

# KANSAS FARMER

For the improvement of the Farm and Home

Volume 52, Number 6. TOPEKA, KANSAS, FEBRUARY 7, 1914. Established 1863. \$1 a Year

**L**ET other bards tune up their lyres the eagle's praise to sing, and for the strutting turkey cock put on an extra string. Let lovers boost the mocking bird, the linnet and the wren; but as for me, my theme shall be the good old helpful hen.

Triumphant is our lordly land, our sons are staunch and brave, our banner floats in every clime, our commerce rules the wave, our kine are on a thousand hills, our crops fill glade and glen; but over all sounds one clear call—the cackle of the hen.

Oh let them prate of kingly crowns for cotton, wheat and corn, and for the fat and haughty steer toot loud the bugle horn. And let them boast of gems and gold, fair dames and gallant men; but what were they without thy lay, oh billion dollar hen.

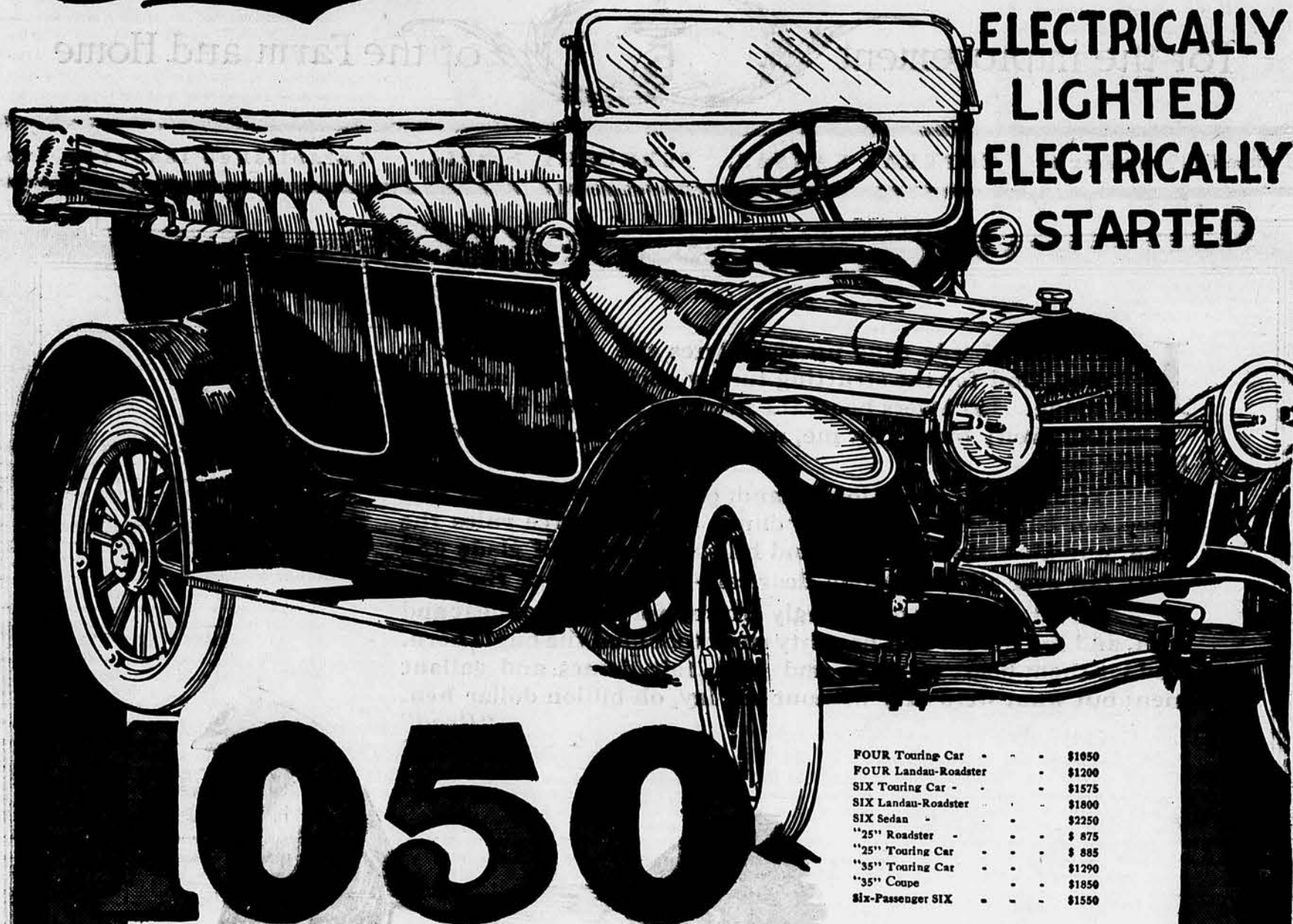
—“Brad”



