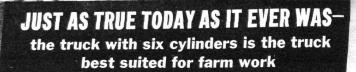
MAY, 1934 Vol. 40 No 5

DOULT TRIBUNE CENTRAL EDITION



Poultry Raisers Should Eat More Eggs! Have You Entered the \$1500 Chick Contest:



-and here is the lowest priced Six in the world-THE BIGGER, HUSKIER, HIGHER-POWERED CHEVROLET

CHEVROLET

A GENERAL MOTORS VALUE

EVERY farmer knows it—experience proves it—common sense confirms it: SIX is the only number of cylinders you can have in a low-priced truck and still get 100 per cent economy. With six, you're neither handicapped by too many cylinders (and too much expense for fuel and upkeep) nor too few cylinders (and costly, destructive vibration). You're "all set" with a Six to save! And if your new truck is a 1934 Chevrolet Six—you not only get six-cylinder economy at its best—you pay a lover purchase price than for any other six-cylinder truck on the market. That's why the big majority of farm buyers are again buying Chevrolet. It uses less gas and oil than any other truck. It costs less to keep up than any other truck in the low-price field. It costs less to buy than any other Six. And it's a great hig, rugged, two-fisted worker that's all truck throughout!

CHEVROLET MOTOR COMPANY, DETROIT, MICH.

Low delivered prices and easy G. M. A. C. terms



Central Edition



G. G. Sanderson, Contributing Editor (In order to keep in closest possible touch with our readers Mr. Sanderson makes fre-quent trips through the states named above collecting news items and editorial matter relating to the poultry industry.)

May Events

May 2-4, Purdue Baby Chick and Egg Show, Poultry Bidg., Purdue University, Lafayette, Ind. May 15-18, Michigan Baby Chick Show, Michi-gan State College, East Lansing, Michigan. May 15-19, Zeeland-Holland Baby Chick Show, in connection with Tulip Week, Zeeland, Mich.

Coming Events

July 11-13. Dr. Salsbury's Three-Day Poultry Short Course, Charles City, Iowa. July 30-Aug. 3, International Baby Chick As-sociation Convention, Cleveland Public Auditor-ium, Cleveland, Ohio. Sept. 5-7, Illinois Baby Chick Association An-nual Meeting, Pere Marquette Hotel, Peoria, Ill.

Zeeland-Holland Chick Show Will Be Held May 15-19 During Tulip Week

Zeeland, Mich.—The annual Zeeland-Hol-land Baby Chick Show has been scheduled here for May 15-19, during the famous Tulip Week held annually at Holland. Exhibits will be welcome from all parts of Michigan and other states. There is no entry fee, but the chicks will be auctioned at the end of the

show.

Carl H. Schroeder, Larrowe Milling Company, Detroit, Michigan, will be judge. Three special cups are being offered as prizes.

Purdue Egg Show Includes Chicks

Lafayette, Ind.—As a result of the interest created by the chick show last year, a baby chick show will be staged again this year in connection with the Purdue Egg Show, to be held May 24.4 in the Poultry Building, Purdue University, here

(Continued on page 21)

For Index to Advertisers Cen. Edition SEE PAGE 25



POULTRY TRIBUNE Vel. 40, No. 5, May. [934]
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RANGE SHELTERS

TART building your summer range

The brooding season is well along. All the 6 to 8 weeks old chicks are moved out to range on pasture or orchard ground. Brooder houses are cleaned and sprayed for the next brood of chicks.

You know the value of a range on clean ground with shade protection, on which young stock may grow with proper feeding and watering. Plenty of sunlight and a central well ventilated roosting place at night, provide replacement of sturdy, healthy pullets as layers for the farm flock,

This light framed movable shelter with Celotex roof boards protects 125 to 150 youngsters, in rainy weather or from the hot summer sun. Poultrymen say that Celotex shelters pay for their low-cost many times over.

Celotex renders a dual service for your range shelters: It provides excellent insulation protection and serves as a building board. Light and sturdy, easy to apply, Celotex is also used profitably for insulating walls and ceilings of poultry houses and other farm buildings.

Celotex lumber dealers know how to build and remodel. They have plans for modern poultry buildings and can give you valuable assistance in remodeling. Return the coupon for name of dealer nearest you.

Important and Exclusive-All Celotex Cane Fibre Products are manufactured under the Ferox Process (patented) and therefore effectively resist damage by Fungus Growth, Dry Rot and Termites.



These Celotex rar ze shelters protect chicks against r.vin and heat of sun and also provide shelter for the night— Hixon Peterson Co., Ottoville, Ohio



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POULTRY TRIBUNE Experimental farm	checked: Range Shelter Brooder House_	
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	Celotex dealer who	
Brooder House	Laying House	Dairy Barn
,	State	
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HATCHERYMAN a definition



THE GOOD HATCHERYMAN is a THE GOOD BATCHER. He understands breeding, feeding, and managing the laying flocks, the incubation and rearing of the chicks. He carefully selects all his breeders for vigor, egg production, and body size. He blood-tests them for pullorum disease. As the breeding season draws near he checks each flock to make sure it is being properly fed and managed to produce good hatchable eggs.

Cost figures indicate that it is usually cheaper to buy from a good hatcheryman than to hatch your own eggs at home. His chicks have advantages in breeding, pedigree, and incubation which you cannot equal without considerable expense.

Make it a point to get acquainted with a good hatcheryman. There is much he can do for you in the way of advice and instruction. He will be pleased to help you with your poultry problems. You will benefit by his specialized experience.

Allied Mills, Inc. FORT WAYNE, INDIANA

THE GOOD \ Notes

From PT Exp. Farm

by A. P. LOOMIS, Exp. Farm Sup't.

ITH the approach of the first cold weather in the fall every one who has anything to do with handling every any anything to the weather any the second of the every like the ev

Plans for Egg Cooling Cabinet

PT has arranged with R. B. Treat, manager of the Wooster Egg Auction, for a plan of an egg cooling cabinet. A service leaster in now assailable, and it may be had from the service department of PT for a 3-cent stamp.

summer kitchen happens to be, until Satur-

or summer kitchen happens to be, until Saturday when, if the roads are not too muddy; it is taken to the town grocery store and, before many more days pass, is offered for sale on the open market.

Extreme—well, I will admit that it is in most cases and I am sure that a lot of our readers handle their eggs just as we do here at this farm, gather at ten, one and four olock in the open mesh wire containers and take them immediately to a cool basement. We never case our eggs until the animal heat is all out, and we always market at least twice each week.

THEN, too, all male birds should be "swat-THEN, too, all male birds should be "swatted" or permed separately as soon as the hatching season is over. Although some people seem to feel that only fertile eggs need quick cooling and storage, this is practically as important with miteritie ones as the interior qualiform of the storage of the same group of perishable products.

It is usually impossible to produce really high class uniform yolk color and quality eggs where hers have free range. No, I am not when the same group of perishable products are successful to the same group of perishable products.

but for those specializing in a quanty product semi-confinement is necessary. Since it has been proven that hens kept in high temperatures lay smaller eggs than when provided with more comfortable surroundings, it is important to provide ample shade, and ventilation. Insulation board helps keep the provided with more comfortable surroundings, it is important to provide ample shade, and ventilation. Insulation board helps keep the pountry house cooler.

Attractive cartons, egg cases, fillers and flats all play an important part in the general appearance of eggs and should not be neglected.

Next month I hope to be ready to tell you Next month I hope to be ready to tell you about a new type combination egg filer and flat, and also about a gathering device which eliminates the need for a cooling cabinet. One of the large manufacturers in the field has tention and he has something to offer which looks very good to me.

Since we sell the most of our eggs to a large Chicago hotte which is very choosy about the quality, naturally we are interested in finding something which will help us market better eggs.

THE GOOD GROWING FEED a definition



THE GOOD GROWING FEED is one which carries chicks from the six weeks period to maturity with best growth and health results. It gives the chicks large-framed, solid bodies and the right kind of weight for steady, profitable production. It is palatable, nourishing, and economical.

Wayne Growing Mash has been producing such results for years, on thousands of farms. The formula was developed by a large staff of nationally known poultry authorities; and it is kept up to date by the same proved staff.

You will find Wayne Growing Mash an honest feed at an honest price. It will do everything that is claimed for it, unfailingly. And its results are always economical.

Keep Wayne Growing Mash before your pullets and cockerels all the time. When on range they need its well balanced proteins, vitamins, and minerals for sound, profitable growth. Wayne Growing Mash is manufactured with or without biologically tested Sardine Oil, for complete Vitamin D protection.

CLIP AND MAIL TODAY

Allied Mills, Inc., Dept. 35 Fort Wayne, Indiana



Cantleman Gentlemen: Please se me a copy of your val able booklet "3 Steps Poultry Profits." I obligations attached.

SEE YOUR WAYNE DEALER

Allied Mills, Inc. FORT WAYNE, INDIANA



By O. A. HANKE Editor

There Must Be United Effort!

O DATE 12,500 hatcherymen have pledged the National Commercial

and Breeder Hatchery Code to support its principles. This action is of real concern to every poultry raiser.

If the code accomplishes its objectives, higher poultry and egg prices should follow next fall and winter. You and every other poultry raiser want that to happen. But you ask, "How will it happen?" Let's turn to the policy of the contraction of the contraction. the objectives of the code.

Here is what the code aims to do:

1. To reduce the number of eggs and the amount of poultry produced and marketed and thereby increase the price of these products to farmers.

To increase the size of eggs produced, which should bring more money to producers and at the same time be of benefit to con-sumers, in that they are able to buy larger eggs.

3. To protect farmers and others who buy chicks against mis-leading and unethical advertising.

To insure farmers who produce hatching eggs a fair premium

for them.

5. To furnish employment to more people by reducing the hours

WHAT is the immediate practical effect of the code? Hatchervmen W are watching their settings. Unless they have orders for chicks in advance of the setting date, they do not set eggs to fill anticipated orders. The only way by which poultry raisers can be sure of getting their chicl when they want them is to order them at least three weeks ahead of the planned delivery date.

Such an arrangement will quite naturally reduce the number of chicks started this year. Thousands of poultry raisers wait until they want to start their chicks and then they send an order for them, or go to a nearby hatchery and expect immediate delivery. The better poultry raisers, how-ever, plan their poultry program more definitely than that and they are able to secure the usual quota of chicks by placing their chick order far

ahead of the anticipated starting date.

Government figures show that 10 per cent fewer chicks have been hatched this year than a year ago. If you still want to start a brood of chicks, arrange for your chicks at once. The May demand will be unusually heavy, because of the late season.

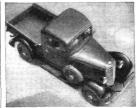
And we mustn't overlook the fifth objective of the code which is to furnish employment to more people. That's important, too. More people on payrolls means increased egg consumption. If we can increase egg consumption without increasing production, there will quite naturally fol-low an increased demand which will be reflected by higher prices.

Many of our leading economists feel that the economic problems of America cannot be solved altogether by a production control program. Obviously, millions of people are undernourished. Egg consumption per capita in this country is far below our normal health demands. Compared with Canada, our consumption per person is 263 eggs, as against 313 per person for Canada.

The future of the poultry industry is in the hands of poultry raisers. The National Commercial and Breeder Hatchery Code is the only device available by which the industry can be regulated. No processing taxes have been provided and there is no definite flock reduction program.

Much of the editorial inspiration for the halpful articles which appear in Poultry Tribune each month is obtained from Poultry Tribune Experimental Farm, owned and operated by Poultry Tribune and located one mile from the additorial office here in Mount Morris. At this Poultry in the Poultry in the Poultry in the Poultry Tribune, published monthly in the interest of 400,000 progressive poultry raisers, Contains many advertisements which feature these new products of manufacturers. You are invited to patronise these reliable firms which for feet deep mediate, equipment and stock.

Here's the New INTERNATIONAL Half-Ton 6-Cylinder TRUCK



Above: All-steel pick-up body 66 in. long

Speed, stamina, and economy yes, and the style and comfort of a passenger car, too. Available now in International's new half-ton truck, the Model C-1. All of International Harvester's long experience in truck engineering and construction is summed up in this fast new unit designed for hauling the lighter loads. We're proud of this new job and believe you will feel the same way about it when you see it. One look, one ride, will tell you why. The nearby International Truck dealer or Company-owned branch will give you complete information on the new Model C-1, and will quote you prices on equipment to meet the requirements of your business.

Below: The Half-Ton International with 6-ft. panel body on 113-in. wheelbase. Roomy 7-ft. body on 125-in. wheelbase also provided. Inside height, both bodies,





INTERNATIONAL HARVESTER COMPANY 606 So. Michigan Ave. (Incorporated) Chicago, Illinois



MOTOR TRUCKS

Three New

by E. L. DAKAN

NE of my good poultry friends said to me not long ago, on Dakan, I always try to keep a jump ahead of the other fellow. If you've got any new ideas, let me have them." This article is a result of my answer to the above statement, Some of the ideas are very old—I merely dig them up and offer them for your inspection.

My first offering is to present a plan for more economical use of the brooding and laying house equipment. Let us take a typical poultry farm where one brood of chicks is raised each year. Such a farm may have from three to twelve or more brooding units. This brooding equipment is used once during the year and the remainder of the time it is "idle overhead."

On this same typical farm, the laying houses are filled to capacity in the late summer or early autumn. At no other time will these houses be used to 100 per cent of their capacity. The losses from culling and dead birds mean that as each month passes an average of 5 per cent of the house remains "fille overhead." To put it another way, about 5 per cent of the laying plant is shelved or retired each month.

NOW my proposal—and one which we have practiced for two years—is to brood three lots of chicks each year and house three lots of pullets each year. Let us see how this works!

We started our first chicks in January. We just sold the cockerels (March 25) for Easter at 25 cents a pound. They

ary. We just sold the cockerels (March 25) for Easter at 25 cents a pound, They weighed right at 2 pounds each. The pullets will be moved to summer range shelters for hardening off in late April. They will be placed in their permanent laying house in July.

