know the methods in use on the big poultry plants of the country? Success With Poultry will tell you.

Do you want to get plans for building practical poultry houses? Success With Poultry contains them.

Do you want to learn about broiler raising, capons, foods and feeding, care of old and young stock, diseases of poultry and remedies? Success With Poultry tells this.

Success With Poultry contains 118 pages 9-12 inches in size, with numerous half-tones and etchings. Price is \$1 per copy. For price of book alone we will furnish a full year's subscription to Poultry Keeper and send Success With Poultry postpaid. Address Poultry Keeper Pub. Co., Quincy, Ill.

Do not let chicks of various ages run together. The older ones will get the most of the food, and will annoy the smaller ones to their hurt. While there is much difference in the sizes it is best to expend some money in netting and fence the various lots according to age. It takes time and money to get the small chick started right and too many poultrymen grow careless when the chicks feather out the first time. All through the growing season the birds need thoughtful and constant care that they may mature in fine condition for future use.


**White Wyandottes Exclusively.**  
Catalogue free if you mention Poultry Keeper.  
**ARTHUR F. HARTMAN,**  
Box 111, Nappanee, Ind.



**Strawberries.**  
Delicious fruit and lots of it, fresh from your own garden by following our new method of culture and getting our Home Garden assortment of plants. 36 plants will fill a bed 10 feet square and produce sufficient fruit for an ordinary family. Sent with directions for culture, for only 60c. charges prepaid. Ask for prices in quantity. Large illustrated seed & plant catalogue free if you mention this paper.  
**IOWA SEED CO., Des Moines, Ia.**

**HOW TO GET \$2 EGGS**  
*For 50c Per Sitting.*

The White and Brown Leghorns are the greatest layers in the World, and I keep from 500 to 1000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who is using my Feed, or intends to use it the coming season, two sittings of B. or W. Leghorn Eggs for \$1 for the two sittings. Nothing less than two sittings sold. This is a rare chance to get a start of extra fine stock. Book your egg orders early, and I will send when wanted.  
**W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)**  
KIRKWOOD, MO.



**CLIMAX LEG BANDS**  
Are popular with Poultrymen the world over. They are easy to put on and are secure as a padlock. They never lose off if properly applied.  
Note Reduced Prices, 12 for 20c; 25, 35c; 50, 60c; 100, \$1.00 postpaid. Give sizes wanted. Send stamp for samples.  
**The Keyes-Davis Co., Ltd., Mfrs.**  
Battle Creek, Mich.

**STANTON'S**  
**WHITE ROCKS**

Are growing into fine **COCKERELS** and **PULLETS**. Will be in position this fall to furnish some fine birds (Fisher strain). State your wants and we will try to satisfy you.

**GEO. F. STANTON & SONS,**  
Hennepin, Illinois.




**BIG MONEY IN POULTRY**  
For the Next 30 Days Only, we will mail our fine valuable Poultry Book FREE. Tells you all about poultry, how to make big money with poultry and eggs; contains colored plate of fowls in their natural colors. Send 10c for mailing and postage.  
**JOHN BAUSCHER, JR., Box 145, FREEPORT, ILL.**



**THE SHAUB**  
**COMPARTMENT BROODERS**  
have stood every test of time and tempest. Equally good for out or indoor use. Every year the sale of them increases and they always give satisfaction. They furnish natural conditions for the chicks and are constructed to give best results. Ten years of success have made the Shaub Brooder the leader of all. The machine is right and the price is right. Send for free booklet describing it.  
**M. O. Sherer, Box 102, Louisville, O.**

**CYPHERS**



is the  
**Lice Powder**  
that  
**Kills.**  
Stronger than any other on the market. It does not simply drive away the pests, but kills them. Contains no carbolic acid. Clean to handle, easy to apply, sure in effect. Will not injure eggs nor chicks. Excellent for lice, ticks, fleas, etc. on stock. Send for trial package, post paid 15c; at your dealer's 10c. 100 oz. package (by express) \$1.00.  
**Poultrymen's Necessities.**  
Our full line of patented appliances, remedies, balanced ration poultry foods, sealed bag clover products, etc. will be found described in Cyphers Poultry Supply Catalog. Free if you mention this paper. Name your special wants and address nearest office.  
**CYPHERS INCUBATOR CO., Buffalo, N. Y.**  
Chicago, New York, Boston.

**FERRETS. E. R. GIBBS, BREEDER** and dealer in Ferrets, Guinea Pigs, Lop-Eared Himalayas, Belgian Hares, Angora and Common Rabbits. Send stamp for circular.  
**NORWALK, OHIO.**

**MONEY MADE RAISING PIGEONS**

We supply you the breeders and buy all you raise. Particulars and book, illustrating and describing all varieties and how to care for them, 7 cents. Hundreds for sale. Homers, Runts, Dutchess, Dragons, Carriers, Barbs, Pouters, Fantails, Tumblers, Owls, Tarbits, Blondinets, Satinets, Magpies, Swallows, Archangels, Nuns, Starlings, Trumpeters, Jacobines, Helmets, etc.  
**Wm. A. Bartlett, Box 23, Jacksonville, Ill.**  
9-12

**ROSES! ROSES!**

We are headquarters for strong, stocky rose bushes, grown on their own roots, growing many thousands for wholesale trade, as well as for our mail order business. We do not grow cheap plants at any price, but we do sell good plants cheap.

**Roses Postpaid**  
**5c Each**

Our catalogue will be sent free to those who mention Poultry Keeper, giving prices of all best kinds (except new varieties) at 5c each. Your choice of variety, you do not have to buy a collection to get the kind you want at this price.

Catalogue also gives full description and price of all Cannas, Carnations, Begonias, Chrysanthemums, Dahlias, and other greenhouse and bedding plants. Prices from 5 cents up, and also many bargain collections that will surprise you.


**Alice Roosevelt**

**FREE.** Cut this out and send it with your first order amounting to \$1.00 or more, and I will send you this grand new rose free. It is a perfectly hardy, strong growing, ever-blooming rose of a brilliant red color and has never been offered for sale before.

Special trial collection. In order to induce everyone to try my plants and see what they are, I will send one each of the following 12 plants in all, postpaid, for only 50 cents: Roses—Ivory, Helen Gould, Burbank, Crimson Rambler, Clothild Souper, General Jacqueminot, Climbing Meteor, Virginia R. Cox and Austria Camla; Asparagus Sprengerii, Begonia Argentea Gutata and Red Cactus Dahlia.

Address, **W. R. GRAY, Oakton, Virginia...**  
Fairfax County.  
(Mention P. K. when writing.)

**POCKET**  
**ATLAS**  
OF  
**THE WORLD**



**RAND, McNALLY & CO. CHICAGO NEW YORK**

**Rand, McNally's**  
**Latest Pocket Atlas**  
**OF THE WORLD.**

Contains latest census of every town in U. S. Over 400 pages of handsome maps, statistics, populations and descriptions. Neat, handy, compact and presents clear views on every day news. Just what you want to know in just the right shape. In office, home or when traveling it is valuable. Price 50c. A full year's subscription to Poultry Keeper and Atlas sent postpaid for 65c.  
**POULTRY KEEPER PUBLISHING CO., - - QUINCY, ILL.**



**TO CREATE AN INTEREST IN BETTER POULTRY.**

Chas. Phelps, Corfu, N. Y.

**A**T this season of the year, is the great rush of work at a poultry plant. To get every thing ready for the breeding time. Birds must be selected out, graded up as to size, markings, and greatest of all a good male bird selected to head the pens. This means a careful observing of the laws of nature and a diligent study of the Standard.

Next which demands your attention is the store house, with something stored away that will meet the de-

mands as close as possible, as to what our birds have had through the summer. Nothing so well takes the place of green grass and makes the birds sing better than a cabbage or mangle wurzle beets hung in the pen with cut clover hay, and they will shell out the eggs. Give the layers good quarters, regular feeding and a clean house.

In Corfu there are ten poultry fanciers who pay some attention to breeding fancy poultry. We were together one evening. One said, "I wish we could have a poultry show in our town. I believe it would create a feeling for better poultry." We talked the matter over, got together and organized a poultry club. We visited the near-by

**BARRED PLY ROCKS**

High class stock. Won 1st cockerel at Houston, Texas, Nov. 28, 1903. A few cockerels good as my 1st at Houston for sale. EGGS \$2.50 PER 15. Satisfaction guaranteed. Ben. T. Laws, Box A-205, Conroe, Texas.

**YOUNG CHICKS**


Just hatched from Barred and Buff Plymouth Rocks, Single Comb White Leghorns, and White Wyandottes, at 8 1/2 to 15 cents each. Distance no objection. 6,000 chicks hatched per week at the Pine Tree Hatchery. Send for circular, and get your order in early.

JOS. D. WILSON, Stockton, N. J. (Please mention Poultry Keeper.) 2-6

**THE SOUTH BROOKLYN STORAGE & MFG. CO.**

Office, 136 Water Street, New York. Manufacturers of Ground Oyster Shells, Fish Scrap, Tallow Scrap, Dried Meat Tankage and Bone for Poultry Food, and for fertilizing purposes. Also Ground Oyster Shells for country walks and roadways.

**SMITH'S SEALED LEG BANDS.**



Were designed to insure positive identification of scored birds, and they do it. No fast bands. No duplicate numbers. Prices, post paid, 30c per 12; 25, 50c; 60, \$1; 100, \$1.50. Give sizes wanted. Sealers, plate, 50c; tested, 65c; nickel plated, 75c. Samples and our leg band booklet for stamp.

THE KEYES-DAVIS CO., Ltd., Mfrs., Battle Creek, Michigan.

**BEAUTIFUL PICTURE**



In Colors FREE with a Sample Copy of Fancier's Gazette, the most instructive poultry paper published. It teaches you how to make money out of the greatest industry in the world. Also learn about our \$15,000 World's Fair prize offer. Send us your name on a postal card.

Fancier's Gazette Co. 229 E. Washington St. Indianapolis, Ind.

**KEEPS 'EM EGGINE. MAKES HEALTHY 'EM LAY**

It will keep your chicks strong and healthy, and pullets will lay when 5 or 6 months old—will help your hens through moulting season and make them lay early and all winter. Used everywhere by practical poultrymen and fanciers. If you want eggs, try Eggine, One Package 25c. Send for Pamphlet on POULTRY Diseases and their treatment.

W. E. WULF, BAYONNE, N. J.

**MAGAZINES AT HALF PRICE!**

You can buy most of the magazines you read at half-price by subscribing for them through me.

- Here are a few sample offers from my new catalogue:
- Vicks Family Magazine ..... 50
  - People's Popular Monthly ..... 50
  - Young People's Magazine ..... \$1.00
- Value \$2.00—My Price, \$1.00.

- Household Ledger.....\$1.00
  - House Beautiful ..... 2.00
- Value \$3.00—My Price, \$1.50.

My catalogue contains thousands of other clubs. I can supply you with almost any magazine you may want and save you money. Write for free catalogue and mention P. K.

C. J. HOUSER, Subscription Agency, 228 Oak St., California, Mo.



**AN EGG TESTER FREE TO OUR READERS.**

The editor of Poultry Keeper has just received from Geo. H. Stahl, Quincy, Ill., the famous incubator manufacturer, an ingenious little egg tester, which we must call attention to. It is known as the "Gem Folding Egg Tester," and is a most useful and very neat apparatus, constructed in a scientific manner. It will tell you in less than a half a second whether an egg is fresh, stale or bad. This tester can be used in the day time as well as at night. It will never get out of order and will when handled with ordinary care last a life time. A whole case of eggs can be tested within five minutes, and the tester will report the exact condition of the egg with a promptness that never fails. Why put infertile eggs under the hen or in the incubator, or

cook any but the freshest eggs? Full directions for testing eggs for both table use and hatching are given with the tester. A limited number of these testers will be given away free, and if you will send to Geo. H. Stahl, Quincy, Ill., he will send you one free of charge, providing you mention Poultry Keeper. He will also send you full directions for testing the eggs, both for table use and hatching purposes, together with a handsome new catalog containing 14 colored views of incubators and brooders, including one showing the "Development of the chicks" from the first to the twenty-first day. This is a very generous proposition indeed and you should write at once.

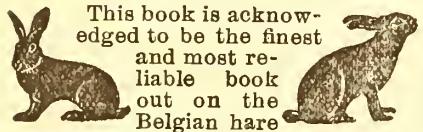


towns and talked show with what fanciers we could find. We met with such good success we decided to have a show. We hired the opera house, engaged one of the best judges, Mr. J. Y. Bicknell, made it a score card show and made the entrance fee twenty-five cents per bird. Certainly it is worth that much to have a bird scored. After we had our show advertised ten days we were pleased to announce we had one hundred birds entered in a small town of only five hundred.

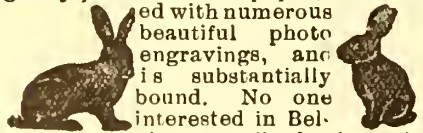
Looking over the advertisements in the different poultry journals I noticed quite a number of fanciers in the same town. Now it seems a good plan for them to do as we are doing, even if they have to go down into their pockets a bit and get your stock before your own town people. Have a poultry show, don't try to make it as large as the New York and Chicago shows, for you can't do it, but have one and have it as large as you can. Show the people better poultry than they are raising and you will create an interest for better poultry, and more of it.

Write to the editor of the poultry journal that you take. Tell him all about your plans. He will help you and in return for the help he will give you, take sample copies of his paper. Show them to the people, get them to subscribe and increase the circulation and create a large interest in fancy poultry. I had no idea there was so much money invested in poultry until I received a sample copy of a poultry paper. I read it all through, subscribed for it, and have been a crank (so they tell me) on fancy poultry ever since.

### The Belgian Hare Guide



This book is acknowledged to be the finest and most reliable book out on the Belgian hare industry. It contains complete and practical information on the following and many other subjects pertaining to the industry: History and Origin, The Belgian for Utility, The Belgian for Fancy, The Business and its Outlook, How to Begin, Houses and Hutches, Foods and Feeding, Feeding Green Stuff, Mating and Breeding, Care of the Young Pedigrees, Score Cards and Judging, Belgian Hare Color, Dressing and Cooking, Diseases and Remedies, Preparing for Exhibition, Crating and Shipping, Oaponizing, Queries and Answers, Miscellany, Belgian Hares vs. Poultry, The Belgian in England, The Belgian in California, Black Belgians and Flemish Giants. It is elegantly printed on fine paper, illustrated with numerous beautiful photo engravings, and is substantially bound. No one interested in Belgians can afford to be without it. Send your order today.



PRICE, 25 CENTS.

A year's subscription to Poultry Keeper 50c, and a copy of Belgian Hare Guide (25c) for 65c. Address Poultry Keeper Publishing Company, Quincy, Illinois.

**S. C. BROWN LEGHORNS**--- Won at Erie, Pa., Nov. 24-29, two firsts, two second, one third; also specials for best colored pullet and best striped cockerel scored by Judge J. Y. Bicknell. At Tionesta, Pa., won first, second, third and fourth, scored by Judge Theo. Hewes, birds scoring 94¼, 93½, 93¼, 92½, 91¾, 91¼, 91¾, 91½. Birds from \$2 to \$5. Eggs from \$1.25 to \$2 per 15. Satisfaction guaranteed. **FRANK SCHELLANG, R. F. D. No. 1, Erie, Pa.**

## White Plymouth Rocks.

THE KIND THAT WIN.  
THE KIND THAT LAY

**EGGS! EGGS! EGGS!**  
Large and beautiful. White pens headed by cocks scoring 96, 95½, 94¼, 94. Eggs, \$2 per sitting. Order now. Great laying strain, and sure to please you. I will please you in hatches. **PEAL LAWSON, Staunton, Ind.**

## OUR BIG \$4.15 BROODER OFFER



### THE NEW IDEA BROODER

Is the best, cleanest, has new system of ventilation, largest chick capacity, and costs less money than any first-class brooder on the market. Built for both INDOOR and OUT, self-regulating, perfectly safe and comes nearer filling the duties of

#### The Mother Hen

Than any other brooder on the market. No steps for chicks to climb, double walls, hot water heating system and many other good points not found in other brooders. If you are looking for a brooder you can't help but be interested in our

#### Big \$4.15 Brooder Offer

which is thoroughly described in our new poultry book and catalogue entitled:

"How to make and Save money with incubators and brooders."

filled with valuable information on brooders, care of young chicks, etc. We want you to write for it.

#### It costs you nothing

and we are certain the information it contains will save you many dollars. WRITE TODAY and enclose 2c in stamps for postage.

Address, **CHANNON, SNOW & CO.,**  
Box D, Quincy, Illinois.

Galveston, Tex., Feb. 21, 1903.  
Messrs. Channon, Snow & Co., Quincy, Ill.

Gentlemen: Replying to your favor of the 13th, I take pleasure in stating that the brooder which I built according to the plans and fixtures bought of you has been entirely satisfactory and have had better results with it than with any I have heretofore used.

Yours truly, **James J. Hanna,**  
Care Hanna & Leonard, Galveston, Tex.

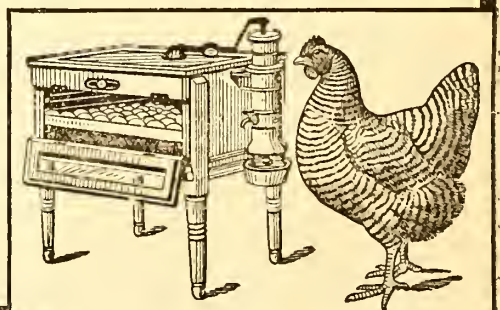
## 200-Egg Incubator for \$12.80

The simplicity of the Stahl incubators created a demand that forced production to such great proportions it is now possible to offer a first-class 200-egg incubator for \$12.80. This new incubator is an enlargement of the famous

## WOODEN HEN

recognized the most perfect small hatcher. This new incubator is thoroughly well made; is a marvel of simplicity, and so perfect in its working that it hatches every fertile egg. Write for anything you want to know about incubators. Send for the new free illustrated catalog with 14 colored views.

**GEO. H. STAHL,**  
Quincy, Ill.





**ADVICE TO BEGINNERS.**

Polk City, Iowa, Jan. 20, 1904.

Editor P. K.:

We receive many letters from would-be poultry keepers asking us to tell them the best breed to start with, with points on caring for poultry, feeding, etc. I will be as brief as possible. We are fanciers of poul-



Single Comb White Leghorn cock, score 95, bred and owned by L. B. Jennings & Son, Polk City, Iowa.

try and of course respect no bird that is not bred up to standard. We admire all kinds, from the graceful little Bantam to the lordly Langshan, but will not take time here to describe the advantages of each breed.

For general use, separate from all others, I believe the Barred Plymouth Rock takes the lead for eggs only, I would advise getting the White Leghorns, as we have found them better layers than other breeds with some exceptions. Our White Cochins and White Games in the spring of 1903 gave us more eggs than anything we had on the plant, and our White Cochins at this writing are laying better than our Leghorns, and our strain of Leghorns is equal to the best.

As to feed, we feed corn, oats, wheat, rye



A 94 1/2 Point Light Brahma, bred and owned by L. B. Jennings & Son, Polk City, Iowa.

and millet. Corn meal is our standard food as we have found that nothing is more health-producing. As to the care of poultry our first requirement is cleanliness, as no one can make a success at the business unless he is particularly careful as to this one thing. We clean the houses twice a week and scald them once a month with soap suds, with a little carbolic acid added. If disease breaks out, better resort to the hatchet, and give the balance of the flock a good condition powder.

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You may be making a profit on your flock, but you will never get the best results until you completely rid your fowls of lice. Not one flock in a dozen but what is troubled with lice in some degree—the surest way to get rid of lice is to use

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It is the only remedy known that absolutely destroys all body lice and mites on poultry and hogs. Read this:

Your Lice Killer is the only thing I can get to kill chicken lice. I have not seen any chicken lice in my coop since I used it, and I expect to continue using it. GEO. S. SHEPHERD, Middlebourne, W. Va.

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# ARTIFICIAL INCUBATING

AND

# BROODING

(In this department workers with incubators and brooders are cordially invited to "step in and make themselves at home." Ask questions about any points in the artificial hatching and raising of chickens and ducks and an expert on the subject will give you advice. Tell your experiences and let us help one another.—Editor.)

## HOW WE RUN OUR INCUBATORS.

The First Work of the Season's Hatching Time—Some Hints on Running Machines.

By D. C. Adams, North Haven, Conn.

