**APRIL, 1934** 

# TRIBUNE CENTRAL TRIBUNE



\$1500 in 201 Prizes to Chick Raisgrs!

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#### Champions 3 Official 1933 Egg Laying Contests

IN 1932 our Leghorns were World's Champions over all breeds and varieties with a 317.8 egg ave. per fine at the Official Murphyshore, Ill. Contest. The past year our Missouri Contests won Championships. This year our Leghorns are starting off with good coords. Latest reports show our pullets laying standard sized eggs or over at Florida. Georgia, Michigan and Toxass and 44 Quincy.

Only 300-337 Egg Males Head

III. we have High Pen, all breeds, and at Missouri National we have 2nd High Pen. Minoreas were Official World's A.P. A. Jowes Champions for their breed -Our White World Missouri Contests. At this same Contest on Rocks in 1939 and our Red in 1928 and 1929 were Champions of their respective breeds; the Contest of the Rocks in 1930 and our Red in 1928 and 1929 were Champions of their respective breeds; the Contest of the Rocks in 1928 and 1929 were Champions of their respective breeds; the Contest of the Rocks in 1928 and 1929 were Champions of their respective breeds; the Contest of the Rocks in 1928 and 1929 were Champions of their respective breeds; the Contest of the Rocks in 1928 and 1929 were contested to the Rocks in 1928 and 1929 were contested to the Rocks in 1928 and 1929 were contested to the Rocks in 1928 and 1929 were contested to the Rocks in 1928 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 were contested to the Rocks in 1929 and 1929 and 1929 were contested to the Rocks in 1929 and 1929 and 1929 were contested to the Rocks in 1929 and 1929 and





Champion Pen also competed in the Interna-al Eq. Laying Contest at Chicago World's Fair -Laying 521 eggs for 554.78 points. All eggs over 25 cz. per dz. This pen laid 86.5% in 67.2% in 1933 Contest.

#### **Our AAA Leghorn Flocks**

All of our AAA Grade S. C. Wh. Leghorns are headed by pedigreed cockerels out of hens with records 300-837 eggs. Other breeds of this grade are also headed by the best egg production cockerels we have been able to breed or obtain.

Backed by a Real Breeding Farm

Backed by a Medi Sreeding rarm which we have a big breeding farm on which we want to be seen as the seen and the seen and the seen and the seen and the seen as th

#### Order at These Low Prices—Immediate Shipment

S. C. White, Bf, or Br. Leghorns, Anconas	100 \$6.75	500 <b>533.00</b>	\$ 7.98	500 <b>\$38.00</b>	\$10.48	500 <b>\$50.00</b>
S. C. Reds, Barred, Bf, White Rocks, Wh. Wyan	6.75	33.00	7.90	38.00	10.40	50.00
Buff Orpingtons Black Glants, Bf, Min White Jersey Giants	8.90	42.00	8.90 10.90	43.00 53.00	11.40 13.40	55.00 65.00
We nice have sey link Hybrad Chief	Wel	to for Prices	Send only \$1	per 100 chicks	deposit and	pay postman

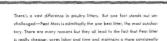
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healthy flock. Unfortunately there is a difference also between pear litters -ond for this reason leading distributors will now guarantee peat litter only when it displays this P. I. C. inspection certificate "seal." Look for this seal. Do not accept substitutes

PEAT IMPORT CORPORATION, NEW YORK, N. Y.

#### IRVIEW CHICKS AND PUL



White Leghorns, big egg, English type breeders—best matings headed by R. O. P. and 200 to 272 pedigreed sires; we averaged 235 eggs ber 100 pers entered. Producing breeders this year from males from 305 egg dam—328 egg sire, and other high records. BAFY CHICKS from 3 matings, Co.D. —100% live artival. Also Barred Rocks. Guarantee Persential Control of the Control

Fairview Hatchery & Poultry Farm, R2-Box P, Zeeland, Mich.

Buy either ALL PULLETS or ALL MALES. Raise chicks for eggs or brollers—increase profits, "Amazing new money making special prices. Complete history and bookiet, FREE, gives valuable quaranteed chicks. Write today—to SEXed chick headquarters. We to brottles—low prices. special in on sex guarantee all popular breeds

FAMOUS POULTRY FARMS ASS'N, Dept. 320, Bethany, Mo.

#### Central Edition



Covering:-Ohio. Michigan Indiana Illinois Wisconsin

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

#### Coming Events

May 2-4, Purdue Twenty-Sixth Annual Egg Show and Second Baby Chick Show, La-Figs. Show and Fayette, Ind.
July 11-13, Dr. Salsbury's 3-Day Poultry
Short Course, Charles City, Iowa.

#### Keipper Is Head Of Crested Club

Milyaukee, Wis.—Albert T. Keipper, here, has been elected president of the Crested Fowl Club of America for 1934. Other officers are, William Carter, Londesboro, Ont. Canada: Hiram Schriver, Groton, Conn.; Addien Ells. Pontiac, Mich., vice presidents; A. J. Braun, Syraense, N. Y., secretary-treasurer; and James Hendrie, Palasadia, N. J., mublicity manager, urer; and James ... publicity manager.

#### Brown Heads Hamburg Club

Mt. Gilead. Ohio—Officers elected for the Hamburg Club of America for 1934 are. Clem Brown, here, president William Carter, cuse, N. Y.; and C. W. Reynolds, Indianolis, Indianolis, Indianolis, Ind., vice presidents; W. Alfred Srail, Cleveland. Ohio, publicity manager; and Wm. Minnich. Cartisle, Pa., election commissioner;

#### Abbott Forms New Feed Company

Abbott Forms New Feed Company
Chicago, Ill.—The Abbott Feed Company
has been formed here by Harold A. Abbott
and Walter N. Jones to manufacture and distribute a full line of commercial mixed feeds.
Both men were formerly connected with the
Albert Dickinson Company, Abbott as vice
president in charge of the feed department,
and Jones as sales manager in the feed department. \* \* \*

#### Products Of The Sea Replace Food Elements Lost From Soil

Buffalo, N. Y.—Farmers readily recognize the fact that the minerals in the ground con-stantly are being decreased through washing by rain and by the removal of plants which have taken minerals from the soil. To com-

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Mount Morris, Ill. If you change your address, notify a change you have a considerable your subscription is a new cost or network that recovery by the same manus and initials as a constant of the part of t

bat this constant loss, minerals are added to the soil in the form of fertilizer, lime, and by

the soil in the form of iertilizer, lime, and by the growing of special crops. Several years ago, Philip R. Park, de-veloped the theory that plants grown on such mineral deficient soil were themselves de-ing, and that this lack smit yair poultry feed-ing, and that this lack smit of the poultry rais-ting.

of the troubles encountered in poultry raising.

A logical place to find such minerals, hought Park, should be in the sea where they had been washed by the constant rain fall. Chemical analyses of the sea plants and dried the constant rain fall. Chemical analyses of the sea plants and dried the constant rain fall. The constant was the constant which was been seen to the constant which may be absent from plants grown en average soils. Such minerals as sulphur, copper, iron, iodine, and manganese are needed in very small quantities, but may be deficient in ordinary feeds. These minerals, which Fark found to be supplied in products from building up the general health of the fowls. Since sea products also are relatively high in protein, an excellent poultry concentrate is protein, an excellent poultry concentrate is provided.

provided.

During recent years, many feed manufacturers have incorporated the dried kelp and dried fish into their mashes through the use of Manamar, which he developed. One of the most recent comparise to provide each containing this product is the Fark and Pollard Company, here. This company also was the first to offer dry mash for poultry feeding.

the list to back and line ing.

Other forms of sea foods, such as dried kelp, fish meal, cod liver oil, sardine oil, and oyster shell, already have been recognized as valuable poultry feeds.

#### Mass. 4-H Team Wins Judging Contest

Amberst, Mass.—For the third time in five years, the Massachusetts 4-H Foultry Judgmen Fean has won the national comest, which this year was held in conjunction with the fifteenth annual 4-H Poultry Show at the Boston Foultry Show, December 31-January 4, Teams from other states ranked as follows: Chew Hampshire, New York, and Connected: All Connected the Connected

New Jersey, New Hampshire, New York, and Connecticut.
John Gaidosh, Norma. New Jersey, was high individual. Albert Delprete, Anthony LaRose, and Floyd Bull, all of the Massachustake, and Floyd Bull, all of the Massachustake, and Floyd Bull, all of the Massachustake, and Floyd Bull, all of the Massachuseth team was Wendell Stackpol. A sliver platter, donated by the Boston Poultry Association as the sweepstake prize the 4-H department, was won by Harold Fay, South Weymouth, Massachusetts. This is the second year that he has won this prize. Other prize wimners were as follows: best is the second year that he has won this prize. Other prize wimners were as follows: best pullet, Rock Harold Fay, South Weymouth; best pullet, Rhode Island Red, George Wariner, Florence; best pen, Rhode Island Reds, Robert Smith, Stow.—G. O. O.

#### Unique Poultry House At Tacoma

Unique Poultry House At Tacoma
Tacoma, Wash.—Marie Louise Onevil, here, has one of the world's most unique echicken ranches. It is a five-story hen house, the top story of which is Miss Ope-vil's pent house. It is equipped with violet ray windows, electricity, and all the necessary equipment of the control of the contro

(Continued on page 37)

For Index to Advertisers Cen. Edition SEE PAGE 40

#### "MY PROFITS DEPEND ON PROTECTING MY CHICKS FROM CONTAGIOUS DISEASES ...



will be determined by the percentage of your baby chicks you can raise to a healthy, vigorous maturity. Stunted, sickly chicks never develop into profitable broilers or laying stock. Make your chance of success much more certain by using the proven B-K Plan of Poultry Sanitation to protect your chicks from deadly contagious disease germs.

The B-K Plan of Poultry Sanitation prevents disease by destroying dangerous disease germs before they come in contact with your chicks. Raise more and healthier chicks this year by following this easy, inexpensive plan:



#### THE B-K PLAN OF SANITATION

Before placing chicks in the brooder house, thoroughly clean and disinfect brooder house and all equipment with B-K.

- 2. Disinfect all drinking water daily with B-K.
- 3. Sterilize daily all feeding utensils, after thoroughly cleaning, with B-K.
- 4. Disinfect brooder houses once a week, after removing and burning all litter and droppings, and cleaning thoroughly.

B-K, the first hypochlorite disinfectant made for use B-K, the first hypochiorite disminectant made for use on poultry farms, carries a guarantee of efficiency backed by more than 20 years of laboratory tests and actual field experi-ence. Your dealer carries B-K, in either Liquid or Powder form-Avoid unproven substitutes by insisting on B-K by uamel

#### Valuable Information Free

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GENERAL LABORATORIES, Inc., Dept. 411, Widener Bldg., Philadelphia, Pa.



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"25 CHICK BROODING RULES"—an up-to-date, common sense book that tell you just what you should know about feeding and management to ship oblights. Written and compiled by edit, illinois, and Tribune. Freez 26 a copy. Order yours obtally Poultry affects.

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INDIANA

Extra Cost

# Until



of so many poultrymen who change to Conkeys



P. R. Chaddock of Fox River Hatchery, Elgin, Il., writes: "In the last 15 years we have handled some of the best standard feeds on the market, but until we used Conkeys with Y-O we did not know what real feed was. Our service calls have dropped down to almost nothing and the chicks that are raised start out good and go right on through to husky chickens.'

Surely when so many successful hatcherymen use and recommend Conkeys there must be a reason. Here it is— every pound is vitalized with Y-O. That's why we say—

#### Your Chicks will Find what vou can't see you can't see Conkeys

Y-O is a powder rich in the vitamins B and G of Brewers' Yeast and the vitamins A and D of Cod Liver Oil. Only Conkeys comes to you with this priceless ingredient already mixed in every sack. Try a few sacks of Conkeys Buttermilk Starting Feed with Y-O or Conkeys All Mash Chick Ration with Y-O and watch results. Your chicks will soon show you the difference.

Start your little chicks right this year. Get Conkeys at your dealer's or write us.

The G.E.Conkey Co., 6710 Broadway, Cleveland, Ohio Mills: Cleveland, Ohio; Toledo, Ohio; Nebraska City, Nebr.; Dallas, Texas



Better Health Perfect Digestion More Rapid Growth Freedom from Leg Weakness Resistance to Disease Vitalized with Y-O

In Y-bothe clusive A and D vitamins of Cod Liver Oli and vitamins B and G of Brewers' Yeast are held secure by a patented process—the vitamins last,



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# Cussed \*!\*!! Discussed

Opinions expressed here reflect only those of the subscriber whose letter is published. None of this matter can be quoted in advanced to the subscriber whose letter is published. None of this matter can be quoted in advanced to the subscriber of the subscriber of

#### ". . . Lay Down Minimum Price"

Some action should be taken by the editors of the various poultry magazines and others having large investments in the poultry businaving large investments in the poultry businaving large investments in the poultry businaving the property of mash and grain necessary to produce a good quality of eggs is steadily on the in-

crease.

A reasonable minimum price should be laid down by the government covering poultry, graded and ungraded eggs, and a heavy fine so imposed upon any one selling under the rate so established.

so imposed upon any one selling under the rate so established.

I am probably in small producer of good eggs dependent largely on receipts from these eggs to pay the grocery bill.

Can't you start something that would induce every poultry raiser, large and small, to take an immediate stand for better poultry and egg prices?—IV. S. C., Wis.

(With more than 5,000,000 issueses producing eggs, the government but jound it the strengthening of egg prices. Rather has it than the strengthening of egg prices. Rather has it turned to the National Commercial and Breeder Hawley Touch that any poultry in less than one and five-risthin owners each and according less than 35 owners a dozen when the has it turned to the National Commercial and according less than 35 owners a dozen and according less than 45 owners and 45 ow

#### Against The Co-ops!

Against The Co-ops!

Up to last summer, I belonged to what was called a Co-op, but I found out that it cost what they were pleased to call a service charge of seven cents a dozen on every dozen of eggs sent in. No wonder there was nothing for the producer. I say there never was nor is in any Co-op, Let be Denver price advance one cent a dozen over Kanasa City, the Ufah Co-op, the New Mexico Co-op, the California Co-op, and every other Co-op, in the whole U. S. A. dumps its eggs into Denver, chiseling in the Colorado Co-op, is back and the Colorado Co-op, is of a like stripe. They do the same thing.

Cro-op and each state was a division, such tacties could not take place. But that would never do for them we would have a trust, which nobody

each state was a division, such tacties could not take place. But that would never do for then we would have a trust, which nobody but the rich ean have—A T. H., Colo.

(Well managed cooperative marketing associations like Paraline Eap Producers, which markets California, Oregon and Washington will be the such as the producer. Their experience on the marketing side also believe to the producer. Their experience on the marketing side also believe them to obtain which can be relayed back to the producer guickly when the producer should know about and which can be relayed back to the producer quickly when the producer bas bis own stelling organization—Ealing the construction of the producer stelling organization—Ealing the construction of the construction of



By O. A. HANKE Editor

#### Get Behind the Poultry Program!

HERE is a program for the control of poultry production even though poultry raisers are not being contacted to reduce poultry production as they are to reduce their crops of corn, hogs, cotton, wheat, tobacco, etc. It is quite a different program, but it involves very definite responsibility too.

Because more than 5,000,000 farmers raise chickens, and because many of them keep only a small number, it was considered impractical to declare poultry a basic commodity and to attempt to limit produc-tion by the individual contract system. Through the hatchery industry which supplies one-fourth of the nation's chick crop, the federal government hopes to control poultry production. That plan for control is of vital concern to every poultry raiser.

The repetition of that plan in these columns this month may seem like needless emphasis to Poultry Tribune subscribers who read its columns thoroughly every month. There are, however, new subscribers joining the ranks of Poultry Tribune's readers every month, and there are perhaps many thousands who do not realize the seriousness of the situation. In this month of April when the chick season is at its height, this all important subject will be reviewed here again very briefly.

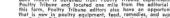
THE National Commercial & Breeder Hatchery Code for the na-tion's hatcheries places a minimum size on the eggs which can be incubated in hatcheries. Individual eggs weighing less than one and five-sixths ounces each or averaging less than 23 ounces per dozen cannot be incubated. Through this regulation a very definite restriction will be placed on the number of hatching eggs available for incubation this year.

In the second place, special bargain sales and auction sales of chicks which the hatcheryman cannot sell through normal trade channels, will not be tolerated. The hatcheryman is expected to have orders on hand for all the chicks he hatches. The code proposes to force upon the hatchery industry more orderly marketing of chicks.

The obligation it in turn places on chick buyers is, it seems to me, quite obvious. We can't have orderly marketing (Continued on page 24)



Much of the editorial inspiration for the helpful 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 editorial office here in Mount Morris. At the second tribune and the second for the





#### W. J. Tibbals, Manager, ROSELAWN POULTRY FARM, Dayton, O., Says:

"During the past year our International has shown us a much lower upkeep cost than any of our four trucks of cheaper makes. When we are in the market for another truck it most certainly will be an International."