The second lot of chicks goes into the

The second lot of chicks goes into the same brooder house as the first lot. They will be hatched May I and remain in the brooder house until August when they will be moved into the summer range shelters for hardening off. The cockerels will not be profitable. We may kill them as soon as they show up. Here is one place where "sexing" the chicks would be a good practice. We can "sex" them by the time they are three weeks, old by comb development. The pullets will be moved to permanent laving houses in Octobers in Octobers in Certobers.

laying houses in October.

The third hatch of chicks comes off in late September. Last year we used sex-linked chicks for this autumn brood. The total mortality to date has been less than 10 per cent. The pullets are just beginning to lay. They were housed in permanent quarters in April.



It's up to the poultryman to make as muc money as possible from his hirds.

They have been out on range since January, when we needed the brooder houses for our first crop of chicks.

NOW let's look back over the above program! You see we have used our brooding equipment every month of the year. We have housed pullets three times—in July, October, and April—instead of once. We make room for these pullets by doubling up and putting two pens or two houses together. This is possible because we cull continuously and our mortality is continuous. Instead of letting a pen go for months with only half its capacity of birds, we make these birds move over three times a year and make room for new pullets ready to do their share towards keeping the egg basket full.

I can hear you saying, "But these autumn-hatched pullets, they start laying in the spring when egg prices are low,—you can't sell pullet eggs in April." Don't you fool yourseli! I have that problem solved.

- 1. Start chicks in January, May and late September.
- Store spring eggs yourself and sell them in the fall.
- Give layers definite amount of artificial light from red bulbs.

Management Ideas!

WE PUT our eggs in cold storage in the spring when prices are low and eggs too plentiful for our market. These pullet eggs come out of storage in October, November, and December, and sell at 20 to 25 cents a dozen. The carrying charge is about 1½ cents a doz-

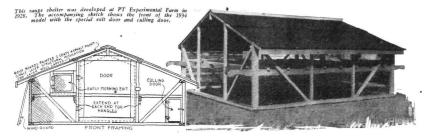
Do we sell these as cold storage eggs? There are millions of cases of eggs put into storage each spring, but very rew eggs are sold as storage eggs. It is a well known fact that the cold storage eags to be labeled as such are seldom if ever enforced. Am I advising you, Mr. Poultryman, to turn bootlegger? Not at all! Have this law removed from your statute books and then you can do legally what every operator does today as a bootlegger. It is a thoroughly bad law and can never be enforced. What you, Mr. Poultryman, want is

What you, Mr. Poultryman, want is a law requiring retail grades for eggs. The history of an egg tells no story. What the egg is when the retailer finally delivers it is the whole story. Retail grading laws can be enforced. New York State has such a law and the law is respected and obeyed.

Here I go talking about laws when my article is supposed to be about management of the property of the prop

Here I go talking about laws when my article is supposed to be about management. I hope you get my point. Here is a good management practice that is made impossible merely because we have a bad law. I know there are hundreds of the larger poultrymen who could and would use cold storage facilities if they could feel free to sell these eggs in the autumn and winter when eyes are scarce.

AFTER all, storing eggs is a very simple thing if you live near a good cold storage warehouse. With good roads, a good place at home to keep the eggs, and good eggs to begin with, a poultryman can put perfect eggs into storage and bring them out in excellent shape. It it only a matter of learning how. All trades have their tricks and this one is much simpler and easier solved than the trick of producing the egg. There is where the real problem lies.



For housing pullets on range use a

by J. H. FLOREA Assoc. Dir. P. T. Exp. Farm

Shelter Range

URING the next three or four months comes the test which up good poultrymen. Practically every one realizes when he starts baby chicks that these are tiny infants which need close attention and care. Every effort will be made, according to each individual's knowledge and experience, to keep them

After the chicks are 10 to 12 weeks old, one's attitude is likely to change. The press of other farm work tends to draw attention away from the chickens, and they are left to shift for themselves. It is during the three or four months growing period, however, that good pullets are either made or lost in most flocks. It is impossible to neglect the pullets during the summer and expect to have strong, healthy, vigorous, well developed birds which can stand a winter of heavy production. True, they don't need the detailed attention that baby chicks require, but they must have systematic care.

The plan of range management followed at Poultry Tribune Experimental Farm may not be the best for every poultryman, under all circumstances, but it is one which has given good results at the farm, and one which probably can be adapted to the use of practically any poultryman who has range available.

DULLETS are taken to the range around June 1 when most of them are 10 weeks old. Cockerels either have been sold previously, or are left in the brooder houses to be grown out as broilers, roasters or capons. It does not pay to take cockerels to the same range as they simply crowd the pullets, often driving them away from the mash hoppers, and add to the contamination of the soil. Of course, when necessary, a few breeding cockerels can be raised on

the range along with the pullets.

At Poultry Tribune Farm the brooder houses are left in one location near the dwelling house where they are conveni-When the pullets are taken to

range, they are put in open range shelters which are simply frames covered with wire netting and a roof of insulating material. These shelters give practically the same results as though the birds roosted in trees, but do give protection from rains, storms, and varmints. They are 10 by 10 feet in size and have no inside equipment except roosts. Each shelter is suitable about 150 ten-weeks-old pullets. is suitable for lets should be moved in nice weather so the change from brooder house to range shelter will not be too severe. If the weather suddenly should turn cold or stormy, a tough sisal paper can be stretched around the shelters to protect the birds.

FOR the first couple of days and nights, pullets are kept shut in these shelters with water and feed inside. When they are let out, about the third morning, remain close to their particular shelter, and there is very little mixing back and forth throughout the summer, although we have had eight shelters on about four acres of ground.

Wire-floors in these range shelters will be justified to keep the birds out of the droppings. By using properly sup-ported welded wire, these floors can be trong enough to walk on.

are all roosting inside the shelter, the large door in front can be closed each night, but the small door at the level of the roost can be left open. In the morning, then, the pullets can get out as early as it is light without the necessity of anyone opening a door for them. If an early morning storm comes up, the larger door must be opened to let the pullets in again. A small door in one lower corner of the front of the shelter is extremely convenient for driving out pullets into a catching crate for culling, worming, vaccinating, or moving to the laying house in the fall.

CLOSE watch should be kept on the range shelters during the summer for the appearance of red mites. The best insurance against mites is to paint the roosts and roost supports with a wood preserving material, such as car-bolineum, which will keep mites away for at least a year. Many people think that because pullets have never been near the older birds no mites will get a start, but sparrows and other birds can carry mites, and very frequently they do get a start in range shelters.

Outside the shelter there are three feed hoppers, a water barrel, and a shade shelter. There is no shade on any range at Poultry Tribune Farm, except an occasional tree, so a frame covered with insulating board is provided as shade, and the pullets do appreciate such shade on hot summer days.

The hoppers are about five feet long, thus providing one foot of hopper space for each five pullets, as the birds can eat from both sides of the hoppers. Most of the hoppers are metal with covers which come well down on the sides, protecting the feed from rain. Each hopper holds exactly 100 pounds of mash, which makes it unnecessary to fill them more than once or twice a week. The hoppers are on small skids so they can be easily pulled to a new orted welded wire, these floors can be rong enough to walk on.

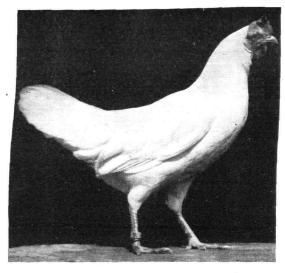
While the pullets are still small and of the range.

Continued on base 153



Detailed plans for building the range shelter and also for a special shade shelter are contained in this special bulletin which may be obtained from Poultry Tribune's Service Department for 15c.—Editor.

POULTRY TRIBUNE for MAY, 1934-Page 7



Common Sense in Controling

DULLET mortality in many com-mercial and farm flocks in the United States is really astounding and presents one of the major difficulties confronting the poultry indus-If it were not for the fact that the chicken as compared with other classes of livestock is a relatively small economic unit and can be replaced at a moderate expense, it seems certain that many poultrymen would be forced out of business in a very short time because the mortality is so high. If the beef cattle and the dairy cattle breeders lost 25 to 30 per cent of their animals every year they could not long remain in busi-

One or two illustrations along this line from different parts of the country will serve to emphasize how important is this problem of laying-hen mortality. In the Petaluma district, Sonoma county, California, a survey was made 38 commercial poultry farms, the average size of the flock being 1,651 birds, and it was found that there was over 20 per cent mortality.

over 20 per cent mortality.
Other observations on laying ben
mortality are taken from the Connecticut Home Egg-Laying Contest reports.
In the laying year of 1929-1930, pullet
flocks in the Connecticut Home Egg-Laying Contests showed a 15 per cent mortality, 6.8 per cent of it being accounted for by prolapsus and cannibal-ism, and 8.2 per cent by diseases of vari-ous kinds. The same year the hen flock showed an average mortality of 12.6 per cent, 2.5 per cent being accounted for by prolapsus and cannibalism, and 10.1 per cent by diseases of various kinds.

M. A. JULL

Senior Poultry Hus-bandman, U. S. De-partment of Agr.

One hears of pullet losses amounting to 30 and 40 per cent in many flocks during the first lay-ing year. Mortality amounting to 10 per cent is considered

more nearly normal.

We have reached that time when something definite must be done about it. Poultry raisers cannot go on having such

Poultry raisers cannot go on having such mortality, if they expect to make money in the poultry business. What is wrong? In this exclusive article, Dr. Jull points out that the solution is in the poultry raisers hands. There is a breading and management program which will largely prevent this mortalizers. We are having these losses because our chickens do not have the necessary resistence. Such a these losses because our chickens of hot have the necessary resistance. Such a program as the one suggested here is now being advocated by outstanding poultrymen in all parts of the land.—

Pullet Losses

N 1930-1931 the Connecticut Home IN 1930-1931 the Connectical Demonstration pullet flocks showed a mortality of 15.9 per cent and the hen flocks a mortality of 11.3 per cent. The 1932 figures are still worse, the pullet flock mortality being 17,4 per cent and the hen flock mortality 12.9 per cent. During the last 7 years of the Connecticut Home Egg-Laying Contest the mortality from both pullet and hen flocks has run as follows: 11.5; 12.8; 13.7; 14.7; 14.5; 14.7; and 16.3. You see here a tendency for mortality to increase which, of course, must be very discouraging to poultry raisers.

Just a few figures may be taken from the summary of the reports on demonstration farm flocks in the different

* * * The following points are offered as common sense methods in controling pullet mortality.—M. A. Jull.

Breed for vigor; select breeding stock on the basis of the vigor of the prog-eny produced.

or the basis of the sign of the ma-eny produced.

2. Breed from carefully selected yearling or older both occurrence of egg pro-duction are more desirable than very high individual records.

4. Feed well-balanced diets, especially to briefs in conjuments.

5. Production of the second of the second ing chicks and laying beas.

6. Broad chick in lot of 250 or less, year, and all the second of the second of the year.

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8. Practice good sanitation in the houses.

states. Glancing over these figures, we observe that the lowest mortality is in the farm flocks of Nebraska, and even there they lose 11 per cent of their birds. Coming to the northeastern part of the country we find the demonstration farm flocks in Massachusetts showing a mortality of 23.3 per cent: New Hampshire, 16.9 per cent; Connecticut, 17.4 per cent for the pullet flocks and 12.9 per cent for for the pullet flocks; Delaware 28.8 per cent for the pullet flocks; Maryland, 36.7 per cent for the pullet flocks; Maryland, 36.7 per cent for the pullet flocks and 38.2 for the hen flocks; Rhode Island, 15.4 per cent. These figures do not present a very glowing tribute to the poultry breeders and raisers because it is fairly certain that a great deal of the mor-tality is avoidable and could be pre-vented by poultrymen taking proper precautions.

T IS interesting to observe that in Michigan the birds that died in each annual egg-laying contest conducted from 1922 up to last year, have all been posted and the cause of death determined so far as possible. The total mortality was 18.98 per cent. Among the three breeds or varieties that had over 100 birds in the contest the Barred Plymouth Rocks had a mortality of

30.5 per cent; the Wyandottes a mortality of 26.4 per cent, and the White Leghorns a mortality of 17.5 per cent. The greatest mortality in all the breeds occurred during the months of March, April, and May, although July was also quite high.

Kennard of the Ohio Experiment Station reports the following mortality among pullets: 1921-1925, 31.2 per cent; 1925-1929, 38.4 per 1925, 31.2 per cent; 1925-1929, 38.4 per 1925, 31.2 the pullet progeny of pullet hreedees had a mortality of 60 per cent and the brillet progeny of high property of pullet and in 1932-1933 the figures were 60 per cent and 40 percent, respectively.

cent and 40 percent, respectively.

OutTE recently we have made some interesting observations on this problem of laying pullet mortality among Rhode Island and the shandyr Experiment Farm. Beltsville, Mid., and found, for instance, that there was a tendency for high-producing dams to his account of their pullets die than low-producing the transport of their pullets die than low-producing there was no difference in the chief mortality of the pullets whose dams laid above the mean egg production of the dams in each pen was 7.64 per cent; whereas the mortality among the pullets whose dams laid below the mean egg production of the dams in each pen was 7.92 per cent. In the White Leshorns, the 2.92 per cent. In the chief Leshorns, the shand the shand

Beautizing the mortality presents in the universities of the two groups of dams is significant.

REALIZING then, from the evidence submitted previously, that pullet mortality is mortality as the previously, that pullet mortality. Apparently, the excessive pullet mortality accounts of the previously that the excessive pullet mortality accounts of the previously and generation is the price that poultrymen must pay for specialization. Eages have constituted the checking of the properties of the p

Some of the current-day pullet mortality is apparently due to the rearing of chicks and keeping layers in confinement; not that the confinement system is at fault but the tender seems to be that many poultrymentry the confinement system before they know how to care properly for birds kept in confinement. Much more careful management when the confinement may be the confined than when allowed on range, and the confined than when allowed on range, are confined than when allowed on range. Continued on page 15)

HAVE ORDERED

this YEARTHAN EVER BEFORE Royal W. Booth

The last Government hatchery report shows fewer chicks produced in the U. S. this care than last but in spite of this, sales of flooth Farms chicks are 60% in advance of the control of t

TEN TIMES AS MANY EGGS



ES AS MANY EGGS

"I have bought chicks from 5 other poultry farms that claimed to have good chickens and paid much more for them than I did for not lay like yours do. Today from 150 pullets of other stock I got 1 ggs and from 200 Booth pullets, same age, I got 165 eggs. 1 am costs for them. The ones I got from you hast year averaged 216 eggs per bird for 12 months. Some of them laid over 300."—B. W. Taylor, Pleirida.