THE show season is past and the exhibitors have added more blue ribbons to those already won. It's an important time, but the most important time in the whole year I think is the hatching season. I have often heard men say, "O, it's easy to hatch chicks," but they gen-

erally wind up by saying, "but it's hard to raise them." That's it.

Did you ever think that the life of the chick begins in the incubator, and if it is neglected or the wants of that life are not supplied, it will die just as sure as it will die when in the brooder if not properly cared for? Thousands of chicks are killed every year in the incubator, and tens of thousands are hatched with one foot in the grave that never had a chance to live.

In most cases the man behind the incubator is responsible for this. Now we don't pretend to know all there

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## Baby Chick Food

makes hardy, healthy chicks, because it is made of those materials which long experience has proven insure healthy organism and counteract disease. It is the best and cheapest life assurance for baby chicks you can get. Its phenomenal success in saving lives of little chicks is the best proof of its merit. Will go twice as far as any other chick food. 5 b. carton 30c; 10 b. bag 50c; 50 lb. bag \$1.50; 100 lb. bag \$2.50, f. o. b. Binghamton, N. Y. Get our catalog and learn more of this great food and the other Famous Uncle Sam Poultry Remedies. Write for it now—it is free.

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**QUINCY, ILLINOIS.**



is to know about incubation at East Rock, but we have picked up a few things from time to time that help us raise enough White Wyandottes to at least keep the wolf from the door.

**The Best Location.**

The first and one of the most important things is the selection of a suitable place in which to operate the incubator. A cellar is best but whether it be an incubator cellar or an ordinary cellar under the house, it should be sweet and clean, with proper means of ventilation and little variation of temperature. You cannot hatch strong, healthy chicks in a musty cellar with a foul atmosphere.


**Operating the Machine.**

We use the Sure Hatch, a hot water machine. We heat the water to boiling point before putting it into the tank to save time and oil, and in a few hours the thermometer will register 102 degrees, at which point the regulator is set, and at which temperature we run the machine the first four days. We never turn the eggs until they have been in the machine forty-eight hours. Then we commence by turning once a day (usually in the morning) for the balance of first week, then twice a day the second week, and three times a day up to the end of the eighteenth day, at which time we stop turning.

At the end of the fourth day we raise the temperature to 103 degrees, and at the end of the first week we raise the temperature to 103½ or 104 at which temperature we run the machine up to the time the eggs pip, then we raise to 105 or 106.

**Cooling the Eggs.**

The cooling of the eggs is a very important thing. The first week the eggs should be turned as quickly as possible and the door of the incubator kept shut while turning. At the first of the second week turn the eggs, keeping the door of the machine closed until the eggs are turned. Then place the eggs back into the machine and leave the door open to cool the eggs and the machine down together, commencing with five minutes and increasing the time as the hatch progresses, until at the end of the eighteenth day you are cooling fifteen to twenty minutes. This cool-

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>SHE'S<br/>TOO<br/>LOUSY</b></p> | <p><b>TO LAY EGGS. GET RID OF THE LICE!</b><br/>All poultry-raisers should know of the new way—the way that's easy to keep hens and yards free from vermin. We'd like to send you a printed five-minutes-talk "how to keep away vermin permanently," saving monthly expense for kerosening, whitewash, insect powder, and lice killers.<br/><b>Carbolineum Wood Preserving Co.,<br/>MILWAUKEE, WIS.</b></p> |
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added to your regular feeding ration, will do your fowls more good, keep them in better health and vigor, make hens lay more eggs, make chicks grow faster, than any other poultry food ever made by man. We say this—not simply because we want you to buy our Food—but because it is true.

Standard Poultry Food is different from other poultry foods, in that it is not a stimulant but a genuine food tonic which builds up the system of the fowls, helps them digest their regular feed and get more good out of it. It is not a whip that lashes your fowls to extra exertion at the expense of their health, but a constant and gentle every day help that does permanent good.

If you only knew how good Standard Poultry Food is, nothing could persuade you to do without it. It's the poultry food with sense in it. It contains the most needed elements from which eggs are produced. Vitalizing and nutritious. Cheaper by half than the common-run of poultry foods and so good that price is no object. 4 pound box 25c; express prepaid 40c. If your dealer hasn't it send your name for our great \$2 offer and agency proposition.

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to run a machine that ruins itself. You are not afraid of doing the wrong thing if you have a machine that does the right thing for you. That's why you don't make mistakes and save worry and time with the

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They're the Nearest Perfectly Automatic of all Machines.

The record of years is that they produce highest possible results under all conditions—for novice and expert. They succeed by following Nature's plan. Eastern orders filled from Buffalo house. Incubator Catalog free, with Poultry Catalog 10c.

Des Moines Incubator Co., Dept. 47 Des Moines, Iowa.  
100 Yards of Fine Poultry.



ing process helps to make the shell brittle by contracting while cooling and expanding while warming up. The length of cooling depends on the temperature of the cellar. If the cellar is 45 degrees, cool towards the last of the hatch fifteen minutes. If the temperature is 60 to 70 degrees twenty minutes; 70 to 80, one half hour. It is not good for the hatch if the cellar goes below 45 degrees, and this should not be if it could be avoided.

If the cooling of the eggs is properly done less chicks will die in the shell and those hatched will be strong and live under proper treatment in the brooders. The last turning should be done every day early enough to give the thermometer time enough to run up to the proper temperature so you can know how the machine stands before bed time.

Never be tempted to touch the regulator at bed time unless you want to sit up all night. Better leave it a half degree high or low than run the risk of it going too high or too low before morning.

#### When to Let the Machine Alone.

Another important lesson we should learn and that perhaps is the hardest lesson we have to learn, is to let the machine alone while the hatch is coming off. The thermometer will run up several degrees when the chicks begin to struggle for liberty, but it won't hurt the



## White Wash Machines

Ten different styles and sizes for use on poultry farms and buildings of all descriptions.

Write for illustrated Catalogue and price list. Free if you mention Poultry Keeper.

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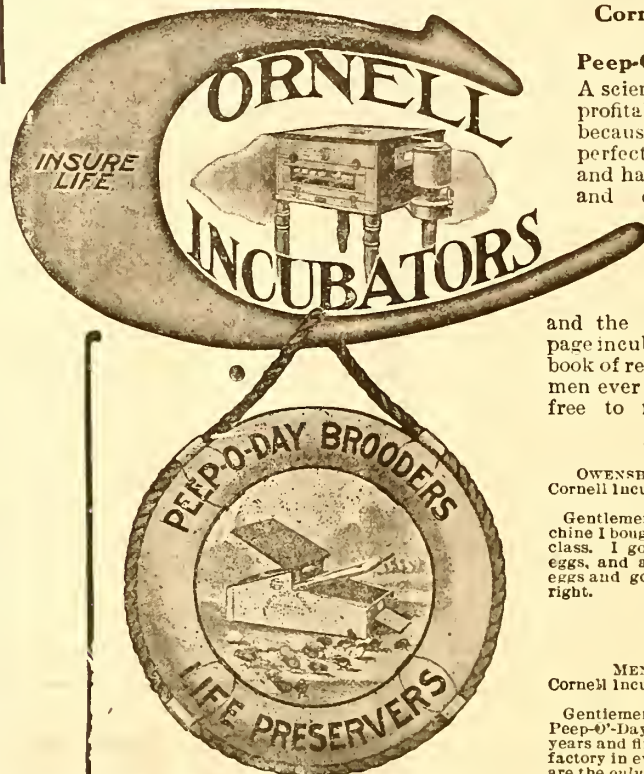
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A scientific, reliable and profitable combination—because they are the most perfectly constructed and have more practical and original improvements protected by patents than all others. A 43-page book of testimonials and the most valuable 98-page incubator catalogue and book of reference for poultry men ever published mailed free to interested people.

OWENSBORO, KY., Sept. 20, '03.  
Cornell Incubator Mfg. Co.,  
Ithaca, N. Y.  
Gentlemen—In regard to the machine I bought from you, it is first-class. I got 170 chicks out of 185 eggs, and another time I had 160 eggs and got 152 chicks. It is all right.  
Yours,  
JOSEPH GROPP.

MENTOR, OHIO, Oct. 1, '03,  
Cornell Incubator Mfg. Co.,  
Ithaca, N. Y.  
Gentlemen—Have been using Peep-O'-Day Brooders for three years and find them perfectly satisfactory in every way. I think they are the only brooder. At present I am using 12 Peep-O'-Days, and expect to purchase more next spring.  
Yours very truly,  
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# BURR INCUBATORS

and Brooders are supplied with the most accurate regulator that has yet been discovered. There is no night watching. It keeps the temperature exactly right. Ten minutes a day does all the work. All latest improvements, California Redwood case, copper tank, 30 days' trial and your money back if you say so. Write for free catalogue. It's a beauty.

BURR INCUBATOR CO. Box K, J IIII,





hatch. Keep the door closed and don't open it until the hatch is through. It has a drying effect and causes the shell to stick to the chick and prevents it from moving about in the shell to work its way.

**When the Chicks Are Out.**

When the hatch is over, cool the incubator down to 100 degrees and keep it at that temperature for several hours before you remove the chicks to the brooder. Everything should be in readiness in the brooder several hours before the chicks are placed in them. Put a pan of sand in the kitchen oven, get it as hot as possible, put it on the floor of the brooder two or three hours before removing the chicks. It will warm the bottom of the brooder and will be cooled down by the time you place the chicks in it.

**WE APPRECIATE THIS.**

Yonkers, N. Y., March 3, 1904.

Poultry Keeper.

Enclosed find \$1 for three subscribers. I have been a reader of your paper for about six months, getting it of my newsdealer every month, and I can't help but acknowledge it to be the best poultry paper I have ever read. That is the reason I took the trouble to send three subscribers instead of only one.

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(We are glad to receive clubs of three for \$1, offer good for new subs or renewals. Your friends will be interested in this plan. Please show your copy to them and tell them we have in store the coming year the most helpful and interesting material that has ever been put out by any poultry paper.—Publisher.)

The real home of the peacock or peafowl is in India. There they were and are hunted, and the flesh is used for food.



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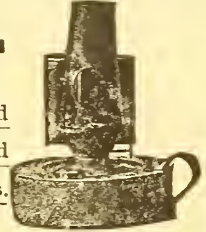
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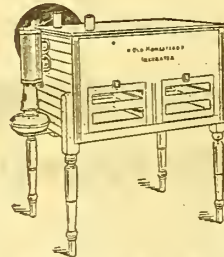
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Again proved their superiority by winning 13 out of 15 prizes competed for, in a class of 167 Barred Rocks at the recent Peoria show. Clean sweep on c'h's 93 1/2, 93 1/2, 93, 92 1/2; clean sweep on pullets 93 1/2, 93 1/2, 93 1/2, 93 1/2, 92 1/2, 92; 1-3 hens, 92 1/2, 92; 1-2-3 pens, 186 11-16, 185 11-16, 184 1/2. (W. S. Russell, judge). Same week at Macomb, Ill., show, 1st cock, 91; 1st c'h'l, 92 1/2; 1st hen, 92 1/2; 1st pen, 184 1/2. (Chas. McClave, judge). All birds shown at Macomb show were under weight and cut from one-half to one point, which accounts for low scores. All birds shown by me at above shows were bred and raised by me. I have them just as good for sale. Write me your wants.

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**The Old Homestead New Incubator,**



It will pay you to look it up. Like the Old Homestead Brooder it is different from all others; it is the best ventilated incubator on the market, having more than double the ventilation of any other incubator. When it is closed up the last days of hatch you can keep it closed, and for 48 hours after they are all hatched; and you will not see them with mouth open gasping for fresh air, as the machine furnishes plenty, as well as its own moisture. Note what we say about it in our catalogue. We mean it all. Send for it. It is free to all who mention Poultry Keeper when writing.

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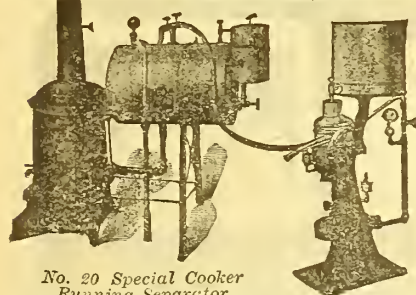
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Readers of the Poultry Keeper and every-one interested in any branch of poultry culture who desire to study the requirements of the business as well as to learn how to succeed should send to the American Poultry Institute for a prospectus of their correspondence course on Poultry Culture. This book gives full details of plan, course of study, names of faculty and method of instruction. Special and individual training is given each student, and every effort exercised to fit him for his ambition, whether it be a position as manager of a poultry plant, as an entire business for himself, or simply as a side line or a hobby.

It is unnecessary for us to add anything to the following letters which were received by this school from students. They are indicative of the value of the Correspondence Course on Poultry Culture which this school is offering.

Providence, R. I., Dec. 12th, 1903.

American Poultry Institute  
Rochester, N. Y.

I may say that if I had only studied with you sooner, I would have been money in pocket to-day as I have learned from your lessons where I made mistakes.

(Signed) Edward Hughes.  
St. Louis, Mo., Dec. 19th, 1903.

American Poultry Institute,  
Rochester, N. Y.

I have taken up the lessons and have carefully covered subject No. 1 and am as far as page 5, section B of subject No. 2 and am getting much more than I expected of the richest information on Poultry Culture. The deeper I delve into the lessons the more satisfied I am that I chose the best school for the study of Poultry Culture. Your lecture on "Feeds and Feeding" is simple and as clearly set forth as to a child. It is in itself well worth the cost of the tuition.

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C. S. Greene.

We believe every poultry keeper should study Poultry Culture. Full particulars can be obtained, without any cost, by addressing The American Poultry Institute, Dept. P 13, Rochester, N. Y. See ad on page 532.

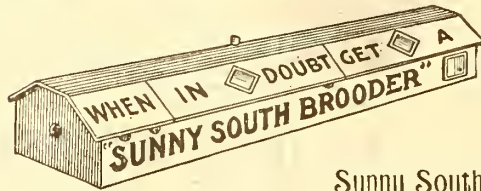
Judge A. L. Pedrick of Iowa visited the Light Brahma yards of H. T. Rogers, Calnesville, Mo., Dec. 16, and scored 208 Light Brahmas. About 75 of the cockerels scored 91 to 95 1/4, and 75 pullets 92 to 96. 50 of the hens went from 91 to 95, also several fine cocks. Judge Pedrick informs us that Mr. Rogers has as fine a flock of Brahmas as he ever scored, in fact, one cockerel scored one-fourth point better than he ever scored a Brahma before. The birds are extra good in combs.



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| White Plymouth Rocks       | 2.00         | White Crested Black Polish | 2.50         |
| Houdans                    | 1.50         | Golden Sebright Bantams    | 2.00         |
| Golden Wyandottes          | 1.50         | Buff Cochlin Bantams       | 2.00         |
| Silver Laced Wyandottes    | 1.50         | Black Cochlin Bantams      | 2.00         |
| White Wyandottes           | 1.50         | White Cochlin Bantams      | 2.00         |
| Single Comb Black Minorcas | 1.50         | B. B. R. Game Bantams      | 1.25         |
| Rose Comb Black Minorcas   | 1.50         | Pekin Ducks                | 1.00         |
| White Minorcas             | 1.50         | Toulouse Geese             | 2.25         |
| Single Comb Brown Leghorns | 1.00         | Mammoth Bronze Turkeys     | 3.00         |
| Rose Comb Brown Leghorns   | 1.50         | White Holland Turkeys      | 3.00         |

This stock is guaranteed true to name and first-class. Have hundreds of birds for sale. You can't buy guaranteed standard-bred chickens anywhere else so cheap as we sell them. Order direct from this ad or send for my big 32-page illustrated catalogue for four cents in stamps.

**All Egg Orders sent in within 30 days a 10 per cent discount from catalogue prices will be given for spring delivery. Every sitting guaranteed to give satisfaction. Send in your order soon. ONLY 90 CENTS PER 13 FOR EGGS FOR HATCHING. Mention Poultry Keeper.**

**Northwestern Poultry and Fruit Farm,**

WALTER SEIDEL, Prop., Box K, Eleroy, Ill.

**It's Poultry History**

covering many years, that the leading Incubator, the one that produces uniformly the highest per cent in hatches, hatches the strongest, best chicks and is the most nearly automatic in all workings of all machines, is the

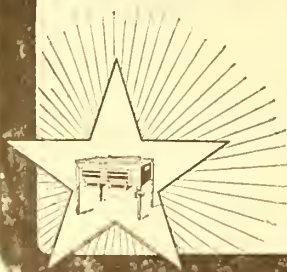
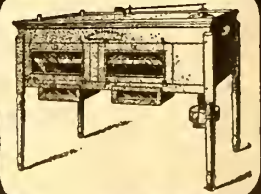
**Famous STAR INCUBATOR.**

It is a machine that has made a record, "a hatcher that hatches." Stands absolutely unapproached in its system of ventilation, which supplies, in addition to fresh air, all the moisture needed in the natural way.

**Brought Within Reach of All**

by 1904 prices: 50 egg Star \$6.00, 100 Egg \$12.00, 200 Egg \$20.00. Poultry raisers may now have the dependable, record hatcher for the price they would pay for untried machines. Let us send you the new catalog, which explains the new era we are establishing in prices. It comes free. Ask for it to-day.

**Star Incubator & Brooder Company, Box 15, Bound Brook, N. J.**





**ON TRIAL**

One of the most frequent arguments that retail dealers have been using against mail-order houses is that the purchaser cannot see what he buys from them. It must be conceded that this argument has some merit in certain cases, but is entirely overcome by many mail-order houses in various lines who are selling their goods on trial. But this method of doing business can only be adopted by houses who give good value to their customers so that very little, or none of the goods are returned. No house can or will do this unless they have perfect confidence in their goods.

A recent addition to the ranks of those doing business by this method is the Advance Fence Co. of 2946 Old St., Peoria, Ill. They are pioneers in the mail-order business in woven wire fence, and have been doing a large and rapidly increasing business for quite a number of years. Their offer is to sell their fence to farmers on 30 days' free trial. If at the end of 30 days the purchaser is not perfectly satisfied, he has the privilege of returning the fence at the manufacturer's expense, and the full amount of money paid will be refunded to him. This offer must certainly be of interest to anyone who is at all to be interested in woven wire fence. This company pays freight on orders for 40 rods or more to any railroad station in the United States.

One of the distinctive features about Advance Fence is its continuous stay wire. The stay wires are not cut at the top or bottom as in other woven wire fences, or as some fences which have the stay wire cut at each intersection with the horizontal strands. In Advance Fence the stay wire is continuous, that is, it is first twisted into the top selvage (which is a two-strand cable) for one foot; then it runs down across the fence and is tightly wound twice around each of the horizontal strands, and then it is twisted for one foot into the bottom selvage (also a two-strand cable) after which it again runs upward across the horizontal strands and is wound around them as before described. Thus the stay wire keeps running up and down across the fence continuously which leaves no cut ends to become unfastened. Another feature is the way the horizontal strands are drawn out of line by the stay wires being wound around them, thus forming a slight kink or bend which effectively prevents the slipping of stay wires and also provides amply for expansion and contraction caused by change in temperature. See ad on page 515.

Wm. B. Wisler, Pine Iron Works, Pa., breeder of exhibition Barred Plymouth Rocks won at the Sanatoga, (Pa.) show four out of five firsts; at Litzitz, (Pa.) he made four entries and won four specials and four blue ribbons. Mr. Wisler sells eggs for hatching.

**\$3.50 FOR \$1.95**

- Success with Poultry (book) ....\$1.00
- Farm Poultry ..... 1.00
- Green's Fruit Grower ..... .50
- Vick's Floral Magazine ..... .50
- Poultry Keeper ..... .50

All.....\$1.95

This is one of the best offers ever made to poultry keepers. It gives the cream of the poultry literature and best fruit journal. Address,

**Poultry Keeper Pub. Co.**

QUINCY, ILLINOIS.

**Egg Box With Nests Attached.**



Doz. 20c; 50, 60c; 100, \$1; 500, \$4.25; 1000, \$7.50; delivered FLAT f. o. b., N. Y. City. Orders of 1000 or over special printing. Write for prices for larger quantities. Waxed paper butter print boxes—special boxes or cartons.