*The Billion Dollar Hen*



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# KANSAS FARMER

With which is combined FARMER'S ADVOCATE, established 1877.

Published weekly at 625 Jackson St., Topeka, Kansas, by THE KANSAS FARMER COMPANY.  
ALBERT T. REID, President. JOHN R. MULVANE, Treasurer. S. H. FITCHER, Secretary.

T. A. BORMAN, Editor in Chief; G. C. WHEELER, Live Stock Editor.

CHICAGO OFFICE—604 Advertising Building, Geo. W. Herbert, Inc., Manager.  
NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.

Entered at the Topeka, postoffice as second class matter.

GUARANTEED CIRCULATION OVER 60,000

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#### SILAGE VERSUS CORN STOVER.

The cattle feeder who last May simply looked over the different lots of calves at the close of the wintering test at the Kansas Experiment Station, failed to reap much benefit from the results of this experiment in comparing different methods of wintering stock calves. It was remarked by a number of those present that the calves fed the dry corn stover looked fully as well as the silage fed calves. The inference drawn by some of these superficial observers was that the use of silage meant nothing in the wintering of stock cattle. Even the figures showing the gains secured on the different lots seemed to bear out their conclusions. These fodder calves made gains fully equal to those made by the calves in the silage fed lots. This result might have been expected since the corn fodder fed was of extra good quality. The fall of 1912 was especially favorable to the handling of shock cured corn stover. Such favorable conditions do not always obtain, however. The fall of 1913 has probably been one of the most unfavorable falls for the handling of fodder in the field and as a result much of the feed so stored has become almost worthless.

The close observer in looking over these calves at the time of the cattlemen's meeting in May, might have noticed that in the pens where stover was fed there had accumulated a great pile of corn stalks. In the silage fed lots there had been no such accumulation of rejected feed and it had been necessary to keep these lots bedded with straw in order to keep the cattle comfortable. The labor incident to bedding these cattle would undoubtedly be balanced easily by the greater amount of labor involved in cleaning out yards where large amounts of rejected corn stalks had accumulated.

These calves were placed on pasture at the end of this test and while the Experiment Station was unable to retain ownership in them, arrangements were made whereby they were weighed by lots at the end of the pasture season. These figures were secured and many of the cattlemen present were furnished with the results. Various papers also were supplied with the figures showing the gains made by these different lots through the summer season and likewise summarizing the gains and their cost for both winter and summer. These figures printed without comment, as was done by most of the papers, again led the superficial reader to conclude that there was nothing in the use of silage as a wintering ration for stock cattle. It has been reported to KANSAS FARMER office that in some sections comments are being made by cattlemen to the effect that the experiments at the Kansas Experiment Station are showing that dry corn stover gave better results in wintering cattle than silage.

In a recent issue of KANSAS FARMER the figures above referred to were published and some comments were made in the way of interpreting the lessons to be drawn from the results of these tests. Cattle feeders interested in securing the largest returns from the corn, kafir and other similar crops grown, should make a close study of the various points involved and not jump at conclusions as apparently has been done by some of our cattlemen. The fact that fully a third of the dry corn stover offered the calves in this wintering test, was rejected, should be given careful consideration. This occurred in a year in which corn fodder was especially good. This fact should not be overlooked. In these days of high priced land, the fact that a given number of acres of corn used as silage will winter twice as many cattle as the same number of acres handled as dry fodder, is a point that cannot be left without consideration.