Mr. Tibbals' experience is typical. As a result of such operating economy Internationals have fully won the confidence of poultry men everywhere. Wise truck buyers have learned to judge trucks not by first cost but by performance, dependable service, lowcost operation-hauling satisfaction spread over many years. More and more, they are buying Internationals.

It will pay you to inspect the new International Trucks at the nearby International Harvester branch or dealer . . . or write us for information. Sizes range from 1/2-ton to 71/2-ton. Prices start at \$360 for the 1/2-ton chassis, f. o. b. factory.

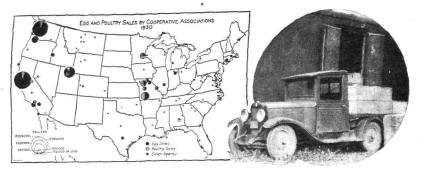


Above: Loading Roselaum Poultry Farm baby chicks into the fully enclosed Inter-national panel body truck operated by the up-to-the-minute poultry organization.

INTERNATIONAL HARVESTER COMPANY



POULTRY TRIBUNE for APRIL, 1934-Page 7



#### About one-tenth of nation's poultry and egg crop is

# by J. H. McNEIL Sold Through Co-ops

HEN the cooperative marketing of poultry and eggs inentioned, the thoughts of most people turn immediately to California and Washington as the leading states in this form of marketing.

It happens, however, that Missouri contains the greatest number of cooperative marketing associations and the largest membership in such associations of any State in the Union, according to recent figures compiled by R. H. Efsworth for the Federal Farm Board, California and Washington do rank first and second, respectively, however, in the amount of business done, both ranking far ahead of Missouri, which comes third.

The 1930-31 marketing season is the last for which complete figures are available, and in that year it was estimated that the total value of poultry products sold cooperatively was 885,000,000, or about one-tenth of all the poultry and eggs sold in the United States. When it is considered that the collective marketing of eggs and poultry is one of the more recent developments of the cooperative movement, and that most of these organizations have been established within the past ten years, a very rapid development is indicated.

Of the estimated total value of poultry products marketed in this way. California and Washington marketed more than half, or a total of \$48,260,000. Missouri ranked third with \$11,150,000. Utah. \$7,960,000. New York. \$6,370,000. Oregon, \$2,340,000. Idah. \$1,640,000. New Jersey, \$1,510,000, and a number of other states marketed less than a million dollars worth of products in this way. At least a small amount of the poultry products are marketed cooperatively in 30 states.

In 1932, there were about 160 active associations, including 82,000 members, with an annual turnover of \$86,000,000 including poultry supplies sold to mem-

hers. Ten per cent of the active associations with 20 per cent of the total membership are in Missouri. California associations, with only about 11 per cent of the aggregate membership, handled nearly 32 per cent of the total business and Washington associations, with 17 per cent of the membership, handled 24 per cent of the membership, handled 24 per cent of the human per cent of the price o

24 per cent of the business.

There are, of course, several different types of organizations. Some form merely concentration points where eggs and poultry may be brought for shipment to central markets; others, priment to

cartons. Other sales agencies include the Utah Poultry Producers Cooperative Association, which has representation in New York City; the Land O'Lakes Creameries, Inc., Minneapolis; and Dairy and Poultry Cooperatives, Inc., Chicago.

WITHIN the last five years, produc-ers of turkeys have been forming local and regional associations for the cooperative marketing of the annual crop. At the same time, most of the as sociations engaged in handling poultry have arranged for turkey pools. The larger of these special associations are in the states to the west of the Missis-sippi River. The Northwest Turkey Growers Association, Salt Lake City, is a regional sales agency serving many lo-cal associations with their affiliated units. The California Turkey Growers Association, San Francisco, is a cen-tralized regional membership association. These two organizations handled about one-fourth of the 1931 cooperative turkey business. Nearly 10,000,000 pounds of turkeys were handled in the 1931 Thanksgiving, Christmas, New Year, and winter pools. A greater por-tion of this quantity consisted of dressed turkeys. The f. o. b. value of both dressed and live turkeys marketed through cooperative channels was approximately \$2,000,000.

A still newer form of cooperative marketing is the recently established poultry and egg auctions in the east. These probably represent the very highest type of cooperative marketing organizations, and have proved extremely successful in regions of concentrated poultry production.

The first egg auction was established in New Jersey, which now has three egg auctions and two live poultry auctions where eggs and poultry are brought twice a week and auctioned off to the Continued on page 361.

The information for this article was obtained from bulletin No. 9 of the Federal behavior of the Pederal Selling and Buying Associations in the U. S. from 1863 to 1931." Poultry Tribune subscribers who desire additional information about cooperative marketing may write to the Bureau of Agricultural Economics, Washington, D. C.—Editor,

cipally those in Utah and the Pacific states, have quite elaborate organizations for collecting, grading, packing and shipping eggs and poultry for their members.

Other associations are for the purpose of selling the eggs and poultry, in the eastern markets. Perhaps the best known of these associations is Pacific Egg Producers, Inc., with headquarters in New York City. This agency was first established in 1922, and handled 134,000 cases of eggs for its members in that year. In 1931, the volume of business handled by this agency had grown to 1,879,681 cases.

This organization conducts an egg auction during a portion of each season, and it also arranges to supply its customers with the eggs needed for storage. A subsidiary, the Sunrise Egg Producers Cooperative, Inc., merchandiess high grade eggs, packed in special

# Laying Cages

by G. R. SIPE and J. D. SYKES Mississippi A. & M. College

'HE old axiom, "Necessity is the mother of invention," is most certainly true in regard to the establishment of the Mississippi Egg Laying Contest in laying cages that the idea of caging hens individually was a necessity or a new idea, but the curtailment of expenses involved in providing adequate facilities to take care of the entries was a necessity. Egg laying contests as generally conducted to accommodate 100 pens require an expenditure of \$6,000, approximately. It was utterly impossible for us, especially under the present conditions, to raise such a large sum of money for contest

The results of keeping birds confined in laying cages were thoroughly studied and the success with which these experiments had been conducted led us to the conclusion that the cage method of egg production was feasible. This in turn led us into an investigation of the for a contest of one hundred pens with six birds in each. The results of this investigation were such (and will be itemized later) that we resolved it would be possible for us to manage the finances. Therefore, we prepared our rules and regulations, application blanks for entries, and circulated these among poultry breeders of Mississippi and other states. It was necessary that we receive a ready response to these com-munications before we even dare accept the financial responsibility of a contest staged in batteries. This response was more than satisfactory; hence complete plans for the erection of the building, etc., were immediately perfected.

WE DECIDED that a building 35 x 42 feet in size would be necessary for the batteries, feed room and office space. This building to be constructed space. This building to be constructed of hollow tile, with concrete floor, and insulation insulated thoroughly with insulation This building was erected by contract at a cost of \$1,000. teries were installed in the building at a cost of \$700, a special watering system at a cost of \$300 making a total cost of \$2,000, resulting in a saving in this type of contest of \$4,000 over the type of contest employing individual houses and yards.

One item of cost in the Mississippi contest, namely \$300 for watering system, needs a word of explanation. Having observed the watering systems used

on the various batteries it was decided that a system could be installed which would eliminate most if not all of the undesirable features of the various wa-tering systems used. We feel more than justified in having made this extra expenditure and would caution any one contemplating the employment of laying batteries for contest or any other purposes to make a thorough study and investigation of all watering devices available before reaching a decision as to type that should be used.

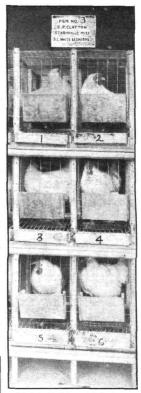
N OBSERVING the management of contests, as generally conducted, the labor item has been a big factor requiring one full time contest supervisor and two to four men to do the trapping, feeding, watering, cleaning, and other duties in conducting such contests. In our contest one man handles all of these duties with the exception of the general supervision which requires a small amount of time of the head of the poul-try department and the summarizing of the monthly records by the poultry extension department, at no cost to the contest. A man with poultry training, and not necessarily a college graduate, could handle all of the work of the contest including reports, provided he had no other duties. Therefore, the labor item in our contest is about onethird that of contests as generally conducted. Depreciation, water and light costs are materially lower in our con-test, the water and light cost being approximately \$4 a month.

Results	Since	Octob	per 19	33
Month	No. Hens	Mor- tality	No. Egos Pro- duced	Per Cent Pro- duc- tion
October November December January	354 354 345 327	0 9 18 7	4390 5115 5757 5802	40 48.1 53.8 57.2

The battery feature of this centest in which all eggs laid roll down into an individual wire basket assures each hen of receiving 100 per cent credit for all eggs produced. In this way there is no such thing as floor eggs which can only be recognized as a pen credit.

Another feature in this connection is the fact that all birds have their individual feed hopper and each two birds have access to running water from a fount conveniently located in such a way as to prevent the birds from carrying water on their beaks into the mash hoppers where feed is fouled by it

Our contest is composed of fifty-nine



This is the six bird pen of E. P. Clayton, Starkville, Miss., entered in the Mississippi Egg Laying Contest, The birds are confined to the cages for the duration of the contest.

pens of six birds each, Of these, fifty-two pens are from Mississippi and seven from other states. These seven out of state pens represent four breeders. We would like to call attention to the fact that our contest is made up largely of birds from Mississippi breeders, only a few of whom have had previous experience in producing, preparing, and se-lecting birds for egg laying contests. Naturally this places our contest at a disadvantage in comparison with other contests that are largely filled with birds from breeders of many years breeding experience as well as experience in selecting birds for contests.

We do not feel that the admirable records which our birds have made to

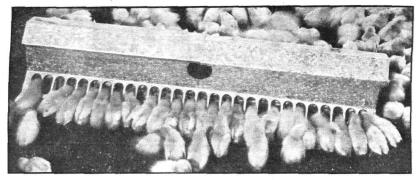
date would have been possible under the

(Continued on bage 19)

POULTRY TRIBUNE for APRIL, 1934-Page 9

No Matter Where You Live, Enter for \$1500 in 201 Cash Prizes

#### One of the important brooding problems is



#### by J. H. FLOREA

Assoc. Editor

# Feeding Chicks

OING a good job of brooding haby chicks is like fitting to-gether the pieces of a jigsaw puzzle, with the exception that you know what the finished job is to be and there are more detailed instructions for brooding. Good chicks, good housing, proper temperatures, protection from accidents, disease prevention and good feeding are some of the things which must be fitted together to make a good job of brooding.
All of them have their essential place

in a brooding program, and it is as impossible to say that one is the most important as it is to say that one piece of a jigsaw puzzle is the most impor-tant. Usually the one which you are hunting at the moment is the most important one.

The one problem in which most chick raisers show the greatest interest is feeding. This perhaps is not due to its difficulty, but to the fact that feeding is the most expensive item in poultry rais-

Chick feeding is not necessarily com-plicated or difficult. It can be both, howyour own judgment.

N ORDER that you may have competent help on the feeding problem, millions of dollars have been spent by public and private institutions for research on poultry feeding. It even has been carried on for hundreds of years. Some of the finest experimental work on grit feeding was done before 1800. As an indication of the amount of work which indication of the amount of work which has been done there are more than 250 publications on poultry feeding in the Poultry Tribune library of college bulletins. In addition, there are hundreds of bulletins which discuss feeding along with other subjects. Private research

edge.
This fund of information still is growing and will continue to grow. A comparison of the latest college bulletins on feeding will show changes over the previous ones from the same institu-tions. It is unlikely that any feed company is selling exactly the same starting mash this spring that it sold a year ago. New ingredients which are better, more economical, and which seem to "fit" better have been found. It is an established fact that the use of one ingredient may help to release the full value of another, and rations must be tested to determine just what amounts fit together

#### For 300 Chicks!

For each unit of 300 chicks which you purchase arrange for the following equip-

- ment:

  1. A warm and properly lighted brooder house with floor space of not less than 10 x 12 feet.

  2. Two accurate thermometers.

  3. A brooder stove that will supply adequate hear and operate satisfactorily under
- quate heat and operate satisfactorily under variable weather conditions.

  4. A supply of suitable litter,
  5. A 36-foot strip of an 18-inch (in width) deadening telt or hardware cloth or other tigel material, to be used around the hover at the start of the brooding period of the control of the start of the brooding period of the start of the brooding period of the start of the proof of the start of the sta
- 7. Six small times appeared weeks.

  8. Six large hoppers to replace the small hoppers after the fourth week. Add more of these large feeders after the eighth
- of these large requests and the week.

  9. A small grit hopper on the wall of the house.

  10. Roosts to put in for chicks by the sixth or seventh week.

conducted by feed manufacturers has best. The only way to make such tests added still more to our feeding knowl- usually is to feed different groups of usually is to feed different groups of chicks until the best combination is

> Now it isn't necessary to know about all of this research or to understand it to feed baby chicks properly. The thing of most importance to us in chick feeding is that certain feeds are necessary for proper chick growth, and that cer-tain combinations of feeds seem to give the best results.

> The general requirements, according to Iowa poultry specialists, are: water for digestion, heat control and circulation; protein for muscle and organ formation; ash (minerals) for bone formation; carbohydrate for heat and energy; fat for heat and energy reserve; and vitamins for growth and health.

> WHILE there may be several sources of some of these requirements, all are necessary for rapid and complete growth and development. Leaving out one and expecting the chicks to do well would be the same as asking carpenters to build a house, but giving them no nails, or no framing material or no roofing. It is even more important in feeding chicks, however, for they must be kept growing rapidly. A house can stand partly finished for a while and then be completed, but if a chick must stop growing for a few weeks to wait for a new supply of vitamins or protein, it likely will never make up the

> It is easy to see, then, why the average chick raiser can hardly afford to do his own experimenting to determine the best feeds. Instead of attempting to make up a ration which you think should be all right, the wisest course is to take advantage of all this work which

Continued on page 19)

# **OUR CUSTOMERS SAY**



lay More EGGS and Pay Greater PROFITS

The proof of the pudding is in the eating. Here are some remarks made by enthusiastic customers when reordering chicks this year.



"My Booth Rocks are laying 50% at 5 months." Mrs. Ingle, No. Car.



#### TEN TIMES AS MANY EGGS

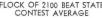


#### LAY MORE AND LARGER EGGS.

"We have bought chicks from many different poultry farms, but have not had near the satis-faction from any as from those we received from LARGER, lay MORE and LARGER EGGS and are HEALTHER than any other kind we have ever had."—John L. Petri, Waterloo, Ill., Jan. 24, 1983.

#### \$183 NET PROFIT IN 24 WEEKS





Anderson Poultry Farm, Salt Lake City, Utah, write: "We find our eggs of extremely good quality, very hicely shaped and uni-good the state of the state state of the state of the state of the state state of the st



G. W. Taylor, Florida Dec. 18, 1932

Royal Anderson, Salt Lake City, Utah

#### CLINTON, MISSOURI Box 922

No Matter Where You Live, Enter for \$1500 in 201 Cash Prizes

#### 875 National Egg Contest Awards Prove the Laying Ability of Booth Stock

At the World's Fair, Choago,
1933, Booth Farms had the higheat pen for numbers of eags and
Championship Trio of pens in both
In the past b years, in competition with the best breeders from
every part of the United States,
cups and ribbons at National Layring Contests, including U. S.
Champion Leehorn hen for 1930
for 1931, and highest average production for any breeder entering
10 or more contest.

To rome or contest.

To rome of thousands of their
aisters are used in our AAA Matmissurance of profitable breeding
back of your chicks.

#### You Can Always Depend on **Booth Chicks**

The dependable quality of Booth Chicks is the direct result of a controlled to the c

#### Low Prices Save You Money

S. C. White Leghorns \$6.90 \$34.00 \$68.00 \$C. Reds, Barred & Wh. Rocti, Wh. Wyandorles, Buff 7,40 \$35.00 70.00 Autoriest Areay Breads or Light Breeds \$4.40 per 100. Write for discounts on our Special Grades if or other confered now. Compliance Certificate No. 391 Prop us a pottcard or use coupen

#### TEAR OUT COUPO

Please ru 1934 catalog	sh at on			your	new
Name		 			
Address		 	-	-	****

POULTRY TRIBUNE for APRIL, 1934-Page 11

#### The Judges

- I. Dr. L. E. Card
- 2. Prof. R. E. Jones Conn. State College
- 3. Prof. G. T. Klein
  Kansas State Agr. Col.