F. R. & F. J. VERNON,  
1013 Grand St., Brooklyn, N. Y.

—OUR—

# Wild Mallard Ducks

Were awarded First, Second and Third prizes at the Great St. Louis Show. We are the Pioneers in this industry and have stock that will please you. Our **BARRED ROCKS** bred for **BEAUTY** and **UTILITY**. A 24-page catalogue for a stamp. See photographs of our plant in January issue of Poultry Keeper. Please mention Poultry Keeper when writing.  
**SUNNYSIDE POULTRY FARM, Coldbrook, Illinois.**

ON SIX ENTRIES AT THE BIG MINNEAPOLIS SHOW MY

## White Wyandottes Won

- FIRST, COCKEREL.**
- SECOND, COCKEREL.**
- FIRST, PULLET.**
- THIRD, PULLET.**

And Specials for **BEST MALE** and **FEMALE**; Also Nat'l White Wyandotte Club Specials for Best Cockerel and Pullet. No pens or adult birds shown. Conclusive evidence that my White Wyandottes are as good as the best. Circular Free.

**EDWIN H. SMITH,** BOARD OF TRADE,  
**DULUTH, MINN.**

**BLACK AND WHITE MINORCAS EXCLUSIVELY.**

Largest Yards in the South.

## Eleven Ribbons Out of Twenty, Richmond Va., Nov. 1903

BLOOD WILL TELL.

For sale 50 Cocks, Cockerels, Hens and Pullets. Eggs \$2 and \$3 per 13. Orders booked for eggs now if cash accompanies order.

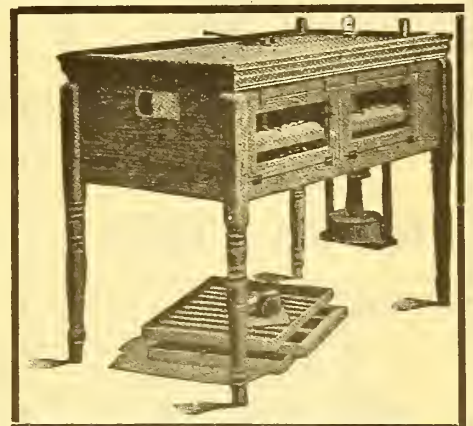
**C. H. STAUNTON,** Barton Heights, Va., successor to J. Norman Bowen.  
Buy of an exclusive breeder of one breed. He studies the variety and produces good stock

## “Uncle Sam’s” Testimonials

Together with the following list of large breeders:

- WM. D. ULSH,
- F. B. MAGILL,
- SID CONGER,
- E. O. WILCOX,
- FRENCH BROS.,
- CASTLEGOULD,
- WM. C. CASEY,
- W. H. WHITE,
- NOLAN BROS.,
- W. H. PYE,
- S. J. BENNETT,
- PHILANDER WILLIAMS,
- CHAS. L. CUSHMAN,
- C. W. B. GERNERD,
- A. J. HALLOCK
- C. W. RICE,
- E. H. HALLEY,
- F. E. WALLACE,
- E. L. WHITE,
- JNO. SHERMAN, JR.,

etc., etc., are all found in the Prairie State Catalogue.



All the Large Breeders use Prairie State Incubators and Brooders

—382 FIRST PRIZES—

Write us at once for our new catalogue—it will pay you to do so.

### Prairie State Incubator Co.,

**Box 23,** (Always use box number.)

**Homer City, Pa.**



**THE HUMPHREY BROODER.**

Every person who buys an incubator, naturally buys one or more brooders. They spend time and worry in hatching the chicks, and then trust them to the brooder, happy in the thought that their troubles are over. In truth, their troubles have just begun. You can feel reasonably sure how many chicks you will get from 100 fertile eggs, but no living man will have the nerve to predict how many fowls he can raise from 100 one-day old chicks. Humphrey, of Joliet, the well-known chicken man, decided several years ago to solve this problem. The illustration in their ad on page 518 shows the principle of his new brooder with absolutely perfect ventilation, and a unique system of heat radiation. Two seasons practical use have given unusual results, even in the coldest weather. It is unusually large 36x72 inches, is economical of oil and does raise the chicks. Write to Humphrey, Glass St., Factory, Joliet, Ill., for his new brooder book just printed. You'll be interested in this valuable machine. Mention P. K.



**REX POULTRY FOOD**

is not a medicine nor a stimulant to force for a little time and leave the fowl's vitality lower than before. It **Brings Eggs in Winter** because it is a scientific preparation of elements necessary to egg production. It keeps fowls in health because it aids the digestion and assimilation of the other things you feed them. You only use a little at a time. This is what you have been looking for. Get circulars and free sample. **REX STOCK FOOD CO., Dept. 51, Omaha, Neb.** *Rex Lice Killer is always the same. It kills lice.*

**POULTRY SUPPLIES OF EVERY DESCRIPTION**



Prairie State Incubators and Brooders; Prize, Champion, Old Homestead and Russ Brooders; Drinking Fountains; Caponizing Instruments; Spray Pumps; White Washing Machines; Powder and Liquid Lice Killers; Condition Powders; Wire netting; Dog Cakes and Dog Medicines, and everything necessary for breeding and rearing poultry and net stock. Our Immense Illustrated Catalogue gives a complete list. It's free if you mention Poultry Keeper. Send **EXCELSIOR WIRE AND POULTRY SUPPLY CO.,** Dept. K, 26 & 28 Vesey Street, New York City.

**POULTRY KEEPER INSECT BELLOWS.**

For use in dusting insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste any powder if you use



these bellows. Price 25 cents postpaid. For 65 cents we will furnish a full year's subscription to Poultry Keeper and send the P. K. Insect Bellows postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

T. N. Smith, Attleboro, Mass., won 2nd, 3rd and 4th cockerels on Silver Penciled Wyandottes, and 1st and 2nd Pens in the strongest competition on this variety at the Providence Show, Dec. 2-5. He has the finest birds in the country. He asks P. K. readers to write him for prices on trios and cockerels.

**AMERICA'S BEST WYANDOTTES, 1,500 HEAD TO SELL IN GOLDEN LACED, SILVER LACED, AND WHITE WYANDOTTES.**

Winners of over 200 regular premiums at Madison Square Garden, New York since 1891. We won first on breeding pen of both Whites and Golden last winter at the above show. Our birds have won hundreds of premiums at Chicago, Boston, Philadelphia and all the large shows during the past 18 years. We have birds to spare in any numbers of the finest show quality or the highest class of breeding stock. We breed for utility as well as for show purposes. One of our white pullets laid 243 eggs in 10 months. Large circular showing more than 50 of our winners and views of America's greatest Wyandotte Farm for a stamp.

**IRA C. KELLER, Brook Side Farm, Prospect, Ohio, Box 10.**



**TRADE NAPCREOL MARK**

A fluid disinfectant (non-poisonous) which prevents disease, kills germs, destroys odors. **One gallon makes 100 gallons of disinfectant.** Invaluable for poultry houses and yards, and for household, stable and kennel use.

C. H. Bricault, M. D. V., Andover, Mass. Says: "It is the most reliable disinfectant I ever used. It is a sure cure for scaly legs."

Price.—Half gallon can, 85c; gallon can, \$1.50. Ask your dealer for Napcreol. Take no other. **POULTRYMEN'S NECESSITIES** "for best results" described fully in special circulars and separate supply catalog. Free if you mention this paper. State your wants. Address nearest office. **CYPHERS INCUBATOR CO., Buffalo, Chicago, New York, Boston.**

**THROW PEARL TO POULTRY** and watch results.

**Pearl Grit**

means healthy birds and prolific layers. Write for prices to **THE OHIO MARBLE CO., Piqua, Ohio.**

**SAVE YOUR CHICKS**

Keep them from bowel trouble and all ailments incident to the first five weeks. Profit lies in the chicks you raise to maturity—not in the number hatched. Give them a ration that makes healthy, well developed bodies like

**HARDIE'S CHICK FEED**

It contains ingredients that long experience in poultry raising has found best adapted to give nourishment to growing chicks. It is promptly digested; causes no indigestion; keeps bowels in normal condition. Chicks show increase in weight, strength and health which profit exclusively. Little chicks need no other food for the first five or six weeks. Save your chicks and make good profits. Hardie's Chick Food is sold in 25 lb., 50 lb. and 100 lb. bags. Write for complete information to

**THE HARDIE CO.,**  
Box 13  
Kearney, Neb.

**HIGH GRADE Incubators AND Brooders.**

Experience is a high salaried school master. Its teachings, however, have taught us successful methods in Artificial Incubating and Brooding. Our Hot Water Incubators Regulate and Ventilate Automatically with the Egg Chamber, causing the natural moist air to pass over the eggs while going through the different stages of the hatch. Naturally results are strong, vigorous, bright, healthy chicks. Our Lamp Brooders are built on sanitary principles and highly recommended by our many customers. A long felt want accomplished worthy the attention of many unsuccessful Poultrymen the world over. There is nothing that succeeds like success. Will you have it? The Most Practical System of Today is the Never Sink Hot Water Pipe System. Built for business and economy. Catalogue if you mention Poultry Keeper.

**Never Sink Incubator Co., R. F. D. 3, Columbus, Ohio.**



# QUESTIONS & ANSWERS

(In this department we will answer to the best of our ability questions pertaining to poultry raising and poultry culture. When perplexing matters come up in the work of Poultry Keeper readers, they are cordially invited to pass the problem on to us. Address, Editor Poultry Keeper, Quincy, Ill. Give name and address in full, and only initials will be used in our answer.—ED)

### MATING BROWN LEGHOENS.

Last spring I bought some eggs from a noted S. C. B. Leghorn breeder and raised several fine cockerels and pullets, and being yet inexperienced as to mating them for good results, the stock is out of fine exhibition stock. I want to learn how to mate them. I lately bought a copy of the Standard of Perfection but that does not give me a clear understanding. I would like to study the mating and breeding of Leghorns thoroughly.

O. C. H., Allentown, Pa.

The standard and double systems of mating are both practiced by breeders of Brown Leghorns. You had better ascertain by which system your fowls were bred and govern yourself accordingly. Articles on both systems have and will appear from time to time in P. K.

2.—“Leghorns—All Varieties” is the title of a book by the most successful breeders and judges of this breed, that fully explains all you wish to know. Price 50 cents, from this office.

### WORMS.

I have a lot of Barred Rocks that were hatched last April, and they are now about the size of common Bantams. They have very few feathers, are dopy and very greedy. They will eat about twice as much as a full grown fowl. Two days ago I killed two of the flock and I made an examination of the intestines and found them full of worms. The worms are from two to two and one-half inches long and are very white.

Wm. F. B., Bristol, Conn.

As the fowls are badly stunted and consequently of little value the best

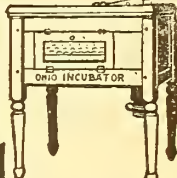
remedy would be to send for Carrie Nation and her little hatchet. If, however, you desire to try medical treatment give thirty grains of powdered arca nut mixed with sufficient

### Egg Economy

No need of losing a lot of fertile eggs that would easily develop into profit bringing chicks. Trust eggs to the

## OHIO INCUBATOR

Its case construction differs radically from other machines, providing chick and egg efficient protection from all exterior changes in dampness, cold or heat. Lamp, regulator, thermometer, each and every part is high grade quality. Our free catalog answers all questions. Ohio Incubator & Brooder Co., Box 13 Columbus, Ohio



## Great Scott

### When You Buy an Incubator

don't overlook the many little details that go toward making the machine perfect. It's the careful attention to these parts by the maker that prove quality, durability and satisfaction in the end for the buyer. All incubators look very much alike from the outside—so do all watches, but it's the mechanism inside that tells through test of time and usage the *real, practical worth.*

## Scott Incubators and Brooders

too, are made with a full realization of this fact. They are made to work and give *more* than value received. This is how they accomplish it. This sort of evidence “talks” for itself.

MIDDLETOWN, OHIO.  
Scott Incubator Co., Indianapolis, Ind.

Gentlemen:—From 73 eggs I got 71 chicks. I shall this fall discard my two other machines and put in two 180 egg Scott Incubators. Your Brooders work to perfection. E. C. FILBERT.


Our new, 64-page, free catalog gives in detail how Scott machines are made—shows why they are successful hatchers. Send for a copy today.

**SCOTT INCUBATOR COMPANY**  
Box 90  
Indianapolis, Indiana



## L

## OAFING HENS



### NEED

of egg making properties makes many hens loafers that otherwise would prove good layers. She is an egg factory and must be furnished the raw material if you expect to get the finished product especially in winter when she can't get green feed. Feed her

### HARVEY'S CUT CLOVER

hay and you will be certain to get bigger returns and at a time when prices are highest. It is especially adapted to making hens lay in winter. Send for catalogue—it tells more reasons and contains a full line of poultry supplies.

**HARVEY SEED CO.**  
20 Ellicott St.  
Buffalo, N. Y.



butter to form a pill, to each fowl. Dr. Stiles of the Bureau of Animal Industry recommends oil of turpentine, the largest safe dose being a tablespoonful for an adult fowl. Probably a teaspoonful would be sufficient for your birds. The turpentine should be followed by a like quantity of castor oil. The droppings must be carefully gathered and the runs sprinkled with lime or you will have more of the same trouble.


**THE NUTRITIVE RATIO.**

I will take the liberty to send you my method of feeding. Will you kindly give it your attention and report your analysis in next issue, this is giving fair results but this "bill of fare" has been in operation only a short time. Please state if quantity is enough or too little.

Monday morning, 2 qts. oats; noon, 25 oz. green cut bone; night, 2 qts. mash. Tuesday morning, 1 qt. wheat; noon, 1 pint millet; night, 2 qts. mash. Wednesday morning, 2 qts. oats; noon, 25 oz. green cut bone; night, 1 1/2 qt. corn. Thursday morning, 2 qts. oats; noon, 1 pint millet and buckwheat; night, 2 qts. mash. Friday morning, 1 qt. wheat; noon, 25 oz. green cut bone; night, 2 qts. mash. Saturday morning, 2 qts. oats; noon, 1 pint millet; night, 2 qts. mash. Sunday morning, 2 qts. oats; noon, 25 oz. green cut bone; night, 1 1/2 qt. corn.

Mash is measured dry and moistened with best skimmed milk. The basis of above quantities of feed is for 24 female -Barred Plymouth Rocks. The composition of mash is as follows, viz: 25 fine ground clover hay, 100 wheat bran, 75 hominy, 100 ground oats, 50 linseed meal, charcoal and salt added. Lots of beets, cabbage, carrots are fed every day. Mica Grit, Oyster Shells and charcoal are in the three compartments. Sanitary Grit Boxes in pens. All grain is fed in litter. Please publish the nutritive ratio of mash, and also the nutritive ratio of total served day's food, disregarding green food which was fed.

S. E. L., Gurnee, Ill.  
Twenty-four Plymouth Rock hens should receive about 6 1/4 pounds of dry food per day. If the hominy mentioned is hominy chop or feed the nutritive ratio of your mash is 1 to 5.3.



**"Fine Feathers  
Make Fine Birds."**

Our poultry bit prevents birds from plucking out their feathers. Easily attached, cheap, does the work. In no way interferes with feeding. Write for particulars.

**Lice on Poultry**

cannot be avoided but can be cured. This cut represents Schild's Lightning Lice Killing Machine. Fowls and powder inserted in machine. Give the crank a few revolutions and the work is done—thoroughly done. The powder is thoroughly sifted into and through all the feathers clear down to the skin, and the birds are not injured in the least. Capacity 100 fowls or 300 chicks, per hour. We make the machine. We make the powder. Look to us for results. Write for free catalogue.

Charles Schild, Ionia, Mich.

**THE DANDY BROODER.**



Beats all the old hens and all the other brooders. It is the simplest, surest, neigest, safest and most economical brooding apparatus. Only \$7 and up. Smallest size 2 1/2 x 4 1/2 feet. Sectional Brooders \$5 per section.

**THE DANDY EGG-TRAP NEST.**

The one you have been looking for. Traps the egg only and registers and releases the hen. The simplest yet. Make them yourself for 15c to 25c per nest. Complete plans \$1.

**THE DANDYDOOR MANIPULATOR**

Opens all your pens at sun up and closes them at sun down. No wires or batteries to get out of order. Very simple \$2.50. Complete plans for making, yourself \$1.

**THE DANDY BURGLAR AND FIRE ALARM.**

Will positively protect your poultry house, cutting house wire does not effect alarm. Price \$5 and up. It will pay you to investigate the Dandy Specialties, also to get the 1904 Dandy Brooder, Egg Trap Nest and Poultry Books, sent free if you mention Poultry Keeper.

ADDRESS,

**THE DANDY BROODER,  
DANVILLE, ILLINOIS-**

|                                                                                                                                        |                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>One Coupon on each order<br/><b>GOOD FOR \$1.00</b><br/>on orders for eggs prior to April.<br/><b>Coupon C</b><br/>Cut this Out</p> | <p style="text-align: center;"><b>Single Comb<br/>Buff Orpingtons<br/>Rose Comb<br/>Buff Leghorn</b></p> <p>As good as can be produced. Our circular tells more about them—FREE. Birds' eggs and chicks.</p> <p style="text-align: center;">A. E. Green Co., Morgan Park, Ill.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Winners  
Layers.**

My Leghorns stand at the head. 242 eggs to a pullet Rose O Browns.

**ROSE COMB BROWN LEGHORNS:**  
27. Firsts, N. York.  
4 Firsts, 1903, N. Y.

**S. C. BROWN LEGHORNS:**  
1st ck; 2nd and 4th hen; N. York.  
28 other first and 3rds.

**R. & S. C. WHITE LEGHORNS:**  
1st hen, N. York and Philadelphia.  
3 firsts, Washington, D. C.

**WHITE WYANDOTTES (Duston):**  
Five Firsts, one show, 9 breeders competing.

None better. Stay White. Large Brown Eggs **BARRED ROCKS (Bradley)** Many wins Scored to 93 1/2 for ckl. and pullet in show. **BUFF ROCKS.** Sold Buff Males, Four 1st. Eggs \$2 for 15; \$5 for 45; 100 for \$10. **CATALOGUE FREE.**  
Collie Pups, Fine Ones.  
W. W. KULP,

Box 30. Pottstown, Pa.

TELL YOUR TROUBLES TO JOHNSON

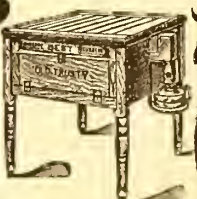
He won't send you  
a machine-made letter. His letters are like

Old Trusty Incubators

They are made in his own shop. The Old Trusty is sent anywhere on 30 days trial. California red wood cases, 3 walls, 2 dead air spaces, an automatic direct acting regulator that comes already attached and connected, governs the temperature under all circumstances. Great \$10 Special Offer on 120 egg size this year, other sizes in proportion. Write for the


New Catalogue

prepared by Johnson, and it is the effort of his life. Tells all about his new machine and what it will do. If you are a poultry raiser and run another kind of incubator, write for this book anyway. It has Johnson's record system of keeping books on the hen and also on incubation. Also plenty of good points about poultry and plans for poultry houses. There are plenty of books and they come free to all who will write a letter to



M. M. JOHNSON,

The Incubator Man,  
Clay Center, Nebraska.  
Johnson has a Special Quick Shipment Plan.





The mash mixture would be much improved by reducing the hominy and linseed meal to 25 pounds each, using in their place 75 pounds of wheat middlings. It would be less irritating. The average of your Monday's feed is about 1 to 4, but as bone varies it is impossible to tell exactly. Thursday's feed the ratio is 1 to 6.4.

**LEG WEAKNESS AND LIVER DISEASE—HENS DON'T LAY.**

I have a pullet that is a mystery to me. She got lame, could not walk, but would eat just as good as she ever did. I feed wheat and oats in the morning and whatever scraps I have at noon, bran, oats, vegetables and teacupful of beef mixture, that I sent and got from the stock yards in Chicago, and Douglas mixture made in a mash. She did not get the use of her legs back after over a week, so I killed her. Her liver was covered with white spots and the lungs were very spongy and the nerve on each side of the backbone was covered with hard white lumps and all over the flesh on the back part was spotted the same way. She was very fat.

Will you give me a good condition powder to make the hens and pullets go to laying. I had one pullet commence to lay and she laid about 7 or 8 eggs and then stopped and has not laid since, it was four weeks ago. I take four poultry papers but I like P. K. the best of all.

Mrs. Wm. Tombstone, Arizona.  
The pullet first had leg weakness caused by growing too rapidly and the resulting inactivity and good appetite terminated in disease of the liver.