It is up to the cattlemen of the state to study closely this matter of cattle production, taking advantage of every opportunity possible to secure accurate information which will be of service in reducing the cost of production and making it possible to secure larger returns

## Poultry Production Big Business

Easiest Money From Eggs—Early Hatched Incubator Pullets Necessary for Winter Laying

**P**OULTRY production is one of the big industries of Kansas. Just how big, no one knows. In poultry and eggs sold, it returned over eleven millions of dollars the past year, according to the statistics of our State Board of Agriculture. That is a lot of money, and the fine thing about it is that it goes to all the people. There are no favored few monopolizing this industry; it has no Morgans, Rockefellers or Vanderbilts. It is a big business only in the aggregate returns and in the number of people engaged in it. The United States over, there is no greater industry from this standpoint.

We have an occasional specialty poultry farm, but more than 98 per cent of the whole poultry product of the country comes from the general farms—the farms where the women, in addition to their other duties too numerous to mention, find time to care for a small flock of poultry, set the hens or care for the incubators, raise the little chicks and each week through the year send a few dozen eggs to market, using the money received to pay the grocery bill, buy school books for the children and perhaps part of their clothing. The story goes that a farmer whose wife was doing all these things, made the remark that he was beginning to get quite interested in the poultry business and intended to help his wife a little more than he had been doing, so she could pay the taxes from the egg money as well and give him a chance to make a little money farming.

Important as it is, this big, little business could be made to return double the amount to the average Kansas farm, that statistics credit it with at the present time. Increasing returns from poultry production are more dependent upon the proper application of improved methods in breeding and management by the many people concerned, than upon any other one factor. It is true that the farms where practically all the poultry supplies of the country come from could totally disregard all this up-to-date knowledge and progress and still keep chickens with a fair degree of success. This is possible, however, because of the manner in which poultry production fits into the farm enterprise as a whole. This is no argument, however, for the people of the farm neglecting to take advantage of every new method which has been developed, many times being worked out by the poultry specialist from sheer necessity.

Fanciers and specialists are largely responsible for the development of our most improved types of farm fowls. It is a long jump from the jungle fowl of antiquity, laying a few eggs only in a year, to the 250 or 300-egg hen of today. The present day fowl is as much an artificial production as the record breaking dairy cow.

Probably many a man has discouraged his wife's desire for such up-to-date equipment as the incubator and brooder and improved houses and quarters, and yet these modern appliances are almost necessities in the successful handling of these up-to-date varieties of poultry. No less an authority than Prof. W. A. Lippincott of the poultry department of the Kansas Agricultural College, has said that no farm without the incubator can claim to be up-to-date. There would be no surer way of cutting down the production of eggs in Kansas or in any other state, than to eliminate the use of this necessary equipment in the handling of poultry under modern conditions.

The success attained with incubators or with hens is more a matter of the person concerned than it is the machine or the hen. The hen as well as the incubator may prove to be a very indifferent hatcher. Even admitting it to be true that a good, broody hen is a better hatcher than any incubator man has yet devised, most people have exaggerated ideas as to the success of hens as hatchers. Hens as a whole, are very indifferent hatchers. When hens are managed in large numbers in hatching, many eggs are broken, others accidentally chilled by being rolled to the sides of the nest or as a result of sick, lousy, or mite-infested hens standing up on the nest instead of closely covering the eggs; others are fouled by the hens or by the eggs broken, thus causing the death of the embryo chick. No one who has had all these things to contend with could make the claim that the hen is a perfect success as a hatcher.

According to the observations of experienced persons who have studied carefully the results obtained in the hatching of eggs by the two methods, the percentage of chicks brought off by hens is no greater than by incubators. The extremely small percentage of chicks hatched and raised by either method should be a source of shame to those engaged in the handling of poultry. With the crude incubation devices used by the Egyptian it was customary to hatch on a large scale with such success that three chicks could be returned for four eggs and still leave a profit for the operators. The extremely poor results secured by our poultry people but emphasize the part the operator plays in this most important part of the poultry business.

The incubators of today, with all their faults, when properly handled will hatch as many chicks as hens and as cheaply and do it at a time when hens of most of the varieties absolutely refuse to become broody. This last is perhaps the greatest reason for the use of artificial methods of incubation on the average farm.