FLOCK OF 2100 BEAT STATE CONTEST AVERAGE

Anderson Poultry Farm, Salt Lake ity, Utah, writes: "We find our City, Utah, writes: "We find our eggs of extremely good quality, very nicely shaped and uniformly large. The average weight of the pullets is 4.35 lbs. We averaged 33.17 eggs per bird for Oct. and Nov. These records put us over 7 eggs per bird abead of the Utah State Laying Contest average."



\$183 NET PROFIT IN 24 WEEKS

Hagerstown, Md., Deet, 7, 1933.

"I raised 264 birds out of the 200 chicks. I said 54 pullets for 875,50 at 5 m 1,85 points when they were 24 weeks old at 15 a sound. This made a total of baring 398,20. The feed cont was \$438,20. The feed cost was \$438,20. The feed cost was \$438,00. The fee

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At the World's Fair. Chicagon, 1833, the highest pen for number the highest pen for numbers. The highest pen for numbers the highest pen for numbers that the highest pen for numbers that the highest pen for numbers that the highest pen for numbers in both eggs and points of pens in both eggs and points in the past 5 years, in competition with the best breeders. States, our brids have work States, our brids have work States, our brids have work States, our brids have one States, and the high states and

All of these hens were raised on our own farm from our own bloodlines. Thousands of their sisters are used in our AAA Matings. Their egg records are your assurance of profitable breeding back of your chicks.

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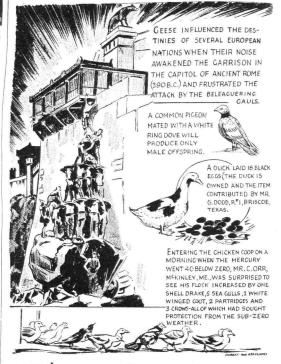
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What to Do

Prevent Coccidiosis

It so happens that coccidiosis develops more readily when a combination of warmth and moisture is present. It is, therefore, a little more likely to occur in therefore, a little more likely to occur in late broods of chicks, especially since many farmers and poultrymen become careless with late broods and do not give the at-tention to sanitation that they give earlier. Special care should be taken with late broods of chicks to see that the brooder houses are thoroughly cleaned before the chicks are put into them, and that the chicks are given the proper of the chicks are the chick and that the

Placing the feed hoppers and water troughs on frames covered with hardware cloth is an additional aid in preventing coccidiosis.

Spraying the litter at regular intervals with special disinfectant also will prevent the development of this disease.

Watch Brooder Temperatures

It sometimes is a problem to know how long to continue heat in the brooder house in the spring.



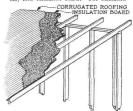
Send for Official \$1500 Chick Growing Contest Entry Blank

Chicks 8 to 10 weeks old probably will necoding younger chicks, it is best to watch how they settle down around the stove at night. If the inner edge of the chick circle is at the outer edge of the hover, or about 18 inches away from the hover, or about to inches away from the edge of a drum type stove, the heat prob-ably is satisfactory. If the chicks begin crowding back further away from the stove, however, the amount of heat should be reduced.

During warm, sunshiny days the fire can be turned out entirely or allowed to burn very low, then started up again late burn very low, then started up again late in the afternoon. Very young chicks prob-ably will need a fire all day for the first two or three weeks, for the same tempera-ture should be provided in starting May chicks as starting earlier hatched chicks.

Steel Roofs!

Corrugated, galvanized sheeting is now being recommended for poultry bouse roofs. There is, however, a very important point in laying the corrugated sheeting correctly. A number of New Jersey poultry raisers have laid the corrugated sheets over one-half inch insulation board. The insulation



board is used instead of ordinary lumber sheeting. Then the corrugated, galvanized sheets are laid over the insulation board.

Specis are taid over toe instantion operat.

A roof laid in this manner will give practically a lifetime of rust-free service under average rural conditions. It is easy to put on, attractive, fire-proof, lightning-proof (when properly grounded), strong and economical.

nomical.

It is important to purchase sheeting which is heavily coated with zinc, for zinc is the protective material which keeps the stee from nisting. Use good galvanized nails with lead underseath the bead to fill up the hole around the nail.

Don't Carry Disease to Chicks

Poultry diseases frequently are carried from adult birds to the chicks when the caretaker goes directly from one house to the other. They also may be carried by visitors who come from infected flocks.

It is a safe precaution to have an old house to be put on whenever you go into the brooder house. It also is the safest policy not to permit visitors.

Sell Broilers At Two Pounds

It seldom is profitable to sell broilers before they reach a weight of two pounds. Broilers of this weight, or heavier, are preferred on most markets and will bring several cents a pound more, in addition to the extra income due to their heavier

In some instances, of course, it may be necessary to sell the broilers at a lower weight, due to the fact that they are crowding the pullets, and there is no place

else to put them. Neither will it often be profitable to hold them after they reach marketable weight. Broiler prices usually drop rapidly after the middle of May.

OVER 112,000 CUSTOMERS on our books should convint the most careful buyer that of chicks are profitable. Sieb's Fine Large Chicks are the product of many generation of successful breeding and culling of finest purebred Hogan Tested Flocks to product

PRICES PREPAID Wh., Br., Bf. Leghorns	R NOW FOR PI	50	100	500	1000
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Wh. Orps., R. C. Reds L. Wyandottes Wh. and Blk. Minorcas	2.12	3.98	7.45	36.00	70.0
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Aixed for Layers	1.85	3.40	6.30	31.50	63.0

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"I WILL never start another lot of chicks ware poultymen." There are orthusiastic Delaware poultymen." There just raised 600 chicks of the control of the co

diosis and other intestinal diseases, build flesh and vitaity and get pullets to laying sooner. Make the test and seel Near fall you'll get more and the seed of t



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100 500 1000 \$6.50 \$32.00 \$64.00 6.75 32.50 65.00 7.90 37.50 75.00 ateed O. D. Speckled Sussex ivery. Sasorted Chix Box 656 6.30 31.50 63.00 BUTLER, MO. for \$1 per 100 deposit: plus delivery charges on del MISSOURI STATE HATCHERY,



Danger of Infection Among Baby Chicks

Success in raising baby chicks is de-pendent upon proper care and management. Readers are warned to exercise every sanitary precaution and beware of infection in the drinking water. Baby chicks must have a generous sup-Baby chicks must have a generous sup-ply of pure water. Drinking vessels harbor germs and ordinary drinking water often becomes infected with dis-ease germs and may spread disease through your entire flock and cause thatch before you are aware. Don't wait until you lose half your chicks. Use preventive methods. Cot'r fallo Tablets in all drinking water from the time the chicks are out of the shell.

REMARKABLE SUCCESS In Raising Baby Chicks

"Dear Sir: I see reports of so many losing their little chicks, so thought I would tell my experience. I used to lose a great many of the little downy fellows from bowel troubles, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 360, Water-loo, lowa, for their Walko Tablets for use in the drinking water of baby chicks. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick after using the Tablets and my chickens are larger and healthier than ever before. I have found this Company thoroughly reliable and always get the remedy by return mail."—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.

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Complete Building Plan Ready



Complete Building Plan Ready

If you would like to build a new poultry house, the type of which a name of the type of type

Open Windows in May

On nice days this month, brooder house On mice days this month, prooder house windows should be opened to allow plenty of sunshine and ventilation in the house during the day. At night ventilation will be necessary, but it should be arranged so no direct drafts strike the chicks, or they may be inclined to move around and possibly crowd back into corners.

Sell the Roosters

In most flocks, no hatching eggs will be saved after the middle of this month. As soon as no more batching eggs are wanted, soon as no more batching eggs are wanted, the male birds should be taken out of the laying flock and either sold or penned separately. In most cases, it will be better to sell them, as they will bring a higher price now than they will next fall, and their sale now will result in a considerable saving in feed.

Really good make of course, can be Really good make be boused separately be produced during the summer. Fertile eggs will be produced during the summer, Fertile eggs deteriorate very rapidly in hot weather and are not wanted for market purposes.

Shade is essential on the range in hot weather.

Have Handy Coop For Broodies

In breaking up broody hens this spring, keep the brooding coop right in the laying house. It can be a coop with a wire bottom or a slat bottom suspended from the ceiling or from the wall of the house. Many poultrymen build the coop over the

dropping boards.

When the broody coop is left in the laying house the broody hens seem to eat better and come back into production sooner. If the coop is handy, one is not so likely to neglect catching the broady hens the first night they are discovered.

Watch for lice and mites in the laying houses. They begin to multiply rapidly as soon as warm weather is here.

Facts, Nevertheless Explanations

The interesting fact that a common piecon mated with a white ring dove the piecon mated with a white ring dove the piecon mated with a white ring dove the piecon p





LOOK AT THESE LOW PRICES | LOUR AI I HESE, LOW PRICES | The prepaid Prices | 100 | 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1

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Questions nswers

Letters from subscribers answered free. Send

by J. H. FLOREA Service Department

To Keep Pullets From Flying

turn my pullets out in the spring, they fly out cerl yard. Is there a simple way to keep them g'-C. A. E., Pennsylvania.

Too gring:—C. A. E., PennoStrail,
ANSWER: The best way to keep them
from flying is to clip one wing on each bird,
Seretch out the wing and clip, the large flight
feathers. When only these feathers are clipped;
a does not harm the appearance of the bird
when the wing is folided up. Clip only one
wing on each bird, of course.

Controling Lice and Mites

Please give me information on controling lice and mites.

ANSWER: To control lice and mites prop-

-d. A. G. Tem.

ANSWER: To control lice and mites properly, it is necessary to realize that they are two distinct pests and require slightly different treatment. Most lice live on the body of the control of the contr

keep mites away for a application.

We have sent you a mimeograph leaflet out-liaing the treatment in greater detail. This leaflet is available to any subscriber for a

postage standard propagation used for mites is must satisfactory in destroying the blue bugs which are so persistent in the southwestern states. If may require more than one application to get rid of them.

Blackhead Carried Through Egg?

ANSWER: We do not know of any evi-ence indicating that the turkey hens could ansmit the blackhead through the eggs which

transmit the blackhead through the sale.

We do not believe, however, that you should raise your poults with chicken hens. If you raise your poults with chicken hens. If you from chickens and older turkeys during the bronding and growing period, and if you use sround where no chickens or turkeys have singled for a couple of years, you should not have so much trouble with blackhead this year.

How About May Chicks?

Will May be too late to get chicks and expect them to be profitable ...J. A. L., Minn.

permander—J. A. L., Minn.

ANSWER: No, chicks purchased in May
can be very profitable. Of course they will
ad come into production as early as chicks
purchased earlier in the season, but they
should be in production by October or Noveniller, and there is less danger of a winter
and the May hatched pullets than in earlier
the May hatched pullets than in earlier

most in May hatched phoses.

May hatched chicks, however, should be civen just as much care as earlier chicks. Simply because the weather is warmer does not mean that they need any less attention.

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textbook on poultry diseases. 12-oz. bottle, 75c; 32-oz., \$1.50. At your Lee dealer; or from factory, postpaid. If you have never used Germozone, 4-oz. you have never used Trial Bottle mailed fo

GEO. H. LEE CO.
Lee Building Omaha, Nebraski

Maintain the proper temperatures, keep clean feed and water before them, and clean the brooder house just as frequently as you do with earlier broods. Also be sure to have them on clean ground when you let them be-

them on clean ground war food
gin running outside.

Many poultrymen start a brood in May in
Addition to earlier broods. These later chicks
are an aid in maintaining an even ear production throughout the winter and following spring and summer.

Holding Hatching Eggs

How long should hatching eggs be held before they are

ANSWER: The sooner eggs are set after they are laid, the better, but they usually can be held for a week to ten days without any ill effects. Usually, when they are held longer than that they decrease in hatchability.

A temperature of around 50 degrees F, is perhaps most satisfactory for holding hatching eggs, but in any case, they should be held at a temperature of under 70 degrees.

Leaflets for Subscribers

Legisti TOP JUDSCI DOPS

The following leafits and circulars which have been prepared to aid our readers may be obtained by addressing the Service Department, Poultry Tribune, Mount Morris, Ill. If you wish, you may clip this notice and check those leafers that you want, sending along the postage indirected. Don't forget to piter your name and galferes.

- No. 1, How to Control Round Worms and Tape Worms in Poultry with list of worm remedies—6 cents in stamps.
- No. 2, How to Control Coccidiosis in Chicks-3-cent stamp. No. 3, Instructions for Caponizing-3-cent stamp.
- No. 4, How to Ventilate a Poultry House—3-cent stamp.
- No. 5, Egg and Poultry Buyers-3-cent stamp. No. 6, Poultry Tribune Egg Record Sheet-10 cents in stamps.
- Sheet—10 cents in stamps.

 No. 7, Plans for Egg Cooling Cabinet
 —3-cent stamp.

 No. 8, Canned Chicken is Tasty and
 Convenient—3-cent stamp.
- No. 9, How to Treat Colds, Roup and Bronchitis—3-cent stamp. No. 12, Starting and Growing Rations
 −3-cent stamp.
 No. 13, Laying Rations −3-cent stamp.
- No. 16, Answers to 10 Common Questions on Housing-3-cent stamp.
- No. 18, How to Use Battery Brooders

 -3-cent stamp.

 No. 19, Controlling Cannibalism,
 Feather Pulling and Egg Eating

 3-cent stamp.
- Scent stamp.

 No. 20, Direct Selling Information for the Poulityman—3-cent stamp.

 No. 22, Caging the Layers—3-cent stamp.
- 23, Blackhead Control-3-cent □ No.
- tamp. 24, Broiler Production-3-cent ☐ No.
- No. 25, Figuring a Belanced Ration—3-cent stame.
- 3-cent stamp.