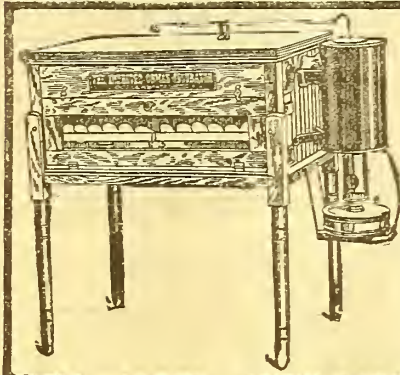
There is no condition powder that will make hens lay. If the conditions are right powders may aid them to start or help get the hen in good general health, but usually if the food and conditions are right the hens will lay. Try a little Venetian red in the soft food every other day—just enough to make it a bright pink—and omit the Douglas mixture.

The pullet stopped laying because she finished her clutch and the conditions were not right for her to continue. Or perhaps the food not being

**SWAN'S FELT ROOFING**  
**'EXTRA HEAVY**

In use by thousands of poultrymen. For samples, circulars and prices f. o. b. Chicago or New York, address

**THE A. F. SWAN COMPANY, 116 Nassau Street, New York.**



**INCUBATORS**

From \$8 up

**BROODERS**

From \$4 up

Self Regulators, Self Ventilators, No Supplied Moisture. Made of best California Redwood. Easy to operate. Fully guaranteed. Automatic Brass Regulator Automatic Ventilation. Send for Free Catalog.

**L. A. BANTA, Ligonier, Ind.**

**IRON IMPLEMENTS AGE**

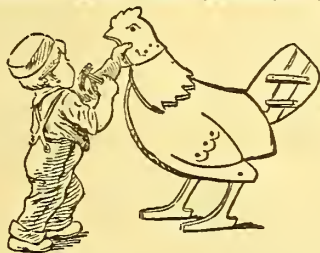
Better work than possible by hand. Plant with greater accuracy—cultivate with greater ease. **IRON AGE IMPLEMENTS** for Garden and Farm—for hand work and horse power, have been getting better for 63 years—since 1838. Every line of their construction, every detail of their manufacture, has been hammered out on the anvil of practical experience—the experience of a lifetime. Their reputation covers the years gone by—it will be maintained in the years to come. Ask your dealer about these tools. Send for our **New Iron Age Book**. It cost us money but it's free to you.

No. 6. Iron Age Double and Single Wheel Hoe, Hill and Drill Seeder.



**BATEMAN MFG. CO.**  
Box 25  
Grenloch, N. J.

No. 1. Iron Age Double and Single Wheel Hoe.



**He'll Never Let Go**

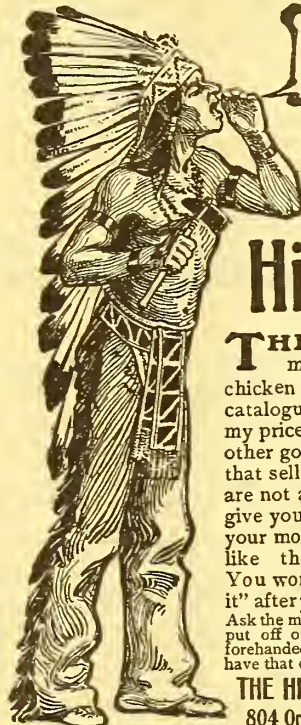
of the two legged hatcher. He doesn't look down on the hen—he fixes her up and he uses her in his business. He's the kind of boy that gets money out of poultry. If you will follow the natural plan and use the hen's instinct you will win success with the

**Natural Hen Incubator.**

It costs but little—\$3.00 for the 200 egg size. You have the hen on your side. Don't ever forget that she knows how. Just give her a chance. She will work out success for anybody with the Natural Hen. Any worker can make big wages selling our plan for it sells on sight. You need to know. Write us. Catalog and 25c Lice Formula Free.

**NATURAL HEN INCUBATOR CO.,**

Box B-1, Columbus, Nebr.



**On The War Path**

Not for "Scalps" for I'm a "Friendly" but for orders for the

**Hiawatha Incubator**

**THE "Honest Injun" Hatcher.** This is the machine you need if you want to make a success of the chicken business. Get my catalogue. You will see that my prices are lower than any other good machine. Those that sell as cheap or cheaper, are not as good as mine. We give you every last penny of your money back if you don't like the **Hiawatha**. You won't "take a farm for it" after you have used it once. Ask the man that runs one. Don't put off ordering any longer. Be forehanded. Do it now. Let me have that order. Write today to



Not the Oldest  
**BUT THE BEST**

**THE HIAWATHA MFG. CO.**  
804 Oregon St., Hiawatha, Kaz



right she burned up the eggs to keep warm.

**DRIED BONE—EGG MAKERS.**

1.—I have a lot of dried bone 2 years old, would you advise giving it to fowls, and in what quantity? Shall I scatter it dry?  
 2.—Can you recommend Lee's Egg Maker or Sheridan's powder? Or what will make hens lay?

Mrs. G. W. Y., Chester, Tenn.

1.—You can tell by the odor whether the bone is fit for use or not. Try a small quantity at first and note results.

2.—Good results are reported from the use of both the articles mentioned. The writer has never had occasion to use an egg tonic, depending on the feed and breed.

**TURKEY — WATER GLASS — FROZEN COMBS.**

1.—One of my turkeys fell from the perch with her head on her back. Turned her head around many times. This happened on two occasions. Can you tell what was the matter with it?

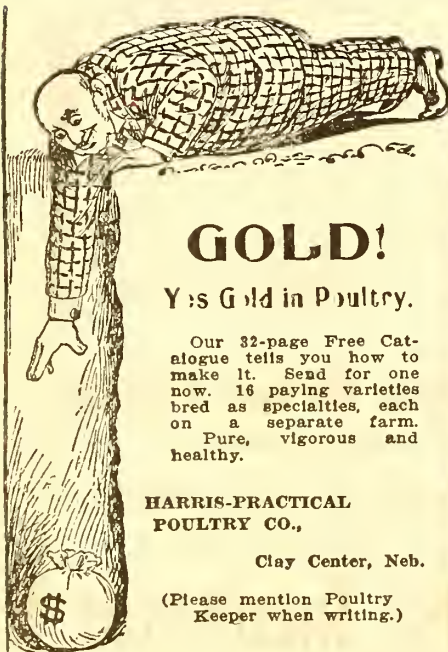
2.—Are eggs that have been packed in water glass good for hatching?

3.—Will Leghorn combs that have been frozen and turned black become red again?  
 A. C., Cambridge, Minn.

1.—We cannot tell from the symptoms what was the matter with the turkey but are inclined to think it had fits.

2.—No.

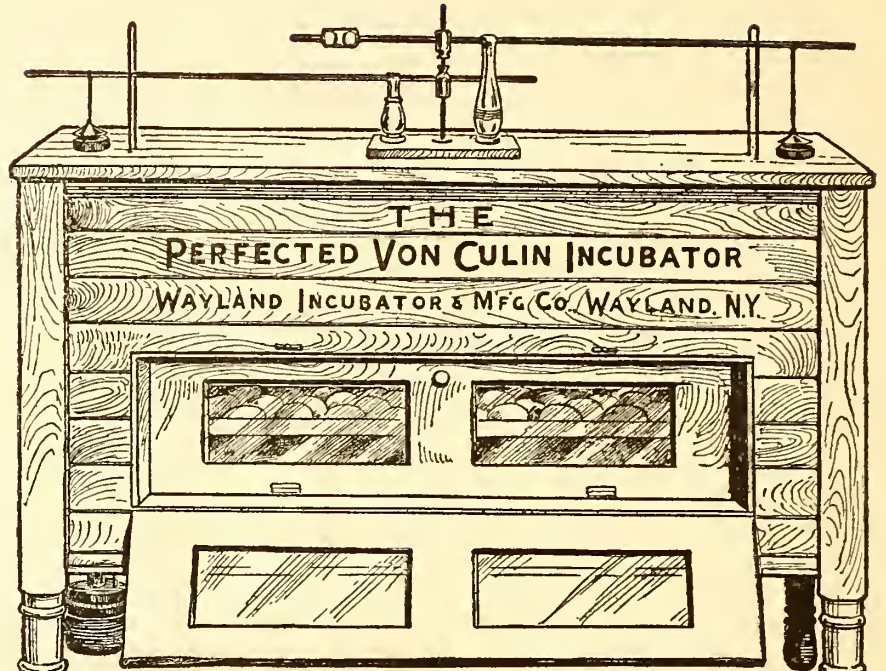
3.—If not too badly frozen they may become red.



**GOLD!**  
 Yes Gold in Poultry.

Our 32-page Free Catalogue tells you how to make it. Send for one now. 16 paying varieties bred as specialties, each on a separate farm. Pure, vigorous and healthy.

**HARRIS-PRACTICAL POULTRY CO.,**  
 Clay Center, Neb.  
 (Please mention Poultry Keeper when writing.)



*The Newest Incubator of the Oldest Maker.*

**A Growth of 30 Years**

An incubator which has been made and successfully sold and used for more than a quarter of a century ought to be and is a better machine to buy than one which is untried and without record.

**The Perfected Von Culin**

is the most perfect Incubator on the market. Its inventor, Mr. C. Von Culin, began making incubators in 1873 and has been at it ever since. Don't you think he must know more about incubators than those who have not had his experience?

Let others experiment. Be on the safe side; buy a Von Culin. They are no experiment; they are **perfected**.

Heaviest double packed walls of any incubator. Kiln dried lumber. Largest heating flues. Metal safety lamp. Best and most sensitive Regulator. Tested Thermometer and an Egg Tester Free.

This machine only uses about  $\frac{1}{3}$  as much oil as others and will give you 20 per cent better hatches. It requires very much less care and attention than others. Figure out for yourself what this means not only for one season but during the life time of the machine. Why not get the **best** and be satisfied. Our "**Boiled Down**" Catalogue tells in a simple, clear way and in few words what you want to know. We send it free if you write.

The Price? It will make it easy for you to buy. Write now.

**Wayland Incubator & Mfg. Co. Box 52, Wayland, N. Y.**

Sole Makers of Von Culin Incubators and Brooders

**See ds For Special Crops For Poultrymen.**

Plant Seeds That Yield Forage and Food Crops For Poultry. We have arranged to supply at same prices charged by the big seed houses, seeds for planting special crops of value and use to poultry growers. Every practical poultry raiser knows how much of his success depends on his knowing how to provide feed and forage.

**MAMMOTH RUSSIAN SUNFLOWER SEEDS**  
**DWARF ESSEX RAPE**  
**Kaffir Corn**

Mammoth white variety, yield very prolific and running from 50 to 75 bushels to the acre. Requires only 2 lbs. to seed an acre. Makes a cheap and valuable poultry food and is good for egg producing. Growing sun-flower plants provide ideal shade for birds during hot summer days. Price, 25 cents per pound, prepaid.  
 Produces best forage crop poultry can have. Makes good green food and fine pasture two months after planting for all kinds of stock. Price, 25c per pound, prepaid.  
 Valuable forage plant, growing 5 to 6 feet high. Seed yield 50 bushels to acre and good for feeding poultry and all kinds of stock. Price, 25c per pound, prepaid.

Address, Poultry Keeper Publishing Company, - Quincy, Illinois.



**ARTIFICIAL HEAT IN POULTRY HOUSE.**

Tho' I know the general opinion is against artificial heat in hen houses, it seems to me that a judicious amount under certain conditions would be beneficial. For instance: Take a long building divided into square pens, partitions between pens being of boards only two feet up from the floor and thence to the roof-wire, (the roosts also solid board partitions). This makes a big room to keep warm (144 feetx15 feet wide). Now, to ventilate by the windows and get sufficient ventilation to keep the building "sweet" cools the house rapidly and makes it a pretty cold room at night.

This house is used for S. C. Leghorns and there are days of driving storm and cold wind when it is impossible to have a single window open.

Then comes the trouble. The heat from 360 hens and their 24 escorts as it strikes the cold walls and roof becomes moisture and the entire house feels damp as one enters. This we all know is bad and that brings me to my point.

Why would it not be a good plan to put a small coal heater in a lean-to attached to the end of this building and thence running a one and one-quarter inch flow pipe and a one and one-quarter inch return pipe for hot water under the droppings boards and against the north wall of the house? I should think that one would gain just enough warm air to keep the droppings from freezing solid (as they do), to dry up the condensation of moisture (or heat, rather, into moisture), and keep the temperature of the house up to, say, 55 or 60 degrees. What do you think?

- 1.—Would these tend to increase the yield of eggs—other things being equal?
- 2.—Would it make the hens any more susceptible to roup or colds?
- 3.—Would the coil of piping I suggest have the volume of heat I specify?
- 4.—Would you use it in your poultry buildings if some one put it in free for you? (Would you have it as a gift?)

D. W. G., Fortsville, N. Y.

1.—Anything that will make the house dry will tend to increase the egg-yield. A damp house is not only detrimental to the health of the fowls but has a depressing effect on laying.

2.—It would be liable to make them tender. We have used heat in a poultry house and at the time thought it beneficial. It must be used judiciously. We would not attempt to heat the house above 50 degrees, as this will probably dry out the moisture if a small opening is made.

3.—We do not think one out-go and

**30 Days**



**Free Trial**

We are not afraid to trust people with so trusty a machine as the

**Royal Incubator**

It works right and we know it. We let you try before you buy so you'll know it. Ask for our on trial plan. No obligation if you should not think well of it.

Incubator and Poultry Catalog free. With fine poultry paper 1 year, 10 cents.

**ROYAL INCUBATOR COMPANY,**  
Dept. 47, Des Moines, Ia.  
Also breeders of fine poultry.

**Success**

with  
**Poultry**

Contains **MORE** and **BETTER** Practical, Reliable Information on the general subject of

**POULTRY FOR PROFIT**

Than any other book published. It treats of every branch of

**Practical Money Making Poultry**

And Gives the Cream of Established Facts. The book was Especially Compiled to help those who are about to embark in the poultry business. It is printed on embossed book paper, handsomely illustrated with new half tones and etchings.

It contains **118 Pages** (9x12 inches in size) and **Cover and is The Best Poultry Book Yet Published.** Contents (briefly stated) are as follows:

- How To Get Started.**
- Leading Standard Breeds.**
- Characteristics of Breeds.**
- Practical Poultry Houses (Plans).**
- Fowls; Care and Feeding.**
- Model Brooding Houses (Plans).**
- Care of Adult Fowls.**
- Feeding for Eggs.**
- A Hen Catechism.**
- Feeding Young Chickens.**
- Care of Growing Stock.**
- Artificial Incubation.**
- Incubator Cellars.**
- Broilers and Broiler Raising.**
- Care of Brooder Chicks.**
- Pekin Ducks for Profit.**
- 5000 Ducks on Two Acres.**
- Starting with Standard-bred Poultry Profitable Egg Farming.**
- Turkeys; Care and Management.**
- Capon and Caponizing.**
- Poultry and Fruit Combined.**
- Diseases of Poultry.**

The publisher's price of "Success With Poultry" is \$1. We will send it postpaid and Poultry Keeper one Full Year for price of the book alone, \$1. If already a subscriber, we will extend your subscription one year and send the book to any address you furnish. If taken alone the price of "Success With Poultry" is \$1. Address

**POULTRY KEEPER PUB. CO.,**  
QUINCY, ILL.

Want a **GREEN Bone Cutter?**

The only ball bearing bone cutter made, is

**The Adam,**

runs easily, cleans itself, makes bone cutting play. Pays for itself in the egg basket. Cuts clean, fine shaving. No slivers, no rough pieces. Will make your hens lay. See our new Catalog No. 55 before you buy. Free.

**W. J. ADAM,**  
Joliet, Ills.

**Supply Your Poultry**

If you expect them to supply you. It is a good rule that works both ways. Try it. We carry a complete line of the best of

**Everything for the Poultry Business**

Incubators, Brooders, Oyster Shells, Grits, Foods, Roup Cures, Cholera Cures, Egg Producers, Beef Scraps, Meat and Blood Meals, Bone Cutters, Grist Mills, Food Cookers and hundreds of other items for poultrymen. Our descriptive, illustrated catalogue makes good reading; is **FREE** for the asking—gives many comprehensive ideas to any one interested in poultry. If interested in pigeons, ask for Pigeon Supply Price List.

Write for Catalogue G **W. J. Gibson & Co., (Inc.) Union Stock Yds., Chicago.**  
H. M. Horton, Dept. Mgr. Gen'l Western Agents Cornell Incubators and Peep O'Day Specialties.



one return pipe will heat the building to 60 degrees on a cold day.

4.—The writer could not use heat in his poultry houses, as they are on the plan of the "open house." The pens are 10x16 feet, 8 feet of the front being left open. These houses are always dry and fowls that have been reared in the open air, for generations, with the view of hardening them to resist cold, do well in them. The thermometer has fallen to 16 degrees below zero this winter but none of our Leghorns have had a frozen comb yet.

**OUT OF CONDITION.**

I find your question and answer column in the "Poultry Keeper" very helpful and I would like to ask a question. I have a pen of pullets, April hatched, a number of which stretch out their necks and gape just like a young chick with the gapes. They have a good appetite. I have been feeding them a mixed grain ration (wheat, oats and cracked corn) night and morning; and a mash composed of wheat-bran, middlings, corn meal and beef scrap at noon. They seem bright and lively but their combs are pale and they are not laying.

A. H. W., Cobleskill, N. Y.

1.—The pale comb indicates that they are out of condition, and we are inclined to believe they had worms. Give each bird a teaspoonful of oil of turpentine, followed by a like quantity of castor oil. Once a day, in their soft food, place a teaspoonful of Venetian red for each six fowls.

**FISH FOR POULTRY.**

Is fish good for chickens, either salted or fresh? I live close to a fish hatchery and can get all the fish I want. Have never seen fish mentioned as a food for poultry. Also kindly let me know what quantity to feed, if good for them. Will not wheat-

bran do just as well as corn meal in curing cut green bone and meat? Can you tell me whether the process for curing cut green bone and meat will work with fish?  
R. A. W., Red Bluff, Cal.



**Pearl Ring Free**

Cut out this ad. and send it with name and address for one to  
W. PROCKYR, Providence, R.I.

**CAUSES OF UNEVEN HEATING**

The fault of some incubators is that their heaters and regulators "go on a strike" a good share of the time; sometimes the eggs get a cold draft—then get an overheated current of air. You don't have to worry over results with a

**GEM INCUBATOR**

Our heating arrangement keeps the temperature of the entire body of air in egg chamber within just the right hatching limits. No overheated center circulation—no frigid corners. Tubs and scores of other reasons make the Gem a favorite, high per cent hatcher. Write for free catalogue and read—then buy.



**GEM INCUBATOR COMPANY, DRAWER D DAYTON, OHIO**

**It's Chicken Manners**

to eat just as fast as they can while there is anything good in sight; then they are glad to eat gritty substances so they can work their meal into a digestible condition.

**DARLING'S CROCKERY GRIT**

is unequalled for this purpose. It is specially prepared by us and it's just for poultry. We have a complete line of poultry foods which are sent packed in 100 pound bags. Prices are f. o. b. Chicago, cash with order. Darling's Crockery Grit, .60; Crushed Oyster Shells, .60; Darling's Clover Meal, \$2.00; Laying Food \$2.25; Chick Food \$2.50; Mica C. Grit .65. We manufacture and supply Beef Meal, Beef Scraps, Concentrated Meal and Granulated Bone. *Literary Note:* "Fill the Egg Basket" is for free distribution. It tells you how it's done.

**Darling & Company, Dept. 29 Union Stock Yards, Chicago.**

**Millville Birds Win**

**AT NEW YORK, 1904**

**CHAMPION BUFF ROCKS RETAIN THEIR TITLE.**

Winning 2nd and 5th, Cock; 1st, 3rd and 4th Hen; 2nd Cockerel; 1st and 2nd Pullet; 1st and 3rd Pen. American Buff P. Rock Club Cup for best Cock, Hen, Cockerel and Pullet and nearly every other Special offered.

**THIS RECORD WAS MADE IN THE BEST CLASS OF BUFF ROCKS EVER SHOWN. WE DID NOT SHOW A SINGLE BIRD FROM OUR 1903 BOSTON CHAMPIONSHIP STRAIN. . . . .**

No other farm in the Country has ever made such a New York record.

**WHITE WYANDOTTES**

Won 2nd hen; 2nd pullet; 5th pen (in 19); tied for second collection, and we bought the 1st pen.

**Buff Wyandottes** Won 4th cock; 1st hen; 2nd collection, and special for best female. We bought 2nd cock, and 1st pen.

Millville Matings for 1904 are 50 per cent stronger than in 1903, and will produce the winners for St. Louis and 1904-5.