A proper realization by the men of the farm of the importance of the poultry business and a little more co-operation on their part in handling the business in an up-to-date manner, would result in increasing the poultry profits of the farm more than any other one factor involved.

from material which in the past has been to a large extent wasted.

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There is no use hatching eggs if the chicks don't live. It takes strong breeding birds to throw thriving chicks. If you got caught this year, begin to get ready for next year now.

When spring really opens up and the bugs get plentiful, you can cut down the beef scrap in ration if you let the hens range.

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The hen lays a larger egg than the pullet. To keep up the size of your stock, breed from hens.

#### WHY TEACH FARM FACTS?

Some persons do not understand why agriculture should be taught in the public schools. Even some teachers of agriculture cannot give satisfactory reasons why all children should study it.

"Often," says H. L. Kent, principal of the school of agriculture at the Kansas Agricultural College, "persons who are expecting to give talks on agricultural education write to me asking for reasons why agriculture should be introduced in the elementary and high schools. I would class these reasons under two heads: First, for practice; and second, for culture. The practical courses—those intended to give one knowledge with which to farm—to be taught in schools in the country and small towns, where agriculture is the main industry and support of the schools, while the cultural courses—those meant to broaden the child—should be taught in the larger places.

"Agriculture is the greatest and most fundamental industry of the United States. On it depends the prosperity of country and city alike. The population is steadily getting larger and something must be done to increase the farmers' production. Social and economic conditions demand that he be educated, if he is to keep from sinking to the level of the peasant of Europe. Few farmers ever reach a college, and this means that they must receive their agricultural training in the high schools and other secondary schools. It means more income to the farmers, and this reason alone ought to be sufficient for introducing such courses. The literature put out by colleges and the experiment stations will never accomplish what it should until the farmers have an elementary knowledge of the scientific side of farming. And to meet the demands of the highly developed and complex industrial conditions, we must have a diversified system of education. The old narrow curriculum must give way for a broader and more practical education that is related to the child's needs and environment.

"From a cultural standpoint, a course in agriculture, which will not be so long as the practical courses, is very valuable to the child. In the elementary schools, it gives the child a wider and more intelligent view of the things of nature and his relation to them. And agriculture is preferable to many things as a cultural study because of its closer touch to man and his everyday life. We all should understand where and how our food supply is produced. The training and culture received from the study of the things that have a practical bearing on life should not be overlooked in a liberal education."

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The county man goes on proving his worth to the people he serves. Hardly a week passes but some new avenue is opened whereby he may prove that the idea is founded on correct principles. It is just reported that the Montgomery County farm agent, E. J. Macey, is saving money to farmers in that county by co-operative buying of seed. Forty-one bushels of sweet clover seed was bought by the farm bureau, recently, and a saving of \$1.20 a bushel on the purchase price made and excellent seed obtained. Another shipment of several hundred pounds is expected in a few days from Wyoming, which is shipped directly from the growers to the farm bureau of Montgomery County. The bureau also is very active in supplying good breeding stock to those who wish to secure it in the county.

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Our friend, S. G. Trent, of Hiawatha, is to be congratulated on his having been made vice-president for Kansas of the Top-Notch Farmers' Club, an organization with headquarters in Springfield, Ill. This honor comes to Mr. Trent as a result of his having grown 117 bushels of corn to the acre and which record accomplishment gives him the commission which was recently forwarded by Governor Hodges.



# A BEST BREED FOR ALL

## Poultry Breeders Extoll the Merits of Their Respective Breeds

**L**OOKING back over the past 25 years and recalling shows I have attended, it seems to me we have not advanced very much along some important lines. It is true that we have advanced along the line of producing handsome birds to look at, but too little attention has been given the practical side of the business as evidenced in the show room. I have seen show specimens awarded prizes when they were not in condition to even be in a show room. Others have been under size (in comparison shows) with small bone, deficient breasts and other defects that should not be found in breeds of practical value.

The tendency of all shows has been running too close to the danger line of "fancy," and the showmen and the breeder of the future must pay more attention to the practical side in their exhibits and their specimens, if they wish the best results.