Prof. R. E. Jones



Prof. G. T. Klein

# You Are Invited to Enter PT's \$1500 Chick Contest

Free Brooding Guide and record blank; 201 cash prizes

#### Contest Rules!

- 1 This contest open to everybody except employees of Poultry Tribune and their
- 2 Only chicks advertised in Poultry Tribune or chicks hatched from eggs advertised in Poultry Tribune are eligible.
- 3 This contest pertains to chicks (not less than 50) started any time between January I and July I, 1934.
- A A COMPLETE RECORD covering the first eight weeks of brooding, along with a let-ter of not more than 300 words explaining your brooding methods, must reach Poultry Tribune, Mount Morris, Illinois, not later than two weeks after your chicks are eight weeks old.
- 5 Your letter and record blank must be amiled in the same envelope. No changes of additions will be made in an entry efter it reaches Poultry Tribune. Entrants agree accept judger decision. Duplicate prizes will be awarded in case of ties. All letters become the property of Poultry Tribune.
- 6 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 was done.

#### by the Confest Manager

by the Contest Manager

This year Poultry Tribune is conducting the seventh of its National Chick Growthe Seventh of the Seventh

are amost certain to be successful, for they cover the practices that years of experience and trial have proved practical. These suggestions will be especially valu-able to beginners, but even experienced chick raisers will profit by reviewing them occasionally.

In addition to this direct brooding help, there is space for a complete brooding record, covering cost of chicks, feed, labor, interest on equipment, fuel, and other ex

interest on equipment, fuel, and other expenses, as well as mortality. Do you know what it costs you to raise chicks during the first eight weeks? How many of them do you lose? You may think you can guess at it, but if you keep this record, you will know. Many people say that these records are the most valuable part of the contest. Then, to make the contest more interesting. Poultry Tribune offers \$1,500 to be divided among 201 chick raisers who do a good job of brooding. The first prize is \$150; second, \$100; third, \$50; and \$180 people will get \$5. In addition, three prizes, one zach of \$25, \$15 and \$10 will be awarded for the best entries from each of the six sections of the United States which awarded for the best entries from each of the six sections of the United States which Poultry Tribune covers each month. If you will look on page 4 of this issue, you will find your section.

The winners of the first three national prizes are not eligible for the sectional awards, but every other contestant is eligible for them.

gible for them. The winning entries will be chosen by three men who are nationally known in the poultry industry. They are Dr. L. E. Card, head of the poultry department at the University of Illinois: Roy E. Jones, poultry extension specialist in Connecticut; and G. T. Klein, poultry extension specialist in Kansas. These men are in close contact with poultry raisers. They know the problems which are met in brooding, and all contestants can be assured of understanding, sympathetic judging.

Three things will be taken into consideration in Judging your final entry. First, you must raise a high percentage of your chicks; second, you must send in a complete record, either on the record card which we furnish you or a copy of it; third well are the control of the con The winning entries will be chosen by

Writing the letter is the only thing which will require any extra time over what you would put in with your chicks anyway, for you should keep a record, whether you enter this contest or not. Don't let the letter writing keep you from sending in your final entry, however, for fancy writing

doesn't count. The judges will look for a letter which tells simply and clearly just how you raised your chicks. Write as plainly as you can to make it easy to read. Last year's winner. Chas. F. Heller, wrote, "I am sure that this contest is well worth while. It promotes better brooding, feeding and management of baby chicks," Another winner wrote, "The experience gained through my entry in this contest will be very beneficial to me in many ways."

One of the judges, Prof. R. F. Jones.

ways.

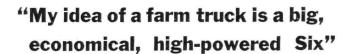
One of the judges, Prof. R. E. Jones, says, "Any poultryman or woman who will enter a contest of this kind, equip themselves with the necessary information, and selves with the necessary information, and carry the program through with a sincere determination to win, will obtain enough valuable knowledge and experience to pay for their efforts many times over, regardless of whether they are fortunate enough to win the cash prize."

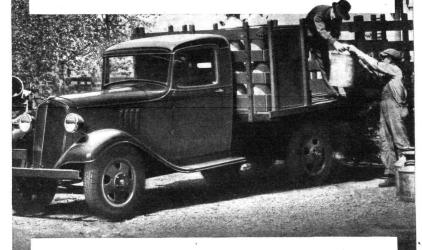
The thing for you to do now is fill out the coupon below to be sure of getting your record card and broading instructions in plenty of time. Send us the coupon just as soon, as you decide how many chiefs was

soon as you decide how many chicks you are going to get and where you are going to get them.

#### MAIL THIS COUPON!

		SROW				
Nati cash	onal C	en: I w Chick Gr i. I'm illing th	owing enclosi	Contes	t with to cov	its 2
Num	ber ch	icks ord	ered			
From						
Му	Name			Post investor		
Addr	est					
Enrol	ling d	oesn't i	n any	way o	blige	me to





# Chevrolet builds the biggest, huskiest truck in its field —and the lowest priced SIX on the market

It's true! and every farmer knows it who's ever owned a low-priced truck: A Six is always cheaper to run. A Six has just the right number of cylinders—not too many, not too few. Too many means too much gas consumption. Too few means excessive vibration! But a Six gives you power and "pull" and speed, at smallest expense for fuel and upkeep! That's why the first thing farmers ask is: "How many cylinders has this truck" And the reason they buy Chevrolets is: It's

the lowest priced truck with six cylinders . . . and a big, husky hauler in the bargain! Nothing "passenger car" about this truck. It's 100 per cent truck throughout! A high-powered "Blue-Flame" truck-type engine! Truck-type aske—and frame—and brakes. New farm-truck bodies with a surprising amount of load-space. Everything you'd ever want a big, powerful truck to have—nothing you don't want. And the price, remember, it's the lowest in the world for a Six!

CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN Low delivered prices and easy G.M.A.C. terms. A General Motors Value.

CHEVROLET SIX-CYLINDER TRUCKS



#### tells how to have RUNNING WATER for few cents a day!

A COMPLETE

SYSTEM

Of course you've thought about having running water and—as with most folks—a lot of questions have come to mind. To help you with these questions, we have prepared a new book, just off the presses, which explains everything you would want.

A COMPLETE

to know about installing a running water

Eighteen pages of diagrams—full expla-nation of running water from cisterns— shallow wells — deep wells—rivers—ponds —lakes—springs.

An invaluable book that will be sent you free. A book that you should read before you do anything about installing any water system—it may save you a costly mistake. With-out cost or obligation it is yours—absolutely free. Fill out and mail the coupon mow while you think of it.



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Home Water Systems Engine or Motor driven for every farm and bome use

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Fairbanks, Morse & Co., Dept. 4631 900 S. Wabash Ave., Chicago Please send me a copy of your new illus-trated handbook on water systems for homes and farms.

My source of water supply is: □ Lake □ Spring □ □ Deep well □ Shallow well □ Sha

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

# Holterman's Aristocra BARRED ROCKS 1933 WORLD'S CHAMPION Barred Rock Laying Pen is at home here. Eggs and Chix available. Holterman ARIS-and Prize-Winners. The out-standing PROFIT chickens of America. Large Eggs, Finest America. Large Eggs, Finest Growth, Full Peathering, Pear-less Beauty, Heaviest Produc-tion. COMPLETE STORY in very beautiful catalog. Get it.

The Phelan Brooder



PHELAN BROODER CO. 302 Equity Bidg. Okiahoma City, Okia.

W. D. HOLTERMAN, Fancier, Fort Wayne, Indiana, U. S. A. FACTS, NEVERTHELESS

By Carl H. Schroeder



## nat to D

#### Spring Culling Can Be Extreme

While unprofitable birds should be culled out in the spring, or at any time throughout the year, spring culling should not be carried to an extreme.

Summaries of 26 poultry account books kept by New Hampshire poultrymen show distinctly that it is more profitable to keep a large share of the flock for egg production in late summer and early fall.

On 13 farms, about 75 per cent of the hens were kept into September, according

to M. F. Abell, New Hampshire farm management specialist, who summarized the account. The labor income per hen on these farms averaged \$1.38. Thirteen other farms kept only 20 per cent of their heis into September, and the labor income per bird averaged only 68 cents.

#### Allow Range In Temperature

One way to provide a greater range in temperature in a brooder house is to place the stove as near the back wall as possible,





# Low-Priced Dodge Trucks Save Gas and Oil.

Expensive Features that Cut Upkeep Costs...Lengthen Truck Life!

WHAT do you want in your low-priced truck?... Dodge thinks you want features that cut gas, oil and tire costs first of all. So Dodge gives them to you . . . gives them at considerable extra cost to Dodge, so they will save money for you.

Dodge doesn't ask you to believe mere claims . . . mere talk about economy and long life. Dodge does ask you to investigate and judge for yourself. Dodge says-"Compare values then make your decision on a basis of plain common sense facts.' Dodge makes it easy for you to do this

#### No Other Low-Priced Truck Gives You All These Costly Features!

There are eighteen definite moneysaving features that Dodge offers you. They are positive quality features that you can recognize for yourself. You don't have to be an engineer to understand that 4 piston rings should be better than 3. Or that 4 main bearings are better than the usual 3. Valve seat inserts too save gas, save valve grinding, save money for you. So Dodge gives them to you along with: roller bearing universals, oil filter, hydraulic brakes, full pressure lubrication, crankcase ventilator - 18 positive, money-saving features in all.

#### See Your Dodge Dealer Go to your Dodge

dealer. He will show you how to check

the 18 Dodge money-saving features. How to compare Dodge with the three other lowest priced trucks. Then you can judge for yourself which offers the most value.

Go to your Dodge dealer today. Tell him you want the facts. You'll be astonished at the extra value you can get now in Dodge at today's low prices.

All prices F. O. B. factory, Detroit. pecial equipment, including dual wheels on 1½-ton models, extra.

DODGE BROTHERS CORPORATION Division of Chrysler Corporation, Detroit

DEPENDABLE-

#### DODGE TRUCKS



COMMERCIAL EXPRESS, 6-CYLINDER—Most efficient and useful light delivery car ever developed for farm use. Has decided the second of the second commercial express that gives you a combination of hydraulic pharties, valves exest inserts, patented Ploats in prover engine mountings, etc. A truly \$485\*



11/2-TON CHASSIS, 6-CYLINDER-136

Also, Heavy duty models up to 9 tons payload.

#### Wonderful Success Raising Baby Chicks

Mrs. Rhoades' letter will no doubt utmost interest to poultry raisers who have had serious losses in raising baby chicks. We will let Mrs. Rhoades tell her experience in her own words:

bady chieks. We will be late. Anomore tell her experience in her own words:

"Dear Sir: Lee experies so from many and the late of the late

#### DANGER OF INFECTION AMONG Baby Chicks

Baby Chicks
Readers are warned to exercise every sanitary precaution and beware of infection in the drinking water. Baby chicks must have a generous supply of pure water. Drinking vessels harbor germs and ordinary drinking water often becomes infected with disases germs and may spread disease through your entire flock and cause the loss of half or two-thirds your hatch before you are aware. Don't wait until you lose your chicks. Use preventive methods. Give Walko Tablets' in all drinking water from the time chicks are out of the shell.

#### YOU RUN NO RISK

We will send Walko Tablets entirely at our risk—postage prepaid—so you can see for yourself what a wonder-working remedy it is when used in the drinking water for baby chicks. So you can satisfy yourself as have thousands of others who depend on Walko Tablets year after year in raising their little chicks. Send 50c (or \$1.00) for a package of Walko Tablets —give it in all drinking water and watch results. You run no risk. We guarantee to refund your money promptly if you don't find your money promptly if you don't find the great-set little chick saver you ever used. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee.

WALKER REMEDY COMPANY We will send Walko Tablets entire-

#### WALKER REMEDY COMPANY Dept. 362 Waterloo, Iowa

For Sale by all Leading Druggists and Poultry Supply Dealers.



ORDER FROM THIS AD PREPAID PRICES-100% Live Delivery White Leghorns.
Rhode Island Reds.
Parred Rocks
White Rocks
Buff Orpingtons
White Orpingtons
White Wyandottes
Jersey Black Glants
White Minorcas. \$6.75 \$19.35 \$32.00 6.90 19.80 32.50

6.50 19.20 31.50 Hvy. Asstd. (for Brollers) WAYNE N. SHAWN HATCHERIES Box 206 La Plata, Mo.

Are you a Poultry Tribune Subscriber? Handy Order Blank on page 23.

and still allow room to go between the canopy and the wall. This arrangement allows for a range in temperature from the stove to the front of the house, and each chick may find the best temperature for his age and demand.

#### Milk In Metal Fountains

Milk in Metal rountains
Sometimes chick raisers hesitate to use
galvanized ionntains for milk because they
fear that the chicks will be poisoned. While
experiments indicate there is not very
much danger of this, one can be on the
safe side by filling the iountain with sour
milk and allowing it to stand in a warm
place for at least 24 hours. Empty the
iountain and rinse it out, and it will be
safe to use for feeding milk.\*

#### Starting and Growing Rations

Poultry raisers who with formulas for home mixing of chick rations will be glad to know that Poultry Tribune's service leafet number 12 lists a large number which are recommended by the various agricultural colleges. Send a 3-cent stamp to the Service Department, Poultry Tribune, Mount Morris, Ill.

#### How To Clean Brooder House

In cleaning brooder houses in preparation for chicks this spring, the most widely accepted procedure is to thoroughly sweep the side walls and floor, scraping the floor if necessary

il necessary.

Scrub the house with boiling water to which one pound of lye is added to each ten gallons of water. Then spray the house with a good standard disinfectant diluted according to directions, or disinfect the house by the use of a fire gun or disinfecting torch.

After this cleaning has been done, move the house to clean ground where no poultry has been ranged or droppings spread for the past couple of years.

\* \* \* Chicks may starve in the midst of plenty if their feeders are ton few, or are likely to be scratched full of litter.

#### Light Checks Chick Crowding

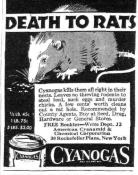
Crowding at night is usually the result of chilling, overheating, drafts, or rays of light. Watch temperatures carefully the first few days. Use a chick guard around the lower the first two or three days, making the space outside the hover larger early days.

Later, when the guard is removed, block the corners of the pen with straw, wire, or wide boards to prevent possible crowd-Be sure to arrange the wire or boards so the chicks cannot jump down behind it after a few days. If the habit of crowding develops, provide a ten-watt electric light or lantern over the hover. Usually the light checks crowding.

#### Facts, Nevertheless Explanations (See bage 14)

(See page 14)

By royal grant, 300 years ago, the salt workers of Halle were permitted to cook and store eggs in the brine of the royal salt works. Ever since, on New Year's Day, the, rule of Germany has received eggs, which are valued for their special flavor. The salt workers were the same quaint style of dress as their forelathers were also as the salt workers of the salt workers of the salt parts. According to an Associated Press dispatch, Mr. C. V. Suemson of Deaver. Colorado, is exhibiting one of the half eggs which one of bits here laid. The through the center, The yolk is visible through the soft shell.



#### NEW TOOLS for Poultrymen and Gardeners



R. G. BRUNER MFG. CO, Dept. P. T. Ferndale, Mich.



#### MAHOOD'S COMBINATION REDS

JOHN G. POORMAN, Box 600. Tinley Park, III.

CHICKS—EGGS—STOCK

THE 1901 A 1902. No other strain of Reds in the 1901 A 1902. No other strain of Reds in the 1901 A 1902. No other strain of Reds in the Lating Control Revent and Winning as World Gradest Sasses. Make inte more, willing early former of the same of the same of the Reds. Known for world own. Chickments with at World Prices we have sever control. Chickment with a control world own. The Reds. Known for world own. Chickment Chick Winning on the same of the Reds. Known for world own. The Reds. Known for world own. The Reds. Known for world own. The Reds. Known for the Reds. Known for world own. The Reds. Known for world own. The Reds. Known for world own. The Reds. Known for which is the Red



SQUABS UP! Breed PR ROYAL aquaba for profit. Sell for 2 to 3 times THE STORE CTEEL.

LYON Improved Electric Brooders Highly endorsed by Colleges, Experimental Stations and Leading Producers. Send for free data and entation of electrical Supplies—Alarms—Water Heaters— Brookier and Incubator heating supplies. Lyon Electric Co., Dept. E., Box 1436, San Diego, Calif.

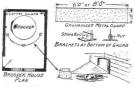
#### Complete Building Plan Ready



#### Use Guard To Stop Floor Drafts

Sometimes chicks crowd in corners or pile up in bunches around the brooder tove because of drafts blowing across the floor at night.

Such floor drafts can be largely eliminated by using a solid chick guard of board, metal or wire covered with heavy paper between the brooder stove and the front of the house. For a small brooder stove, Wisconsin poultry specialists recom-mend a galvanized metal strip, 6 feet long



This device will stop drafts.

and 18 inches wide. For larger brooders, they recommend a strip 8 feet long and 18 inches wide. Small pieces of metal are fastened to either end of the strip so it will stand on edge with no danger of falling

on the chicks.

This guard should be placed near the canopy when the chicks are small and grad-ually moved away as the chicks become

#### Use Wire Under Fountains

One of the best sanitation measures in the brooder house is the use of small frames covered with one-half or three-fourths inch mesh hardware cloth, on which the feed hoppers and water fountains are placed. These are especially valuable under water fountains for they eliminate a wet area around the fountain which usually provides an excellent breeding place for disease organisms

Pullets tend to produce a relatively high per-centage of double yolk eggs at the start of laying.