Millville pairs, trios and pens will do you good, and please you, or you can get your money back, and return at our expense.

Millville Catalogue for 1904 will be the best yet, and is yours if you mention this paper. Not much to ask, surely.

Millville Farm wants you for a customer, and will go more than half way to make you a permanent one, if you will try us.

**Millville Poultry Farm Co.,**

M. F. DELANO, President.

Box I, Millville, N. J.



Fresh fish is excellent meat food for fowls, and fish meal is used some in the east. Salted fish would have to be freshened some before feeding. Wheat-bran will not take up the moisture as well as corn meal, but might answer the purpose. We have never known of fish to be cured by this process but judge it could be done. Feed fish the same as meat and bone, commencing with a small quantity and increase until ½ ounce per fowl per day is fed.

**SWELLED HEAD — BUNCH ON LIMB—ROUGH SHELLED EGG.**

- 1.—I have a Black Minorca hen whose left eye is badly swollen. It looks as if someone had pulled the lower eyelid down and put something hard under the skin, as it is very hard and extends to the corner of the mouth. I have been washing it in warm salt and water, and applying an eye wash. It seems to be getting larger instead of smaller.
- 2.—The same hen is lame in her left leg, under the first joint where the thigh joins onto the body, is a lump about the size of a bird's egg, and very hard.
- 3.—I have a Barred Plymouth Rock hen which began laying about two weeks ago and laid every day for a week, then every other day. Her eggs were white and rough as could be near the small end, and in the very end of the egg was a small spot about the size of a lead pencil. This spot was of a different color, looking like a piece of glass, and was clear and hard. All of the eggs were the same. I would like to hatch her eggs, but do not think they will hatch.

J. H. L., Harvey, Ill.

1.—Swelled heads are very common at this season of the year. For remedy see answer to B. W. R., in this department under the caption, "Feeding and Mating Buff Orpingtons—Swelled Head."

2.—Anoint the lump with the same remedy used on the head.

3.—The malformation of the egg shell may be caused by the material supplied the hen for making shell, or may be the result of the condition of the oviduct.

**LAYING AGE—FEED AND YARDS.**

- 1.—When will chicks 4 months or 9 months old lay?
- 2.—I feed corn, oats and little sunflower seed at night in litter and corn meal, bran, or middlings and little beef scraps every morning. What do you think of that feed when hens have green stuff all the year round?
- 3.—My houses are 8x10 and I am going to put 9 hens and 1 cock in each and I have yards 60x60, and when the weeds are killed I will plow it up and sow oats or barley.

L. H., Waverly, Ala.

1.—It depends on the breed and how well they have been kept. With good care Leghorns should lay at from five to six months; Plymouth Rocks and Wyandottes from five to seven months; Brahmas six to nine months.

2.—The ration is fairly good if the supply of green food is always sufficient.

3.—It is a good plan to plow up the yards often to get rid of weeds and filth, but would it not be a good plan to sow grass seed with the oats or barley?

**CREATING A DEMAND FOR ESPECIALLY FATTENED POULTRY.**

I wish you would publish a little article on the best way to work up a demand for the chickens after they have been fattened by the cramming process.

C. R. T., Pittsburg, Kan.

We hardly think this necessary as the demand is already created and is away in excess of the supply. The bulk of poultry that reaches the city



## PRIZE WINNERS

Our S. C. W. Leghorns and White Wyandottes prove their quality by their winnings. Won first at both St. Louis and Chicago 1903 Shows. Our birds and prices on birds and eggs are right.

### Mrs. Pinkerton's Chick Food

The food that's good for little chicks—a well balanced ration prepared to meet troubles prevalent with small chicks. It controls the bowels and prevents loss. Will save its cost in a short time by saving lives of chicks. Makes 'em grow faster. Send for catalog—it's free.

Write us for advice. We're always glad to help you learn how to raise and feed little chicks. Don't fear to ask questions. We want you to make money the easiest and quickest way.

Anna L. Pinkerton Co.  
Box 32, Hastings, Neb.





## The Latest Thing

in Bone Cutters. Sent on Free Trial. Guaranteed to cut all kinds of bones with all adhering meat and gristle, easier, faster, in better shape and with less fuss and bother than any other bone cutter.

### Mann's Latest Model.

Sent on Ten Days' Free Trial. No money asked for until you prove our claims on your own premises. If you don't like it, return it at our expense. Isn't that better for you than to pay for a machine you never tried? Isn't it fairer than so-called "trial offers" and "guarantees" which demand cash in advance? Catalogue explains all.

F. W. MANN CO., Box 57, Milford, Mass.  
Granite Crystal Grt., Feed Trays, Champion Corn Shellers.

# INCUBATOR WALLS MADE OF FEATHERS



## FEATHER INCUBATOR

The Feather Incubator is a high per cent hatcher. Like the hen and her nest it imitates nature by regulating its fresh air and moisture supply through the feathers. The

is unique yet successful. It will hatch strong, hearty chicks in any place where a hen can hatch them. No overheating—our double, scale-beam regulator keeps the heat at the right degree. Write for our new, free catalog and don't buy an incubator till you read it.

Zimmer Incubator Co., Dept. 1, Ft. Wayne, Ind.

# NORTH SIDE POULTRY YARDS, Silver, Buff and White Wyandottes.

We don't claim the best in the world, but we have them as good as any one. Our record in the show room the past ten years will prove it, winning our share or more at such shows at Chicago, Boston, Philadelphia, St. Louis, Kansas City and Des Moines. Won this winter on Silvers at Chicago, 1st cock; 3rd hen; 4th cockerel; 1st, 2nd, 3rd pullet, 1st pen on 9 entries. This, in the hottest competition, winning 7 points more than any other exhibitor. Also 5th pen in W. Wyandottes. Our 1st pullet at Chicago pronounced by a number of judges the finest they had ever seen. St. Louis, same week, on Silvers, 3 entries, we won 1st pullet and 1st pen. 100 cockerels, good breeders, \$2 to \$5; 100 pullets, \$2 to \$4; trio, \$5 and up; pen, \$10 and up; 300 head, with score cards, by Shellabarger and Tucker, at living prices; 2 pens of Buffs, cock and 6 hens, \$20 per pen; one pen headed by the 3d cockerel at Chicago last year and 6 hens, \$25; 2 pens of Whites, cock and 4 hens, \$10 and \$15. Send for circular and be sure to mention Poultry Keeper.

A. & E. TARBOX, Box 2, Yorkville, Ill.



markets is rather uninviting and choice lots are picked up quickly at prices in advance of market quotations. The writer has seen choice roasting chickens sell rapidly at 22 cents when common stock was moving slow at 12½ cents per pound.

**COOKED OR RAW VEGETABLES.**

Please inform me if it is advisable to cook vegetables for laying hens?

B. S. P., Lacona, N. Y.

Any vegetable that fowls will eat raw is best served that way. We gain nothing by cooking unless it is to be used in a mash to give bulk.

**HOUSE — FEEDING — RAISING CHICKS WITHOUT A BROODER.**

1.—I have thirty-five White Leghorn hens in a new hen house 14x20. I enclose a rough plan of the ground floor. Would you advise any change that would not be too expensive? It is boarded up and down with 1x12 plank stripped with 4-inch strips.

2.—I am new at this business, and don't know how to feed them to make them lay. I have corn, beef cracklings and one hundred pounds of middlings, but will have to buy all other rations. Please tell me as near as you can what to get and how to feed them. The hens are from six months to two years old.

3.—Can I buy bone already ground, if so, where? I don't want to go to the expense of buying a bone cutter now and if I had one I could not get any bones.

4.—Is it practicable to try to raise incubator chickens without a brooder after November?

B. M., Cardinal, Va.

1.—The style of house is immaterial so long as it is dry. Other arrangements are for the convenience of the attendant.

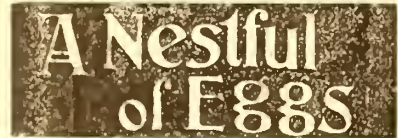
2.—Two parts middlings, one part corn meal and one part wheat bran will make a fair mash. The addition of one part of buckwheat middlings or gluten meal would greatly improve the mash. If you do not have plenty of green food, such as vegetables or ensilage, you should feed some clover or alfalfa hay, cut fine, in the mash. The beef cracklings may form about ten per cent of the mash. If you feed whole corn leave the corn meal out of the mash.

3.—Cut green bone is sometimes sold by butchers. It should be fresh when fed. Some preserve it. The beef scrap will answer the purpose very well.

4.—No. Neither is it practicable to attempt to raise chicks in outdoor brooders in winter.

**MAKE HENS LAY**

No matter what kind of foods you use, mix with SHERIDAN'S CONDITION POWDER. It will increase your profits this fall and winter. It assures perfect assimilation of the food elements needed to form eggs.



May be obtained in winter if you do as many successful poultrymen do, namely, mix daily with the mash food Sheridan's Powder. Has been used and indorsed over thirty years.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1 20. Book free. T. S. JOHNSON & CO., Boston, Mass.

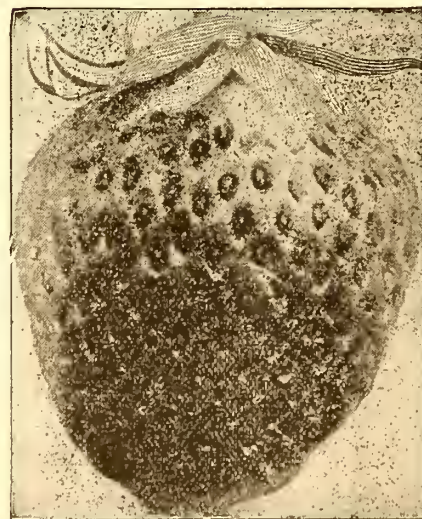
**HEALTHY TREES** Free from diseases. Honest in quality. Grafted Apples, 5¼c; Budded Peaches, 5c; Budded Cherries, 20c; good varieties. Concord Grapes, \$3. per 100. 1000 Ash \$1.20. B. and H. Locust, Rus. Mulberry, &c. Low price. We pay freight. Catalog free. Galbraith Nurseries, Box 78 Fairbury, Neb.

**EVERGREENS**  
Hardy sorts, Nursery grown, for wind-breaks, ornament and hedges. Prepaid, \$1 to \$10 per 100—50 Great Bargains to select from. Write at once for free Catalogue and Bargain Sheet. Local Agents wanted. Evergreen Specialist, Dundee, Ill.

**FRUITFUL TREES**  
Healthy, hardy, vigorous trees; finest varieties; honest values. Apples, 5¼c; Peach, 6c; Concord Grapes, 25c per 1000; Rambler Roses, 25c; Black Locust and Russian Mulberry, \$1.40 per 100. Freight prepaid. Catalogue free. Gage County Nurseries, Box 613 Beatrice, Neb.

**Hammond's Seeds Lead**  
in vigor, yield, earliness and quality. Better cannot be had. Prices very low. We can save you money. Northern Grown always the BEST. Our handsome 100-page catalogue of Garden, Field and Flower Seeds mailed free on request.  
**Harry N. Hammond Seed Co., Ltd.**  
BOX 71. BAY CITY, MICH.

**FREE—GREAT CROPS OF STRAWBERRIES AND HOW TO GROW THEM.**



A strawberry book written by the "STRAWBERRY KING," so called because he discovered the way to develop the fruit organs in a plant and make it grow two big berries where one little one grew before. He grows the biggest crops of the biggest berries ever produced and the book tells all about how he does it. It is a treatise on PLANT PHYSIOLOGY and explains correct principles in fruit growing. It is worth its weight in gold to any fruit grower. Will be sent free to all readers of Poultry Keeper. Send your address now. The finest THOROUGHBRED PEDIGREE PLANTS in the world.  
**R. M. KELLOGG, Three Rivers, Mich.**

**SEEDS**  
BUCKBEE'S SEEDS SUCCEED!  
**SPECIAL OFFER:**  
Made to Build New Business. A trial will make you our permanent customer.  
**Prize Collection** Radish, 17 varieties; Lettuce, 12 kinds; Tomatoes, 11 the finest; Turnip, 7 splendid; Onion, 8 best varieties; 10 Spring-flowering Bulbs—65 varieties in all.  
**GUARANTEED TO PLEASE.**  
Write to-day; Mention this Paper.  
**SEND 10 CENTS**  
to cover postage and packing and receive this valuable collection of Seeds postpaid, together with my new Instructive, Beautiful Seed and Plant Book, tells all about the Best varieties of Seeds, Plants, etc.  
**H. W. Buckbee** ROCKFORD SEED FARMS  
Dept. L. ROCKFORD, ILL.

**Corn**  
We challenge the world to produce a more prolific, early, high eared corn variety than Salzer's Home Bullder, so named because 50 acres of this fine corn yielded so heavily in 1902, that its net proceeds built a beautiful home for the lucky possessor. See catalog.  
Here are some of the yields our customers had of this corn in 1903:  
157 bu. per acre. By John Flagel, La Porte Co., Ind.  
160 bu. per acre. By O. E. Michael, Mont. Co., O.  
196 bu. per acre. By Richard Spaeth, Lake Co., Ind.  
198 bu. per acre. By J. D. Walker, Hamilton Co., Tenn.  
220 bu. per acre. By Lawrence Scheistel, Ogemaw Co., Mich.  
225 bu. per acre. By J. W. Massey, Crockett Co., Tenn.  
304 bu. per acre. Ray Stearus, Ransom Co., N. D. says: "Ripened in 120 days. Yielded 304 bu. per acre. Next year I will grow 400 bu. per acre from it."  
**National Oats.**  
Enormously prolific. Does well everywhere. It won't let your acre produce less than 160 bu. Try it.  
**Billion Dollar Grass.**  
Most talked of grass in America. Would be ashamed of itself if it yielded less than 14 tons of splendid hay per acre.  
**For 10c. in Stamps**  
and the name of this paper, we will gladly send you a lot of farm seed samples, well worth \$10.00 to get a start with, together with our mammoth 140 page illustrated catalog, describing such novelties as April Land Barley, Macaroni Wheat, Two Foot Oats, Pea Oat, Teosinte, Victoria Rape. Send the 10c. today.  
**JOHN A. SALZER SEED CO. LA CROSSE, WIS.**



**A GREAT INCUBATOR INDUSTRY.**

The following very interesting account of the factory of Standard Incubator Co., Ponca, Nebr., we clip from the leading newspaper of that place:

The Standard Incubator Company has built up an industry, which in success and magnitude is only equaled by one other concern in North Nebraska.

Its works are located within two blocks of the post office and it owns two acres of the choicest real estate in Ponca on which its shops, storerooms, etc. etc. are located, and are being added as the demand for its Superior Incubators increase.

The company's present wood working shop and machinery is now capable, technically speaking, of completing an incubator ready to be put together, every two minutes. Of course to accomplish this labor saving machinery never before used in wood working was invented and made. For instance, the first two coats of filler and paint are put on by rollers and brushes run by machinery.

Our readers must not suppose that because much of the work is done by machinery that it is ill looking or shabby in construction, for on the other hand there is no doubt that the U. S. Standard Incubator is one of the best built and most successful put on the market.

To keep up the reputation and standard of this incubator requires constant care and close inspection in order that not once shall an imperfect machine be sent to customers.

These machines when finished resemble mahogany, and the screws, washers, corner pieces and trimming generally are all nickle plated. No household furniture except perhaps the piano can compare in beauty and finish to the "Standard Incubator."

The full glass top panel on each of the three sizes of incubators which the company manufactures, not only add to the beauty of the machine, but are most gratifying to the operator who can read the temperature at all times and watch the process of hatching chicks as well.

The Standard Incubator Company has come to stay and is now a permanent institution and best of all every member of the company who manage it are men of integrity, belonging to the early settlers of Nebraska and some of them well known over our state.

The manufacturers pay all freight charges. Poultry Keeper readers can secure a free copy of the Standard catalogue by mentioning Poultry Keeper and addressing the Standard Incubator Co., Ponca, Nebr.

Green Cut Bone makes hens lay, gives them vitality, makes their combs red, their flesh delicious and beautifies their plumage. To get green cut bone fresh, in the most economical way, grind it on the premises in an Adam Green Bone Cutter. It is a strong, rigid machine, runs on ball bearings, all parts interchangeable, easily cleaned, cuts hardest bone and turns it out in a granular condition in the most convenient size for chicks and hens. Mr. Adams' booklet on the subject is as valuable as a text book. It is free. See page 557. Write W. J. Adam, Joliet, Ill., and mention P. K.

The Alfalfa Meal Co., Omaha., (see ad on page 537) are putting on the market a new product known as Payne's Alfalfa Meal, being the alfalfa plant raised under irrigation in Western Nebraska on their own farms, cut at the proper time, cured by the most approved methods, kiln dried, pulverized into a meal and sold on the market for just what it is, namely, a pure article at a fair price. Alfalfa meal is a green food and analyzes higher in protein than clover, bran or shorts.

On page 546 will be found a new advertisement of Harding's Baby Chick Food which contains an offer of a free catalogue that we know every poultryman will appreciate. Besides giving a full description of the many valuable preparations manufactured by this pioneer poultryman, it contains valuable points on a most vital subject—raising little chicks successfully—that will well repay anyone for the trouble of writing for a copy. It is safe to say no preparations on the market enjoy a more extended sale or more favorable reputation than Harding's Uncle Sam's Poultry Foods and Remedies. That they possess real genuine merit is evidenced by their phenomenal sale and the fact that they are backed by a money back guarantee to be just as represented. Their remarkable success is not due to luck, but to practical, every day experience and experiments from which their composition was conceived. That's why they meet the every need—that's why they succeed when nothing else will. When you write for above catalogue, address (Geo. L. Harding, Box 111, Binghampton, N. Y.

"The Star is the original no-moisture incubator, having perfected independent systems of heating and ventilating, so that all dangers of insufficient fresh air, excess of air and all the attendant dangers or supplied moistures are done away." The foregoing is an extract from the catalogue of the Star Incubator Company of Bound Brook, N. J. It might be considered the key note of the great success of this machine. "All manufacturers do not agree entirely upon the no-moisture idea, but it must be conceded that the Star has a most remarkable record as a hatcher. The Star people do not contend that moisture is not necessary, but that in their machine, this moisture is supplied naturally and in just the right quantities at the right time, solely through their superior means of ventilation. They contend that separately supplied moisture is altogether unnecessary. Not only unnecessary, but there's hazard every time it is attempted. Their catalogue discussion of this matter seems most reasonable and is well worthy the study of poultrymen. Ventilation, the heating system regulation and simplicity are features it depends upon for its uniform high results. The Star is unquestionably an incubator of the first rank. Poultry raisers will find in the catalogue which describes it a plain reasonable discussion of all incubator essentials. It is one of the best catalogues from which to gather right notions of the poultry business. The Star ad on page 550 shows a remarkable reduction in price of this reliable machine. Send for the company's catalogue. They will mail it free.

Among the interesting exhibitions planned for the St. Louis Exhibition is the concession for a Model Poultry Farm. It is the intention of the promoters of this exhibit to show the raising of poultry in all stages. "From egg to table" is their motto. It is the plan to have a restaurant serve poultry dishes exclusively in connection with the exhibit. Here one can get chicken or duck served in any imaginable style. This exhibit will, of course, require incubators and brooders. The manufacturers in these lines have been most anxious to secure the contract. After a careful investigation the managers have awarded it to the Geo. Ertel Co., Quincy, Ill., and have adopted Victor Incubators and Brooders exclusively. Their contract with the Ertel Co. calls for 100 to 1,000 chickens hatched every day. This means from 30 to 60 of their large machines. 200 to 400-egg size. There will also be a full complement of brooders to take care of the newly hatched chickens as they come from the incubators. Visitors at this exhibit will have a chance to watch the processes of chicken hatching and raising from the egg until the tender young broiler is laid before them on the table. See page 505.

**SAVE SUBSCRIPTION MONEY.**

Don't be bothered with sending subscriptions to your magazines and periodicals to each different publication. Let US Send For You and Save Money. We have Clubbing Rates on everything published. If the following offers do not include what you want send list on postal and we will quote price by return mail. The following offers include the highest grade publications in the country. You know them all. When ordering please give club number.