Every show of any importance should hold a poultry institute and have lectures during the show. Judges should wake up to the importance of size, vigor and marketable values as well as the fancy points. I believe that he who produces a bird a pound or two above the standard weight and that will produce more eggs, is doing more for the up-building of the industry than the highest class fancy breeder who breeds for color and shape only.

I would like to see the standard so made that credit would be given for every pound above standard weight of every standard variety. What this country needs now is meat and eggs, and there is a grand opportunity for poultry raisers to supply a large part of this demand. The breeders of the smaller varieties would profit by this more accordingly than the breeder of large fowls.

Another matter of importance is the showing of utility stock for sale. A large part of the breeders' output is utility and the farmers are our best customers. They attend the shows and should be able to supply their wants there and will pay enough higher prices to justify the expense. I would like to see such a department and suggest that entry fees be not more than 25 cents per bird. It will interest more farmers and help to build up the trade for better birds as well.

I hope the next state show in Kansas will take up some of these matters, especially the institute feature with lectures by such men as Lippincott and others as well posted. By following this line of work we will get away from the danger line of fancy, and fancy only, to which it seems we have been drifting for many years.—F. D. MUNN, Wichita, Kan.

### Pure-Bred M. B. Turkeys vs. Grades.

Thirteen years ago I started in the turkey business in a very mild way. I started with a grade flock and sold my increase on the market. My young birds at Thanksgiving time would average about 10 pounds each, at 15 cents per pound. This would mean \$1.50 each. I began to introduce pure-bred toms each year and soon found that my flock was increasing in weight as well as quality. I found that a pure-bred tom with grade hens would increase the weight of the young birds about five pounds each. This brought the average weight of the young turkeys up to 15 pounds at Thanksgiving time. At 15 cents per pound this would mean \$2.25 a bird.

Then I began to wonder why I could not still better conditions. As my pure-bred toms were costing me from \$5 to \$25 each and I was getting but \$2.25 for the increase, I decided to introduce pure-bred hens and so disposed of my entire flock. I purchased the best pure-bred hens that I could find and a pure-bred tom and found the produce from these averaged about 20 pounds at Thanksgiving time. At 15 cents per pound this would mean \$3 per bird. This result was pleasing to me and I kept introducing the best pure-bred toms that I could find. I began advertising my birds and soon found they were in great demand. I found in this way that I could get an average of \$5 per bird.

Each year my old customers keep coming back and were willing to pay for the increased quality of my birds. Each year as I visited the poultry shows I learned much about the true qualities of a bird and this helped me much in selecting my breeding stock. Today my birds are in great demand at an average of \$10 each. I still keep trying to in-

crease the quality of my flock by introducing birds that will strengthen the weak points. Any flock has points that may be improved and when I hear a breeder say he has reached the top and can make no improvement, I feel like saying, "Brother you have much to learn."—G. W. PERKINS, Proprietor of Newton Blue Ribbon Poultry Farm.

### Why I Breed Buff Rocks.

In all my years of breeding poultry I have never found any breed that I thought quite came up to the Buff Rocks as winter layers of good sized eggs, and I have never found a breed that seems to come quite up to them as table fowls. They have that inviting yellow tint to their flesh that seems to me, at least, more appetizing than any white-skinned fowl.

While I think I would always raise a few Buff Rocks if only for their looks, nevertheless I also raise them because I find good profit in them. As winter layers their eggs bring so much more than could be received in summertime. The quick growth of the youngsters enables me to clean up on all surplus ones at a strong profit and right at the time when the trade is ripe for broilers and springers and highest prices are being paid for them. This leaves my early

Our best records of laying are: Pullet hatched February 13 began laying July 31; pullet hatched January 4 began laying July 11. Our best record for one year was 235 eggs, and 11 laid in 11 days consecutively. For longevity we can cite our famous hen, Lady Belle, that lived to be eleven years old.

The only fault we find with them (if it can be called a fault) is their not wanting to set. It is a decided advantage in February and March when you are having a big demand for eggs for hatching not to have eight or ten of your best hens getting "broody." You can use an incubator or buy a setting hen for 50 cents.