#### Order In Advance!

Order In Advance!

To be sure of getting the breed and number of chicks when you want them, place your order with your favorite hatched the control of the c



TO GUARD against DIGESTIVE DISORDERS and Simple DIAR-RHEAS, the preventive in the drink should do more than merely disinfect that water. Germozone carries on and destroys molds and disease germs with which it comes in contact IN THE CROP.

TRIAL BOTTLE

If you have never used Germonics, send us 10c to help cover cost of mailing and we will send you a 4-oz, trial bottle.

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It is also splendidly curative. Astringent yet soothing, it is the treatment which has given best results to many thousands of successful poultry raisers for 35 years. For grown fowls as well. See 64-pg. Lee-Way textbook on poultry diseases.

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Please refer to Service Leaflet Box, page 23

#### Tip Beaks Of Broilers

In Beaks O't Broilers
In selling broilers, it is desirable to have them well teathered. Feather growth may be aided greatly if all the cookerels in the flock are beak-tipped when about seven weeks old, suggests Roy E. Jones, Connecticut extension poultryman. This prevents the eockerels from pulling feathers at the critical stage when the pin feathers are just coming in on the back. Some even follow the practice of beak-tipping when the broilers start for market, in order to prevent picking in the crate.

Reak-tipping is practiced by opening the bird's month and with a small knife cutting into the side of the upper beak about one-

bird's mouth and with a small kniic cutting into the side of the upper beak about one-quarter inch from the tip, cutting on a shant towards the point of the beak so as not to draw blood. With the thumb against the cut portion of the beak on the kniic blade, it is possible to tear off the point of the upper beak, leaving about one-eighth inch of the upper beak, leaving about one-eighth inch of the upper beak, leaving about one-eighth inch of the quick exposed. This does not inch of the quick exposed. This does not prevent the birds from eating grain and mash, but it does quite effectively stop feather picking for 10 days to two weeks when the beaks again will be grown out when me \_\_\_\_\_ close to normal.

#### Every Problem Increased by Crowding

The amount of floor space per chick recommended by H. S. Palmer, Delaware extension poultryman, is as follows: First 8 weeks: one-half square foot per

chick. From 8 to 12 weeks: one square foot per chick. Removing the cockerels will leave the right amount of space for the pullets. From 12 to 20 weeks: one and one-half square feet per pullet. This will require

square feet per pullet. This will require that some of the pullets be moved at about 12 weeks of age.
After 20 weeks: three to four square feet

Putting too many chicks in the brooder houses and yards is the most common and yet the most expensive mistake that poul-trymen make, he says. Every problem that besets the brooding of chicks is made worse by overcrowding.

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Here is a new egg gathering basket which allows air to get to the eggs for quick removal of the animal beat. A basket or part of this type bax been adopted almost manimously by poultry producers unbo sell their eggs at egg auctions. Such eggs must be of the best quality.

#### A Laying Cage Contest

(Continued from page 9)

conditions which obtain generally in egg lay-ing contests. We also are very proud of these records in view of the fact that the only manrecords in view or the fact that the only man-agement phase which utilizes forcing methods is that of artificial light to equalize the day, It should be pointed out also that we un-fortunately had a disease outbreak brought in by carrier birds which under general egg laying contest methods probably would have been disastrous. disastrous

lied disastrous.

In concluding this article we would like to bring to the attention of our readers some interesting observations we have made as well as production results to date.

Inferior brids, as a result of parasitic invasion or improper rearing, soon fall by the wayside, when placed in laying batteries, while the strong normal birds respond most efficiently to the conditions imposed by lay-flicting the place of the place o

Birds have been observed gradually to expel round worms from time to time without treatment. Under floor conditions, all of the birds in the pen would be subject to infestation from this source which is entirely eliminated by the wire floors in the laying batteries.

The weight of birds has gradually increased at a normal rate for pullets advancing in age. The parasitic infestation observed in these birds is an outstanding indication of the fail-birds in the state of t

#### Feeding Baby Chicks

(Continued from page 10)

las been done already, and use a formula recommended by your state college or experiment station or else use a feed developed by For chick raising, most people do use the commercial feed. It takes only about two jounds of starting mash for each chick, and since the right start in life is so important, few people care to take a chance on either consecutive or the control of the c

the quality of ingredients or the thorough-ness of their own mixing.

Whether you do mix your own or feed a commercial feed, however, there are two gen-eral methods of feeding—the all-mash and the mash and grain. In either method, mash alone is given for the first five to seven days. If the all-mash method is being used, the mash simply is continued in hoppers before the scheds all of the time until they are about checks all of the time until they are about sched and the second of the second of the second made to growing mash and grain feeding is been.

made to growing mash and grain feeding is begue. The mash and grain system is used. Fain feeding is begun at the end of the first week. Finely cracked corn, wheat and hulsel doats, in equal parts, or other recommended grain mixtures or a ready-mixed grain mixture can be fed. The grain is fed spar-nisk the state of the grain is fed spar-nely at first, sprinkling it on the With mashes, it is recommended that the grain be Continued on page 25)

(Continued on page 25)





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niands more rinsing to attain perfect launder-ing. Consequently, an efficient wringer is a efficient wringer is a most essential factor of a washing machine.

WITH the merry music of a power washer machine of to-day, the custom of boiling white linens and cottons is I as It waning. It is, however, a wise precaution to boil personal linens, such as hand-kerchlefs, when colds or other communicable kerchiefs, when colds or other communicable diseases are in the family. Many housewives, knowing that hot water and plenty of soap are efficient germ killers, sort, mend and remove stains from the clothes and then soak them in soapy luke warm wa-

ter for several hours—or over night, before transferring them to the, hot, thick sudsy water of the washing machine.

Thorough rinsing is another secret of snowy white clothing. The first two riness should be luke warm, and hot if possible, while the third rinsing may be of cold water. Again may be of cold water. Again piles us with soap which quickly whisks into study and as quickly and easily rinses out, re-emoving every trace of soap and loosened dirt.

THERE is none of the guess work of Grandmother, as to whether the soap is so strong as to bleach the colored things, weaken fibers, or so weak that it cannot loosen the dirt.

Modern commercial soap making is a pro-

cess of many operations, carefully supervised by experienced chemists. From vats holding as much as 100 tons of soap, selected oils and

ingredients are mixed to produce a uniform scap, leaving clear, fresh colors and snowy white clothes each and every time. Home-made soap making of today and of Grand-mother's time is little different from that of inteten centuries ago, and unsuited to mod-ern fabries.

Washing soda, horax, and ammonia are the Washing soda, horax of transer well cons-

ern fabries.

Washing soda, borax, and ammonia are the most favored hard water softeners, and soan savers. When soan, alone, is used in hard water, a part of the soan mires and soan savers. When soan, alone, is used in hard water, a part of the soan mires was soan and the soan around the edge of the tub. In time, this may be ground into the mesh of the fabrics, making them grey. Animal fibers, silk, and wool, are weakened by moisture, and insecting the soan soan saverage and the soan saverage and the soan saverage and the same temperature of greener stricking. Rosons, and loosely should not be rubbed, but gently squeezed should not be rubbed, but gently squeezed prevent turber stretching by placing the hand undermeath the garment, as it is removed solden with water, instead of lifting by the finger tips. Dry them to work of the soan saverage and towel and stretch to measurements taken before washing. Never hand woolens near a hand water hand woolens near a hand woolens ne

hang woolens near a hot stove. It shrinks them. Celanese fab-ries melt when sub-jected to high tem-

PRUSSIAN blue is often used in liquid bluing, and contains iron salts. Clothes not well rinsed, may have well rinsed, may have tiny rust spots upon them where the bluing and the alkalies unite to form iron rust. Starch clothing wrong side out. Starch white clothes in starch as hot as the hands can stand. Colored cloth-ing needs a cooler starch solution which helps the wear of clothing.

Two excellent helps on laundering may be secured by writing the Department of Agriculture. Washington, D. C. One is "Methods and Equipment for Home Laundering," Farmer's Bulletin No. 1497, and "Stain Removal from Fabries," Bulletin No. 1474.

#### Recipe of the Month

#### Cherry Upside Down Cake

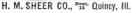
3 tablespoonsful butter. cup sugar. . cups drained sour cherries. cherries. Melt butter in a 9-(Continued on page 24)

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> by J. H. FLOREA Service Department

#### Must I Sign The Hatchery Code?

Must I Sign The Hatchery Code?

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#### Causes Of Poor Feathering

Causes Of Poor Feathering

In producing brothers in butteries. I have had more trouble in setting good feethering. Do you have an augmention with would aid me in overcoming this difficulty. Answer: There are a number of things which may affect the feathering of brothers, in the first place, some strains of hirds simply do not feather as the solid. The product of the causes of poor feathering are too low hundridy, overcrowding, too high temperatures, and no occasional instances, improper feeding.

During the first three or four weeks, a high humidity should be maintained in the high humidity should be maintained in the in supplying this needed, maisture. After that ime, the addition of extra moisture probably will not be required. When sufficient moisture is not present in the air, the new feathering is the birds are likely to dry out and be broken off as the birds are how against each other. Too high thing, Likewise, if the birds are too crowded, the feathers are more likely to be broken off as four and a summer of birds or the tray is to allow at least 10 square inches of foor area for each chick up to three weeks of age; 20 square inches of foor area for each chick up to three weeks of age; 20 square inches of foor area can be compared to the second of the content of the week old birds.

#### How Large A Brooder House

I am just a beginner in raising poultry, but I plan to tart about 600 baby chicks this spring. How large a recoder house and broader store will I need for this num er?—J. S., Calif.

Answer: We would not advise you to start 600 baby chicks all in one brood, regardless of the size of the brooder room or stove. We believe that if you will start this can be seen to start 600 baby chicks all in one brood, room or stove. We believe that if you will start this you will raise enough more chicks and enough better chicks to more than make up for the difference in brooding costs and labor. To do this, you could use either two brooder rooms and stoves, or start one brood now and move them to make the start the second brood in the same house.

can do without heat and start the second orood in the same house.

A 10 by 12 foot brooder house would be sufficient for this number of chicks. They should have double this amount of space when they are five to six weeks old, or simply removing the cockerels will, alony plenty of room for the pullets. If they are should be fined, the amount of floor space should be doubled again when they are around 10 weeks





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creasing.

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dier, better feathered birds.

Many poultry authorities are advocating the use of lower temperatures with coal and oil brooders to secure much the same results.

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Missouri Poultry Farms, Box 218, Columbia, Mo.



BIG LEGHORNS Have showed more chan gion White Leghorn who will be showed the showed more change a survone in \$6. S. Can furnish eggs or chicks from hear shall have record matting a shall have record matting a with records of 301 to 341 eggs. Also I over releast from helm lower prices. Big. regard birds. Lay big eggs. 27th year. Prices low. Write Frank Gloechi, Judge & Breeder, Hillwiew Leghorn Farm, pept. 420, Betharty. Mr.



Hading buby chicks is just one of many ares to which the modern motor track can be put. I housands of balcherymen use a few put of the put of t

#### Homemaking Department

inch cake pan, preferably one that is 254 to 3 inches deep. Over the melted butter, sprinkle the sigrar, and on top arrange the well drained cherries. If desired 52 to 1 cm broken mit meats may be added. Over all pour the following batter.

cup the following cup cake flour, teaspoon baking powder, exgs, cup sugar, 2 teaspoons lemon juice. 6 tablespoons hot water.

cup sugar.

Sift floor and baking powder 3 times. Beat eggs until thick, gradually adding the sugar, water, and lenon juice. Beat until mixture forms a firm foam. Fold in the flour, a little at a time. Pour over the cherries in pan. Bake in moderate oven (350 degrees) for 45

minutes.
Serve with or without whipped cream,

You who are old hands at Angel Food, may be interested in a Daffodil Cake, a gorgeous combination of the gold of Sunshine Cake with the white of Angel Food Cake.

#### Daffodil Cake

Yellow Mixture 3 egg volks 15 teaspoon salt 3 tablespoonfuls sugar

1 tablespoonful pastry

White Mixture

8 egg whites. 1 cup pastry flour 34 teaspoonful cream of 1 teaspoon flavoring tartar 11/2 cups sugar 34 teaspoon salt

#### White Mixture

Beat egg whites until frothy. Add cream of tartar and the salt, beating all the time. Beat until egg white points when whip is drawn through whites. Gradually add 1 cup of sugar, beating all the while. Sift remaining sugar with four 4 times. Fold the ungur-florr mixture into egg white, 4 tablespoonfuls at a time.

#### Yellow Mixture

Yellow Mixture

Reat egg yellse until light colored and thick. Slowly add the 3 tablespoomfuls of sugar and salt, became all the write. Fold in flour, and 4 the state of the write mixture. Put the half the write mixture. Put the half the write mixture. Put the half the write mixture. Put angel food cake pan, Jeaving an open space about the the. Pour the yellow mixture into this space around the tube. Pour the remaining white batter on top. Bake in a slow oven (300°—524° F.), 1½ hours.

#### Chicken Salad, Hawaiian

1 cup diced chicken 3/cup nut meats
3/cup crushed pine3/cup mayonmaise
4/cup mayonmaise
5/cup mayonmaise

Combine ingredients and blend with mayon-naise into which whipped cream has been fold-ed. Using 34 cup of mayonnaise, whipped cream may be omitted.

It is impossible to predict the sex of hatching

#### Egg-A-Torials

(Continued from page 7)

by hatcheries unless we also have orderly buying by chick raisers. If poultrymen insist c waiting with their chick orders until the want their chicks, hatcherymen cannot at ticipate their orders in advance to carry on an orderly marketing program. If the pregram of the government of the poultry insister, we have been considered their orders in advance or carry on the poultry insister, the poultry insisters must help hatcherymen by a ticipating their orders in advance and allowing their hatcherymen at least 30 or 60 and advance notice of their order.

There is a selfish angle to orderly buying too. Thousands of poultry raisers who have not placed their order for haby chicks, and who are expecting to start them April and who are expecting to start them in April and who are expecting to start their hard and the self-way of the place their chicks order immediately. Chick sales have been solw so far this season. There is every reason to believe that hundreds of thousands of boultry raisers will be wanting to start their chicks in April. Insumuch as every hatchery is under the reculation of the cole, it will be included the property of the cole of ordering chicks immediately is doubly important.

#### Hugh Ballantyne Wins First Prize In February Contest

Prize In February Contest

First prize in the \$25 contest announced in the February issue of Poultry Trihune was won by Hugh Ballantyne, Rockville, Conceivent. He receives a check for \$10 for his list of breeds advertised in the February issue of Poultry Trihune and his letter of less than 100 words telling with he words for more information about some breed advertised. In the content of \$5, and \$1 prizes were awarded to the following ten people:

Mrs. Clarence Uhl. Ohio; Henry N. Stone, Maine; Mrs. Chas, J. Kaiser, N. Y.; Mrs. Silas Sprunger, Indiana; Herry Richardson, Indiana; Mrs. Leonard A. Myers, Ohio; Mrs. K. Wallace, Michigan; Medley Hoch, Ohio; Solomon E. Kesatic, Pennsylvania; and Mrs. J. W. Stone. Tennessee.

While there were many appeals which prompted entrants in the contest to write for information or various breeds, in general, information or various breeds, in general, purpose and wrote to a number of different breeders to find exactly the quality desired at a fair price.

at a fair price.

#### Book Review!

#### Rice And Botsford Book Revised

Rice And Botsford Book Revised

New information and recommendations in poultry raising have intereased rapidly in recent years. The advance has been so rapid that it has been difficult to keep any book entirely up-to-dateny that been made to keep any book entirely up-to-dateny that been made to keep any the poultry Management. 'by James E. Rice, head of the poultry denartment at Cornell University, and Harold E. Botsford, extension professor at the same university, up-to-date on the practical information of poultry raising. The third edition, published late in 1933 hy John Wiley and Sons, is a revision and extension of the second edition, proved practical. As an explanation of why certain practices much in the public eye are not recommended in the book, the authors state that they have had constantly in mind the familiar advice: 'Ble not the first buy whom the new is tried, nor yet the last to lay the old asolvers practically all phases of This book covers practically all phases of Torothere II. Is norfusery. Illustrater with

lay the old aside."

This book covers practically all phases of poultry production and marketing by the producer. It is profusely illustrated with photographs and tables. One objection to this book is that it is not indeed as well as it should be to make it useful as a reference look, but it productly will continue to be one of the most popular books for farmers and practical poultry raisers,



to get premium quality eggs and broiler from Carter Champions. Prompt service. 100 per cent safe delivery, strong, teatity chicks.