**NO. 1.**

- Ladies Home Journal (monthly).....\$1.00
- Saturday Evening Post (special rate)... 1.25
- Success (monthly)..... 1.00
- Poultry Keeper (monthly)..... .50

Our price .....\$2.95

**NO. 2.**

- House Beautiful (monthly).....\$2.00
- Country Life in America (monthly)... 3.00
- Poultry Keeper..... .50

Our price .....\$4.40

**NO. 3.**

- Breeders Gazette (weekly).....\$2.00
- Country Gentleman (weekly)..... 1.50
- Poultry Keeper..... .50

Our price .....\$3.00

**NO. 4.**

- National Stockman & Farmer (w'kly)...\$1.00
- Green's Fruit Grower (monthly)..... .50
- Poultry Keeper..... .50

Our price .....\$1.50

**NO. 5.**

- Inter Ocean (weekly).....\$1.00
- Vicks Magazine (monthly)..... .50
- Poultry Keeper..... .50

Our price .....\$1.50

**NO. 6.**

- Farm Poultry (semi-monthly).....\$1.00
- American Poul. Advocate (monthly)... .25
- Success With Poultry (120-page bk)... 1.00
- Poultry Keeper (monthly)..... .50

Our price .....\$1.95  
Address, Poultry Keeper Pub. Co., Quincy, Ill.

**BARGAINS-- SCOTCH COLLIES, Servants, Protectors, Companions. White Wyandotte cockerels.**

**POTTS BROS., Box BB, Parkersburg, Pa.**

**POULTRY PUBLICATIONS.**

Poultry News, 25 cents yearly, illustrated, instructive, interesting. Has special departments on Pigeons, Bees, Turkeys, Water Fowl, Hares, Pet Stock, Farm and Home. Sample free. Ad. rate 70 cents an inch. Circulation over 7,500 copies monthly, New Brunswick, New Jersey. 9-x

**J. T. French,**  
28 W. Grove Place,  
Toledo, Ohio.  
Barr'd Ply-mouth Rocks of the 1st quality.  
1st Cock; 5th Pullet at Chicago, Dec. Hewes, Judge.  
Eggs from correctly Mated stock \$3 per 15 straight.

**Yourke's Rheumatic Combination**

**FREE TO ALL.**

This Remedy is the Greatest Rheumatic Cure ever placed on the market. Acts at once, pains stop almost instantly. It is nothing short of marvelous, words cannot express it's wonderful curative powers. Hot Springs a thing of the past after using my combination. Shipped free, write today, send your name and address, without stamps or money.

**Yourke Remedy Co.**  
Box 622 Detroit, Mich.

**Pilling Poultry Marker.**

The Pilling Marker is a popular and convenient device for marking chicks by which means the web between the toes can be marked so that different lots of chicks can be raised together, the owners having no trouble telling which is which. Punch is made in two sizes—adult and chick—price of either, 25 cents, postpaid. Or for 65 cents we will furnish full year's subscription to Poultry Keeper and send Marker postpaid.

**POULTRY KEEPER PUBLISHING COMPANY, QUINCY, ILL.**





#### GROWTH OF THE NEW IDEA INCUBATOR.

There is probably no industry in the country that has made such striking growth in a few years as the Incubator business. But with a single exception every business in this line has been developed along the same general plan. The single exception is the most remarkable and strikingly sudden success of the "New Idea" Incubator. The above view of their present factory gives some expression of their business achievement. Only three of four years ago "Harry" Snow, as he is called by his familiar friends, was working circulation and advertising schemes for one of the leading Poultry publications. The magnitude of the chicken business and its allied interests impressed him more for its possibilities than for its past. He had an idea: it was a New Idea. He put it in his mental incubator and in due time he got a 100 per cent hatch. When it saw daylight the idea was that lots of people all over the country not only wanted to run an incubator but would like to have the pleasure of building their own incubator.

Mr. Snow's idea interested his friend, W. H. Channon, a wealthy manufacturer and

capitalist of Quincy, and a company was formed to develop the New Idea. The start was made in one small room, with a hastily prepared circular. A striking plan of advertising was begun in a select list of leading poultry and other journals. From the very first the public endorsed the New Idea and in a few weeks more help was necessary and larger quarters. Last summer the building shown here was secured, enlarged and remodeled to meet the needs of this healthy infant industry. In these enlarged quarters with perfect manufacturing and shipping facilities, Messrs. Channon, Snow & Co. see the most satisfactory vindication of the New Idea; viz. success, and are able easily and promptly to meet all demands on them. Now, besides simply furnishing plans and fixtures, they are making and shipping complete machines to those who want the superior New Idea but lack the time or inclination to build the incubator themselves. Write for their catalogue, "How to Make and Save Money." It is a remarkably handsome book and sets forth the "New Idea Plan" in full and clearly. Address Channon, Snow & Co., Box D, Quincy, Ill. See page 534.

#### 466 EGGS FROM 23 HENS IN 31 DAYS.

Mr. I. Brittdahl of Fremont, Nebr., has a pen of 23 White Wyandotte hens which during the cold snap of January, while eggs were climbing up in price, laid themselves out to make a phenomenal record, and the result was that during the month Mr. Brittdahl collected 466 eggs from the pen. Mr. Brittdahl attributes his success to the fact that on September 11th he began feeding Standard Poultry Food and has kept it up ever since with the above gratifying results.

Standard Poultry Food in the past years has come to be regarded, by poultry raisers who have tried it, as the very best poultry food ever put on the market. It furnishes the most needed materials from which eggs are produced. It tones and strengthens the digestive organs so that more of the albuminous properties of the feed are utilized in egg production. It invigorates the egg producing organs so that hens lay more and lay longer. It helps without forcing, and not only increases the egg production, but improves the general health of the fowl. Three-fourths of a cent a month for each fowl is surely not an expensive proposition. Send to the F. E. Sanborn Co., Omaha, Nebr. for copy of their booklet, "A Hat Full of Eggs." See ad on page 547.

To have been a breeder of standard-bred poultry for twenty years is the strongest claim to confidence a breeder can make. This is the record of Mr. O. E. Skinner, Columbus, Kansas. His Cochins, Plymouth Rocks and Light Brahmas are among the best money making fowls of the country. His 1904 catalogue cannot fail to attract those who admire good quality. The book is free and we urge Poultry Keeper readers to send for a copy.

#### BREEDERS CARDS.

Too late to classify.

**STANDARD BRED** Single Comb White Leghorns exclusively. Eggs \$2 per 15. Stock eggs \$5 per 100. Few cockerels cheap. B. R. Daines, Hicksville, N. Y. 3-2

**WHITE PLYMOUTH ROCK EGGS** from high scoring hens. A Fishel cock at the head of the pen. \$1.25 for 15. J. L. Johnson, Lock Box 24, Shannon City, Iowa.

**WHITE WYANDOTTES** Large and blocky. Pure white, heavy layers. Premium winners. Eggs, \$2 for 15, \$3 for 30. Ten pens well mated, enabling prompt shipment. Davis & Diener, Maysville, Ky.

#### 450,000 TREES

69 Varieties. Also Small Fruits, Trees, &c. Best rooted stock. Genuine, cheap. 3 sample vines mailed for 16c. Descriptive price-list free. LEWIS ROESCH, FREONIA, N.Y.

#### IMPERIAL POULTRY FARM.

Barred Plymouth Rocks, White Plymouth Rocks and S. C. White Leghorns. Send two-cent stamp for handsome Art Folder of Imperial Poultry Farm and Stock: One of the largest Fancy Poultry Farms in this country. Eggs from my thoroughbred stock will certainly produce what you desire. A few White Rock and S. C. White Leghorn Cockerels to sell. Jas. C. Heath, F. R. D. 2, Valley Junction, Iowa.

#### WILBER'S S. C. WHITE LEGHORNS

Bred-to-lay. Known as leading strain of heavy layers and winners in largest Southern shows. Unexcelled for foundation blood or introducing new blood. Few excellent pens, trios, single cockerels and hens. Our 1904 breeding yards now mated (the best we have ever mated.)

If you want as good as the best, send for our beautiful free catalogue. Tells all, with prices, etc. Write your wants. Satisfaction guaranteed.

WILBER BROS., Box E., Petros, Tennessee.

#### LANDS SOLD FOR \$5 A MONTH

Poultry Farms in Arkansas and Missouri. 40 acre tracts \$4 per acre. Offered for \$50 cash, \$5 per month for 22 months. We pay taxes until last payment. No interest. Send for list of improved Farms in the South.

ENTERPRISE BROKERAGE CO., Quincy, Illinois.

#### Buff Leghorns

The oldest and best bred strain in the world. Bred in line for fourteen years.

#### Silver Penciled Wyandottes.

Our birds won First, Second and Third on Cockerels at Madison Square Garden. Our matings are of the highest order.

#### White Orpingtons.

We have two grand yards, sons and daughters of the best specimens ever seen. Yards headed by sons of the best living White Orpington Gock ever seen. A few Cockerels only of this variety for sale.

AUG. D. ARNOLD, Dillsburg, Pa.  
Mention Poultry Keeper.

#### AGENTS WANTED

Our scales make a good line with specialties, implements, machinery, mill supplies, nursery stock, separators, foods, etc. Fine catalogue, liberal contract, no expense, no experience. Write for full particulars. Act Quick.

OSGOOD SCALE CO., Binghamton, New York.  
226 Central St.

#### 100 PER CENT Hatches

Our new catalogue contains hundreds of them obtained by Buckeye Incubator users in all parts of the U. S. Send for copy and read the proof. It is free. Buckeye Incubator Co., Box 114, Springfield, Ohio.



#### American Standard of Perfection

The law of the American Poultry Association in fixing value of Standard Bred Poultry. Describes every point of every breed; plumage of all varieties; gives weights; outlines disqualifications; instructs judges, etc., etc. Cloth bound book, 255 pages. Price \$1. We send the book postpaid and furnish full year's subscription to Poultry Keeper for \$1.25.

ADDRESS

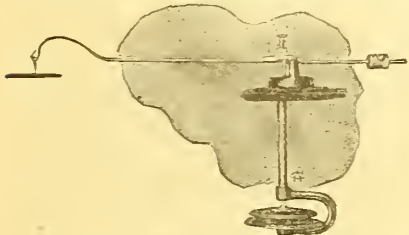
POULTRY KEEPER PUB. CO., QUINCY, ILLINOIS.



The poultryman or farmer who wants to make all the profit there is in poultry must necessarily be abreast with the new ideas and improvements pertaining to the poultry industry. Especially must he keep in touch with the manufacturer of poultry supplies. The catalogue published by the H. M. Sheer Co., Quincy, Ill., is of particular value to the poultry raiser. This



well known firm are extensive manufacturers of incubator lamps and regulators, and supply the majority of these appliances to the incubator and brooder manufacturers of the country. They also sell these supplies direct to consumers, and in this respect have been of much service to incubator operators. Their Acme Safety Lamp and Acme Compound Regulator have revolutionized the heating and regulating system in incubators. No one will ever regret



a careful consideration of these appliances which not only heat and regulate perfectly but guarantee safety, and practically take care of themselves. This company handles nearly every thing pertaining to the poultry industry, and makes a specialty of furnishing plans, fixtures and appliances for building your own incubator. They also make any special fixtures ordered. Their lamps and regulators are made to fit any kind of machine and any size. No poultry man should fail to get one of their late catalogs; it will not only help him out of any difficulty he may be experiencing, but will help him to make more money with his present equipment. Free to Poultry Keeper readers. See page 509 and address the company as directed.

**CHAMBERLAIN'S PERFECT CHICK FEED.**

Mr. W. F. Chamberlain: "I received your sample of Clover Meal; it is nice. Your Chick Feed beats anything I ever saw. I raised five hundred chicks last year and never lost one. I have been in the poultry business seven years. I have a large ranch and a great many houses; one thousand head of fowl. I was nearly discouraged when I commenced to use your Chick Feed, now I don't dread the chick season. I am going to send after the two settings of White Leghens as soon as I receive your catalogue. You can use this for adv. if you choose. I tell every one I talk 'chick' to." Mrs. J. G. Burdick, 40th St. Station, Denver, Colo.

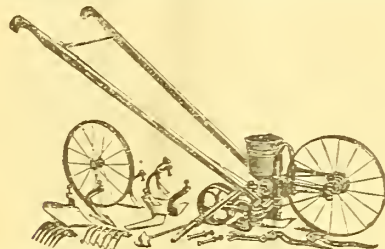
(See Chamberlain's Chick Food ad on back cover.)

During the poultry show at Indianapolis, February 8th to 12th, a Petaluma Incubator brought off what was almost a record hatch. 44 out of a possible 46 chicks. This is in keeping with the kind of work the Petaluma is doing everywhere. Where the fertile germ is in the egg the machine uniformly produces satisfactory results. The Petaluma catalogue will come free if you consult the ad on page 515 and address as directed.

The Elm Poultry Yards, Hartford, Conn. represent the best strains of White Leghorns, Barred and White Rocks, White Wyandottes, Black Minorcas and Light Brahmas. Their catalogue is well worth studying and Poultry Keeper readers will find it to their advantage to send for copy. It is free if you mention Poultry Keeper. Ad on page 531.

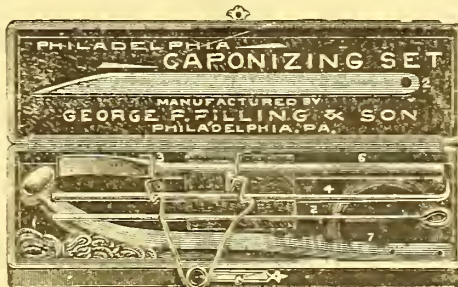
Considerable interest has been aroused by the proposition of the Scott Incubator Company, to place their business on a co-operative basis. A neat illustrated 32-page book gives full particulars and is sent free to any one who inquires for it. The Scott people have been doing a good business and making money, but they point out how they can do a great deal more business if they enlist the co-operation of a large number of stockholders throughout the country. "Every stockholder an agent and every agent a stockholder" is the corner stone of the proposition. Write to the company at the address given on page 533.

Every woman who is a garden worker will be interested in knowing that one of the well-known Iron Age garden implements now known as the No. 6 Iron Age Combined Double and Single Wheel Hoe Mill and Drill Seeder was originally designed especially for use by women. In response to a request for a garden cultivator made light enough to be used by the women of Holland, the tool illustrated herewith was designed with a frame of bicycle construction, consisting of pipe coupled to malleable castings, and braced in such a manner that it cannot break nor get out of shape. The cut shows the tool ready for sowing garden seeds in continuous rows or in hills at four, six, eight, twelve or twenty-four inches apart. The seed sowing



device is very simple and can be removed quickly, and the tool changed into a complete single or double wheel hoe by making use of the small working tools, extra wheel, etc., shown in the cut about the machine. The light weight of this tool, combined with the remarkable strength of same, cannot help but appeal to you as having excellent advantages, especially since this is a tool that is to be pushed solely by hand. The Iron Age implements, comprising a complete line of garden tools, horse hoes and cultivators, riding cultivators, two-horse walking cultivators, special trucking tools, potato planters, etc., are made by the Eateman Mfg. Co., Box 25, Grenloch, N. J., who will be pleased to send their catalogue free to all who make inquiry for same. See page 555.

The caponizing tools we offer are known as the Philadelphia Caponizing Set. They are made by expert surgical instrument manufacturers and are first-class in every respect.

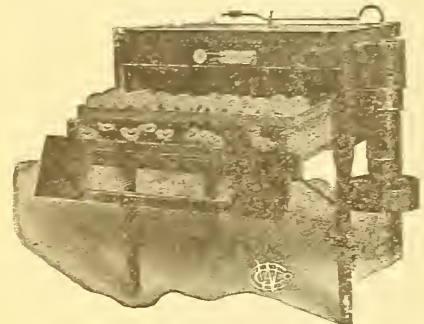


With each set of instruments we send a booklet containing instructions for using the instruments and caring for the capons. Price, \$2.50, postpaid. Address, Poultry Keeper Pub. Co., Quincy, Ill.

**Gunster's Single Comb Black Minorcas are Winners.**

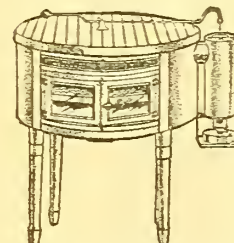
Birds won at Springfield, Danville and Belleville, Ill., and St. Louis, Mo. If interested in Minorcas send for my 1904 circular and score records. Stock for sale from \$2 up. Egg orders booked now. Eggs \$2.50 per 15; \$4.50 per 30. Satisfaction guaranteed. Please mention Poultry Keeper. LEO F. GUNSTER, Box 118, Carterville, Ill.

The Gem Incubator Co., Dayton, Ohio, describes their machines as follows: "Our machine has a commodious and well ventilated chick tray underneath the egg trays. At the end of the hatch all the newly hatched 'puff balls' are resting comfortably in this tray. After the hatch is over the chick tray, egg trays and everything inside the cabinet can be removed, leaving a large, open, clear space to work in." Every experienced op-



erator knows that an incubator must be free from filth and foul odors if a high per cent hatch is to be expected. The removable chick tray is one of the exclusive features of the Gem incubator and commends itself to every thinking poultry raiser. There are other points of superiority about the Gem incubator that would be interesting to mention, which are taken up in detail in the handsome new catalogue. This catalogue is free. Address Drawer D, Dayton, Ohio. See page 511.

"No cold corners; the Iowa is round" is the text of the catalogue and poultry book for 1904 from the Iowa Incubator Co., Box 179, Des Moines, Ia. The walls of Iowa incubators are made of compressed fiber board, which is bent around in a circle so that there are no joints or cracks to open and let the



warm air escape, or let in cold air to chill the eggs. The warm air comes in at the top from the heater, and it has the same distance to travel in every direction to reach the walls, so that there are no corners in the machine. The Iowa catalogue explains fully what this means in securing even temperature for all the eggs. The Iowa system of heating and ventilation is worthy of careful study and the new book makes it perfectly clear. The users of the Iowa report remarkably good results from their work last year, not merely in single hatches, but in successive lots throughout the season. Iowa Brooders are also fully illustrated and described, and the practical poultry raiser will find many improvements in them which will appeal to his good judgment. Plans for poultry houses and practical information for all who keep hens occupy a large part of the book. It is announced that the company will give \$60 in prizes the coming year for the best pictures of hatches, poultry yards or pens of thorough-bred poultry. Every one interested in poultry ought to send for a copy of this book and get the proofs that Iowa machines are money makers. See page 519.

**Advertisers Directory.**

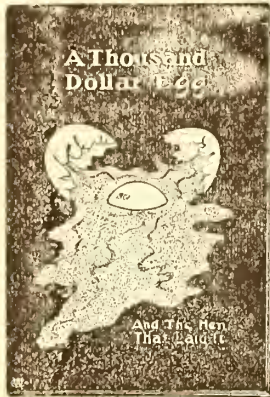
Names of Eastern Long Island's energetic farmers and poultry raisers for circular advertising. If interested write at once to Deale & Horton, Box 748, Greenport, L. I., N. Y.

**POULTRY PRINTING**, the up-to-date business getting kind at money saving prices. Large assortment of fine cuts for free use on your work. Price list, samples and proof sheet of cuts mailed free. W. RENNEKAMP, 1200 Vine St., McKees Rocks, Pa.



### TO GET RID OF LICE.

Poultry have diseases the same as people, and they need medicines to keep them well. One cannot hope to keep poultry successfully without understanding the most important, at least, of the troubles to which



they are subject, and a few simple poultry remedies are just as necessary as food. The Geo. H. Lee Co., of Omaha, Neb., are specialists in the manufacture of poultry remedies. The greatest trouble with fowls is lice, and for this they have Lee's Lice Killer, a liquid preparation that is simply sprinkled on a board under the roosts. The vapor from it does the work,

bringing down the lice while the fowls sleep. It is used on nests of sitting hens, and in coops and other places where needed. For roup and cholera, Lee's Germozone is a convenient and effective remedy, curing fowls that are suffering and preventing the disease from spreading through the flock. Lee's Egg Maker is not a medicine or remedy for disease, but gives wonderful results in making hens lay, especially in winter. It is a combination of tonic herbs with granulated blood, thus providing a tonic which hens need in winter when they are sluggish, and, at the same time, giving them a rich food to make albumen. The Lee catalogue for 1904 contains a calendar and "egg record," which is invaluable to every one who keeps poultry, as it has a convenient space on the calendar pages to put down the number of eggs laid every day, and the total for weeks and months. A lot of "helpful hints" are also given in the book, which are valuable.

There is a new star in the incubator firmament, the Model, designed and manufactured by Chas. A. Cyphers, Buffalo, N. Y. Mr. Cyphers is one of the pioneers in artificial incubation, and his book "Incubation and its Natural Laws" was one of the greatest contributions to the progress of the poultry industry. In his new machine, the Model, Mr. Cyphers has made some notable improvements.