As an all around bird they cannot be beat for eggs and meat.—GINETTE & GINETTE, Florence, Kan.

### Single Comb Leghorns.

My reasons for thinking the Single Comb Brown Leghorns the best are as follows: First, because they eat less and lay more eggs than any breed I ever had. I live on a farm and as the Leghorn is a forager it takes little grain. Second, because I have an incubator and need no broody hens. Third, because there is more money in eggs than raising poultry for market, and if I were raising for the market I would prefer

## WHICH IS THE BEST BREED?

**T**HE so-called poultry crank is an enthusiast, and this enthusiasm is a most important factor in the developing and improving of our breeds of farm poultry. If more of the rank and file among the producers of farm poultry could imbibe a little of the enthusiasm of the breeder, even better results would be secured from poultry on the farm.

KANSAS FARMER asked a number of these breeders to write letters setting forth the merits of their respective breeds, and the articles appearing on this page, and elsewhere in this issue, were written in response to this request. It was not expected that these letters would result in settling for all to which is the best minded poultryman that there is no best poultry specialists, certain that there is them, individually. cret of the success tained with their



A personal love for a particular breed or variety furnishes absolute assurance that the poultry grown will receive the most minute care and attention. Without this strong personal liking for a particular breed the stock is likely to receive but indifferent care. Certain varieties are probably better adapted for certain purposes, but the breed selected, in addition to fitting the general requirements, must arouse that intense personal enthusiasm which alone will insure the highest degree of success with poultry.

We trust that those who read these letters may have aroused in them a little of the spirit which inspired the writers in telling of the merits of their respective breeds.

hatched pullets for fall and winter layers and my surplus stock disposed of before the price of feed soars to its highest point in summer.

Buff Rocks are good hustlers, but not flyers and prefer their own home to roaming far away to nest and brood in hidden places. You do not need to practice what is called double mating, with them to get best results as is the case with many breeds. I have never found a fowl that was as easy to dress for the table as the Buff Rocks owing to the absence of pin feathers until they are past broiler size. Last, but not least, is the fact that when I am through with a hen for egg production she still brings me a goodly price on the market for meat.—WILLIAM A. HESS, Humboldt, Kansas.

### Why We Raise White Wyandottes.

We began with the Wyandotte family about 17 years ago with Silvers and found them so profitable that we decided to try the Whites and we have been dealing in them exclusively for a number of years. The Wyandottes are noted for quick maturity and early egg production. They are good size and make about the quickest broilers one can find.

the Leghorn as I can make them weigh from one-half to two pounds in less time and with less feed than any breed that I ever had, and at that weight is the time to sell them for profit. Fourth, because they lay a large, white egg, and I can get two cents per dozen more than I can for colored eggs, and it costs less per dozen to produce them. One of the greatest reasons is that I have never been without eggs.

They will stand close confinement. My breeding pens are small and in seven years I have had only one hen that offered to hatch while in the pen and can get more eggs per bird than on range. I turn them out the first of June. I need not run a drug store in connection with the farm as they are healthy. I prefer the browns because the hawks cannot see them as far as they can see a white bird.

I also want to give my reasons for thinking KANSAS FARMER is one of the best advertising mediums. Last November when times were hard and I thought it almost impossible to sell stock, I put an ad in KANSAS FARMER to run three times and inside of three weeks I sold seventy-five cockerels and turned down several orders that I could not fill, some

of these birds going as far as southern Tennessee. Long live KANSAS FARMER.—W. J. ROOF, Maize, Kan.

### Why I Raise White Indian Runner Ducks.

I raise the Indian Runner Ducks because I like them and because they are what is claimed for them. I raise White Runners because they always breed white. The Fawn and White and the English penciled will not breed true to color and you will get them from nearly white, to drakes with green heads. We have talked with breeders all over the West and this is the objection.

The White Runners invariably lay a white egg, the others will not. This in another serious objection which cannot be overcome. The White Runners lay a large white egg that far surpasses a hen egg in richness.

The ducklings are easy to raise and do not require any more care than chicks. The old ducks can be easily confined with a two-foot fence. A low shed is all that is necessary for sleeping quarters, with plenty of bedding.