 No. 26, Instructions for Dyeing Baby Chicks—3-cent stamp.
- Chicks—scent stamp.

 No. 27. That New Bronchitis Vaccine
 —3-cent stamp.

 No. 28, How to Centrol Lice and
 Mites—3-cent stamp.
- No. 29, How to Spot the Non-Layer,
- 3-cent stump.

 Complete List of Products Approved After Test on Poultry Tribune Experimental Farm (Includes brooder stoves, brooder houses, feeders, fountains, insulation, etc.)—3-cent stump. Bul. 1, How to Build a Range Shelter for 125 pullets—13 cents.
- ☐ Bul. 3, Newest Model 24 x 24 Combination Roof Laying House Blue Print—15 cents.
- Bul. 4, How to Build a Brooder House (blue print)—15 cents.
- Bul. 5, Blue Print and Plans for Two Story 1500-Hen House-25 cents. Bul. 6. Blue Print and Plans for 20x40 Shed Roof House—15 cents. Clip this list and mail to Poultry Tribune, Mount Morris, Ill.





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Range Shelter

(Continued from page 7)

A labor saving watering device is used. An old buttermilk barrel is set on small skids and a hole bored near the bottom of the barand a note bored near the bottom of the bar-rel. In this hole is put an automatic foun-tain. The pan from which the chicks drink has one end on the skids and the other end suspended from the fountain. The weight of the water in the pan automatically controls the flow of water from the barrel. In this way, no water is wasted and yet the pullets way, the water is wasted and yet the pullets barrels are covered to keep pullets from fall-ing in and to keep the pullets from fall-ing in and to keep. ing in and to keep the water cool.

ing in and to keep the water cool.

THE range itself is usually sowed to alfaira. We doubt if there is a better range
representation of the control of the control of the control
representation of the control of the control
representation of the control of the control
representation of the control
repres

birds on it.

Most important during this growing period
is the feeding. Recent experiments at the
Iowa Agricultural Experiment Station indicate that pullets cannot start laying until they cate that pullets cannot start laying until they have attained a certain percentage of their have attained a certain percentage of their 90 per cent, athough, in certain instances, birds become sexually mature when only 70 per cent of their weight has been attained. It thus becomes necessary to feed the pullets to get steady growth; so they will have good size when it is time for them to begin beying.

NOTHER reason for getting good growth during the summer is that it has been definitely demonstrated that the heaviest birds within a breed, within reasonable limits, lay

within a breed, within reasonable limits, lay the largest escapeding must be well bused on the second of the largest expension of the largest expension of the process for exceedingly rapid growth until fall, then "held back" by skimpy feeding. Neither can they be starved all summer, then suidenly developed by a couple of weeks of good feeding in the fall. Growth is a steady, slow process, and the birds should be enabled to develop normally.

Pullet Losses

(Continued from page 9)

(Coninued from page 9)

of vitamins A and D in their diets. Then again, there is often overcrowding, which frequently ledfs to disease anorther of the page of the

ing chicks on clean range is vitally important in reducing pullet mortality. Alternate ranges should be provided, each to be used every other year and range area should be provided at the rate of at least one acre per L.000 chicks. Even then the cockerels should be separated from the pullets as soon as possible and placed on a separate range.

Poultry Health

By DR. J. E. SALSBURY Veterinarian and Special-ist in Poultry Diseases



MAY In this month of plessant, smalling days, the Design of the Company of the State of the Company weather 'for his chicks. But he must also keep a wary ope for Coecolosis, for the germs of that dread, and the company of the Coecolosis of the spens of that dread moist earth, and chicks are likely to pick them up on the ground or in the Bitter. Before one of the Coecolomic of the Coecolo

Prices:—Phen-O-Sal Tablets, 125 for \$1.00, 1 Tone, 5-lb. carton, \$1.75. Poultry House Di fectant, awart can \$1.00. Dr. Salsbury's Lab tories, 417 Jackson St., Charles City, Joues.

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ance Co., 512 Pickwick Bidg., Kansas City, Mo., the oldest and largest company of its kinds in the control of t

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Which Foods to Serve Our Family!

PRING time, seeding time, bradeheliek rime, housecleaning time! Oh, it's a
busy time these days
ever rim out of week
-but with the me m
folks out on the land,
days are long, and
every hour brimning
thou bear of the control

How the out-ofdoors work does
sharpen the appe-

our most careful consideration.

MOTHER Nature chiliquely comes to our MOTHER Nature chiliquely comes to our judge and in supplying many foods in a single package. None strpass the egg, rich in complete proteins, superior fats, with four vitamins (A, B, D, and G), and an abundan source of iron, phosphorus and sulplur, traces also of nine other minerals. An excellent fond, the egg is also the very foundation kitchen—quadding, pies, cakes, cookies, sourfles, omelettes, saladis.

At the recent conference of the Institute of American Poultry Industries, Dr. R. Granham, Ontario, Canada, reported that rescaled the vitamin D content of egg yolk produced speedier recovery from rickets in children than did cod-liver-oil.

BECAUSE of tooth structure and the nature D ECAUSE of tooth structure and the nature of our digestive tract, science points out that the human body is properly nourished only when a mixed diet is caten. No single food, not even the egg, includes every factor needed for health. We build an adequate diet by combining foods rich in the different factors demanded by the body. Protein needs to be a supplied to the company of the company of



A conveniently arranged kitchen is a great aid to the farm mother,

History shows that all dominating nations have been protein eaters. Dr. E. V. McCollom nutrition authority, compares proteins to ije-saw puzzles. Proteins from different sources are made of many different parts, and differ from every other protein and those needed by the human body. But our bodies can adjust these varying proteins to the protein needs of the muscles and glands; so it is a wise plan to include a variety of proteins in the det. Bacon and eggs is not only the protein of the det. Bacon and eggs is not only essential dietetic need. Pork and beans, complied to the proteins of the determined and animal proteins. Milk, besides being the finest source of calcium, contains other minerals, carbohydrates, vitamins and a superior protein.

when an a superior protein.

E unart of milk and one egg daily, while adults need one pint of milk daily and at least three eggs weekly. These may be included in the diet in custards, drinks, puddings, ice cream, with cereals, and countless other ways.

For health, bone repair and growth, freedom from toothache, be sure that these foundation stones, eggs and milk are included to the control of the control of

What gasoline is to the automobile, fats and carbohydrates (sugars and starches) are

ream bacon mutative rest are listed among the fats. Include generous amounts in the family diet, the first two being given the preference. Honey (a matural sweet), molanatural sweet sweet). These sweets are like candy which Dr. P. K. Lead and Deutal College, says "is not injurious to the teeth. The main harm caused by them is that they by them is that they blunt the appetite. They should be eaten only at the close of the meal."

A MONG starches, we find the good and well-named "Starf of Life." bread, with his control of Life. I bread, with rice. The humble potato is also an economical source of food starch since, when properly cooked, with the potato is also an economical source of food starch since, when properly cooked, and D and food from the potato, a carbohydrates leave an adalatine ash. That prized fields of distance and the potato, a carbohydrates leave an adalatine ash. That prized fields of distance and the potato, a carbohydrates leave an adalatine ash. That prized fields of distance and the potato, a carbohydrates leave and cooked prized fields of the potato, a carbohydrates leave and cooked prized fields of the potato, a carbohydrate leave and cooked control of the blood.

There is constant wear and teat, with need for repair, going on in every part of the body, even in the bones and teeth. Food elements, that build leashly teeth and bones in children, are those necessary to nourish and to an eminent scientist, tooth and gum disorders are due to a lack of calcium, phosphorus and vitamin SA. Cand D.

Calcium is found abundantly in milk; eggs are a rich supply of phosphorus; vitamin D is found in egg yolk, out-door stresshine, and cooked vegge are a rich supply of phosphorus; vitamin D is found in egg yolk, out-door stresshine, and cooked vegge are a rich supply of phosphorus; vitamin D is found in egg yolk, out-door stresshine, and cooked vegge that the retains its vitamin C content with canning; since vitamin C is lost under high cooking temperatures. Cabbage and similar coarse incevitamined in the cooking temperatures and and bulk to our diet, helping to sweep clean be intestinal tract.

SCIENTISTS are agreed that for health we must include generous, daily servings of

SCIENTISTS are agreed that for health we must include generous, daily servings of these protective foods—milk, eggs, vegetables and fruits. Combine them liberally with the proteins, carbohydrates and fats for mental and physical vigor, for long life, for beauty.

Egg and Poultry Prices!

Higher Prices Encourage Farmers to Keep Hens—Consumption of Eggs High in March—Storage Increases.

(Written April 13)

High in March—Storage Increases.

(Witten April 13)

THE HIGHER get private prevailing this in the amount of poultry sold by reflection. Whereas, in January, when egg prices were lower than a year ago, there was heavy marketing of hens, the last two months have winnessed a decrease in marketing compared with a year ago, the private property of the property of the

pected to be available. Highest quotations on five egg auctions fol-

Highest quotations on his and a single problem of the problem of t

PRICE COMPARISON CHART

The egg prices listed represent the highest quoted for that city. Figures are from the Produce Packer.

	April	7, 19	34				
City	Eggs	Fowls	Fowls	Springers	Turkeys	Ducks	Broilers
New York Chicago Philadelphia Los Angeles Minneapolis	25 1734 20 1434	18 13 17 10	15 15 14 05	i9 	26 20 26 10	12 18 16 06	25 25
	April	8, 19	33				
New York Chicago Philadelphia Los Angeles Minneapolis	21 % 12 % 17 16 12	15 1234 15 17	14 1334 14	20 16 18 18	25 18 16	12 1434 14 12 108	21 20 23 14

Grades of poultry are so varied in different cities that it is difficult to find corresponding grades. All quotations in these tables are based on terms which, in the final analysis, mean the same.



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5-bird pen of all breeds at Quincy, Hilnols, -1933. Our Kansas Hen, 1932, was high ben treeds and second hilmest Leghorn hen in all tandard Contests. Thumpion Leghorn Pen at 1931. More than 1939 and collisions.

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Contest Winners Prove Laying Ability At the right is hen No. 746, highest hen, all breeds, Alabama '32'33 Contest: 322 eggs, 331.5 points. Four-300 eggers in this con-test. No wonder customers can report flock averages up to andover 200, and even above 250—mortality low as, and under 4%.

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But Legherns (Davis Strain)

But Legherns (Davis Strain) DAVIS POULTRY FARM,

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The HOME GARDE AMIL A

by M. G. KAINS

• Celery as ordinarily grown demands a great deal of heavy work. For this reason many gardeners avoid it and fall back upon the usually poorer market crop.

Try planting some this year in "hills" of two or three plants each, wrapping each hill with a newspaper tube and tying each hill when the plants are ten or twelve inches high. In two or three weeks, the stakes should be melted parafine are more convenient and durable than paper, and more easily handled than the so-called "celery tile."

the so-called "ceiery the."

Slugs and smalls often do serious damage
to foliage during wet seasons and in most
location. They work a raight, so they are
usually not suspected of being present until
they have perhaps destroyed valuable plants
or fruit such as strawberries.

When their slimy trails are seen or when
they can be found with a flashlight late at
might they may be fought with lime or wood
ashes scattered liberally on the ground. These
also be trapped with bits of carrot, freshly
ent and placed in damp spots in the evening
mid visited in the early morning. Spraying
with poisons is also effective but it is dangerous when the plants or their fruits are to be
used for human food.

used for human tood.

Strawberries are often injured by plant like and other insects, which feed on the roots. Their presence is seldom suspected until the damage has been done.

The presence of ants "hiller where the crowns of the plants are located is almost cause the ants enjoy the "honey-dew" which these insects secrete.

A good way to rid the plants of the pests is to soak the soil around the plants with blackmanning the plants with blackmanning the same proportions as recommended for spraying. Tobacco dust is even better tinch at a time. The material not only repetition of the plants with the propertion in the plants with the propertion as recommended for spraying. Tobacco dust is even better tinch at a time. The material not only repetition that is the propertion of the properties of the properties of the price of one!

• Peony buds may be kept clear of ants by placing cups filled with sweetened water at the base of the stems. The insects prefer this to the buds and will soon find it. If desired the water may mate (bi-chloride of mercury) or some other readily soulbe poison; but care must be taken to prevent chickens, birds and animals from getting at the water. As preacution the liquid may be placed in wide-monthed bottles buried neck deep in the ground.

 Window boxes as ordinarily made are prone to dry out in hot weather. To avoid this make reservoirs of three inch flower pots this make reservoirs of three inch flower pots by corking their drainage holes. Sink them as deeply as their rims in the soil about four inches from each end of the boxes and others about a foot apart. Keep them full of water all season long. The water slowly seeps out of the porous potter and thus semplies the Daily filling is necessary. It is easier and cleaner than watering the boxes in the usual way.

 Soda nitrate is the most active and efficient Soda nitrate is the most active and efficient of nitrogenous fertilizers. It both feeds and stimulates the plants to which it is ap-plied. Being highly solube it acts, quickly after application, but if may be lost by draining away. Therefore use it sparingly and often rather than liberally so the time deed feed of deed for the bundred square feet of surface two or three weeks apart than larger ones at greater intervals. Apply it on the surface and rake it in.

Me striade and rates it in.

An irrigation system is one of the best investments that a gardener can make because it assures the satisfactory development of the flowers, vegetables, fruits and especially the lawn in spite of long, dry spells.

In the Eastern States the best style is the "overhead". Though some gardeners may want one permanently installed, doubtless the majority will find it more convenient to a state of the property of the more desired to cost much less and may be moved easily from place to place as needed.

Some of these portable kinds are mounted on runners; others on wheels; both are good.

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POULTRY TRIBUNE will award at the close of the 1934 standard egg laying contests a beautiful silver loving cup to the highest heavy breed pen, basing the award on the 51-week record using the point system of scoring to deter-mine the highest pen. A similar award will be made to the highest Mediter-ranean breed pen.—Editor.