Investigation has shown that chestnut, which is used in different piano construction is the best wood for holding glue and resisting climatic changes, and this is used for the case, instead of pine. The insulation has received careful attention, and improvements have been made in the compound bar type of regulator, to make it more sensitive and reliable and easier to adjust. The ventilation embodies a new idea which Mr. Cyphers has worked out by scientific research. The exhaust air from the egg chamber does not return to the heater and the chamber, but escapes from the machine, so that pure, fresh air only is passed from the heater to the egg chamber. The air does not exhaust from the egg chamber through a valve or pipe, but passes slowly through a porous diaphragm which forms the entire bottom of the incubating chamber. These details can best be understood by getting the information first hand from Mr. Cyphers in his new catalogue, free to those who mention Poultry Keeper. See page 518.

### SUNFLOWER SEED.

Send twenty-five cents and secure postpaid a one-pound package of sunflower seed for this year's planting. Yield is very prolific, running from 50 to 75 bushels per acre, and

requiring only three pounds to seed an acre. This makes a cheap and valuable poultry food and is fine for egg producing. Poultry Keeper Publishing Co., Quincy, Illinois.

The American Brooder Co., Racine, Wis., manufacturers of the Success Incubators and Brooders, are anxious to place their new catalogue in the hands of every reader of Poultry Keeper who is interested in artificial incubating and brooding. Send for the book and mention Poultry Keeper.

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**BLUE ANDALUSIANS.** Layers. Largest in Mediterranean class. Eggs from prize winners \$2.50 per sitting. 1st, 2nd, 3rd prize, Fargo, 1904. Cock winner Winnipeg, Canada, 1903. B. B. Grinley, Portland, N. Dak. 2-4

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**WON MORE FIRST PRIZES.** Pan-American Exposition on Golden and Silver Sebrights than all competitors combined. Buff Cochins Bantams bred to win. Eggs, \$3 per sitting. Clyde Proper, Schoharie, New York. 3-4

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**LIGHT BRAHMAS.** Choice birds scoring 91 and better. Prices low. Write your wants. Eggs for hatching now ready from best pen, no bird scoring less than \$2, \$2 per 15; \$3.50 per 30. Eggs from birds having run of farm, mated to cockerels, none scoring less than 92½, \$1 per 15; \$4 per hundred. Address, F. W. Dixon, Holton, Kans. 3-4

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**WHITE COCHINS.** Winners America's greatest shows. Very heavy feathering. Cheap for cash. H. K. Latcurette, Fenton, Mich. 1-3

**PARTRIDGE COCHINS.** Grand, big beauties. Winners everywhere. Cockerels, \$3; Pullets, \$2. Eggs, \$2 and \$3. Circular free. Dr. T. J. Lyne, Stockport, Ohio. 3-3

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**S. C. W. LEGHORNS,** from Wyckoff's matings. Cockerels ready, from greatest laying strain of Leghorns in America. There are none better. \$1 to \$3 each. Plaza Poultry Farm, Grafton, Ill. 1-4

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**ROSE COMB WHITE LEGHORNS**. Pure stock of eggs. Harbor strain. Large birds. Greatest layers. Eggs only for sale, 15, \$1; 50, \$3; 100, \$6. Miss Ella L. Waltman, Laddsburg, Pa. 1-4

**MY BROWN LEGHORNS** won at Huntsville, Ala., 1904, 1st cockerel; 2nd pullet; 1st pen. At Charlotte, N. C., 1904, 2nd cockerel; 1st, 2nd, 4th pullets; 1st pen. At Atlanta, Ga., 1904, 1st cockerel; 1st pullet; 1st pen. Eggs, \$1 and \$2 per 15. Circulars free. E. E. Carter, Knoxville, Tennessee. 3-4

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**BLACK LANGSHANS**. Cockerels and pullets from parent stock scoring 91 to 94½, by Judges Wale and Shellabarger. Hettich strain. Chas. W. Beardsley, Darien, Wisc. 2-2

**WHITE AND BLACK LANGSHANS**. Stock first-class. Eggs \$2 per 15. Mrs. J. S. Walker, Joplin, Mo. (1-4)

**BLACK LANGSHANS**, farm raised, Mount St. Rose Poultry Yards Stock at reasonable prices. Eggs \$2, good cockerels on hand. Address, City Office, A. J. Busch, 3751 S. Jefferson Ave., St. Louis, Mo. 1-4

**25 BLACK LANGSHAN** cockerels from prize winning stock at \$1.50 each. Better ones up to \$3.00. Order early for choice. Eggs \$1.50 per 15. S. W. Brackney, Santa Fe, Ohio. 1-4

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**S. C. BLACK MINORCA** eggs, \$2, 15. Prize winning birds. No more stock. Mrs. J. C. Wirts, Delavan, Wisc. 2-4

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**ROSE COMB BLACK MINORCAS** direct from Northup. Eggs \$3 per 15. Mrs. J. S. Walker, Joplin, Mo. (1-4)

**"EGGS,"** Northup's strain Rose Comb Black Minorcas, \$3 per 13. All males, many females. First prize winners, Boston, Springfield, Cambridge, St. Albans, Levi Ayres, Granville, New York. 3-4

**BLACK MINORCAS**. Excellent pullets, hens, cockerels. Guaranteed to please. Moderate prices. 15 eggs, choice matings, \$2. John R. Lightfoot, Box J, Penn Yan, N. Y. 2-4

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**S. C. BLACK MINORCAS** exclusively. Large, vigorous, healthy stock. Heavy layers. Eggs from special pens that will produce winners. \$1.50 per 13; \$8 per 100. E. E. Cole, Richfield Springs, N. Y. 2-4

**SINGLE COMB** Black Minorcas exclusively. (Northup Strain). Eggs \$1 per 15. E. C. Deyo, New Paltz, N. Y. 2-1

**WHITE MINORCAS**. They are good ones. Eggs \$2 per 15; \$4 per 30; \$5 per 45. Satisfaction guaranteed. Write me before buying elsewhere. State wants. F. L. Haines, Brookville, Pa. 2-4

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**373 PRIZES**. Single Comb and Rose Comb Buff Orpingtons, eggs (scored) \$2.00 per 13; unscored, \$1.50 per 13. Single Comb White Orpington eggs \$3 and \$2 per 13. J. W. Eastes, Ill. Vice-Pres. American Orpington Club, "Western Home," Galesburg, Ill. 8-12

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**BUFF ORPINGTONS** since 1898. Stock and eggs for sale. Dr. Paul Kyle, Kyle Institute, Flushing, Long Island, N. Y. President of the American Orpington Club. 5-x

**FOUND!** The place to buy pure Single Comb Buff Orpington eggs. Bred for size, shape, color, eggs. Fine vigorous golden buff. Eggs \$2.50 per sitting. C. F. Packer, Morenci, Mich. 1-4

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**BUFF ORPINGTONS** exclusively. None of my birds score less than 90% up to 94, by Shepherd, McClave and Tucker. Eggs \$2.50 per 15. H. W. Myers, Rising Sun, Ohio. 3-2

**BUFF ORPINGTONS.** Eggs from two pens headed by sons of first prize cock, New York 15, \$3; 30, \$5. Circular. J. Sheridan Beahan, Clearfield, Pa. 2-1

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**WANTED—10,000 COMMON PIGEONS** Large or small lots, 35c per pair, old flyers; 5,000 guinea fowls, half pound each and over, 55c pair. Highest prices for Homers, and live rabbits. Prompt returns. No commissions. L. Gilbert, 1128 Palmer St., Philadelphia, Pa. 12-6

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**SQUAB Breeding Homers.** Large strong, healthy breeders mated and ready for business, price \$1 per pair. Address Standard Pigeon Lofts, Souderton, Pa. 3-2

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**CHOICE WHITE PLYMOUTH ROCKS.** Fishel's strain direct. None better. In fine condition. Eggs, \$1.25 per 15; \$5 per 100. Mrs. M. Elliott, Warsaw, Ind. 1-4

**BARRED ROCK EGGS,** \$1.00 for 15, from hardy stock. Good layers, good size and well marked. Dr. A. R. Johnston, New Bloomfield, Pa. (1-4)

**EGGS 15, \$2.** From our five grand yards (Ringlets—Bradley strains) of Barred Rocks. Cockerels \$3. Eagal, Allshouse & Sons, Route No. 1, Butler, Pa. 1-1

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**HIGH CLASS WHITE PLYMOUTH ROCKS.** My matings for 1904 will be the finest I ever owned and I will guarantee satisfaction or money refunded. Circular. C. Wilbur Humphrey, Pomeroy, Ohio. 1-4

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**PLYMOUTH ROCKS,** Barred and Buff. The world's greatest laying strains. If you are looking for something choice we can surely please you. Catalog free. Barney Bros. Beaver Dam, Wisc. (1-4)

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**BARRED ROCK** eggs \$1 per 15, from A-No. 1 stock. W. C. Cupp, Medix Run, Pa. 3-3

**BUFF ROCKS** (Nuggett Strain). Eggs \$1 per 13. Guarantee 8 chicks, also that matings are strictly first-class and reliable. Try us and get satisfactory results. Spring Run Poultry Farm, Drawer 27, Washington, N. J. 3-4

**WHITE AND BARRED PLYMOUTH ROCKS.** Eggs for hatching from fine stock at \$1 per 15. Ellis Burket, Barbertown, N. J. 3-4

**BARGAINS.** White Rocks, score 93 to 96; Barred Rocks, score 90 to 93½. Eggs, \$2 per 15. White Rock ckls., scoring 92 to 94½, cheap. W. E. Christopher, Shipman, Ills. 3-4

**BARRED PLYMOUTH ROCKS** of best quality. E. B. Thompson's Ringlets and Bradley Bros.' strains. Three pens of fine birds. Eggs, \$1 and \$1.50 per sitting. 1 can please you. Address, T. C. Jones, Otway, Ohio, Box 75. 3-4

**WHITE AND BUFF PLYMOUTH ROCKS** are in the lead now as money makers. Very finest prize stock. Eggs guaranteed fertile. From prize matings, \$3 per 13; \$5 per 26; incubator eggs, \$6 per 100. M. E. Phelps, Brightwood Farm, Laurel, Maryland. 3-4

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**BARRED PLYMOUTH ROCKS,** eggs 18 for \$1; 40 for \$2; 100 for \$4.50. Our males score 92 to 94 and weigh 11 to 14 pounds; females weigh 7 to 11 pounds. We breed for size and laying qualities. (Hawkins, Thompson, Latham and Bradley Brothers' strains.) 1 guarantee good hatch and safe delivery. Catalogue free. Address, S. V. Latham, Montezuma, Iowa. 3-2

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**EGGS FOR HATCHING.** Bradley Bros.' strain Barred Rocks, Fishel and White Cloud strains pure White Rocks. Fine exhibition birds. \$1 per 15; \$5 per 100. Wm. Anderson, Delaware City, Del. 3-4

**BARRED PLY. ROCKS** exclusively. Pled to lay. Eggs, \$1.50, 13; \$2.75, 26; \$5, 50; \$9, 100. Have the quality, will please you. Cash with order. Mrs. Emma Shaver, Hancock, Iowa. 3-4

**GEO. HENRY, PARIS, ILL.** Barred Plymouth Rock specialist. Can spare eggs at \$2 per set. Have won many premiums. Satisfaction guaranteed. 3-3

**BARRED PLYMOUTH ROCKS,** pure Bradley blood. Won 4 firsts on 4 entries at Little, and 4 firsts at Sanatoga. Eggs, \$2 per 13; \$5 per 26. Wm. Wisler, Douglassville, Pa. 3-4

**WHITE PLYMOUTH ROCKS** exclusively. My birds are bred for large size, typical shape, snow white, heavy laying, and true Rock character. Eggs from select pens, \$1.50 per 15; 3 sittings, \$4; incubator eggs, also from good stock, \$6 per hundred. Frank Pudney, Kalkaska, Mich. 3-4

**BARRED AND BUFF ROCKS.** Christian and Bennett strains. Some good Buff ckls. yet. Eggs, good ones, \$1 per 15. O. P. Phillips, Amo, Ind. 3-4

**BARRED ROCKS.** Eggs, \$1.50 per 15, from the finest matings to be found. Two firsts at Illinois State Show, 1903, score 92%, (W. C. Pierce, Judge.) Pullets scored 92% at same show, 1904. (by W. S. Russell.) A. L. Nokes, Springfield, Ill. 9-12

**BUFF PLYMOUTH ROCKS,** "Nuggets." Farm raised. Very fine. Eggs, 15 for \$1; 100 for \$5. J. L. Anderson, Harvard, Ill. 3-3

**BARRED ROCKS.** Pure Ringlet strain. Old and young stock for sale. Eggs in season. Four cock birds at a bargain, last season's breeders. Guarantee to satisfy you in price and quality. E. Fitzsimmons, Jacksonville, Illinois. 12-4

**FISHEL WHITE ROCK** cockerels, \$2.50 each. S. E. Coulson, New Lebanon, Indiana. 1-4

**BUFF ROCKS** exclusively. 50 selected cockerels. A. A. Groff, Telford, Pa. 1-4

**WOULD YOU LIKE** eggs in winter? My Barred Plymouth Rocks (Congers) will do the trick. Bargains in cockerels to make room. Eggs (15) \$2. C. J. Friestad, Glencoe, Ill. 1-4

**BARRED ROCK EGGS** for hatching \$1.50 per 13. Miss Irma Barth, Quincy, Ill. 1-4

**PLYMOUTH ROCKS**—Pens headed by sons of Grandson's Brother 5th; Pioneer, first cockerel New York and first Chicago cockerel. Eggs \$3 per sitting. H. Brown, P. O. Box 525, Dayton, Ohio. 1-4

**BARRED ROCKS** and White Rocks. Cockerels and pullets for breeding. Eggs \$1.50 and \$2 per sitting. Hattie Brown, Esmond, Ill. 1-4

**BARRED ROCKS** (Ringlets) Eggs \$1 per 15. Mrs. J. N. May, Marengo, Iowa. 3-4

**BARRED ROCKS** ("Ringlets") 15 eggs, \$1.50. Yards headed by cockerels direct from Thompson. Mrs. J. M. Cunningham, Yates City, Ill. 2-4

**BIG BROWN EGGS** for hatching, from my utility strain White P. Rocks, \$1.00 per 13. C. E. Snow, Howard Ave., Quincy, Mass. 2-4

**BUFF ROCKS** exclusively 10 years. Golden Buff, correct shape, full weight. Great layers. Eggs, \$1.50 per 15; \$2.50 per 30. Jno. F. Winter, Wooster, Ohio. 3-4

**BUFF ROCK EGGS,** from my best layers. Good hatches guaranteed. 15 eggs, \$1. D. E. Melville, Creston, Ohio. 2-4

**BARRED PLYMOUTH ROCKS.** Eggs from specially selected stock of Thompson's Ringlet strain, \$2 per 15. Incubator eggs \$5 per 100. Miss Ann E. Hunter, Independence, Mo., Route No. 11. 2-6

**WHITE PLYMOUTH ROCK** eggs for sale. \$1.25 per 15. E. A. Beardsley, Council Bluffs, Iowa. 2-4

**COLE'S BUFF ROCKS** have size, low combs, clear wings, grand under color, bred for utility and beauty. New York, Ft. Wayne, Cleveland, O., winners, score to 95%. Napoleon, Ohio, Dec. 1903, eleven regular prizes. Stock for sale. Eggs \$2 per 13; \$5 per 40. Frank C. Cole, Van Wert, Ohio. 2-4

**EGGS! EGGS!** Thompson's Ringlet Barred Plymouth Rock, 15, \$1.25; 30, \$2. Satisfaction guaranteed. Leslie H. McCue, Afton, Va. 2-4

**BARRED ROCKS.** (Thompson's Strain). Extra large and win in strong competition. Eggs \$1.50. Guaranteed to please. Write me for list of winnings. Pickaway Poultry Farm, Circleville, Ohio. 2-4

**MRS. L. W. HELLER,** Ladora, Iowa, breeds Barred Plymouth Rocks. Fine cockerels for sale at reasonable prices. Eggs from high-scoring pens, \$1.50 per 15. Hatch Guaranteed. Write your wants. 2-4

**50 BIG BARRED ROCK** cockerels from Bradley Bros. stock, \$2 to \$5. Pullets, \$1.50 to \$3. Dubuque, Galena and Lanark, Ill. Eggs after March 10th from prize matings, \$2 per 15. T. J. Rountree, Near, Ill. 1-4

**A. C. HINKLE,** Millersburg, Pa. White Rock Specialist. Nice birds, fine layers. Best prize-winning strains. 15 eggs \$1; 50, \$2.50. 2-4

**BARRED PLYMOUTH ROCKS** exclusively. Thompson and Lambert strains. Eggs cheap. G. Roof, Bluffton, Ind., Route No. 7 2-4

### POLISH.

**WHITE CRESTED BLACK Polish.** First prize winners at Pan-American, Syracuse, New York and Boston. Cockerels, pairs and trios. Show birds and breeding stock. Stock for sale at all times. Eggs in season. Chas. L. Seely, Afton, N. Y. 1-3

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**19 PRIZES.** 10 firsts, Atlantic City, Trenton, Newark, Hagerstown, this season on Rose Comb Reds. Correspondence promptly answered. Satisfaction and good hatch guaranteed. Henry L. Fox, Box 75, Cranbury, N. J. 2-4



**A. E. CUMMINGS, HUDSON, N. H.** Nine years breeder of Rhode Island Reds for beauty and utility. My stock is farm raised, very healthy and vigorous, of fine color, red eye, and prolific laying qualities. Eggs from choice birds, Rose or Single Comb, \$1 per 13; \$2 per 30; 6 per 100. (Member of Rhode Island Red Club.) 2-4

**WON MORE FIRST PRIZES** in strong competition than any other breeder of Rhode Island Reds. Don't order eggs until you get our circular of winnings. Stafford Bros., Fall River, Mass. 2-4

**RHODE ISLAND REDS**, Light Brahmas, Barred Rocks. Hardy, prolific. Pure stock. Hens on separate farms. Eggs to hatch 6c each. Beach and Bay View Farms, Middletown, R. I. 2-4

**RHODE ISLAND REDS**, Single and Rose Comb. Prize winners. Eggs, \$2. Circular 3-3

**RED BIRD STRAIN**. Rose Comb R. I. Reds. Do you want the best? If so, try our strain. Winners wherever shown and fine layers. Send for standard circular and list of winnings. Eggs from fine Red Birds, \$2 per 15. J. Lewis Morse, 2d, Beverly, Mass. 3-4

**ROSE COMB RHODE ISLAND REDS** exclusively. Highest grade eggs, only \$2 per 15. Dr. Geo. Benton, Cambria, Mich. 3-3

**SPANISH.**

**WHITE FACE BLACK** Spanish. 43 years! Exclusively. Eggs \$1.50 per 13. Circular free. John Bennett, Sunman, Ripley Co., Indiana, Box O. 1-4

**WYANDOTTES.**

**WHITE WYANDOTTES**. Bred to lay Farm raised at farmers' prices. None better. Eggs \$1 per 13. No stock for sale. Willis L. Campbell, Carthage, Mo. 1-4

**YOURS FOR ASKING**. The privilege of trying some of my White Wyandotte eggs. No better than the best. \$2 per 15, \$3.50 per 30. Geo. M. Loring, Moultonville, N. Hampshire. 2-4

**STAY WHITE Wyandottes**. Satisfaction positively guaranteed. Eggs, 13 \$1.00; 100, \$5.00. Correspondence answered promptly. 75 to 90 per cent fertile. W. E. Shoemaker, Laceyville, Pa. 1-4

**PURE WHITE WYANDOTTE** chicks and eggs. J. H. Krantz, Easton, Pa. 1-4

**BUFF WYANDOTTES**. Stock and eggs for sale. W. H. Kaiser, Erie, Pa. 1-4

**WHITE WYANDOTTES** of purest blood. Eggs \$1.00 per 15. J. C. Lindsley, Kirkwood, Ohio. 11-12

**DUSTON'S WHITE Wyandottes**. Cockerels, \$1. Eggs, \$1 per 15; \$4 per 100. Elmer Gilmin, Taylorville, Ill. 11-4

**SILVER LACED WYANDOTTES** at South Framingham, Mass., won 16 ribbons on 10 entries. Average score, by D. J. Lambert, \$2 1-5. I won all the first and seconds at Brockton and Lawrence, Mass., 46 ribbons at the 3 shows. Send for circular. H. F. Chase, Andover, Mass. 1-4