They are never bothered with lice or mites; the only trouble is rheumatism which can be prevented by liberal bedding. With a moderate supply of ground feed—not enough to make them fat—and a liberal supply of water for dipping their heads and cleaning their nostrils while eating, they will shell out the eggs in great shape.

To get the best results from any kind of fowl, care and feed is the main thing. All who have raised White Runner ducks, in an intelligent manner, have been pleased with them.

The demand is growing greater every day and the supply is not equal to the demand.—JOHN C. SNYDER, Topeka, Kan.

### Barred Plymouth Rocks.

As a breeder of this grand old variety of birds, I am just full of enthusiasm about them. I have studied the chicken business for many years, and have at times gone off on a tangent about some newer and perhaps more fancy or stylish strain, but I have always come back to the kind that has been tried out and proved of genuine worth under all conditions—the old Barred Rocks.

This variety is not so beautiful in color and carriage as some of the smaller kinds. They are not so active as the Leghorns, not so clumsy and bulky as the Chochins and some of the extremely large birds, neither will they put up the showy fight that the games and their kindred will do. But when you get right down to a valuable, general utility chicken, the Barred Rocks have a record that cannot be equalled by many other strains.

Following are some of the characteristics that make this strain the best for the average poultry raiser, regardless of whether he lives on a small town lot or on a large farm:

They are of a good average size, a uniform color from head to tail, yellow legs and beak that beautifully contrasts the blue feathers, flesh plump, light colored and plenty of it, small comb, hence not easily frozen, most gentle variety known, fine brooders but not always wanting to set, good layers of large well formed pink eggs, do not fly, hence easily kept in inclosures, young chicks develop quickly, hence good for early market, strain so old that it is well established in all characteristics.—C. D. McILLEE, Lorraine, Kan.

### Buy Cockerels Early.

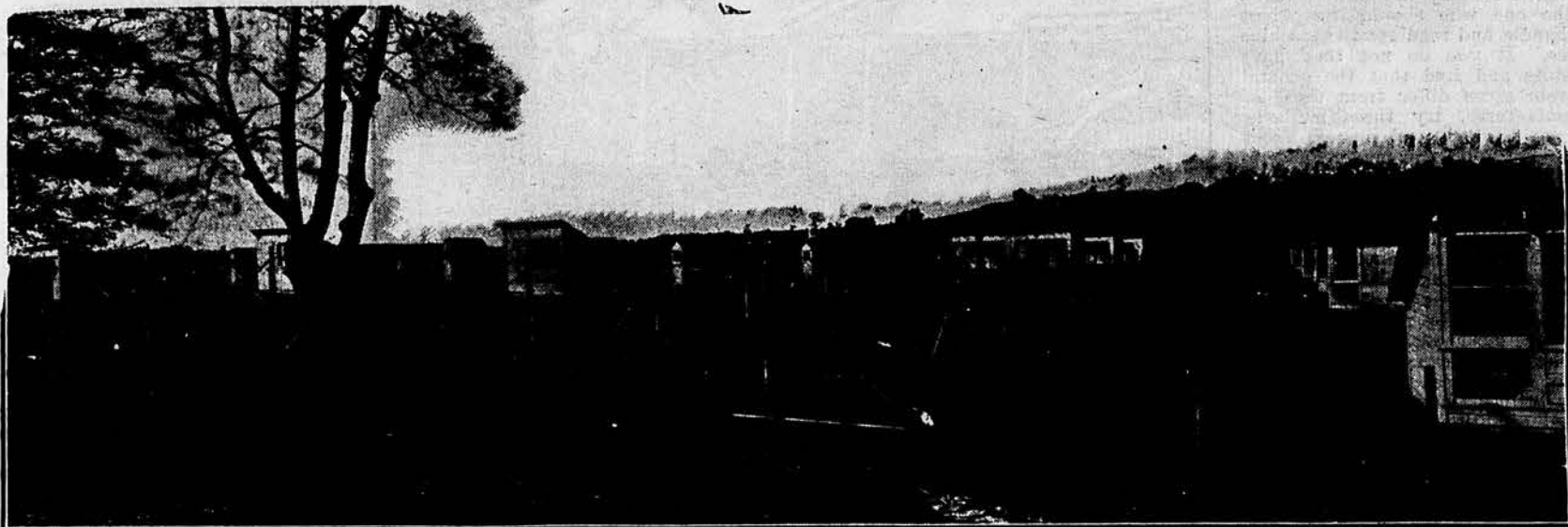
A large number of people are being disappointed and are finding it difficult to secure the necessary cockerels for their flocks. This occurs almost every year and it would seem that those in need of cockerels for farm flocks would learn in course of time that it pays to go to breeders early in the fall and purchase the males needed for the coming year. It is a simple matter to figure out how many will be needed and by going to the breeder early far better bargains can be obtained than by waiting until time to mate up the flocks.