Another Chicago Contest Arranged by Harvey Wood

Chicago's 1934 Century of Progress Exposition is going to have another egg laying contest. For a time it seemed as though the dairy barn exhibit would be agriculture's sole exposition at the fair this year.

exposition at the fair the Commenting on this year's egg laying contest, Harvey C. Wood, who will again manage it, says. "Appreciating the value of the exhibit to the Century of Progress, the officials are cooperating in a way that will insure the financial will insure the financial will return to be in charge of the educational booth, and Louis Paul Graham will assist paul graham will g



charge of the education-al booth, and Louis Paul Graham will assist Wood in the general management of the contest. Paul E. Richey, manager of the Kankakee, Illinois Egg Laying Contest until it closed last fall as a part of Governor Horner's re-trenchment program, has been engaged to man-age the contest. It will open officially June I and close October 31. Wood requests that the blood testing may be done and everything may be placed in readiness for the opening of the contest.

the mood testing the system of the opening of the contest. of this year's contest from a financial study of the sure of this year's contest from a financial study of the sured because one of the sured testaurant companies will opening the sured to the sured that the sured to th

the egg jaying contest as will the ten cent gate circlest which will be charged during the entire season. The season is the plans for the contest have not the contest have not been completed. Next month Poultry Tribune hopes to publish the names of coperators who will house the contest, feed it and handle the sanitation requirements. This year the southern terminal of the Century of Progress grounds will be just below the egg laying contest. A new arrangement of travel for the buses will bring an estimated 7,000,000 people to the southern gates of the enew dairy exhibit which will attract liberal attention, the southern end of the grounds will be exceedingly popular with city folks who are always interested in learning more about farm animals. Wood reports, that every obligation of the

about farm animals. Wood reports that every obligation of the 1933 contest will be paid before the 1934 contest opens. He also reports that 64 pens have already been pledged to the 1934 contest, and he welcomes letters from other breeders who will be interested in enjoying the publicity of this outstanding event. Address: Harvey C. Wood, care of Poultry Eshibit, Century of Progress, Chicago, Ill.

For the March summary of Egg Laying Contest reports turn to page 25.

HAVE NO SUPERIOR-

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Bd., Wh., Bf. Rocks	\$2.75	\$3.75	\$ 7.00	\$34.50	\$68.00
J. B. Giants S. C. Wh. Minorcas	\$3.50	\$4.75	\$ 8.50	\$42.00	\$84.00
Heavy Mixed Breeds	\$2.00	\$3.50; \$3.35	\$ 6.50 \$ 6.30	\$32.00	\$61,00 \$63,00

S600.00 in CASH PRIZES will be given away to 1934 enstomers BIG FIRST PRIZE OF \$125 AND 62 OTHER CASH PRIZES.

Dept. 206

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uff, Brown Leghorns, Anconas	\$6.50	\$32.50	\$7.50	\$35.00	\$70.00	\$8.50	\$38.75	\$77.50
C. and R. C. Reds, Black Minorcas lew Hampshire Reds hite Wyandottes, Buff Orpinstons	6.90	33.00	8.00	38.75	77.50	9.00	43.75	85.00
ersey Black Giants	8.00	37.50	9.00	43.75	85.00	10.00	47.50	95.00
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or 25 chicks add to per chick - for 50 chic	he add by pe	r shick — \$1.00	books year	neder — We also	p C.O.D. for h	elance plus ;	postage and C.	D.D. sharges

ARNDT Proves His Theories Invites You to His Famous Demonstration Farm

You have read or heard of the revolutionary ARNDT Battery System of poultry raising, developed by Milton H. Arndt. No acres of range, no intested runs, no fences, just neat well-appointed houses filled with healthy contented high-like developed.

Thousands of Birds of All Ages Confined in Batteries

In order that renderment minds see with their now even how the ARNOT Sectom weight practice, Mr. Arnth had greated and estimpted; complete demonstration blant. He invites you to visit the "ARNOW New Era Demonstration Fear", beasted at 270-2 Nottingham of the Complete Section of the Complete Se

M. H. ARNDT MFG. CO., Dept. 13, Trenton, New Jersey



50 54.50 5.00 5.00 5.50 6.50 \$ 8.50 9.50 9.50 10.50 12.00

m this adv. Deduct 14 ce. GOLDEN RULE HATCHERY, Box 13,

BIG TYPE WHITE LEGHORN CHICKS

BRED TO LAY MORE EGGS
IG WHITE EGGS Complia

nce Certificate Consistent - prolonged Egg Production Counts.

Compliance Cer No. 1307 Leg Production Count not still at it." save 8s1. Grime, Archbold, Ohio. Old hen breed-er dans had O. R. O. P. records of 225 to 281 sgrs. 24 os. et al. of the commission of the commission of the commission of the combined make "LIVE-LAY-PAY" chicks. TRY THEM a Pree on all our breeds, turkey poutls and dustylines. to 75% eggs all fall and wint with males whose dams and mated with males whose dams and sires and up are set from these matings. All o LIV-A-BILLIT; and LAY-A-BILLITY co SMILE AT DEPRESSION. Circular by RUPP'S ARCHBOLD HATCHERY. Box P. T ..

BACKED REPLACEMENT GUARANT

* Box 103,

HIGHEST QUALITY—LOW PRICES Standard Greats—sees, Quantity Grades over, Bord, White Leghterra, Ancessas — 84.3 831.50 483 57.50 135 480 68.8 B.C. Orgs., Wh. Warndottes — 6.26 34.00 68 8.55 480 68.8 B.C. Orgs., Wh. Warndottes — 6.36 34.00 68 8.55 480 68.8 B.C. Orgs., Wh. Warndottes — 6.36 34.00 75 9.55 40 68.00 7

NOKOMIS II I INDIS

ARCHROLD OHIO

LONE ELM HATCHERY.

POULTRY TRIBUNE for MAY, 1934-Page 19

25

Pullets Strong And Uniform...

Always Lay Early Now!

You can't blame anyone for feeding Norco XX daily when he gets re-sults like these! Read the letter:

"I am 100% for Nopco XX. A few years ago I had trouble with my hatching eggs and the hatchery could not use them. So I started to use Norco XX in the mash and within two weeks my eggs improved. Ever since my eggs were one of the best in the hatchery.

"It also brings hens quicker through the moult and increases egg production. It gives less mortality and finer looking brids. I am also using Norco XX from the time the chicks are a day old. It gives better and quicker broilers, and strong and uniform pullets.

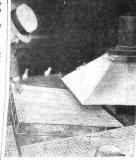
"Years and alwave hed trouble to the strong and the strong and the strong and the strong the strong and the strong the strong the strong and the strong the

"Years ago I always had trouble to get the pullets to lay in time for the high egg prices. With Nopco XX we always have the pullets in good production at five and a half and six months old. About 50% to 60% laying."

We can state definitely that Nopco XX will give you similar results—because 3.500 plain dirt farmers proved it in the largest feeding test ever made. On 3.000-000 hens! They got more and better eggs and birds—and made more money.

Feed Norco XX daily and increase your income. And send for a FREE copy of "20 Years of Progress in Poultry Feeding." a brief history of Vitamin D and Norco XX, Address your request to:

NOPCO, 2522 Essex St., Harrison, N.J.



NE of the most outstanding developments in modern poultry production has been the adoption of wire floors in poultry houses and in batteries. Wire floors eliminate parasites and disease to a

floors eliminate parasites and disease to a large extent, and it should no longer be necessary to urge their value from a santary and labor-saving standpoint.

Three types of galvanized wire tabrics are available which, in certain meshes and gauges, are suitable for poultry use. These welded wire, wire cloth and hexagonal

Of these three types, welded wire fabrics Of these three types, welded wire fabrics are the most recent development, and for several purposes they have distinct advantages. Welded wire fabrics make a neat appearance, are strong, and they may be cut to any length and width desired. They may be purchased in standard rolls of 100 reet, or in cut rolls, or in flat pieces to to size. When the proper gauge is used, they can be walked on with freedom. In using welded wire fabrics in a bronder house, sumench floor range shelter floors.

In using weided wire fabries in a brooder house, sumporch floor, range sheller floor, and under roots, the most highly recommended stee is the 2 by inch mesh. It among the control of the tion is usually three feet square and four inches high, reinforced in the center. Odd sized sections may be obtained to fit a poultry house of any size.

WIRE cloth or hardware cloth has been w most widely used in the past and is familiar to practically all poultrymen. For radinar to practically all politrylinel. For small baby chicks, the best size is the 5% inch mesh, 16 gauge, and for chicks two or three weeks of age, or older, 34 inch mesh, 15 gauge, is very satisfactory. In starting batteries for baby chicks, the 5%

starting batteries for baby chicks, the 5% inch mesh, 16 gauge, serves satisfactorily for the floor. While it has not been very widely used in the past in building floors, hexagonal netting in the proper mesh and gauge is satisfactory. In using this material, the 4½ inch mesh, 18 gauge, is suitable for wire floors for chicks up to broiler age, and the one inch mesh, 16 gauge, may be used after

A summary of the uses

of WIRE

by L. M. BUSSEY



Welded wire fabric

that time. This also can be used for floors in laying houses if in laying houses it properly supported and for supporch floors for chicks, while for broilers and hens, the one inch mesh, 16 gauge, is preferred. This is preferred. This larger size can be used as range shelter floors. The 1½ inch mesh, 16 gauge, can be used satisfactorily

roosts. This under roosts. This hexagonal netting should not be confused with the ordinary light poultry netting, which is not strong enough to be used as floor material.

Floors of laying batteries are generally made of the 2 by 1 inch welded wire fabric, 12½ gauge, or the 4 by 1 inch mesh, 11 gauge.

FRONTS in chick batteries may be made of the 4 by 1 inch mesh, 11 gauge, welded wire fabric, or the 2 by 1 inch mesh, 12½ gauge. The popular height of fronts for gauge. The popular height of tronts for such batteries are generally six inches and

Fronts for broiler batteries and hen batreforms for bother batteries and neh batteries are generally 12 inches high. The mesh for broilers is 12 by 13% inches, and for hens 12 by 17% inches, or the openings in either type of front may be only 6 inches long, instead of 12.

In the past, wire floors have been considered principally for their advantages in brooding baby chicks. More recently, how-

brooming baby chicks. More recently, how-ever, there has been more interest in their use for mature birds.

With the use of the long, permanent poultry houses, and especially the multi-storied houses, have come problems in providing clean range. Many poultrymen have solved these problems by building wire supporches along the front of the laying house.

laying house.

These supporches have a number of advantages. They provide additional floor space when the birds are confined. They permit the birds to get out in the direct sunlight. They also are easier to keep in a sanitary condition than concrete plat-

When used for any purpose, of course, wire floors and sunporches should not be considered as a substitute for sanitation, but as an aid in maintaining desirable conditions.

In selecting wire to be used for any of the above purposes, it would be wise to consult the sizes given above to determine consult the sizes given above to determine the correct mesh and gauge to be used. The use of the proper size wire will give much greater satisfaction in longer life, less sagging and greater freedom from troubles of any kind.



EXTRA SELECTED HORN PULLETS ON AT 30c EACH." De Contest Quality Pedigree

GRANDVIEW MASTER BREEDING FARM

2819 Points Box 130 ZEELAND, MICH.

Ship your eggs to us. We have a place for them. We pay within 24 hours.

107 years EGG 107 years in business. MARKETING

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Reliable-Responsible-Respectable

Send postal for our Instructive Folder about Eggs—FREE

HUNTER, WALTON & CO. 166 Chambers St., New York, N. Y.



(Continued from page 3)

Michigan Chick Show, May 15-18

Michigan Chick Show, May 15-18
East Lansing, Mich.—The seventh Michigan Jaby Chick Show will be held at Michigan State College, here, May 15-18, anounces J. A. Davidson, field manager of the Michigan Poultry Improvement, Association, Each entry will consist of 25 chicks, and entries must reach Davidson not later than May 12. All chicks will be shown in Lix-Am-Gro broaders, ager of the Ohio Country Language and Davidson, Judging will be done May 15, and Davidson, Judging will be done May 15, and suitable awards will be made in all classes.

chasses.

There will be classes for all varieties of clocks, and for turkeys, ducks, geese and pheasants. All entries will be sold at auxiliary to the control of the show. For catalog and other information, address J. A. Davidson, Michigan State College, East Lansing, Michigan.

Illinois Turkey Growers Organize

Bloomington, Ill.—Commercial turkey grow-ers in Illinois, representing an annual produc-tion of more than 18,000 turkeys, attended a meeting here recently and formed a state or-galization with the principal objective of more

meeting here recently and formed a state orgenization with the principal objective of more
consumer education and quality improvement,
according to H. H. Ab, positry extension
H. A. D. poultry extension
Farl Kennedy, Amboy, was elected president and a director will be appointed from
each of the five different sections of the state
to work with him in the association.
Tom Heitz, specialist in grading and markeing from the U. S. Department of Agriculture, demonstrated the various grades of
feresed turkeys and pointed out the superior
souns of the better gradedtotal requirements of turkeys and pointed
each the relation between skillful feeding and
higher guality. Gilbert Gusler, market specialist from Chicago, sketched the economic
cuttook for turkey growing, and Alp discutsely.

Purina Offers Sanitation Booklet

St. Louis, Mo.—An exposure of an institutions racket which costs American farmers made in a new hooklet just published by Puriua Mills, here. "Parassites or Profits." Its periodic in a new hooklet he above loss occurs each year through disease and parassites in farm flocks and herds, a figure which is confirmed by the records of the U. S. Department of Agriculture, is startling.

As an aid in preventing and controlling and in the profit of the profit of the controlling and the profit of St. Louis, Mo.-An exposure of an insidi-

\$15 Remodeling Contest

\$15 Remodeling Contest
During the pulmy summer months, thousands of bouling summer months, thousands of summer months, thousands of summer modern. What changes does your poultry have been supported by the pulmy summer modern. What changes does your poultry buyen to be summer of the pulmy summer of the pul

MOLASSES IN POWDER FORM

Here's New Savings for YOU . . Better Health for your Birds

No longer need the handling and mixing of molasses be a sticky, troublesome and costly job. MOLASKA—molasses in powder form does away with delay, trouble, inconvenience.

Easyto Mix as Corn Meal. Mix into mash as you would any dry feed.