**WHITE WYANDOTTE EGGS**, 15, \$1.25; 30, \$2.25; 60, \$3; 100, \$5. Large heavy-laying females; pure white males; good combs, bay eyes and red earlobes. All farm-raised and rich in "Duston" blood. Have taken ten first premiums: No blue legs on our chicks. Calvin Norman, Box K, Dexter, Mo. 2-4

**WHITEST WYANDOTE** cockerels, pullets, bred from Boston first prize winners, 1903. 213-egg strain. \$1.00 up. Won over 100 prizes. Money cannot buy better. Eggs for hatching. Joseph Gates, Westboro, Mass. 1-4

**WHITE WYANDOTTES**. Eggs \$1 per 15; \$4 per hundred. W. F. Stalder, Pliny, W. Va. 2-2

**SINCE 1868 HAVE** bred Golden Laced Wyandottes, Silver and Buff Whites for yrs. Lots of fine cockerels. Few females. Satisfaction guaranteed. Eggs in season. F. S. Tenny, Peterboro, N. H. 1-4

**DUSTON'S WHITE WYANDOTTES**. Best eggs, \$2; others, \$1.50. Catalogue. Morris and Morris, Morrisonville, Ill. 3-4

**SILVER PENCILLED Wyandotte** eggs, \$2.50 per 15; \$6 for 45. City Poultry Yards, Owosso, Mich. 3-4

**GOLDEN WYANDOTTES**. Yards headed by cock scoring 96 points. Fine young stock for sale. Good fern and lacing. Farm raised. Prices reasonable. Eggs in season. Belle C. Johnson, Dexter, Minn. 1-4

**WHITE WYANDOTTES**, pure Duston strain. Eggs \$1.50 per 15. Elmer Jasper, Lafayette, Indiana. 2-2

**SILVERS**-Wyandottes-Whites. Twenty choice cockerels \$1.50 each. Bred from heavy laying strain of prize winners and sure to please you. Eggs \$1.50 per 15. A. M. Shaw, Stockbridge, Wis. 2-4

**WHITE WYANDOTTES** bred for heavy laying. Eggs from pen headed by son of 242 egg hen \$1.50 per 15. Edward H. Lewis, Magnolia, N. J. 2-4

**PARTRIDGE WYANDOTTES** exclusively. No finer pens or stock in America. Eggs, \$1.25 to \$4 per 15. Circular free. M. F. Stellwagen & Son, Minneapolis, Minn. 3-3

**"WHITE WYANDOTTES EXCLUSIVE-LY.** Celebrated Duston and Keeler stock—the best that money can buy. Eggs from best matings, \$2 per 15, \$5 per 50. Satisfaction guaranteed. Circular free. Address C. Pittman, Dept. B, Santee, Nebraska. 3-3

**WHITE WYANDOTTES** scoring 91 to 94½. 15 eggs, \$1.50. Every tenth order gets extra sitting free. Mrs. Bettie Gross, Route 2, Fulton, Missouri. 3-3

**BUFF WYANDOTTES**. (Madison-Dutcher Strain.) Eggs, \$1 per 13. Paul C. Sours, Findlay, Ohio. 3-4

**GOLDEN WYANDOTTES**, prize winners. Eggs, \$1.50 per 15. Satisfaction guaranteed. Pond Lot Poultry Farm, D. Burr Snell, Prop., Cannonville, N. Y. 3-2

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**WHITE WYANDOTTE** eggs from three grand pens. Two headed by First Prize winners. Every bird a chalk white plumage and scoring from 93 to 96 points. Eggs this year, only \$2 per 15. Half-tone Catalogue free. Will H. Schadt, Goshen, Ind. 2-4

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**10,000 PARTRIDGE WYANDOTTE** Eggs for Hatching. 15, \$3; 30, \$5. (Cornell-Brackenbury Strain.) 20 Cockerels. Moderate Prices. E. A. Parks, Syracuse, N. Y. 3-4

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**248 EGG** thoroughbred Barred Plymouth Rocks. Eggs, \$4 hundred; sitting, 60c. Black Minorcas, \$1 sitting. Three incubators cheap. Cockerels, \$1. Incubator eggs specialty. Circular tells it. G. Routzahn, Biglerville, Pa. 3-4

**SINGLE COMB WHITE** and Brown Leghorns, Barred Rocks, Silver Spangled Hamburgs. Eggs, \$1 per 15. S. H. Grayhill, Richfield, Pa. 3-12

**WHITE LANGSHAN**, Buff Orpington, Cornish Indian Game eggs, \$2 per 15. Black Langshan, Imperial Pekin and Rouen Duck eggs, \$1 per 13. James Thompson, Eaton, Ill. 3-3

**ELEVEN PARTRIDGE WYANDOTE** hens, one cockerel, \$13; eight R. C. Brown Leghorn hens, \$6; twelve Blue Andalusions, \$6. A. F. C. Menke, Quincy, Ill. 2-1

**S. C. W. LEGHORNS**, Buff Orpingtons and Buff Cochins Bantams. Cockerel \$1 to \$3; trios \$3 to \$5. Leghorn eggs \$1 and \$1.50 per 15; \$4 per 100. Orpingtons \$2 per 15. C. W. and H. E. Hosmer, Union City, Mich. 3-4

**50 MAMMOTH PEKIN DRAKES** Best strains, \$1.50 each, 2 or more, \$1.25 each. Eggs, \$1.50 per 15; \$3 per 100. Barred Rock cockerels, "Ringlets," \$1 to \$3 each. HOAK, the Incubator Man, Ligonier, Ind. 3-1

**ROSE COMB RHODE ISLAND Red** Chks. from P. R. Parks' best breeding stock. Few C. I. Game chks., Frank H. Thomas strain. Price reasonable. Mrs. I. A. Francis, Paris, Ill. 3-1

**BARRED AND WHITE ROCKS** and White Wyandottes. Eggs, \$1.25 per sitting. B. & O. Poultry Yards, 433 W. King St., Lancaster, Pa. 3-3

**EGGS FROM MY PRIZE WINNING** pen Rose Comb Brown Leghorns \$2.00. From birds of same stock, \$1.00. Eggs from 95% scoring Black Langshans, \$2.00. Non-fertiles duplicated. 15 for sitting. Wm. Walder, Fillmore, Minn. 2-4

**BARRED PLYMOUTH ROCKS**, White Wyandottes. Bred for meat, eggs and beauty, low combs, bay eyes. Satisfaction guaranteed. Eggs, 15, \$1.50; 30, \$2.50. W. T. Foster, Box 281, Woodstown, N. J. 3-4

**SINGLE COMB WHITE LEGHORNS**, White Wyandottes, Buff Cochins, Barred Rocks. Eggs, \$1 per 15. I. F. Stevenson, Rockford, Ill. 3-4

**WHITE HOLLAND TURKEYS**. Eggs, \$1.25 sitting. Blue Adalusions, B. P. Rocks, White Wyandottes, Silver Sebright, White Cochins Bantams, eggs, \$1 sitting. Mrs. V. A. Rexroat, Macomb, Ill. 3-3

**RHODE ISLAND REDS**, Single Comb Rhode Island Reds exclusively. Farm raised, free range. The largest breeder in Pennsylvania. Eggs, \$1, 13; \$2, 30; \$6, 100. Jeremiah Miller, R. F. D. No. 7, York, Pa. 3-3

**BUFF ORPINGTONS**, Buff Leghorns and Pekin Ducks. Indiana State Fair, 3, 1sts; 1, 2nd; 2, 3rds.; Indianapolis Poultry Show, 1904, 6, 1sts; 1, 2nd; 2, 3rds; 2, 5ths. Martinsville Show, 1904, 4, 1sts; 5, 2nds; 2, 3rds. Stock and eggs for sale. J. B. Middleton, Box 71, Franklin, Ind. 3-3

**EGGS FOR HATCHING**. Barred, White and Buff Rocks, White Wyandottes, Rhode Island Reds, White and Brown Leghorns. Boston winners, etc. Lowest prices for quality. Circulars free. Geo. Chapin, Ludlow, Mass. 3-4

**BUFF WYANDOTTES**, pure Pierce strain; White Rocks, White Wyandottes, Barred Rocks and Rhode Island Reds. Eggs, \$1.75 per 15; \$5 for 50. Elegant pens mated. (Reference: Pierce.) Brookville Poultry Farm, Brookville Road, Indianapolis, Ind. 3-1

**BUFF ORPINGTONS**, (Cook's); Rocks, (Burdick's); White Rocks and Wyandottes, (Hawkins'); Black Minorcas, (Northup's). Eggs, \$1.25 and \$2 per 15. Circular free. C. L. McFarren, Bellville, Ohio. 2-4

**SINGLE COMB BROWN LEGHORNS** and Silver Wyandottes. Superior stock. Twenty eggs, one dollar. Al. Cary, Lewis, Ohio. 3-4

**LARGEST LIGHT BRAHMAS**, White Indian Games and Silver Spangled Hamburgs. Eggs, \$1 per 15. C. G. Weirich, Chambersburg, Pa. 3-4

**SILVER PENCILLED, PARTRIDGE**, Buff White Wyandottes; Barred, Buff Rocks; Buff Orpingtons. Satisfaction guaranteed. Rocky Run Poultry Association, Clifton Springs, N. Y. 2-12

**BUFF ORPINGTONS**, Barred Rocks, White Wyandottes, Light and Buff Brahmas, Polish, Houdans, Reds, Sherwoods, popular strains Eggs a specialty. Circular for you. We have stamps. Roseland Poultry Park, Roseland, La. 1-4

**BUFF FOLTRY YARDS**. Buff and Red S. C. Leghorns, Buff Plymouth Rocks. Pure stock. Eggs \$1 per 13; \$1.75 per 26. Buff Orpingtons, \$1.25 per 13. H. Bailey, Port Norris, N. J. 1-5

**GOLDEN, SILVER LACED**, Buff and White Wyandottes; Brown Leghorns and White Minorcas. Line bred and of the best. \$1 per 15, \$2.50 per 45. Mrs. Lura Helsinger, Ridgely, Md. 2-3

**CHOICE EGGS**. Bronze Turkey, \$2.50 per 10; Barred Rock, \$1, \$2.50; Toulouse Geese, Pekin Duck, \$1.50 per 10. First-class stock. Good hatch guaranteed. (Mrs.) J. G. Mullis, Dunbar, Nebr. 2-4



**BUFFINTON** has been in the poultry business nearly forty years. Will sell eggs from Buff Wyandottes, Buff Leghorns, Buff and White Plymouth Rocks and Pea Comb Reds, \$1.50 for 15; \$2.50 for 30; \$4 for 50; \$7 for 100. Partridge Plymouth Rocks and Columbian Wyandottes, \$2 for 15; \$3.50 for 30; \$6 for 50. Send for circular, Rowland G. Buffinton, Box 677, Fall River, Mass. 3-3

**LIGHT BRAHMAS**, Barred Rocks, Silver Laced Wyandottes. Thoroughly reliable stock. Eggs, \$1 per 15. Circular free. Dow Bros., Stockport, Iowa. 2-4

**ADAMS MINORCAS** winning wherever shown. Bred exclusively for eggs and exhibition purposes. Have also Single and Rose Comb Buff Orpingtons, eggs, \$3 per 15. White Klondikes, eggs, \$2 per 15. Edw. Adams, 6549 Honore St., Chicago, Ill. 1-4

**BARRED AND WHITE ROCK** eggs from pens, 10 cents each; free range, 5 cents. Pekin Duck eggs, 10 cents each; Toulouse Geese eggs, 25 cents each. E. E. Dalton, Parkersburg, Ill. 1-4

**BARRED AND WHITE** Rocks, Embden Geese, Mammoth Pekin Ducks. Stock and incubator eggs cheap. Louie Galt, Appleton City, Mo. 2-3

**30 VARIETIES** pure bred fancy poultry. Booking egg orders now. Prices low. List free. Ed Van Winkle, Vans Harbor, Mich. 2-4

**BUFF COCHINS** and S. C. Buff Leghorns. Winners at St. Louis, Peoria and Olney shows. Eggs \$1.50 per 15. Chas. Reber, West Liberty, Ill. 2-4

**BARRED ROCKS**, White Wyandottes, Single Comb Brown Leghorns, White Minorcas, scores (show room) 92 to 95. Eggs, (pens No. 1) \$2, 15—a bargain. Incubator eggs \$4, 100. Mammoth Pekin Ducks, largest, best birds on American soil, score 99. Eggs \$2.50, 11. Other mating \$1.50, 11. Incubator eggs \$8, 100. Mammoth Bronze Turkeys 45 lb kind, score 97, eggs 50 cents; \$5, 11. Woodland Yards, Mrs. H. R. Miller, proprietor, Fulton, Mo. 2-4

**SILVER PENCILED WYANDOTTES**. Chicago and Burlington winners. Barred Rocks. Best strains. Eggs reasonable. Henry Buser, Burlington, Ia. 2-4

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**EGGS \$1 per 15; \$2 per 40.** Thoroughbred Light and Buff Brahmas, Plymouth Rocks, White and Buff Wyandottes, Reds and Leghorns. 13 varieties. Catalogue free. S. K. Mohr, Coopersburg, Pa. 2-4

**BARRED, BUFF, WHITE** Plymouth Rocks; Rose and Single Comb White and Brown Leghorns; Golden and Silver Wyandottes; Black Minorcas. Eggs, \$1.50, 15; \$6, 100. Stock. F. I. Bradford, Sylvania, Pa. 2-4

**R. I. REDS**, W. and Buff P. Rocks. Eggs \$1.50 per sitting. Harry Cotton, W. Buxton, Maine. 2-3

**CHEAPEST, BEST**, 30 varieties, Felch Myers, Cook, Hawkins, Fishel, Nugget, Duston, Keller, Northup, Wyckoff, Kulp, and other great strains. Brahmas, Cochins, Langshans, Wonders, Sherwoods, Orpingtons, Rocks, Wyandottes, Games, Minorcas, Houdans, Hamburgs, Leghorns, Ducks. Circular free. W. E. Hicks, Ponchatoula, Louisiana. 2-4

**WON 241 PRIZES** on Houdans, Rose and Single Comb Black Minorcas, Buff and Single Comb Brown Leghorns, Buff Rocks, Buff, White, and Partridge Wyandottes, Sherwoods, White Wonders, Polish, Andalusians, Pekin and Rouen Ducks. For prices send for free catalogue. Hillside Poultry Farm, Cortland, N. Y. 2-4

**EGGS FOR SALE** from choicest prize winning Indian Runner Ducks, the great layers at \$1.50 per 12. From choice Partridge Wyandottes, the utility breed, at \$2 per 15. Buff Turkey eggs at \$3 per 9. A few choice Berkshire Pigs that will please you. R. F. LOWER, Columbiana, Ohio. 3-4

**EGGS**—Toulouse Geese, never have been beaten in show ring. Pekin Ducks weigh nine pounds each. Eggs for sale. Mrs. E. D. Stoner, Jones, Mich. 2-4

**CHICAGO WINNERS**—36 Birds won 29 prizes. Blue Andalusians, Buff and White Leghorns, Barred and Buff Rocks. Eggs for hatching. H. M. Horton, Drexel, Ill. 2-4

**F. TAYLOR**, Hanover, Md., breeds Buff Orpingtons, White Wyandottes, White Leghorns, Barred Rocks, Stock is good. Eggs are fertile and satisfaction given. Fifteen years a breeder. Circular for postal. 1-4

**WHITE PLYMOUTH ROCKS**. Won 6 ribbons on 5 entries at Saratoga show. (Fishel strain.) White Wyandottes, winners also. Eggs, 75c per 13; 3 sittings, \$2. Maurice Manger, Douglasville, Pa., Route 2, 2-3

**40 VARIETIES BEST POULTRY**. Fine large poultry guide 6c. You should have it. Price list free. John E. Heatwole, Harrisonburg, Va. 1-4

**SILVER CUP WINNERS**, Barred Rocks, Pekin Ducks; Hagerstown, Stamford, Matteawan, Danbury, West Haven, Meriden, Breeding Cockerels, \$2 upwards. Eggs, \$3. Trios, \$5 to \$10. Circulars free. Harry F. Sherwood, Sangatuck, Conn. 1-4

**PEA COMB BUFF** Plymouth Rocks, White and Cornish Indian Games. Eggs from prize-winning birds. Black and White Belgian Hares. A. O. Frederick, Fricks, Pa. (1-4)

**\$1 PER 15 EGGS**, from pure bred White Wyandottes, Barred Rocks, S. C. Brown Leghorns and S. C. W. Leghorns. Bronze Turkey eggs \$3 per 13. Mrs. Minnie M. B. Brown, Appleton City Mo. (11-12)

**BARRED PLYMOUTH ROCK** Cockerels for sale from \$1.00 to \$3.00. Eggs in season. Indian Runners and Pekin Duck eggs in season. Pigeons for sale, 75c per pair. 156 acres free range. James M. Sloan, Washington, Ind., Route 2. 1-4

**WHITE WYANDOTTES** and Pekin Ducks Booking orders for eggs. Pen No. 1 (either) 13 eggs, \$2. Pen No. 2 (either) 13 eggs, \$1.50. Benton Farm, 612 East Diamond St., Allegheny, Pa. 1-4

**PRENDERGOST'S WHITE PLYMOUTH ROCKS** Fishel strain. For sale 50 large, vigorous Cockerels, 100 fine pullets. Satisfaction guaranteed or money refunded. Pekin ducks and Bronze turkeys. M. J. Prendergast, R. 4, Streator, Ill. (1-4)

**BARRED, WHITE and BUFF** Plymouth Rocks, Embden Geese, Pekin and Rouen Ducks. Choice exhibition and breeding stock for sale. Prices reasonable. Eggs \$2 per sitting. Wm. H. Fathauer, Boody, Illinois. 1-4

**BUFF WYANDOTTES**. Quaker strain. The best in the world. Buff to the skin. Orders booked for show birds, breeders or eggs. John F. Eisenhower, Box 3, Bustleton, Pa. 1-4

**SHADY LAWN POULTRY FARM** breeds Geese, Ducks, Turkeys, Guinea, Barred Plymouth Rocks, White and Golden Wyandottes, Brown Leghorns, Black Langshans. Choice stock for sale. Eggs in season. Send for catalogue. B. F. Kahler, Route No. 1, Hughesville, Pa. 1-6

**NO MORE STOCK** for sale. Buff Turkey eggs, \$2 per 12. Barred Rocks direct from Thompson, \$1.50 per 15. Others from prize winners, \$1 to \$1.25. Thompson's and Hawkins' (indirect.) J. W. Upchurch, Benevola, Ala. 1-3

**ROSE AND SINGLE COMB**, Buff, Black and White Orpingtons; Ply. Rocks; Wyandottes; Brahmas; Leghorns; Minorcas. All eggs this spring at half price. Circular free. Lewis C. Beatty, Washington, N. J. 1-4

**BLACK LANGSHANS**, White and Barred Plymouth Rocks and Black Minorcas Winning 18 regular and 4 special the past season. Send for catalogue. Eggs \$2 per 13. H. H. Harp, Marlenville, Pa. 2-4

**BUFF ORPINGTONS**, Partridge Cochins, White and Barred Rocks. Cockerels \$1 to \$2; trios, \$8 to \$5. Eggs \$1 per 15. White Pekin Ducks, eggs \$1 per 11. Rae Bird Phelps, Sharon, Wis. 1-4

**ADDISON R. I. REDS** and Silver Laced Wyandottes in three years won 2 silver cups, 69-1st, 39-2nd. Do you want the best? Eggs \$2. Geo. Addison, Werham, Mass. 2-4

**CHOICE ROUEN DRAKES**, \$1.50 each. Eggs from prize matings \$1 per 11. White Holland Turkeys and Toulouse Geese eggs, \$3 per 15. Mahaney Bros, Winterrowd, Ill. 1-4

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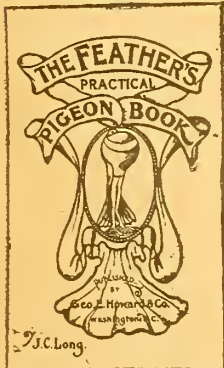
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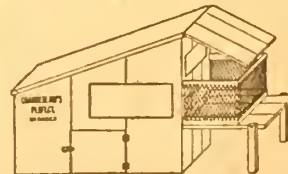


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