LOOK AT THESE LOW PRICES

"Hybrid Chicks"-R. I. Red-Barred Rock Cross

Pullets-day old \$11.00 \$53.00 \$105.0 Concerning out 7.00 32.50 67.50

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#### Brooder \$4.80 Complete

few minutes you can make a better breoder than n buy. No tools needed but a pair of ordinary The materials, including Heater, cost only \$4.80. 40 to 100 chicks. arounds 40 to 100 chicks, I want you to try my broader and will send you plans for making it, together with a Putnam Broader Heater, for \$1,75. All nostpaid, The Putnam Broader Heater holds one quart of oil and

Burns 10 Days Without Attention brooder out and if you don't say it's the lou ever used, return the Heater in 30 days money back. When ordering, please give a

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ter profits from day-old pullets. Much more vigorous, growing, early maturing, large size HEAVY LAYERS. all MALES for broilers and esponse-make bigness to this new way. Finished broilers quicker at less cost. odite this now way. Finished broilers quicker at use or SUPERIOR PURE-SKEDS at LOW PRICES BIG TYPE LEGATORNS and 11 OTHER LEGATOR SHEEDS THE LEGATORNS AND 11 OTHER LEGATOR SHEEDS TO BE SHEET TO AND TO COMPANY OTHER SHEETS

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500 we breed, cull for type, larger egg
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The bealth giving properties of the sun are just as valuable for bicks. If you are just as valuable for bicks. If you are just as valuable for bicks. If you are just as valuable for properties of the sun or just with the properties of the sun or just with the properties of the sun of the properties of the sun by the properties of the sun of the properties of the prope

#### Feeding Baby Chicks

(Continued from page 19)

piaced in hoppers and left before the chicks all of the time, just like the mash. In other cases, the grain is fed by hand twice a day. A good many feeding authorities prefer from the control of the co

#### Poultry Health

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



Vereinarian and Specialtit in Poultry Diseases

APRIL This is the time of year when Mother
Nature begins to smale, and to got uses life into every
state to begin to smale, and to got uses life into every
relative to the property of the poultry of the poultry

Defices: Phen-O-Sal Tablets, 125 for \$1.00. Qt. bottle Poultry House Disinfectant only \$1.00. 100 dose pkg. Foul Pox Vaccine, \$1.00. These are preparations of Dr. Salsburys Laboratories, 412 Jackson St., Charles City, Iowa. — Adv.

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100 Latham of Chief largest Red Raspberries, 1 year	
fancy \$1.80 Prepaid	
500 \$5,00 1900	
100, 83, (0), 11000 - 10	
5 hearing size, \$1,00; 100	
5 1-year St. Regis Everbearing Red Raspberries \$1.00	
5 2-year bearing size	
Cumberland 1-year fancy 60c: 100 \$1.90 Prepaid	
900 Se Oo Not Prepaid	
Eldorado Blackberries 65e: 100	
000 \$11,00 Not Prepaid	
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The Potate-By Fraser	1.3
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Send Cash Will Or	
send Cash with Or	

Page 26-POULTRY TRIBUNE for APRIL, 1964



#### by M. G. KAINS

VOID shrub pruning, except to remove dead wood and puny shoots until atter the blossming scason of each shrub is over. Otherwise you will destroy the very parts for which you grow them; namely, the flower bads. The best time to prune them is within the second of the property of the pro

haps can appreciate how much they pleased me when they first came out. Be sure to try some of the new kinds this year!

Seed sowing is perhaps most safely done when governed by the signs which Nature presents as the season advances. Though skunk cabbage and pussy villows may be found white sow seeds of even the hardiest plants; but when forsythia (or golden bell) and spice bush are in bloom the hardy kinds may then be sown—parsnip, parsley, carrot, beet, round seeded front wrinkle seeded) perashis, mustand and pepperframs and Japanese quince blossom is time enough to sow wrinkle seeded peas, onion seed and sets, leeks, and to make second sowings of beets and carrots. When apple, pear and sugar maples are blossoming is about right for the carriest sowings of tender kinds send as corn, and carrots. When apple, pear and sugar maples are blossoming is about right for the carriest sowings of tender kinds send as corn. But until mock orange, grape, raspherry and horsechestnuts are in bloom, it is usually unsafe to transplant seedlings of tomato, pepper goround.

\*\*CORCING radish seeds dropped at inter-\*
\*\*CORCING radish seeds dropped at inter-\*

open ground.

FORCING radish seeds dropped at intervals of two or three inches in the rows of
such slow sprouting seeds as paramips, parsley
and carrot, and in those of such inconspicuous
mes as beets, onions and tecks, are excellent
as markers of the rows because the radishes
sprout in a few thys and their large "seedisprout in the seed of their large seeding.

This is a great advantage because it permits the destruction of weeds while still too
small to be seen and before they can get the
better of the desired crops. If foreing radish
varieties are used in this way, especially it
being sifted out), the roots will be ready for
eating within three weeks or four at the not
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eating within three weeks or four at the not



Presentation of a bouquet of roses to Mrs. Franklin D. Roosevelt in her private office in New York City by Stephen Reynolds of Connecticut. This rose, introduced by Reynolds, was named the Mrs. Franklin D. Roosevelt rose in her bonor.





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#### WORLD-FAMOUS GARDEN VIEWS

FREE CATA-LOG n in Salzer's big new free bargain book retable, Flower and Field Seeds; Plants, Bulbs, 164 page John A. SALZER SEED COMPANY Sow Salzer's Seeds ....



## t varieties-finest grade stock at prices. New illustrated, instructive the with honest information sent free.

TINGLE NURSERY,



MARKET GROWERS JOURNAL—A magazine for commercial vegetable producer. Published twice a mo 24 state, for \$1.00 a year. Send subscriptions Poultry Tribune, Mount Morris, Ill.

fered with the slow starting plants. As soon as the radishes are removed due rows of more permanent plants should be given their first thinning.

Solution of the start of the start of the same close and dwarf, may be used to give an effective splash of color by placing the tall one to the rear and the dwarf ones in front of a bed or a border. Preferably the two should be of the same color or of nearly the same tints. They may be bought in named varieties, Mixtures are less effective.

ANOTHER way to gain the same effect is to plant only tall ones but plant the two rear rows early, the two in front of these two of three weeks later, and a third pair of some of the same that the same of the same that the same of bloom may be greatly extended and the bed leep tooking well until frost kills the plants. No flower is easier to grow than the Plums are made wormy mostly by the larvae of curculio. To prevent the adults from laying eggs two good ways are available: planning the trees in the poultry yard so the following the same that the plants are same to the plants of the same that the plants are same to the plants are same to the plants are same to the plants of the plants are same to the plants of the plant

REEPING bent grass makes specially fine makes a dense turf. Examine some lawn made with it before deciding. Try it with at least one bush this month. Nisotine, dust is most effective for plant lice, leaf hoppers and other sucking soft will too its strength. Apply with a blow gun. Try it will too its strength. Apply with a blow gun. Try it will too its strength. Apply with a blow gun. Try it will too its strength. Apply with a blow gun. Parallel with the vegetables so they may be cut freely without spoiling the beauty of the garden.

garden.
Paint some copper-wired tree labels scarlet, Paint some copper-wired tree labels scarter, carry them in your pocket when you ramble in the wild. Attach them to worthy plants you may move later to your garden. Dig them and transplant them when dormant where they will give most enjoyment. Newly cut branches of forsythia, weigela and many other shrubs thrust deeply in the soil in spring and packed firmly make good supports for weak, small vines. Many will

take roots and be ready to transplant by fall.

BONE meal is one of the best ferrilizers to how, When you add it to the soil it is possible to be a safe bank! I so the soil with the soil is a safe bank! I so the soil is to be very lost grain. Unlike nitrate of soda it is not lest by seepage from the soil but as it decays its elements are seized by the soil or the plants and used. You cannot apply it extraorgantly because of this. A pound to the square yard, however, is a good dose.

Nitrate of soda must not be used in a possible to the square yard, however, is a good dose.

Nitrate of soda must not be used in a possible to some soil of the soil of soil of the soil of soil of the soil of soil of soil of the soil of so fruit trees, bushes or to shrubbery later than

'Why does Bill call his sweetie, 'Little Easter Egg'?'
"Because, Bill says, she's hard-boiled, painted and can't be beat."—Montreal Herald.

"How much for these eggs, my pretty maid," said he. "Oh, any poultry sum, kind sir," said she.



2 Pyramidal Arborvitae 2 Japa 2 White Spruce 2 Golder

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NIKKO BLUE HYDRANGEAS \$1.00 3 RHODODENDRONS, 1 to 15 feet \$1.50
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Hen 78-2 made record 1931-32 Alabama Contest 803 eggs. Laid 344 eggs before

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One customer purchased 500 chicks last year—bought 1,500 for 1934—Another invested in 1,000 in 1933—3,500 for 1934. They KNOW the wisdom of investing wisely!

Highest Record Hen Customers are reporting flock averages well over 200 eggs per bird, -some over 250.

tien 74-6 [Ulgartrated above], Alabama OUR PRICES: You'll be "The 1s highest record ever made in all Mishama Contests, Four 200 eggers in youthed averaged 208. How have in this outset averaged 208. How have in this outset averaged 208. How have in this in 75-2 made record [1810-26 Alabama without "KERIN-GUALITY" Chicks another year.

molting.

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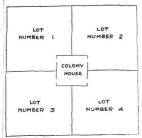
Kerlin's Grand View Poultry Farm, 201 Walnut Rd., Centre Hall, Pa. Stop "Keeping Chickens"—Let "Kerlin-Quality" Chickens "Keep You"

#### Alternate Toms

In mating turkeys, one tom is enough for 10 to 15 hers. The best breeding practice to insure high fertility with economy of labor and toms consists of dividing the breeding flock into units of 25 to 30 hens, according to William C. Monahan, Massachusetts State

to William C. Monamm, sussessment of College.

Twice as many toms are used as there are breeding units. The toms are used on alternate days, one to a unit or flock, and rotated from flock to flock to minimize infertility due to preferential matings. When not with the flock, these toms are penued separately so they will eat and cannot fight.



How large to lay out the lots depends on the size of the turkey flock. The birds are rotated, using each lot one week.

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Will "A" Qulliv Marting Marting Marting and 15 or S. C. White Lephorns | 100 | 500 | 100 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 1000 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 7.25 35.00 8.25 38.75 77.50 10.00 48.75 95.00

38.75 95.00 37.00 72.00 33.50 67.00 - No ship C.O.D. for f 53.75 105.00 43.75 10.00 33.75 7.50 32.50 7.00 11.00 ey Black Giants . orted Heavy Breeds orted Odds and Ends Compliance Certificate No. 688. WOLF HATCHING & BREEDING CO. Box I GIBSONBURG, OHIO

#### ICKS BACKED REPLACEMENT GUARANTEE BLOOD BY HIGHEST QUALITY—LOW PRICES 102 and and 6 Grade 5 Gree Country of the Country of t 1000 \$69 86 86



LONE ELM HATCHERY.

Pekin Ducks Bring Sigger Profits
Fast Growers. Good Layers. Deliclous Meat. Mature at 10 weeks. Every farmer can raise 100 or more with great profit and pleasure. No water reportised, Parise's Petidin commands.

#### Raise Turkeys In Small Lots

Simply because you do not have large open fields to provide range for turkeys does not mean that you cannot raise them.

Turkeys can be raised in relatively close confinement if the proper management metiods are followed.

The best plan is to provide four yards of equal size with a house or shelter at the center, opening into each yard for the them, allowed to range in each yard for the they use each yard for the way of the provide of the provide they use each yard only one week out of every

four.

Alfalia probably makes the best range for them, and to allow the alfalia to keep shead of the turkey, it is necessary to allow at least 100 square feet of space in each pen for each turkey, but not more than 50 turkey should be ranged in a pen, 50 by 100 feet in size, and there probably would be a better range if still fewer birds were kept in it.

#### Batteries Can Be Used

Poultry raisers who use battery brooders to start their baby chicks can use the same method for starting their turkey poults for the first three weeks.

About the same management can be followed with the poults as with chicks, but it is best to allow about double the floor space for each poult that is ordinarily allowed for each chick.

CHIPEL DIRECT FROM AD.

BOX 133.

NOKOMIS, ILLINOIS

Pekin Ducks Bring Bigger Profits

Fast Grosers. Good Layers. Delicion, Mest. Marine at 10

weeks. Deer framer can raise 100 gr more with great profit

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#### Egg and Poultry Prices!

Receipts Of Eggs High-Prices Hold Steady Above Last Year's Levels-Storage Increases-Broilers High.

(Written March 13)

Rather conflicting factors are influencing the egg market just now, but egg prices still are about three cents above a year ago and appear to be firm.

The greatest unfavorable factor is the ex-ceedingly large supply of fresh eggs. Re-ceptis at the four principal markets have been approximately 45 per cent higher during the past four weeks than during the same time a

ceipts at the four principal markets have been approximately 45 per cent higher during the past four weeks than during the same time a year ago.

Four consumer balancing the high receipts. Four third higher than a year ago. Consumption, which at the present time is approximately one-third higher than a year ago. Consumption should continue high for the remainder of March, due to the usual Easter demand, and a five-year average of 185,000 cases. Holdings in 35 cities indicate that storage stocks ago, as they increased rapidly during the week ending March 10.

Most authorities seem fairly well agreed that eap prices have reached the bottom, and should remain steads or show some rise. The bottom.

Prices for live poultry are somewhat higher than a month ago and definitely higher than a the bottom.

Prices for live poultry are somewhat higher than a month ago and definitely higher than a creally land that the market is near the bottom.

Prices for live poultry are somewhat higher than a north ago and definitely higher than a creally land that the market is near receipt of the prices of them as yet. Reports of early landburg prices on them as yet. Reports of early landburg prices on them as yet. Reports of early landburg prices may have executed approximately the same number of large, but 13 per one liver chiefs backed in large but the fall of the residual of the same number of page, but 13 per one liver chiefs backed.

Storage holdings of dressed poultry on March 1 were 1011/29/000 pounds on page and the time.

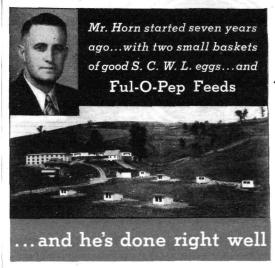
Highest quotations on five egg auctions follow:

Highest quotations on five egg auctions fol-

#### PRICE COMPARISON CHART

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

M	arch	10, 1	934				
City	Eggs	Fowls	Fowle	Springers	Turkeya	Ducks	Broilers
New York Chicago Philadelphis	24 1654 24	19 14 18	18 151 <sub>2</sub> 14	19 20	20 18 22	12 17 15	26
Los Angeles Minnenpolis	1439	iî	(14)	10	10	06	6.
N	larch	11, 1	1933				
New York	2112	14	12	92	21	13	23



Today Z. D. Horn, of Dunn's Station, Pa., has the biggest poultry farm in his county-with 3500 fine large birds. And he didn't start in this business till seven years ago.

But he started with good eggseven if there were only two baskets of them; and he fed good feeds. Ful-O-Pep Feeds. That makes a difference!

Mr. Horn's entries in the Pennsylvania R. O. P. projects have ranked among the best

for the past three years. They were first for average production of quali-fying birds. 1930-31-280.38 eggs—1931-32— 283.65 eggs—1932-33— 273 eggs, which averaged better than 25 oz. to the dozen. In 1932 his R.O.P. pullet No. 51 was 'high individual" with a record of 338 eggs, weighing 25.1 oz. to the dozen.

And here s what he avs about feeds: "Undermy trapnests no other feeds I have

tried-and I've tried plenty-will give as long a cycle of production and as fine eggs as Ful-O-Pep. I feel Ful-O-Pep will make more money for us than any other feeds on the market."

#### New Chick Book Tells How

You too want to make money. Ful-O-Pep Feeds are just what you need. They have kept up with the times. What was a good feed seven years ago has been greatly improved to-

day. There is real dollar value in a sack of Ful-O-Pep Feed.

Send for the 1934 Ful-O-Pep Baby Chick Book, which gives latest information on hopper-feeding of grain and mash to reduce losses from disease and increase production of big, marketable eggs. No poultryman can afford to be without this new, practical, common-

sense poultry book. Send the coupon below for your copy -write for it today.



Quaker FUL-O-PEP

CHICK STARTER

FUL-O-PEP

#### Chick Starter

lail John	THE QUAKER OATS COMPANY, Dept. D-17 141 W. Jackson Blvd., Chicago, Ill. Dear Sirs: Please send free "The new 1934 Chick Book."						
WE FREE	Name						
BOO	Address						



#### FEED STONEMO GRANITE GRIT

Yes, you can cut your feed costs by feeding hard, insoluble STONEMO GRANITE GRIT. Experiments have shown that chickens receiving soft grit (limestone grit) or none at all eat as much as 20 per cent more feed than chickens which have STONEMO GRANITE GRIT before them always. In other words, every cent invested in STONEMO GRIT for your chickens will save you 4 to 5 cents in feed costs.