Each Bird Gets Correct Amount. MOLASKA mixes thoroughly—no danger of mo-lasses balls to cause scouring.

GreaterFeedingValueThan
Corn. Carbohydrate content—
86% compared with about 70%
in ordinary liquid molasses.

MOLASKA is 64% sugar as against approximately 50% for molasses in liquid form.

Made From Fine Grade Molasses. Selected from best West Indies produces. Safer For Feeding. Pasteur-

izing removes impurities. Natural vegetable and mineral qualities preserved for birds. Why Pay For Water? About 30%—one out of every five gal-lons of liquid molasses is water. MOLASKA is only 1% water. See MOLASKA-Feel it-taste it-poultrymen everyw praise this new scient achievement. Write today. ntific

THE MOLASKA CORPORATION 7409 Stanton Avenue Cleveland, Ohio

YOUR CHICKS AND TURKEY POULTS WILL PAY!

IF YOU WANT 1934 to be your best year since the good old days, you must have chickens that will produce. Be SURE the chicks you order are that type. You can't go wrong in ordering Boote's—all floods have been bloodtested for BWD by the Minn. State Live Stock Santary Board and Accredited as to type by the Minn. State Poultry Improvement Board. This assures you of receiving only the best!

Your order shipped promptly from the nearest of Boote's 24 batcheries. Thousands of turkey poults batched per week! WE PAY HIGHEST PRICES FOR EGGS AND POULTRY

MINN.STATE

Boote's HATCHERIES

BLOODTESTED Main Office Box E & Worthington, Minn. ACCREDITED

MINN, STATE

CHAPIN START-ALL KERNEL TT'S THE FINEST BABY FOOD FOR CHICKS

Chicks cannot unscramble this feed. 125 lbs. will feed 100 chicks for six weeks. It is steam-cooked and toasted. Easy to eat—chicks fill their crops and leave the hoppers—this gives the less aggressive chicks a chance to get the CHAPIN & CO.

Dept. T

same good feed. Resulting in a more even growth of the flock. Contains 19 ingredients plus cod liver oil. can feed your home grown grains with Start All. Send for sample and prices.

HAMMOND, IND.



LING'S POULTRY FARM.

Oneida, Illinois

*

EY BACK if NOT Satisfied with THESTNUT CHICKS ... We are 10 yrs. ACCREDITED

CHESTNUT, HATCHERY

S. C. Wh. Legborns 33.30 36.50 331.50 363.00 BM, Wh. BH, Rocks 3.30 36.50 331.50 363.00 BH, Wh. BH, Rocks 3.30 6.65 32.50 64.00 BH, Orps, Wh.Wyan, Heavy Assorted 3.30 6.50 31.50 63.00 Asatd, All Breeds ... 5.20 6.30 31.50 63.00 Dept. 3



FROM SELECTED, PURE BRED FLOCKS. Code Compliance Certificate

MORTON HATCHERY,

Box T,

MORTON HATCHERY MORTON, ILLINOIS POULTRY TRIBUNE for MAY, 1934-Page 21



With Hubbard Farms' Reds, there's ill ample time to get chicks and be ady for fall egg profits! Figure this

You buy chiefs for broiler or egy profits. Until those profits start, it's all outco-not income. The faster a chiek grows, the Facheaper this growth is made; breed for the growth and early maderials the project before profit are realized. Seedly sevel projects for good size eggs at 6 months make, then popular of good size eggs at 6 months make then popular and few mertality make then popular than the projects of the good size eggs at 6 months make then popular and few mertality make then popular than the project of the good size eggs.

ay.

Get our Catalog. It tells you why Hubbard
hicks are dependable—why you should buy only
om the source—why our chicks have given such are uspendable—why you should buy only he source—why our chicks have given such ful satisfaction—32 pages in color with true tions of our N. H. Reds and their profit qualities. Comp. Cert. No. 750.

HUBBARD FARMS Walpole, N. H. Box 184 REMEMBER THE BALANCED BREEDING!

Accredited

EMPIRE HATCHERY

Columbus Grove, Ohio Compliance Certificate No. 1424

Improved 20th CENTURY BABY CHICKS And Present Market Way Company of the Company of th SHIPPED IN FEED-O-BOXES Stad for CATALOG



It'll Keep the Water Troughs Full 51 each

THE DRY-NOT MFG. CO. 66 Wheelock Pkwy. St. Paul, Minn.



BARRED ROCKS

POULTRY RECORD BOOK-A complete simplified bookkeeping system. Contains simplified bookkeeping system. Contains record sheets for a whole year. Everything tilly explained, you can't go wrong. It pays to keep records, and this book shows how...\$ 1.00 ULTRY TRIBUNE MOUNT MORRIS. I.L. POULTRY TRIBUNE

Sexing Baby Chicks

By Massi and Hashinsto, entinent Japanese veter-inarians and scientists. A new book, published in 1033, princed in clear face type, prefusely illustrated practical disestions, describing carefully and fully every gain in the technique of superating the sease vance the positry industry has ever made—it will revolutions the baby citic husters.

Price \$5.00

POULTRY TRIBUNE MOUNT MORRIS, ILL.

State Code Chairmen Chosen

Kansas City, Mo.—Chairmen of the hatchery code enforcement committees for each state, except Nevada and Wyoming, have been selected, as follows, according to J. A. Hannah, managing agent of the National Commercial and Breeder Hatchery Coordinating Comery Coordinating Com-mittee:

ery Coordmatung Committee:

Alabama, Knud
Thomsen, Evergreen
Hatchery, Evergreen;
Arkansas, C. S. Branson, R. 7, Little Rock;
Arizona, George G.
Haws, Mesa; California, Eric A. Nisson,
Petaluma; Colorado,
Carl W. Beck, Sterling;
Connecticut, A. B. Connecticut, A. B. Hall, Wallingford; Del-aware, Byron Pepper,

Connecticut, A. B.

J. A. Hamab Hall, Wallingtord; Delauare, Byron Pepper,
Florida, F. C. Kurtogetova. S. Broadway, Tampa; Georgio, J. H. Wood, Augusta; Idaho, W. L. Greathouse, R. 4. Boise; Holdana, C. I. Bashore, Silver Lake; Illinoia, Frank Gripton, Gurnee; Jovan, V. C. Ramsey, C. Sakolosa; Kanza, E. E. Boyd, Stafforti, Kerhaeks, D. D. Slade, Lexington; Grott, Kerhaeks, D. D. Slade, Lexington, Haller, C. Sakolosa; Kanza, E. E. Boyd, Stafforti, Kerhaeks, D. D. Slade, Lexington, Grank, G. B. L. Richardson, Orono, Minnesota, E. B. Anderson, Northfield, Maryland, Chas. F. Hines, Olney; Massachusetts, R. C. Cobb, West Concord; Michigan, J. A. Davidson, E. Lansing; Mississippi, L. M. Drumm, Hattiesburg; Missoner, K. L. M. Drumm, Hattiesburg; Missoner, K. L. M. Drumm, Hattiesburg; Missoner, K. L. Maradi, Nove Mengoline, R. L. Fitts, Durham; New Jersey, Elmer H. Wene, Vineland; New York, J. E. Rice, Ithaca; North Carolina, Mrs. T. B. Bunch, Statesville; North Dadoc, C. V. Lang, Linton; Ohio, G. S. Vickers, Co-Obliaboma, H. S. Cos, Guthrie: Openon

C. V. Lang, Linton; Ohio, G. S. Vickers, Columbus,
Okialoma, H. S. Cox, Guthrie; Oregon,
Pred Cockell, Milwankie; Pennsylvonia, G.
Hazard, Saunderstonie; Ronde John, P. Hazard, Saunderstonie; Ronde John, S. Alvana Bernard, Jefferson; Tennessee, J. C.
Hull, Memphs; Texar, A. H. Demke, Stephenville; Uzah, W. G. Ramshaw, Salt Lake
pinnia, H. T. Bowles, Charlottesville; Washington, B. C. Young, Bellingham; West Virginia, H. T. Gostrup, Ripley; Wisconsin, C.
Howard King, Madison.

Pratt Co. Builds New Laboratory

Pratt Co. Builds New Laboratory
Philadelphia, Pa—In addition to the laboratories which they maintain at their mills located in Buffalo, N. Y., and Hammond, Ind., the Pratt Food Company has now established a new research laboratory in connection with their executive offices here. By increasing heir facilities for scientific research, the company indicates the importance they attach to methods of livestock farming.

Widely known for their fine feeds, remedies, disinfectants and insecticides, the Pratt Bood Company has equipped their new laboratory to study intensively all nutritional, insecticidals to study intensively all nutritional, insecticidals conducted under the direction of J. W. Keller and A. H. Teigen, graduate biologist and chemist respectively, both of whom in addition to their training have had many years of prac-

chemist respectively, both of whom in addition to their training have had many years of practical and field experience.

The establishment of these additional facilities is an excellent illustration of the valuable scientific contributions that industry contributes to aid in helping livestock owners to maintain health, growth, and production of their animals and poolity with a view to attaining increased returns and profit.

Salsbury Short Course, July 11-13

Charles City, Iowa—Dates for the popular three-day short course held each summer by Dr. Saisbury's Laboratories, here, have been announced for this year as July 11-13. This meeting is open to all dealers in poultry products without charge, and has increased in attendance and interest each year.

Cleveland Gets I. B. C. A. Convention

Cleveland, Ohio—This city has been selected as the meeting place for the 1934 International Baby Chick Association Convention, according to a convention, according to a convention of the conve



cording to a recent an-nouncement by Reese V. nouncement by Reese V. Hicks, executive secre-tary of the association. The dates selected are July 30-August 3. The Cleveland Public Auditorium, which will be used for all meetings and exhibits is considered.

and exhibits, is considered one of the finest in the country. It is air conditioned throughout and will provide largest amount of

R. V. Hicks hibit space ever available at an LB.C.A. Convention, according to I. B. C. A. officials.

Situated on Lake Erie, Cleveland offers an excellent opportunity for a combination vacation-Convention trip for hatcherymen in 1934,

* * * Leaflet Prepared on Chick Sexing

Washington, D. C.—So-called chick sexing—picking out the pullets and cockerels in a group of newly hatched chicks—recently has been done with considerable accuracy by poultry specialists of the U. S. Department of try specialists of the U. S. Department of Agriculture. The method, first developed by the Japa-

The method, first developed by the Japanese, consists of observation of the size and shape of the genital eminence, variations being only slight between the sexes at this early age. After a study of the problem covering four moutis, the department speculists acceptable of the state of the chicks. Accuracy of 70 per cent was acquired quickly by those doing the work, but much practice was necessary to pass the 90 per cent point.

A mimograph has been published by the department. Copies may be obtained from the Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

New Booklet Issued on Iodized Salt

New Booklet Issued on Iodized Salt .

New York City—In an effort to supply iodine to poultry and livestock conveniently, many livestock raisers and poultrymen have used iodized sale intended for table use. In a new booklet "Approved Iodized Stock. here, amounces that the bureau has approved salt containing three pounds of potassium iodide in each ton of salt. This is nearly eight times as much iodine as is required by the normal human body and recommended by vides the proper amount of iodine for livestock and poultry feeding.

* * Purina Offers Egg Show Supplies

St. Louis, Mo.—To anyone sponsoring an egg show, Purina Mills, here, has offered to supply prize stickers, score cards, and trays in which the entries may be displayed. All that is necessary to secure this help is to write to the Educational Division. Purina Mills, and advise them of the number of Mills and advise them of the number of the studies of the still the still that the test of the still that the test of the still the still that the still that

are expected in the show. There is no charge for the supplies. In addition, a complete outline of sugges-tions for holding a show, including the num-ber of classes, prizes, publicity and judging, will be furnished by the company and should be of great help, especially when a show is being staged for the first time.

* * * Health Products Co. Enlarges Plant

Newark, N. J.—Work has been started to double the capacity of the cod liver oil con-centrating plant of Health Products Corporacentrating plant of Health Products Corpora-tion, large manufacturer of vitamin-carrying products, here. The addition to the plant was made necessary as a result of the in-creased demand for cod liver oil concentrate tablets, poultry oils and vitamin concentrates used for fortifying humar foods, according to Wm. H. Berg, president.

New Management Ideas

(Continued from page 8)

(Continued from page 8)

In conclusion, I want to tell you that we have demonstrated by two years' work that the use of electric lights produces more eggs, but not because the birds eat more feed at night. We covered the feed boxes at night, giving only ten hours of eating time during the day, and still the birds laid just as many eggs as when they had feed at night. It is the light itself which the birds absorb that the light iself which the birds absorb that in the light is the tent of any light is better than yellow or blue light. I hoped to have room to tell you all about this, but my allotted space is filled. (Prof. Dakan will cover this subject in a later article. Watch for its—Editor). Watch for it .- Editor.)

* * * Provide a constant supply of clean water for the growing birds.

Good Chance for Extra Money In Selling Goose Feathers

Perhaps there is not one person out of every hundred who has ever stopped to consider ways and means of making money from gesse. Most people who even keep a few gesse, keep them only long enough to get the feathers needed for their beds and pillows; then sell the entire flock.

And that is the reason why there is a pos-sibility for somebody who will go into the goose raising business, looking to the future

goose raising business, looking to the future make some money.

I once had the mistaken idea that a flock of geese just represented a certain amount of gees that the state of the state of

meaning.

If one will only stop and consider the vast number of people who use feather beds, or who would use them if they could get choice feathers, then take into consideration the comparatively few flocks of geese there are in the country, it is easy to foresee what might be accomplished.

country, it is easy to foresee what might be accomplished.

accomplished, and and accepted a dollar a pound for my goose feathers, I began wondering what those feathers would have cost that customers had she gone to a mail order house for them. (Some of the mail order houses sell feathers, you know.) Well, I was simply stunned when I found them quoted at \$1 to \$1.30 per pound, not postpaid. Then it occurred to me that if housewires Them is the current of the state of the feathers, not knowing from whence the feathers came, why would they not pay even more for those they could buy direct from the farm.