HEALTHIER PULLETS-Not only will HEALTHIER PULLETS—Not only will STONEMO GRANITE GRIT cut your feed costs, but it will give you healthier flock by making digestion complete, and by helping to avoid common troubles like erop bound, it is not to be supported by the component of the component of

IF YOUR LOCAL DEALER does not carry Stonemo Grit, order direct. We will ship locable, or more, RELIGHT PHEDALD at \$1.00 to \$1.00

GUARANTEE-STONEMO GRANITE GRIT is sold on a money back guarantee. If it doesn't do what we claim, your money will be



#### FREE BOOKLET

"Why Granite Grit for Poultry?" is the title of an 8-page free booklet containing the opinions of Prof. J. E. Rice, Dr. O. B. Kent, Prof. C. E. Lee and other authorities. Write for copy.

Box A-2	202, Lit	thon	ia	, Geo	rgia	GRII	CO.,	
Pleas	e send	me	a	copy	of	"Why	Granite	(

for Poultry?"	Why Granite Gr
Name	
Address	
Your Dealer's Name & Addre	ss,

# Notes

#### From PT Exp. Farm

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

HIS month as you tend your chicks and, perhaps, turn to Poultry Tribune frequently for advice, you may find some comfort in knowing that here at Poultry Tribune Experimental Farm we're doing the same done with the control of the co



lave our share of prob-

have our share of problems.

When you brood more than 1.000 chicks there is some advantage in using battery brooders. Better brooding control helps raise more chicks. We fixed over an old the state of the state of

board to make it warm. Now we can put 1,700 chicks in batteries at one time and keep them warm with one oil stove and a creutainty fatory for the first three weeks. They are kept away from their droppings, given clean water and plenty of good feed. And then comes a change. They are taken out to the brooder houses. In the battery that the control the brooder houses. In the battery have not had litter to seratch in. He room temperature was uniformly alike.

Out in their new home they have daylight. Hiter and different heat zones, depending on how far they wander from the brooder. Hitter and different heat zones, depending on how far they wander from the brooders was not story to be a support of the control of the contr

their surroundings.



The girls from Poultry Tribune's office staff are auxious to come out to PT Experimental Farm around broading time. They like to take the fluffy chicks out of the chick boxes in which they arrive from the batchery and place them in the battery brooders.



CATALOG **Neuhauser Chick Hatcheries** COLORS & Master Breeding Farm Napoleon, Ohio Box 107

CAL-COD Process DRIED

#### COD LIVER OIL

Eliminates messy mixing. Gives greater results.

#### CAL-COD-

gives quick growth for chicks. Heavy body-weight for pullets; Surprising in-creased production and bigger profits. Every package guaranteed by satisfaction or refund.

Write for circular 1-B

#### CAL-COD PROCESS CO.

Wappingers Falls, N. Y.



#### LAMONAS

Lay Chalk White Eggs. Fine Meat Birds like Ply. Rocks. You'll like Lamonas. Get started this sea-S. E. RAYMOND, Route 2-T, Chardon, Ohio



THOROBRED · BLOOD-TESTED Buy our Master Bred Chicks. They cost you no me had for high eag production, large eggs high roll of the property of the whole of Wyandottes. Minoress, Orpingtons, Clintts, Ancon no. Low prices, Ges discounts, catalog, replacement Guarant CLOVER VALLEY POULTRY FARM



(PT Experimental Parm Plato)
At about ten weeks of age the pullets can be
taken to the range and placed in range
shelters. If the teeather is still quite cold
the range shelter may be covered with a
tough sind or building haper to protect the
pullets from the cold wind.

OTHING that I have used is quite as nice to teach chicks to reset as sections or rames covered with hardware cloth on which are tacked small wood strips or perches. The manufactured ones have dropping pars underneath, also adjustable legs. Larger ones can go entirely across the back end of the room, and be raised up at the back side a little at time until chicks are all rooting. Experimently here at Poultry Tribus Experimently here at Poultry Tribus Experiment of the propers of the semicircle at the right distinct form the store as a "back stop" and the chicks fill in the space in a "balk moon" and cause no trouble at all. When they will locate themselves where they will be comfortable all night it is best not to disturb them. The stove one is using, of course, plays an important

one is using, of course, plays an important part in uniform temperature during the night. Sometimes broods will spread out nicely over the floor and begin roosting a few at a time just on ordinary perches. There is a over the floor and begin roosting a few at a time just on ordinary percles. There is a certain time, five or six weeks with Lexhorns and six to eight weeks in heavier breeds, when chicks will roost quite readily, but if allowed to pass this stage without being supplied with percles of some kind they form the habit of floor roosting and it is extremely difficult to break them. In fact, I have seen dual purpose breeds spend most of their first winter in the laying house determined to stay on the floor every night. Such hens are usually floor layers also.

assually floor layers also.

ANOTHER menace in brooding is cannibalism. Two principal factors in starting this habit are high temperature and poor venication. One reason people flook to modern cause of controlled temperature, proper than the properature of controlled temperature, proper than the properature of the properature, proper than the properature of the properature, proper than the properature of the properature and would often serve its purpose if there was no show. High, dry temperatures and foul air very soon make chicks nervous and start "action."

Once started other steps must be taken. Painting the windows with a special red preparature to the properature of the chicks are such as the properature of the chicks and sense that the properature of the chicks and sense that the particularly when wire floors are used, may, one or all, help. A lot of people use a black tar product which also may make a dirty looking brood and is not nearly as effective as a red blood resembling substance.

nearly as effective as a red blood resembling substance.

Others feel that the feed lacks protein, but I am sure that any of the good brands of prepared mashes or special chick formulas of prepared mashes or special chick formulas Circumstances vary but I like to take pullets to range at about ten weeks of age. The old system was, of course, to keep complex powers out on range during the entire spring and summer, causing a lot of extra steps. The next system was to keep houses handy until chicks are started and them move house and all to range. I like much better to keep them centrally located, and move the chicks instead to open roosting sheds, which we call range shelters, where they get an abundance of fresh air.

They should always be taught to roost be-

They should always be taught to roost be-fore going out and if early in the spring, or if the weather is stormy, tough building paper can quickly be put around two or three sides for protection. The range shelters are light, easy to move, and very practical.

### Big Type-English S.C. White Leghorns

The Ideal White Leghorns for Commercial Eggs



#### HIGHEST HEN - ALL BREEDS KANSAS NATIONAL EGG-LAYING CONTEST

BRED AND OWNED BY ROSELAWN POULTRY FARM DAYTON, OHIO

#### Roselawn Pullets Leading All Leghorns at Maine Egg Contest for 1934

Egg Contest for 1934
A Pen of Roselawn Pullets is leading all Lephorns to date at the present Maine Egg Laying Contest. This past February was one of the coldest months in years was one of the coldest months in years (Quincy, Illinois, 1933. Highest Lephorn Hen at the last Kansas Contest and second highest Lephorn Hen for all U.S. standard contests for the year. Many other high official records at New York, Georgia and Storrs, Connecticut. More than 300 official awards in past three

Big Lop-Comb Birds bred for Egg Production Egg Size Chalk White Egg Color Vigor and Livability

power is the time to prepage to grade this moth. Government reports showtow storage age holdings, lew fresh edg goldings, lew fresh edg goldings, lew fresh edg goldings, lew fresh edg futures uponed 20%, singher than last year. Every indication points to increased age profits for wide-awake positrymen.

#### We Import Direct from Tom Barron

For 13 consecutive years we have imported Pedigreed Birds direct from Tom Barroi's best official record Bloodlines. Each year these imported birds have been skillfully blended with our own bloodlines to maintain High Vigor, High Livability and the REAL type of commercial egg layers.

#### Roselawn-A Well Established Pedigree-**Trapnest Breeding Farm**

Roselawn is one of America's largest and best established pedigree breeding farms. We breed this one strain of HEAVY Layers exclusively—no other breeds. When you send your order to Roselawn you can depend upon high quality and prompt business-like attention to your require-

#### All Matings Headed by Imported Pedigreed Males or Males from Our Best Record Dams

Every Roselawn Mating is headed by an Individually Pedigreed or Pen Pedigreed Male from one of our best Dams. All our Individually Pedigree Matings are headed by Pedigreed Imported Males direct from Tom Barron. All Breeding Males are either imported or close relatives to imported stock.

#### Roselawn Baby Chicks and Eggs for Hatching

Three groups of fine Matings for you to choose from. We recommend chicks from either of our two lowest priced matings for practical Commercial Poultry Raisers, Our customers, for years, have obtained fine results from these matings. Our prices are very reasonable for Roselawn quality. Why shop for bargains when a reliable, well managed Breeding Farm like Roselawn offers you Price, Quality and genuine personal service? We gladly ship C. O. D. If requested. Immediate Delivery. Write us your wants today.

Send for Free Catalog and Special Discount Prices on Roselawn Chicks and Eggs

#### ROSELAWN POULTRY FARM

· Route 10-A

DAYTON, OHIO

References: Dun & Bradstreet, or any Dayton Bank Certificate of Compliance No. 213

		YADDAY

#### Roselawn Poultry Farm

Route 10-A, Dayton, Ohio Please send me your Catalog and Special Discount Prices on Roselawn Chicks and Egys. Also Report on Egg Prices for next fall FRED.

Name	 OTT. 12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Address	 

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#### FREE Bookiet **Tells How to Stop** NEEDLESS POULTRY LOSSES

OLD standards of poultry house O construction may be robbing you of hundreds of dollars yearly. Sidings that are not weather-tight, floors that are damp, roofs that leak, do more than cause rot, rust, and spoilage. They also cause production losses of eggs and meat, increase the cost of feeding, and multiply losses from disease.

Now is the time to re-roof, repair, or remodel. Protect your poultry buildings against fire and stop needless losses with genuine RUBER-OID Shin-gles, Roofings and Weather-proofing Products. Our free booklet

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ACTICAL SUGSES

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ARKE B. ARKED KOCK

AMERICA'S OLDED KOCK

Known strain of Rocks that
LAYED their way into POPU

ARKED HIS HOUSE AND BRST

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#### MASO

INSULATING AND SHEATHING BOARD Protects against THE AGASOTE MILLBOARD CO.



#### Dr. L. E. Card



Reviews

#### 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 frem in their pourity rating 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. E. Card, head of the pourity department, University of Illinois. —Editor.



RICE By-products in Poultry Rations. In some of the southern states rice by-products are readily available at reasonable prices, and it is important to know to what extent they may be used in poultry rations without having an unfavorable effect on the foods. A summer of the production of the product statements:

1) Rice-fed hens produced as well as hens

1) Rice-ted hens produced as well as hens on standard rations, when rice by-products comprised up to 25 per cent to 35 per cent of the total ration.

2) Rice bran (of good quality) or rice polish, or the two together, may be used to replace wheat by-products, ground oats, or not to exceed laid of the yellow corn meal in the control of the produced ratio.

laying mashes.

3) When cheaper in price, rough rice or brewer's rice may replace wheat or corn to the extent of one-third to one-half of the scratch

execution of otherwise the service feet in the grant of the gas from rice-fed hens are excellent for market and they keep well in storage. 5) The eggs from these-fed hens are as large as eggs from hens fed standard rations. 6) The use of rice by-products in the rations of breeding birds does not impair in any way to be considered to the breeding of the hatching quality of the products of the product of the hatching quality of the product of the product

onditions but with no rice by-products in the

ration,

8) The body weight of laying hens receiving rice by-products in the ration compares favorably with that of hens receiving no rice by-products.



CROSSING Exhibition and Production Rhode Island Reds. How to combine exhibition and production quality in the same individual is a problem confronting many breeders, especially those who are keeping particularly and the same particular of the same particular of the same particular of the same particular of the same planned to find our production. The same particular of the same planned to find our production-breed Rhode Island Reds which the production-breed Rhode Island Reds which the Station had developed.

the production-bred Rhode Island Reds which the Station had developed. According to Dr. F. A. Hays, who carried on the work and prepared the report for pub-lication, the data indicate that early sexual maturity behaves as a dominant in crosses between early-maturing production-bred and internaturing exhibition-bred Rhode Island

Reds.

High intensity and winter pause also be-haved as dominant traits. Broodiness was increased by crossing, probably by the intro-duction of one of the essential complementary genes from each strain.

The inheritance of persistency was not so



Mr. Geo. W. Cox. ton Chick sold.

-9

BLOODTESTED BRED for EGGS

Sendfor CATALOG COLORS

Over 1,000 clots know this trow slowe - best storp of real profits with South Kenton Chicks. My beautiful new catalog tells the complete court six point breeding program, tells how 1 probe layers of hig. top price eggs, gives you information at the court six point process. The court is the court six point of the court is the court of the court properson. Send for this beautiful book now. Learn the facts have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have brought auccess to Mr. Damschroder, of White Silient have been dealered the court of the co Over 10,000 folks know this

SOUTH KENTON POULTRY FARM GEO. W.COX, OWNER KENTON BOX ONIO



EW, patented, two-nozzle, life-time, all-purpose rarser. Effortles to operate. Yet sprays continue in the processor of the modernation of the modernation of the modernation of the patents of the patent

outdoor use. S1.85 at hardware dealers. or sem. C. O. D. anywhere in U. S. Worth S5.00. Guaranteed as represented or money back.

FREE With each Sprayer, bought direct or through dealer, enough standard concentrated bouttry spray, recommended by State Experiment Stations, to make 6 gal. of complete spray.

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M''r's of Famous "GO-Nex" & "GO-4" Insecticides
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#### Wyngarden BLOOD Leghorns

Farm Tested for Profits



Send for New Low Prices

WYNGARDEN R 10 Zeeland, Mich.



ONLY \$1.25 RITE-WAY METAL PRODUCTS CO.

Box 400 Saranac, Mich. clear, because there was an excess of non-per-sistent daughters over the number expected on the basis of this character being a simple

on the basis of this character being a simple dominant.

Annual than in the production-bred strain, in the production of eiving sunlight only through ordinary win-

dow glass.

When hens received both direct sunshine and cod liver oil, the copper content of the yolk was increased but the iron content was

#### Plans for Egg Cooling Cabinet

PT bus arranged with R. B. Treat, manager of the Wooster Egg Auction, for a plan of an egg cooling cabinet. A service leaslest is now available, and it may be had from the service department of PT for a 3-cent stamp. See page 23.

decreased in comparison with bens receiving

decreased in comparison with hems receiving similiar only through window glass. It appeared that sunshine and cod liver oil together had a cumulative effect on copper content but antagonistic effects on iron content of egg yolks.

Legs produced by hems receiving god liver legs yolks a higher percentage of from receiving both cod liver oil and sunshine, while they do that had dit hose produced by hems receiving both cod liver oil and sunshine, while these in turn showed higher values than did those from hems allowed open bluegrass range and cod liver oil. Such content of the content of or bluegrass. VVV

or bluegrass.

PREPARED Roll Roofings for Poultry Houses. A recent publication of the loward Agricultural Experiment Station reports the results of an extended series of observations results of an extended series of observations and roofings. The manufactures was purchased in the open market. Both weathering and laboratory tests were made, and some interesting and valuable facts.

The average life of the samples of roofings laid on the south slope of a test roof was logars in contrast with over 13½ years for logars in contrast with over 13½ years in contrast with over 13½ years in contrast with over 13½ years to the same samples laid on the north slope.

The weathering tests revealed that: a) the sum was the most destructive agency; b) the wind became very destructive when the roofing; c) slate and fine sand of mineral surfacing were retained much better than coarser sands or pebbles; d) the application of an asphala roof paint prolonged the useful life of the roofings.

Pitch knots and other defects in the sheather of the roofings.

of many of the roomigs.

Pitch knots and other defects in the sheathing, and improper nailing, reduced the useful sign, and a result of the laboratory tests, it was concluded that the durability of prepared roomings varies; a) directly with the roomings are signed to the rooming at task of the rooming and the rooming at 149° F; and c) directly with the amount of mineral surfacing on the rooming. Adequate framing and bracing, to prevent assigning of the rooming and bracing, to prevent seguing of the rooming and the rooming of any necessary repairs, will prolong the life of roll roomings.

AS THE CHICK IS FED





#### **GROWS THE**

Let's X-ray the facts about chick feeds. The Pratt Poultry Let's X-ray the facts about chick feeds. The Pratt Poultry Experiment Farm has conducted exhaustive tests with vari-ous starters and chick foods. Illustrated above is one of them. Two chicks...identical in breed, strain, incubation and care...were fed different starters. A ate Pratts, B was fed an ordinary chick food. Here, the X-ray shows the effects of the foods upon the abdominal or layting expective of the mature birds. A is profitable. It is a liability.

Trap nest records show B layed 53 eggs less than A. Think it over. You can't profit on catch-penny purchases of inferior foods. And it's foolish to run the risks when Pratts costs so little. Stunted runts, bowel trouble, leg weakness, and diarso little. Stanted runts, bowel trouble, leg weakness, and disrihea are often due to deficient, unbalanced foods. Play safe. Use Pratts Butternilk BabyChick Food, or if you prefer that method of feeding, Pratts Butternilk ALL MASH Surter and Grower. Both are pure, digestible, whoseome foods to reinforce with every necessary viamin. scientifically balanced in minerals... giving every tiny nerve, muscle and bone the diet needed to grow strong, busky pullets.

See your dealer today. Ask for Pratts. You can buy Pratts now for just about half of what it cost in 1928.

#### Bargain!

Harry Law Less than 100 lbs. Gustead of the use and 120 lbs.) of starter is needed per 100 chicks. You then aswe money by cheen Prutts Buttermilk Growing Mash. Pratts Chick Food costs so little, we will even ship a 100 lbs. bag, freight pre-paid, to any station East for \$3.55. Price as dealer's store considerably lower in most sections. If no dealer meer, send

If no dealer near, a PRATT FOOD CO., Dept. 588. 124 Walnut St.. Philadelphia, Pa.

When your chicks reach the grow-ing stage change gradually to Pratts Buttermilk Growing Mash

# BABY CHICK FOOD

# MINERAL BALANCED . VITAMIN COMPLETE

#### BLOODED ----HAVE NO SUPERIOR-

We Operate the LARGEST Incubators in the World

Every breeder 's hatch from is Hogan-tested for high egg production, closely culled for stand-ard requirements and blood tested by the whole blood Stained Antigen test. All reactors removed under our own supervision.

room is rusque.

14-DAY LIVABILITY GUARANTEE

15-DAY LIVABILITY GUARANTEE

15-DAY LIVABILITY GUARANTEE

16-DAY LIVABILITY GUARANTEE One replacement will be made on any losses other than fire, rats and 100% live and prepaid delivers to any point in the United States, can tains, OR WILL SHIP BALANCE C. O. D. PLUS POETAGE IF SO DESDIACOMPANIES Order.

Day-Old Chicks
Wh. Bf. Br. Legaerns.
S. C. Anconas. AA Grade (Special Selected)
50 100 500
\$2,25 \$3,75 \$ 6,50 \$32,00 S600.00 in CASH PRIZES will be riven away to 103t customers. BIG F1 R S T PRIZE OF S125 AND 62 OTHER CASH PRIZES. S. C. Anconas.
Bd. Wh., Bf. Rocks.
Bf. Orps., S. C. Reds.
Wh. and S. L. Wyandottes.
J. B. Gjants
S. C. Wh. Minoreas.
White Giants
Heavy Mixed Breeds.
Assorted Light Breeds. \$2.75 \$3.75 \$ 7.00 \$34.50 \$68.00 \$3.50 \$4.75 \$ 8.50 \$42.00 \$81.00 .... \$2.00 \$3.50 \$ 6.50 .... \$1.80 \$3.35 \$ 6.30 \$32.00

Write for our beautiful four-color-plate catalogue, which is full of necessary information every poultryman should have.

THORNWOOD, CRANDALL, INDIANA

#### Well Nourished 'Babies' Become Profitable Hens

Woman Takes "Guess-Work" Out of 30 Years Poultry Raising

"As EVERYONE knows who has raised baby chicks, the great task is to main-tain the vitality of the flock during the early stages of growth. Nopco XX has lowered my losses to less than 3%.

"At eight weeks cockerels are fat and ready for market—some with large topped combs—all better than average size. Pullets at eight weeks are all good sized and fully developed—look like little hens ready to lay.

"The benefit to my laying hens from the Norco XX feeding is incalculable. My hens are laying bigger eggs over longer periods of time than I have ever been able to get from any flock before. And I have been in the business over 30 years. And as I have said in the out-line, every egg is fertile for hatching. producing strong healthy chicks. And for eating purposes superior to the ex-tent that I have been able to get from 5 to 10 cents above market price from special orders that many times ex-ceeded my ability to supply.



Smashing Winnings at N. Y. State Contest Leaders in Five Different Ways
Here are the ratings of Redbird

lested for B. W. D. (pullorum date Experiment Station using Tul

tination Method.

FREE Replacement of all Chicks lost in excess of 2%, during first 4 weeks or we will make east refund if you profer. A real breeding farm, carrying 30,000 breeders. We do not buy eggs from other poultrymen.

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VERY COMMENDABLE is the effort of many breeders of poultry who, enter their birds annually in official egg laying contests. Such breeders not only secure an official check on the accuracy of their own home records, but they also give official evidence to poultry raisers everywhere that they are outstanding

raisers everywhere that they are outstanding breeders. This year Poultry Tribune will again re-sume an annual trophy award to breeders

Poultry Tribune announces two outstanding egg laying contest awards to be made at the close of the 1934 standard egg laying contests!

entering pens in standard egg laying contests. A beautiful silver loving cup will be awarded another to the highest heavy breed pen in standard egg laying contests for the year 1934. The award will be made on the basis of the highest seek record using the point system of secring to determine the highest

THERE ARE TWO kinds of egg laying contests.—the standard contest and the non-standard contest. Poultry raisers who find it difficult to understand the difference in egg laying contest terminology will be interested in Standard egg laying contests start October 1. are supervised by official agencies such as state agricultural colleges or state departments of agriculture, and the awards are based weight as minimum of the proposal state. The supervised by official supervised by of

istic.

If a contest does not meet all of these re-If a contest does not meet all of these requirements, it is rated as a non-standard contest. The Storrs, Connecticut contest, to example, which is recognized as the oldest egg laying contest in the United States, is operated by an official agency and uses the point system of scoring, but the contest opens Kovember I histed of October I. Since the majority of contest managers have decided that October is. He proper starting date, such other contests as are non-standard, which is the digible for the Poultry Tribum utilization of the digible for the Poultry Tribum utilization.

A NUMBER OF very interesting letters have been received from poultry breeders in answer to last month's editorial entitled. "A New Breeding Test." Dr. C. W. Knox, geneticist, Burcau of Animal Industry, United States Department of Agriculture, calls it an R., O. P. progrey test.

States Department of Agriculture, cals it an The plan which Dr. Knox ontlines is a follows. "In this complete Record of Performance progeny testing plan, there would be two phases: first, inspection and gathering of a random sample of eggs to be shipped to a central breeding station; and second, the raising of a flock of pullets at a central breeding station. The inspector would be a public official and at all times the central breeding station. The inspector would be apublic official and at all times the central breeding station would be under his official management. The inspector would make two visits to the breeder's flock. He would band the birds in the fall as is done in the present R. O. P. work, and then he would 'again visit the farm for the purpose of collecting a representative sample of 100 eggs."

These eggs would be hatched at the central testing station and records kept on such points

testing station and records kept on such points as hatchability, rate of body growth, viability



Long before Codes were thought of the buyer of

Lore infore Cohe were through of the layer of Bubbland Chrise was allowed, professed, bully Hubband Farme. Guarance of "Pull Satisfar Inni-level Pull Satisfar Inni-level P

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



RECORD MAKERS in EGG-LAYING CONTESTS Kauder's Pedigreed Leghorns simultaneously he FIRST PLACE IN 3 CONTESTS: Central No York, Michigan and Western New York, Truly

and brothers children and grandchi-ing birds will bring profit to you regulates Cornell University.

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#### "Multi-Tested"

TESTED BULLETIN

TOWNSLEY'S Thorogood B. W. D. "Multi-Tested" chicks are profeeted by an unusual are profeeted by an unusual letin. Breeding flocks are tube tested for B. W. D. (Fullorum) three to five times year, by Veterinarians. Reactors breeds, reasonable prices, reasonable prices, reasonable prices, and the "Multi-Tested" story. A postal brimes it.

TOWNSLEY HATCHERY 141 Locust St. Wilmington, Ohio

Ship your eggs to us. We EGG have a place for them. We pay within 24 hours. 107 years

MARKETING 107 years in business.

Reliable-Responsible-Respectable Send postal for our Instructive Folder about Eggs—FREE

HUNTER, WALTON & CO. 166 Chambers St., New York, N. Y. up to ten weeks of age at which time the sexes are usually separated, age at sexual naturity, adult body sixe, incidence of broading, and mortality of the laying stock.

Such a plan, it is to would give a more representative of a breeder's stock. Poultry breeders, should be thinking about a contest of this character.

#### FEBRUARY REPORT

United States Egg Laying Contests

eds: Rhode Island Reds, White Leghorns, New Hamp-Reds, White Rocks, Barred Rocks, White Wyandottes, Island Rocks, Light Brahmas, Buff Leghorns, Minoreas, Exchequer Leghorns, Silver Wyandottes, Sach, Buff Orpingtons, Rose Comb Rhode Island Reds, White Giants, Laced Barnevelders, Blue Andalusians, Brown Leghorns, White Barnevelders, Lanonss.

#### Summary of Standard Contests

High Pen of Each Breed-Fifth Month

		Eggs.	Pointa to	
Breed	Contest	Date	Date	Owner
E. I. R.	Florida	1325	1390.00	. Parmenter's Red Fm
W.L.	Florida	1285	1352.30	Dixie Pl. Yds.
N.H.R.	Pennsylvania	1134	1176.45	Red Mt. Fm.
W.R.	Pennsylvania	1160	1159.00	Sus. Co. Breeders
B.B.	l'ennsylvania	1138	1145.55	Brenners Htch.
	Pennsylvania	985	1018.35	J. W. Kennady II
Attac	N.J. Vineland	868	887.60	Overbrook Fm.
Br.R.	N. Y. State	916	877.00	Far-a-way Fm.
Bra.	Maine	826	875.00	Mrs. M. M. Clarke
Bf.L.	Oklahoma	880	849.20	Wards Pl. Fm.
15.31	Pennsylvania	832	792.25	Colonial Pl. Fm.
	Florida	804	740.00	L. H. Day
	Florida	659	657.50	L. C. Gravles
B(0);	Texas	617	622.95	Mrs. M. Thornton
Age	Pennsylvania	699	613.00	R. S. Thomas
H.C.R.	South Dakota	550	523.95	Baldwin's Pl. Fm.
J.W.G.	N. Y. State	412	417.00	G. H. Price
	Maine	382	366.00	Hope Fm.
BLAnd.	N. Y. State	316	337.00	W. C. Dobe
J. B. L.	Oklahoma	343	317.65	C. W. Pevehouse
Carri	Texas	269	285,80	S. E. Raymond
	Maine	306	271.00	A. D. Arnold
	111 L 11	P	n	Web Me-et

	High Hen of	Each	Breed-F	ifth Month
CLR.	Maine	138	149.00	Lord Bros.
3.72	Rhode Island	136	146.30	Lewis Fms.
N.I.	Florida	136	145.75	Dixie Pl. Yds.
31.11	Rhode Island	133	145.35	Christie's Pl. Fm.
N.W.	Pennsylvania	121	129.90	J. W. Kennady II
6 R.	Pennsylvania	322	127.20	Sus. Co. Breeders
Nor.	Oklahoma	124	117.70	Overbrook Fm.
	Texas	114	111.30	Overbrook Fm. Mrs. M. Thornton
	N. Y. State	116	111.00	Far-a-way Fm.
				Ward's Pl. Fm.
d Bris.	Maine	101	108.00	Mrs. M. M. Clarke
				Colonial Pl. Fms.
Sch. L.	Florida	111	98.05	L. H. Day
	Pennsylvania	111	94.05	Ericksens Anc. Yd.
W.G.	N. Y. State	91	92.00	G. H. Price
c.C.R.	South Dakota	95	89.65	Mrs. G. M. Baldwi
W.	Florida	82	83.95	L. C. Gravlee
Barn.	Florida Maine Maine	80	70.00	A. D. Arnold
	Maine	72	64.00	S. E. Raymond
Barn.	Maine	57	58.00	Hope Fm.
LAnd.		51		W. C. Dobe
1.B.L.	Oklahoma	50	43.35	C. W. Pevehouse

#### High Pen of Each Standard Contest—Fifth Month Eggs Points

Control	Breed	Date	Date	Owner
Minne	R.I.R.	1325	1390.00	Parmenter's Red F
Donda	W.L.	1285	1352.30	Dixie Pl. Yds.
Howie Island	R.I.R.	1260	1322.60	Red Mt. Fm.
Journaylvania	W.L.	1319	1289.00	G. A. Leader
A. I. Western	R.1.R.	1208	1227 55	Pinecreat Orchard
Texas	W.L.	1207	1216.30	Erath Egg Fm.
Georgia	W.L.	1232	1206.60	T. D. Chapman
N. Y. Central	W.L.	1129	1155.05	Kauder's Ped. Leg
N.J.				
Hunterdon	R.I.R.	1135	1136.95	Kerr Chickeries
N.J. Vineland	R.L.R.	1146	1117.25	Louis Schaible
Michigan		1095	1094.65	Kauders Ped. Fm.
N. J. Passaic	R.I.R.	1064	1057.80	Chas, Lathrop
Oklahoma	W.L.	1077	1053 35	Jones Egg Fm.
Arizona	W.L.	1080	1050 70	A. C. Wrenn
N. Y. State	B.R.	1120	1023 00	R. C. E. Wallace
South Dakota	B.O.	600	582 20	Mrs. L. D. Larson
Mississippi	W.L.	538	559.70	Gulfkist Pl. Fm.

#### Summary of Non-Standard Contests High Pen of Each Breed-Fourth Month

Recol W.L. E.L.R. B.R. N.H.R. W.R. W.M. W.W. B.O. Aus. J.W.G.	Illinois Quincy*	876 792 753 452 431 353 252 337	P. S. Davis & Son Missouri C. L. Hohman Pearl Parker Overbrook Fm. Ajax Hteh.
	High Hen of Each Br	eed-Fe	urth Month

in Fourth Month

115 James Dryden

107 E. W. Mahood

108 Missouri

102 Hubbard Fms.

97 P. S. Davis & Son

96 Missouri

90 Pear Parker

92 Missouri

81 Missouri

10 Overbrook Fm.

Missouri State W.L. 857 Missou Missouri National* B.R. 488 James	basouri National*	B.R.	488	Owner C. A. Leader Missouri James Dryden Henrick's Leg.	F
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\*Only five hens to a pen.



#### **BIG TYPE WHITE LEGHORN CHICKS**

BRED TO LAY MORE EGGS
IG WHITE EGGS
IGGER PROFITS

Consistent - prolonged Egg Production Counts. FIGGER PROFITS

or 575 "eggs 4161 and winster and still at it," says 831, Grine, Archiold, Onio. Old ben breedere de with males whose dams and sizes dame had O. R. O. P. records of 225 to 231 eggs. 24 or. gas. and one of the order of the control of 225 to 231 eggs. 24 or. gas. and the order of the control of 225 to 231 eggs. 24 or. gas. dams. Additional Archivery of the Control of the Control of 225 to 231 eggs. 24 or. gas. and the control of 225 to 231 eggs. 24 or. gas. and the control of 225 to 231 eggs. 24 or. gas. and the control of 225 to 231 eggs. 24 or. gas. 245 eggs. 2

RUPP'S ARCHBOLD HATCHERY.

Box P. T.

ARCHBOLD, OHIO



BUCYRUS, OHIO Box 13.

# The Standard of Perfection

Indispensable To All Breeders And Judges of Standard-Bred Poultry

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—are coming in unsolicited, as they have from old customers for 16 years. The New Deal is the same square deal Buevrus customers have always .cered. B W.D. Pullorin test by our supervisor. Ask for literature and prices. Compliance Certificate No. 3717. BUCYRUS HATCHERY CO., Bex 526-B Bueyrus, Ohio

#### Do You Keep Records?

POULTRY RECORD BOOK—A complete and simplified bookkeeping system. Contains record sheets for a whole year. Everything fully explained, you can't go wrong. It pays to keep records, and this book shows how...\$.50 POULTRY TRIBUNE



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prove that merchandisers of poultry goods
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Cel-O-Glass is not only guaranteed for 5 years (you get guarantee at time of purchase), but it gives your chickens the benefits of ultra-violet rays, which ordinary glass and soiled cloth curtains bar out. Cel-O-Glass makes indoor brooding of chicks possible with maximum results,

prevents leg weakness, cuts down mortality.
This new, improved Cel-O-Glass has a tougher, heavier coating. It will not break like glass or tear like cloth. Send for free sample and blueprint. Cel-O-Glass is also used on cold frame and hot bed sash—saves labor, breakage expense; gives earlier, stronger plants.

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rery breeder is bloodtested for B. W. D., by tigen Method. Don't buy chicks until you eived our educational literature and new list. Write quick. It's FREE. C. O. Tippin, Owner Hatchery, Box 32, Mt. Blanchard, Ohio

West Chicago, III. Dept. D. Disinfect with Heat--2000°F.



HAUCK MFG. CO. . 115 Tenth St. Brooklyn, N.Y.