Furthermore, it also occurred to me that Furthermore, it also occurred to me that those mail order houses should be good mar-kets for the person who has select goose feathers to sell. Why not write to some of those larger concerns and establish contact with them, trunishing some of the enormous stocks of feathers they necessarily must keep to handle their business.

to handle their business.

Another outlet for any surplus feathers should be the housewives of the towns and cries nearest the person who owns the flock of geese. To own a feather hed, or to have sire of hundreds of housewives who, if you should ask them, would tell you they would raise a flock of geese for that purpose if only they had the room.

Egg routes should be a good place to begin and the state of the state of the state of the feathers. Such folks as buy their eggs direct from the producer are already sufficiently sold

feathers. Such folks as buy their eggs direct from the producer are already sufficiently sold on the direct from the farmer idea as to make the control of the control of the control of the H you have a flock of geese and a surplus of feathers and are considering disposing of your flock because you do not consider geese as profuble, then take my tip and see what you can do toward making some of the easiest money you ever made, simply by supplying at least a small part of the huge demand for fresh, clean, goose feathers.—P. T. Wayland, Ach.



Reduced Chick Prices

Real Breeding quality. Every chick guaranteed exactiy as represented. Lowest prices of the season, Years of Breeding Improvement. Stock direct from Leading R.O.P. and Trapnest Strain. Chicks hatched from Eggs averaging 24 to 26½ oz. per doz. Stock Testef for B.W.D. (Stained Anticen Method). Illinois State Standard Accredited. Code Octificate 729.

Official Record 314 Eggs Champion Official Records Leghornst Illinois Egg Contests 1933. Average 281 Eggs Per Hen. 1932 verage of 286 Eggs. 1931 average 294. Send for Free Catalog nd Reduced Prices. We enter your name FREE in the Cash Prize Chick Contests of Poultry Trib-une and American Poultry Jr.

Helm's Chicks Won 18% of All Cash Prizes in 1933 Contest-held by Poultry Tribune. We paid each winning customer same amounts as Cash Prizes. Total \$1560 won in 3 years.

Prizes. Ional State won the opens.

14 % of Cash Prizes in American
Poultry Journal Contest
Including second. Many customers have
need the second. Many customers have
the second to both contests. Win with my
chick in 18 34. Receive twice as much
money. Ten Breeds, all well breid.

ILLINOIS HATCHERY H. C. Helm, Box 3 Metropolis, Illinois

Official

Bockenstette's

BLUE RIBBON CHICKS
REDUCED PRICES—IMMEDIATE DELIVERY—OR FUTURE DATES
Our Special Pediarre Steed Hollywood White Leiderms stred by males with
one 100 postpid. Other chicks reduced seventhinty. Present prices lated
to 22 sept and 100 postpid. Other chicks reduced seventhinty. Present prices lated
to 22 sept and 100 postpid. Other chicks reduced seventhinty. Present prices lated
to 23 sept and 100 postpid. below. P.D.S. designates Fedigree Sired Matinas headed by male to 254 get dami. chicks

1 Free Grades P.D.S. 4AA

White, Buff Leg., or H. A. Tree Grades P.D.S. 4AA

Street Grades P.D.S. 4AA

White, Buff Leg., or H. A. Tree Grades P.D.S. 4AA

Street Grades P.D.S. 4AA

White Buff Leg., or H. A. Treet Grades P.D.S. 4AA

White Buff Leg., or H. A. Treet Grades P.D.S. 4AA

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White Buff Leg.,

Blue Ribbon Farms, R. 1W, Sabetha, Kan.

Get R. O. P. Bred S. C. White Leghorns!

REDUCED CHICK PRICES

Write at once for reduced prices on chicks for May and June delivery.

It's pullet time! Pullets raised from our Pedigreed Sired Chicks ready to ship on and after April 23. Six weeks old and older. Sent to you on approval. Supply limited. Get description and low prices now.

TOWN LINE POULTRY FARM Box 402. Zeeland, Mich.

OS QUALITY CHICKS & PULLETS

BOS HATCHERY R. 2P ZEELAND, MICH.



Good Poultry Books THE PROPERTY OF THE PROPERTY O

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OUTDOORS

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CHICAGO, ILL. ---- USE THIS COUPON----

CHICKEN LETTUCE

CHICKE IN LETTUCE is one of the best greet feeds for chickens and rabbits. It is economical grow, for when cit it resumes its growth rapidly are considered in the control of the chickens and the control of the chickens of

74 MAGAZINES FOR \$1.00 No. P. I

Clip this ad, attach \$1.00 bill, and write your complete name and address on margin. If any magazine is a re-newal or extension, be sure to designate it. These prices are good only in U. S. A. Send order to

Mount Merris, III.



Poultry Tribune's Seventh **National Chick Growing Contest**

JUST TWO MONTHS left in which to JUST TWO MUSTIFIES THE ARCHITECTURE TO THE PRIZE MONEY. THE STATE THE STATE

As judges for this famous contest, Poultry Tribune has chosen three distinguished try I rioune nas crosen three distinguished poultry authorities—Dr. L. E. Card, University of Ill.; Prof. R. E. Jones, Conn. State College; and Prof. G. T. Klein, Kansas State College. Their decision is final. You may be sure that every contestant will have an equal chance.

Last years' winner, Chas. F. Heller wrote, "I am sure this contest is well worth while. It promotes better brooding, feeding and management of haby chicks." If it does that it's certainly worth getting in-not to mention the prize money for the winners. And it's so easy to keep the simple records.

201 Prizes

First	Prize				\$ 150
Seco	nd Priz	ze			\$ 100
Third	Prize	1 2			\$ 50

And 180 Prizes of \$5 Each

In addition there are three sectional prizes of \$25, \$15, and \$10 for each of Poultry Tribune's six editions.

These sectional prizes are not open to the winners of the first three national prizes.

GREAT IDEA IF YOU'D SEND TO THE POULTRY TRIBUNE FOR ONE OF THESE, MRS. CACKLEY

Average Pullet Cost Was 54 Cents In 93 Michigan Flocks

Average Pullet Cost Was 54
Cents In 93 Michigan Flocks
While there is always great variation among individual tarms in the cost of producing pullets, it always is interesting to study average them with our own projects.

Records covering 93 farms in Michigan were secured in 1933. As an average for these farms, there were 644 chieks obtained April 15, at a cost of 86,86 per hundred. Out of the fact o

FREE Chick Guide and Record Blank!

Contest Rules!

- 1 This contest open to everybody except employees of Poultry Tribune and their families.
- 2 Only chicks advertised in Poul-try Tribune or chicks hatched from eggs advertised in Poultry Tribune are eligible.
- 3 This contest pertains to chicks (not less than \$0) started any time between January I and July t, 1934.
- A COMPLETE RECORD covering the first eight weeks of brooding, along with a letter of not more than 300 words explaining your brooding methods, must reach Poultry Iribune, Mount Morris, Illinois, not later than two weeks after your chicks are eight weeks old.
- 5 Your letter and record blank must be mailed in the same envelope. No change or additions will be made in an entry after it reaches Poulty Tribune. Entrants agree to accept judges decision. Duplicate prizes will be avarded to the property of Poultry Tribune.
- Prizes will be awarded on the basis of percentage of chicks raised, as well as thoroughness of the record kept, along with the best letter of not more than 300 words telling how the brooding

SEND FOR this today. Then follow the contest rules. Your record and a letter of not more than 300 words more than 100 words more than 100 words are clicked as not later than two weeks after your chicker of the contest of the contes

house "bow many chicks to put in a 10 by 12 brooder house"

. what size brooder stove to use?
. how to regulate the brooder stove;
. how to regulate the brooder stove;
. how to regulate the brooder stove;
. how the storing to the chicks weigh at 7 weeks,
. what kind of a ration to feed?
. The big aim of this contest is to help Poultry Tribunes subscribers have better tick with their chicks. If the storing the s

Mail This

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Stirring of Feed Boosts Lav

Stirring of Feed Boosts Lay

It has long been known that stirring the feed in the hoppers several times during the day stimulates feed consumption. This is especially true of hens kept in laying batteries with individual feed hoppers, and where the separation of the separation of the brits after they have "messed it up" by eating from the top. When the birds are idle, and most of them sitting down on the wire floor, the attendant can stir up the feed and often al attendant can stir up the feed and often al attendant can stir up the feed and often al attendant can stir up the feed and often also attendant can stir up the feed and often also attendant can stir up the feed and often also attendant can stir up the feed and often also attendant can stir up the feed and often also attendant can stir up the feed and often also attendant can be supposed to the same time stirring to suppose the following the feed on the stirring is used, no feed is lost by becoming a the same time. When this method of stirring is used, no feed is lost by becoming a the same time. When this method of stirring is used, no feed is lost by becoming a stated above, the feed is always fresh. If the hoptom of the hoppers to the top and, as stated above, the feed is always fresh. If the eliment of the stirring tends to bring the feed on the hoptom of the hoppers and the hoppers.—

E. H. Johnson, N. M.

Official \$1500 Chick Growing Coutest Entry Blank

MARCH REPORT

United States Egg Laying Contests

General States Lty Layring Contests coil Rhode Island Reds. White Leebnars, Neshaire Reds, White Rocks, Warred Rocks, White Wayns Justications, Lagath Brahnsas, Buff Rock, Buff edgents, Minercas, Exchequer Leghoras, Silver Wyandottes, Buff Corpitations, Roce Comb Reds, Jersey Waits, Bide Andalusians, Light Brown Leghorns, Lacer-viders, Lamonas, White Barnevelders.

Summary of Standard Contests High Pen of Each Breed-Sixth Month

Breed R.L.R.	Contest Maine	to Date 1571	Points to Date 1656.00	Owner Parmenter's RM Mt. Fm.
W.L.	Florida	1583	1645.00	Dixie Pl. Yda.
N.H.B.		1375	1437.30	Red Mt. Fm.
W.R.	Pennsylvania	1392	1397.25	Susquehanna Co. Brds.
D.R.	Rhode Island	1358	1378.95	Oakland Fm.
11.11	Pennsylvania	1190	1240.35	J. W. Kennady II
Ann	N.J. (Vineland)	1078	1104.80	Overbrook Fm.
Lt.Brs.	Maine	1027	1102.00	Mrs. M. M. Clarke
BLR.	N. Y. State	1127	1089.00	Far-a-way Fm.
BLL		1062	1038.30	Ward's Pl. Fm.
71.31.		1044	1004.45	Colonial Pl. Fm.
Exch. L.	Florida	1004	955.60	H. L. Day Pl. Fm.
Sal W.	Florida	843	847.75	L. C. Gravlee
Ame	Pennsylvania	878	782.60	R. S. Thomas
BLO	South Dakota	797	780.85	Mrs. L. D. Larson
R.C.R.	South Dakota	728	703,60	Mrs. G. M. Baldwin
.D. H. L.	N. Y. State	653	664.00	G. H. Price
Bl. And.	N. Y. State	508	547.00	W. C. Dobe
1.t.B.L.	Oklahoma	556	524.05	C. W. Pevenouse
1. Barn.	Maine	532	518.00	Hope Fm.
Fam	Texas	452	487.55	S. E. Raymond

High Hen of Each Breed-Sixth Month

TITE.	Maine	172	180,00	
W.L.	Florida	167	179,75	Dixie Pl. Yds.
STIR	Rhode Island	163	178.30	Christie's Pl. Fm.
B.R.	Rhode Island	159	170.30	Lewis Fms.
W.R.		149	157.00	Kalerok Fin.
Aire	Oklahoma	1.51	145,90	Overbrook Fm.
W W.	Pennsylvania	133	143.05	J. W. Kennady II
Str. H.	N. Y. State	140	135.00	Far-a-way Fm.
Lt. Bra.	Maine	125	135.00	Mrs. M. M. Clarke
BLL.	Oklahoma	126		
BH, O	Texas	135	132.80	Mrs. Thornton
Exch.L.	Florida	135	124.75	H. L. Day Pl. Fm.
W.M.	Georgia	124	123.90	Colonial Pl. Fm.
W.Barn.	Maine			A. D. Arnold
J.W.G.	N. Y. State	114	119.00	G. H. Price
Ame.	Pennsylvania	135	118.05	Eriksen's Anc. Yds.
R.C.R.	South Dakota	120	114.05	Mrs. G. M. Baldwin
Silve	Florida	103	106.90	L. C. Graviee
f-ani.	Maine	94	84.00	S. E. Raymond
Bl.And.	N. Y. State	7.5	82.00	W. C. Dobe
L. Barn.	Maine	79	80.00	Hope Fm.
	Oklahoma	70	61.70	C. W. Pevehouse

High Pen of Each Standard Contest-Sixth Month

		Eggs	Points to	
Contest	Breed	Date	Date	Owner
Maine	R.I.R.	1571	1656.00	Parmenter's Red Mt. Fm.
Florida	W.L.	1583	1645.00	Dixie Pl. Yds.
Rhode Island	R.I.R.	1496	1565,00	Red Mt. Fm.
Pennsylvania	W.L.	1523	1548,90	Guy A. Leader
N.Y Western	R.I.R.	1437	1472.65	Pinecrest Orchards
Georgia	W.L.	1463	1470.25	Dixie Pl. Yds.
Texas N. J.	W.L.	1439	1462,20	Erath Egg Fm.
Hunterdon	R.I.R.	1352	1382.90	Kerr Chickeries
Michigan	W.L.	1371	1369.35	E. C. Foreman
N.J. Vineland	R.I.R.	1386	1362.65	Louis Schnible
N.Y Central	W.L.	1312	1352,25	Kauder's Ped. Ler.
Armona	W.L.	1346	1319.80	A. C. Wrenn
N. J. Passaic	R. I. R.	1312	1311.05	Chas. Lathrop
N. Y. State	B.R.		1286.00	R. C. E. Wailace
Oklahoma	W.L.	1296	1273.70	Garber Pl. Fm.
South Dakota	RCO	797	780.85	Mrs L D Larson