#### Sold 'Through Co-ops

(Continued from page 8)

(Continued from page 8)
highest bidders. Other auctions have since been established in New York, Pennsylvania, Connecticut and Ohio.

The finest eggs sold on these auctions was several cents more than the usually bring several cents more than the market. This is because the auctions have stressed the production of high quality eggs to their members, and the majority of these eggs are bought by route men for direct marketing to city consumers.

The constraint of the continuers of the continuers

about the feet of the foldy amount of armin about per cent of the foldy amount of the foldy amount of the feet of

#### Light In Range Shelter Protects Growing Pullets

Protects Growing Pullets

We use summer-shelters for the pullets on range, and it often happens that stray dogs, and it often happens that stray dogs, wire sides of the shelter at night, throwing the flock into confusion. This tends to keep the birds nervous, and hinders development, but during the past two seasons we have solved this problem by using lights.

From the ceiling of each shelter, out about three feet from the percles we happe a kerosene lantern. The lantern is lighted excessene lantern. The lantern is lighted excessene lantern to the problem of the problem

We also find the lantern helpful in teachwe also find the lantern helpful in teaching the pullets good roosting habits, and it provides considerable protection against thieves. On certain occasions, especially in late summer, we have turned the flame bright and placed mash-hoppers inside the shelter, thus allowing late maturing pullets to eat at might—F. R. Cozzus, Ohio.

Nett judges . more prize money . . more energis . . these are the outstending things about Poulry Tribbur's Seventh National Chick Growing Contest. Page 12. Paste the conjon on a postcord and send it today to Chick Growing Contest Manager, Poultry Tribune, Mount Morris, Illinois.



Please refer to Service Leaflet Box, page 23

#### Ship Your Baby Chicks in FEED-O-BOX BROODERS



Teaches Chicks to Eat and Drink

famous Feed-O-Boxes are chick shipping hoxes neverted to starting brooders on arrival of chicks. will deliver and brood 100 chicks for three days icks for ten days. Save your customers work, onese. Feed-O-Boxes cost no more than ordinary force the catra service to your customers. Send for age Catalog of Hatchery and Pouttry Supplies ANDERSON BOX CO... Dept. 100.



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

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ghtly higher prices, 10 other varieties. Free e on request.

Ace Supreme Mating Chicks guaranteed against days or replaced free. All prices postpaid to or; nothing more to pay. Prompt delivery, experience, Customers in 43 states. Over 3 hicks sold last season. Send your order now to Haves Bres. Hatchery. 72 Haves Building Decator III

Good News Belle City Incubators & Brooder ter & Electric. Prices at ill Belle City Incubator Co., Box 167, Racine, Wis-

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t pob brought \$79.60. rmed \$88 clear profit rite TODAY while Home Service Co., 504 Dr., Racine, Wis.

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Poultry Tribune

Mount Morris, Ill.



BUCKLINGS Also Turkey Poults. Baby Chicks. Illustrated Catalog tells how to raise ducks for PROFIT. Sent free.

The Bidgway Duck Hatthery, Inc. Box 21





### Your FEED DEALER Has It

IN THIS age of conflicting authorities, on whom can a poultryman rely? Common sense alone will tell you. Ask yourself this question: Who is most interested in my success? The answer will bring you directly to your feed dealer.

His own success depends upon yours, his satisfaction comes from dealing with prospering, satisfied customers. Therefore he has developed a strong, friendly interest in your prosperity. He is a man you can trust.

Steer clear of flitting, fly-bynight enterprises. They thrive on the single sale and often do not care what happens to the cus-tomer. But your dealer is tied to your community just as you are. He needs your repeat sales, which will only come when he has won your confidence by fair treatment and honest values.

Ask his advice. Let him give you sound, practical help in building up an economical, intelligent feeding program. He too is involved in your problems of flock health, production records, and yearly profits.

### ALLIED MILLS

INCORPORATED FORT WAYNE, IND.

### Nourse Reelected President Of A. P. A.; Hale, Vice-Pres.

Peoria, Ill.-H. A. Nourse, St. Paul, Min-Peoria, III.—H. A. Nourse, St. Paul, Min-nesota, has been reelected president of the American Poultry Association in the biennial election, held during the results announced by Election Commission O. L. McCord, here. Nourse defeated H. V.



O. L. McCord, here Nourse defeated H. V. Tormohlen, Portland, Indiana, and Frank E. Buck, Oklahoma City, for the position, Grank of the Company of the Compa

### Land Bank Lends \$10,375,800

St. Louis, Mo.—Farmers of Arkansas, Illinois, and Missouri received \$10,375,800 in 3,680 land hank and commissioner loans from the Federal Land Bank of St. Louis during February, according to F. W. Niemeyer, deputy general agent of the Farm Credit Ad-

February, according to F. W. Niemeyer, deputy general agent of the Farm Credit Administration, here.

This sum loaned in only 23 working days not only established a new record for loans tosed in a month's time by the Federal Land class for \$1.100.800—the first million dollar day in its. history.

This sone day's lending is twice as great as the amount loaned during the entire year of 1952.

"Ten million dollars loaned in one month indicates that the Land Bank has hit its strike after increasing the office and field which followed the passage of the Emergency Farm Mortgage Act." Niemeyer said.

"The effect of the lending of this money is beginning to be felt in every community." he continued. "It is a most important and essential factor in recovery and stiftying the hopes of its sponsors."

### Texas Chosen By Science Assoc.

College Station, Tex.—The twenty-sixth annual meeting of the Poultry Science Association will be held at the Texas A. & M. College, here, August 7-10, according to an announcement in the March issue of Poultry

annomement in the March Issue or Fourier Science.

Prof. D. H. Reid, president of the association, will serve as general chairman of the program committee, and he has appointed the following sectional chairmen on this committee: Nutrition, R. M. Sherwood, College Station, Texas; Genetics and Reproduction, Co. W. Upp, Baton Rouse, La.; Pathology and Parasitalogy, L. W. Taylor, Berkeley, Calif.; Extension, Berley Winton, Columbia, Mo.; Marketing, R. B. hompson, Stillwater, Okla.; and Teaching, L. E. Card, Urbana, Ill.

### More Interest In Electric Brooders

More Inferest In Electric Brooders
San Diego, Calif —The Pennsylvania State
Game Commission has been supplied with
more than one hundred electric brooders,
manufactured by Lyon Electric Company,
here, after a thorough trutch the control of the co



### Wayne CHICK STARTER Has It

GOOD START is half the A battle. And what deserves a good start more than your chick investment? If you can bring your chicks to maturity with low mortality, in splendid health, well grown and ready for heavy production, your investment is practically sure. To accomplish this, a really reliable feed is probably the most important single factor.

Wayne Chick Starter is really reliable. It contains the best ingredients that can be put together to take care of all the chick's feeding requirements through the first six weeks. The formula has been perfected by years of study on the part of nutritional experts. And it has been justified by years of outstanding success on poultry farms throughout the nation.

You've got good chicks; why stop there? Make the most of them by feeding them the best at the time when all they have to do is eat and grow. The more Wayne Statter they eat now, the more your profits will grow later on. There is a Wayne Dealer near you. Get in touch with him.

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Raise 2 pound broilers in 8 weeks 

RAISE 90% TO 97% OF YOUR CHICKS and have Earlier Laying Pallets, princip high-er priced Eggs. Poultry the Most Profitable Lies on the Farm. Increase your income by raising MORE Chicks at no extra cost. "We are having wonderful took with the chicke placed in your houses" asys 18. 35. Thinks. Roselwer Poultry Tarm, Gerrage Cost, Reinco, Ollowshor Increase 2000 Chicks and applications of the Control Cost of the Cost of t

Your houses" asys H. M. Tiblais. Roselawn Pollify arms of Control Con







QUALITY MATINGS arred, White, Buff Recks, C. Reds. White Wyan-ottes, Buff Orpingtons, lack Minoreas. \$6,45 \$31,50

White or Brown Leghorns, \$6.30 \$31.50 ai Matings 2º a chick higher than Quality a. Famous Farrow Star Matings White Leg-e a chick higher than Quality Matings. Make ht start now by ordering from this ad, or write catalog. Add 1e per chick when ordering less

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ks in first hatch. Then hatch for others. Bargains in brooder stores.

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### De Hoff Tells Value Of Sardine Oil

De Hoff Tells Value Of Sardine Oil
San Francisco, Calif.—The value of sardine
oil as a source of vitamin D was discussed by
Fred De Hoff, F. E. Booth Company, Inc.,
here, in talks made at the poultry department
of the University of Illinois and also at the
Despois of the Sardine Sardine Sardine Oil
Despois of Sardine Oil
Later it was shown by De Bills, also by
Ackson and Maning of California was the first to discover the vitamin D potency of sardine Oil
Later it was shown by De Bills, also by
Ackson and Maning of California was the first to discover the vitamin D potency of sardine Oil
Later it was shown by De Bills, also by
Ackson and Maning of California was the first to discover the vitamin D optency of sardine Oil
Later it was shown by De Bills, also by
Ackson and Maning of California was the first to discover the vitamin D optency of the product of liver oil by
De Hoff stressed the importance of careful handling of all oils carrying vitamin D to breacy
capture full potency of the product. Also he brought
out the necessity for inlongically testing
vitamin D carriers of poultry feeding. product is to be used for poultry feeding.

### International Harvester Offers Valuable Prizes To 4-H Members

Valuable Frizes 10 4-H Members
Chicago, III.—Prizes aggregating \$7,500 in
value will be awarded to 4-H club boys and
girls in an interesting country-wide farm cost
accounting contest by the International Harvester Company, according to an announcement of the National Committee on Boys and
Griss Cirb Work, here, which will conduct

Girls Ctub Work, here, which will conduct the contest.

The prizes, numbering several hundred, will range from a small tractor or half-ton motor truck, or a \$500 merchandisc certificate down winner will receive prizes to the value of \$835. Each prize will be awarded for records to cover the entire business of an actual farm for 12 consecutive months, beginning not later than March 1, 1934.

Complete details and information on this Committee on Boys and Girls Club Work, 430 S. Michigan Avenue, Chicago.

## Few Hatcheries Able To Offer Japanese Sexed Chicks This Year

Japanese Sexed Chicks Ihis Year
Bellingham, Wash—Since federal immigration authorities have declined to grant the
request of hatcheries to permit Japanese chick
sexing experts to enter the United States and
perform this service, fewer hatcheries will
be able to offer day-old pullet chicks sexed by
this method than was first planned.

A few hatcheries in the northern part of
the State of Washington plan to take their
chicks into Canada for sexting by the Japanese
the Common for pullet chicks only, sexed by
this method.

### Dr. Maier Joins Merck Institute

Rahway, N. J.—The Merck Institute of Therapeutic Research, here, has announced the appointment of Dr. Eugene Maier as Chief Bacteriologist.

the appointment of Dr. Eugene Maier as Chief Bacteriologist.

Dr. Maier is a graduate of the University of Tuehingen, Wuertemberg, Germany, and completed his studies at the University of Tuehingen, Wuertemberg, Germany, and completed his studies at the University of the Chief Chief

### Winton To Work On Code Enforcement

Columbia, Mo.—Berley Winton, poultry extension specialist, at the University of Missouri, here, has been given leave of absence by the University to wook with the Agricultural Adjustment Administration in enforcing the hatchery code. He began his work February 1, and it is expected that he will investigate complaints which regional coordinators consider serious violations.

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Big Type English 5 to 6 lb. hens

Over 20 yrs. breed-ing assures you of the best in PRODUC-TION BRED Leg-

WINTERLAY WHITE ROCKS

Chicks from our EGG BRED White Rocks will please you. We spec Bloodtested for B. W. D. will please you.
Bloodtested for B.
Chick prices very r

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Years on the market. Always double tested for Vitamin potency Write for name of nearest dis

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"Pioneers in Vitamin-tested Cod Liver Oil"

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Ilterature. Tells all about these profit producing leghorns.

WYCKOFF'S GRANDVIEW POULTRY FARM

Box II-B

AURORA, N. Y.

### Are You Going to Move?

Any change of address should be reported well in advance DIRECT to Poultry Tribune, NOT to your postmaster, or a sence. Magazines will not be delivered or forwarded if incorrectly addressed. Help us keep our mailing list correct. Poultry Tribune, Mount Morris, Ill.

### Hens Need Grit To Lay Heavily Under Intensive Conditions

Under modern conditions, hens are forced to lay many times as many eggs as they would naturally if they were running wild. In order to provide shells for these eggs,

In order to provide shells for these eggs, hens need a much larger supply of lime than is provided in the ordinary grain and other feedstuffs. For this reason, poultrymen provide extra lime in the form of oyster shell or ground limestone, or other calcium products which provide a readily soluble form of

incs when provide a reamy sounder form of lime. addition, many poultrymen provide a relatively insoluble grit which aids in grind-ning food in the gitzard. Still others use an intermediate product which is slowly soluble, thus providing a certain amount of minerals, and, at the same time, does give some help in

and, at the same time, does give some neip in the grinding operation.

Many feeding experts feel that birds which have a grit available to aid in the grinding make more efficient use of their feed and remain healthier.

### Cross Breeding Offers Chance To Get Chicks All Of One Sex

To Get Chicks All Of One Sex

"During the past four or five years, considerable interest has been attached to the cross mating of certain types of fouls for the cross mating of certain types of fouls for the cross mating of certain types of fouls for the cross mating of certain types of fouls for the cross type observation of the down color," states for the cross type observation of the down color," states for the cross type of the cross ty

birds.
"Another combination, using the Silver-Gold cross, would be found in the use of a Rhode Island Red male with Columbian Wyamdotte or Light Sussex hens. The resultant



A 10-weeks old cockerel from a cross of a R. I. Red Male and a Barred Rock female.

chicks will be easily distinguished as to sex. The pullet chicks will possess a deep reddish down color and the cockerel chicks a silvery, yellowish white down color. Another example yellowish white down color. Another example would be the use of a Brown Leghorn male with Columbian Leghorn hens.
"Pullets from such crosses are not to be trapnested or selected for breeding stock. The

traphested or selected for breeding stock. The original crosses must be resorted to each year. Remember, also, that pullets from such crosses will be economically valuable in measure as both parents possessed egg production ca-

pareity.

"Hybrid vigor is usually noticed in this cross-breeding work, but it cannot take the place of selection for those characteristics indicative of egg production capacity."

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Rastus: "Dat fool doctah done tole me to eat nothin' but aigs, an' t' go to bed ebery night at 9 o'clock." Sam: "Boy, yo' sho is gwine on a perm'nant fast."

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Achina The & Hubber.

An Electrica Structure of the Achina The Ac

While every precaution has been taken in the preparation this index, we do not guarantee against possible errors omissions.

### Fire Can Be Used To Disinfect Brooder Houses and Equipment

In preparing brooder houses and brooding equipment for use this spring, it is extremely important that it be thoroughly cleaned and disinfected. This also is necessary at intervals during the brooding season and between broods.

disinfected. This also is necessary at meeting and the product of the place of through Nothing will take the place of through Ceaning. Brush down the ceiling and walls, and serub the lower walls and floor. Hot water, with a can of by added to each 10 gallons of water makes an excellent cleanser. In disinfecting houses and entityment, distinction of the product of



The intense beat produced by the fire kills all germs. It is especially value in fighting coccidiosis.

disinfecting. Of course, on concrete floor-and runs, or on metal equipment, there is no danger of fire work on the same principle as Fire guns work on the same principle as an ordinary blow torch, but instead of gaso-line, they operate on kerosene, making them less dangerous and more economical to op-

dess dangerous and more economical to op-erate.

A torch also has many other uses on a farm. It can be used to burn weeds, to dry out damp floors and cellars, and to burn dead birds. Its principal use, however, is in dis-infecting houses and equipment, for which it is admirably adapted.

### Keep Them Dry!

Dry litter on the floor is one of the most important aids in raising healthy chicks, for disease germs thrive in moist, damp places. While straw is widely used for litter, it tends to become damp and packs very easily. Most poultrymen like peat moss, out hulls, ground corn colso, or similar dry materials for litter.



### Dr. Jull Next Month!

MONTH:
Thousands of poultry
raters are plagued with
high pullet losses, Next
month, Dr. M. A. Juli,
Senior Poultry Husbandman, U. S. D. A. will
present an article, "Common Sense in Controlling
Pullet Mortality,"

Frame houlter vaice, will Every poultry raiser will be glad to bave this in-formation from this na-tional authority.—Editor

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this month the editor has picked from among the free kieles offered by advertisers those which he feels are most interest and help. Want any of them? They controlled the state of the stat

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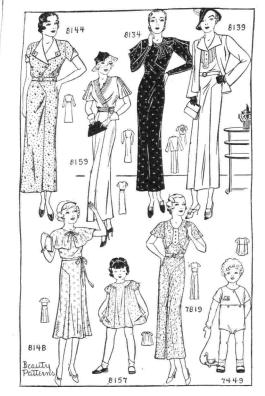
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