Summary of Non-Standard Contests High Pen of Each Breed-Fifth Month

		Eggs to	
Breed	Contest	Date	Osener
W.L.	Connecticut	1177	Guy A. Leader
R.I.R.	Connecticut	1148	Parmenter's Red Mt.
			Fm.
B.R.	Connecticut	1077	James Dryden
N.H.R.	Connecticut	1030	E. N. Latrabee
W B	Connecticut	920	Four Winds Fm.
J.W.G.	Missouri State	685	Missouri
II. II.	Connecticus	634	C. L. Hohman
BLM.	Missouri State	624	Missouri
BLO.	Missouri Nat'l.*	457	Pearl Parker
11. 24	Mississippi	405	Colonial Pl. Fm.
	Illinois*	332	Overbrook Fm.
Bf.R	Illinois*	322	Kip's Pl. Service
La Bra.	Illinois*	316	Ajax Htch.
	High Hen of Each	Breed-	Fifth Month
	High Han of Each	Duned	Fifth Month
RIR			
Will	Mississippi	152	Mrs. J. A. Sauford
W.L.	Mississippi Mississippi	152 150	Mrs. J. A. Sauford C. W. McMillan
W.W.	Mississippi Mississippi Mississippi	152 150 144	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason
W.L. W.W. B.R. W.M.	Mississippi Mississippi Mississippi Missouri Nat'l.	152 150 144 142	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden
W L W W* B R W M.	Mississippi Mississippi Mississippi Missouri Nat'l. Mississippi	152 150 144 142 128	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden
W L W W* B R W M.	Mississippi Mississippi Mississippi Mississippi Connecticut	152 150 144 142 128 126	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fms.
W.L. W.W. B.R. W.M. N.H.R. W.R.	Mississippi Mississippi Mississippi Mississippi Connecticut Connecticut	152 150 144 142 128 126 124	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fms. Kalerok Fm.
W.L. W.W. B.R. W.M. N.H.R. W.R.	Mississippi Mississippi Mississippi Missouri Nat'l, Mississippi Connecticut Connecticut Mississippi	152 150 144 142 128 126 124 124	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fms. Katerok Fm. Mrs. D. L. Edson
W.L. W.W. B.R. W.M. N.H.R. W.R.	Mississippi Mississippi Mississippi Missouri Nat'l, Mississippi Connecticut Connecticut Mississippi	152 150 144 142 128 126 124 124 124	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fms. Kalerok Fm.
W.L. W.W. B.R. W.M. N.H.R. W.R. J.W.G.	Mississipni Mesissippi Mississippi Mississippi Mississippi Connecticut Connecticut Mississippi Mississ	152 150 144 142 128 126 124 124 124	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fms. Kalerok Fm. Mrs. D. L. Edson Pearl Parker
W.L. W.W. B.R. W.M. N.H.R. W.R. J.W.G. DI.W.G.	Mississippi Mississippi Mississippi Mississippi Mississippi Connecticut Connecticut Mississippi Mississippi Missiouri Nat7. Missouri State Missouri State Missouri State Missouri State	152 150 144 142 128 126 124 124 122 108	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Fras. Kalerok Fra. Mrs. D. L. Edson Pearl Parker Missouri
W.R. Bf.O. J.W.G. Bf.M. Aus. Bf.R.	Mississippi Mississippi Mississippi Mississippi Mississippi Connecticut Connecticut Mississippi Missippi	152 150 144 142 128 126 124 124 122 108	Mrs. J. A. Sauford C. W. McMillan Mrs. R. E. Nason James Dryden Hubbard Frns. Kalerok Frn. Mrs. D. L. Edson Pearl Parker Missouri Missouri

onnecticut toouri State lesissippi lissouri Nat'l.



Pacific Coast batcherymen baul many bunded thousand chicks out to the farms of their cutomers in comprisable motor track plays at every the modern motor track plays a very track poulty bunders. It is not only used to deliver chicks, but also to had poultry despite the compression of the poultry parts of the poultry parts. The property of compression poultry farms. Thousands of commercial poultry darks. Thousands of commercial poultry areas at the poultry tracks.

Stick Vaccination Preferred In New Hampshire Experiments

IN NEW TIGHTPAINTE LAPTITIETTS
Vaccination work with flowl pox conducted in New Hampshire since 1926 has shown the stick method to produce as favorable results as the follicle method, and to be possessed clination at least three times as fast, (2) about one-third the amount of vaccine required, (3) less severe vaccination are destricted in the state of t less severe vaccination reaction, and (4) the number of head lesions substantially reduced.

By the term "Pen Mating," is meant a pen of females mated to a single male.

Use a Postal Card . . .



To write for the leaflets, circulars and catalogs offered in Poultry Tribune's advertisements, nothing is quite so economical

I see something I want, writes Harold Newberg, Dayton, lowa, "I get out my supply of penny postcards and send for it." If the advertiser furnishes a coupon, time can sometimes be saved by clipping the coupon and pasting it on a postal card. If you do not wish to destroy your copy of the magazine, just write your request on the postal card.

Index to Advertisers -Central Edition







SEE HERE!

White and Brown Leg-horns: Barred, Buff and White Rocks; White Wyandottes; S. C. Reds; Buff Or-pingtons; at prices below:

HAYES SUPREME \$6.95 32.50 64.00 HAYES ACE SUPREME \$7.95 38.75 77.50

MATING CHICKS. 17.30

MATING CHICKS. 10 other varieties. Free enture on request.
Hayes Ace Surveme Mating Chicks guaranteed against so 10 days or teplaced free. All prices postupid to use days or teplaced free. All prices postupid to use down in thing more to ray. Frompt delivery, years' experience. Customers in 43 states. Over 3 with the property of the property Haves Bros. Hatchery, 72 Haves Building.

FARROW CHIX

from pure bred, health ee range, 19th Season, 199% alive delivery, pr

content Books on free range. Dist Section Of the Se

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Succial Matings 2c a chick higher than Quality
Matings. Famous Farrow Star Matings White Leghorns & a chick higher than Quality Matings. Make
the right start now by ordering from this at, or write
the representation. Add to per chick when ordering less
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FARROW CHICKERIES
Dept. 32 PEORIA, ILLINOIS



A magazine for the commercial yegetable producet Lat-est information on planting systems, seeds, trigation, fer-tilizers, packing, sinping, markefing, etc. Published twice a mouth, 24 issues, for \$1,90 a year. Send sub-scription to Poultry Tribune, Mount Morris, III.

Dr. L. E. Card



Experiments!



It is the purpose of PT to bring to its sub-scribers all the news of the industry which will be of help to them in their pouthry taising work. To choose for review and to review the experimental projects of more than 50 experi-ment stations we have engaged that eminent scientist and teacher, Dr. L. C. Card, head of the poultry department, University of Illinois. —Editor.



SO-CALLED Range Foralysis in Chickens, This trouble has been the subject of a cooperative investigation at the lowe Agricultural Experiment Station in which both the Poultry and Veterinary Departments have been interested. Besides the munifestations in the nerves and eyes of article of the subject of the

SOME Characteristics of "Glassy" Eggs. An unusual type of egg shell containing a large unusure of small, relatively translaterat spots, is sometimes encountered. Such eggs when tapped together give out a clink similar to that caused by tapping two china eggs together. Workers at the California Aprication as a superior of the containing the containin

ilar. Because of their extremely low porosity glassy eggs retain their fresh quality much better at ordinary room temperatures than do normal eggs, but their whites tend to become cloudy and liquefy rapidly in cold storage.

EMBRYONIC Development of Fresh-laid Hen Eggs—In an attempt to find out whether the stage of embryonic development in fresh-laid fertile eggs is characteristic of in-dividual hens, and whether it is related to

the percentage of fertile eggs which hatch, microscopic examination of many series of sections of blastoderms from such eggs was made at the "blastachearts Agricultural Extractions of the section of the section of the end of the eggs from a given hen from day to day, there was a marked tendency for the amount of development to be characteristic for individual hens. The fluctuations in stage of development observed in several eggs from the same hen were found to be of minor importance when compared with individual differences.

One, of the important steps in the process

eggs from the same hen were found to be minor importance when compared with individual difference of the carly single layer of cells to facilitate the formation of ectoderm, meso-derm, and entoderm. This folding is called gastrulation. Under promal conditions, this Eggs from hens with low hatchability records were found to be very commonly in the pre-gastrula and early gastrula stages. Early strong hens with low hatchability records were found to be very commonly in the pre-gastrula and early gastrula stages. But it is gastrula stages were also characteristic in eggs from hens with medium hatchability records were found to be very commonly in the gastrula stages at the time of laying. Eggs which are underdeveloped at the time of laying seem likely to show high embryonic mortality during incubation.

MORTALITY In Relation to Egg Production. An analysis of the mortality among the progeny of a group of selected Rhode Island Red and White Lephorn hens at the Government Positry Farm, Belsville, Mary-cant relationships between pullet mortality and egg production. The Rhode Island Reds were selected on the basis of having laid 200 or more eggs, during the first laying year, the first four weeks after hatching showed no relationship to the egg production of the dams.

no relationship to the egg production of the dams.

For each breed it was shown that mortality during the first laying year was relatively greater among the pullets produced by dams which were above the average in egg produc-tion than among the pullets produced by dams which were below the average in egg produc-

from Inc.

In each breed the pullets which died during their first laying year commenced laying relatively later in life than did the pullets which lived to complete their first year of

which lived to compute them are sellaying.
Pullets which died during the first laying year, but after the first S0 days of laying, year, but after the first S0 days of laying, year, but after the first S0 days of laying period than did the pullets which lived through. The records of egy production of the pullets which lived and of the pullets which lived the pullets

ANEMIA In Poultry. Poultry anemia has been one of the subjects under investigation at the University of California. It was found that the addition of ferrous sulfate to the diet ended to cause a rise in the blood hemoglobin, but that the feeding of two pounds or more of anhydrous ferrous sulfate per ton of total feed to growing clucks had a detrimental effect on bone development. With meaning the properties of the properti

"So, Rastus, you won a silver cup at the Poultry show, eh? Who did you win it from?" "The owner, sah, and two cops."

Shade is absolutely essential on a chick range during hot weather. If no natural cellent shade crop. They can be planted like corn as early as the soil can be worked in the spring. Keep the chicks away from until the plants are about two feet bigh. Simple shade shelters consisting of insula-

high.

Simple shade shelters consisting of insulation board over light frames are used by
many poultrymen. Takee have the advantage that feed hoppers and fountains can
be placed under them, thus giving protection from storms, as well as from the hot

The Grab Bag

- This mouth the editor has picked from among the by bookiets offered by advertiser; those which he feels bookiets offered by advertiser; those which he feels will be seen to most interest and help. West any of them? They offer the seen to be address the help. The bookiet is lated will then one direct to your hose. The bookiet is lated will then one direct to your hose. The bookiet is lated will then one direct in your hose. The bookiet is lated will then one direct in the properties. You must write direct to the address thinks, the seen of t
- Parasites or Profits is a new booklet which tells how farmers loose two billion dollars a year through the ravages of parasites. Suggestions to reduce these losses are neatly indexed. Address: Purina Mills, Dept. PT, St. Louis, Mo.
- First Aid to Baby Chicks is an intere-leaflet which tells what to do for diarrhea. I chitis, pneumonia, colds, cannibalism and ciciosis. Address: Dr. Salsbury's Laborate 417 Jackson St., Charles City, Iowa.
- Pruning Guide—a novel little booklet well (l-lustrated which shows how to prune flowers, shrubbers, hedges and trees. Explains principles of pruning. Address: Henry Disston & Sunz, Inc., 37 Jacons, Philadelphia, Pa.
- How Manganess Sulfate Helps Crops Green is discussed in a 64-page booklet which shouls be in every gardeners collection of garden hal-letins. A fertilizer requirement table is uncluded, Address: Carus Chemical Co., Dept. P.T., La-Salle, III.
- How to Enjoy a Life Income in a Business of Your Own which netted one man \$88 his first day is explained in an illustrated leasher. The moti-proofing and upholstery rejuvenating business re-quires no shop and as little as \$77 capital. Ad-dress: Home Service Co., Dept. P.T., Racine, Wis.
- Ridding the Poultry House of Mites and Blue Bugs is discussed in a folder which tells have these troublesome and costly pests can be killed and kept out of poultry houses. Address: Car-bolineum Wood Preserving Company, 524 W. Highland Ave., Milwaukee, Wis.
- Highman Aver, Britannett, 1. Profits is an interesting new booklet which suggests a practical plan of poultry sanitation. Address: General Laboratories, Inc., Dept. 411, Widener Bldg., Philadelphia, Pa.
- ancipina, Pa.
 Planning the Farm Field is a free help in the form of a special chart which has just been arounced by a leading fence manufacturer. Ask for it on a postal card and address: Poultry Triswe, Dept. P.S., Mount Morris, Illinois.
- Practical Suggestions for Weather Proofing Farm Buildings in a good booklet to get now as the season of repairing nears. Many valuable building suggestions. Address: The Ruberoid Company, 95 Madison Ave., Dept. P.T., New York City.
- Freding Chicks to Get Bigger Eggs and Pre-vent Range Parsitysis, Blindness, Big Liver and Tape Worms is the subject of an interesting 32-page booklet which should interest every poultry raiser. Many startling new facts are contained in Booklet, Address: Quaker Outs Company, Dept. DIP, Chicago, III.
- Broader Record Card—lists six points to fellow in a practical coccidiosis control program and includes a place for keeping mortality records. Tack it in the broader house. Address: Merck & Co., Inc., Box 7, Animal Husbandry Deft., Rahneny, N. J.
- ◆ The Poultryman's Edition Catalog on Whe Fabrica recently published contains much valuable information on wire labrics required for wire floors and hen batteries. Address: Bussey Pos Products Co., 1500 S. Western Ave., Chicago, Ik.

Guineas Cost Little to Raise

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It is fun to look for the hidden faces in the trees, clouds, etc. in the picture at the right. Are your eyes sharp enough to find them? Some look straight at you, some are upside downwise. It is not as easy as some people may think, but don't give up-keep looking and you may find them. When you do, mark them and send your answer right away. Quick!

Many people have received big cash prizes from companies with whom I have been associated. Some have received several thousand dollars. Names gladly furnished on request. Now is your chance to qualify for the opportunity to win a big cash prize.

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