Breeders do not like to carry a lot of surplus cockerels through the winter and will be glad of the chance to place bargain prices on birds taken off their hands early in the season. In a season such as the present when so much grain has necessarily been purchased the breeder is tempted to cul even more closely than ordinarily before the winter season sets in. Another year plan to get your cockerels early and secure a better choice of birds and save money as well.



# INCREASED EGG PROFIT

*Pullets For Market Eggs, Mature Hens For Breeders—W. A. Lippincott*



VIEW OF PORTION OF NEW COLLEGE POULTRY PLANT.—FROM VERY SMALL BEGINNING IN THIS MOST IMPORTANT INDUSTRY. THE COLLEGE HAS MADE GREAT PROGRESS IN DEVELOPING FACILITIES FOR CARRYING ON INVESTIGATION AND INSTRUCTION

**T**HE average hen in Kansas lays but 75 eggs in a year. These 75 eggs at the average price would be worth a trifle over a dollar. At the present price of feed it cost all of a dollar and a half to feed a hen a year. Hence the margin of profit appears on the wrong side of the ledger.

The average hen in Kansas is laying eggs that give 75 per cent fertility and less than 60 per cent strong chicks and many people have to be satisfied with 50.

The question of increasing the egg profits is not a question alone of getting more eggs. If that were so one might simply say "Buy more hens." It is a question of coaxing the hen already on the farm to lay more next year than she is laying this year. It is not only a question of producing daughters that will lay more eggs but larger eggs as well. The present agitation about selling eggs by weight may never amount to anything. It is loudly advertising the fact that there is a great difference between a dozen large eggs and a dozen small ones. The public is demanding and paying for large eggs. On many markets there is a spread of 10 cents a dozen between large uniform eggs and small eggs of equal freshness.

The question of increased egg profit will not be solved alone by so feeding and properly caring for the hens now on the farm that they will produce more eggs and daughters that outdo them in the matter of production. It is a question of getting more daughters as well.

In order to get at the root of the matter let us take the last proposition first. How shall we get more chicks to grow into more hens to lay more eggs to make more money for the Kansas farmer and the farmer of the central west?

There are two problems at the bottom of the question of higher fertility in eggs. The first is a breeding problem and can quite easily be solved on the farm. The second is a question of incubation and may be avoided.

The breeding problem is one of common sense. It is a common practice among farmers and fanciers to breed from pullets. Every one knows that the pullet's laying year is the most profitable in a hen's life so far as eggs are concerned. Eighty per cent of the winter eggs in this section, which are the paying hens, are laid by pullets. It is the most natural thing in the world to set some of these pullet eggs. This is where the trouble begins.

A pullet lays a smaller egg than she will as a hen. The average weight of 100 White Leghorn three-year-old hen's eggs, for instance, has been found to be 13.09 pounds, while 100 pullet eggs weighed on an average 10.09 pounds. A small egg always gives a small chick when it hatches. A small chick may grow into a good sized chicken but it does not have the show to do it that a chick of the same breed hatched from a larger egg does. If you are going to have good stock of any kind it is a pretty safe proposition to have it born right. If this is true of larger animals it is increasingly true of birds which mature in a single season.

Because a pullet can lay a lot of eggs that are perfect to the taste it does not necessarily follow that she is fully developed enough to produce eggs that will hatch perfect chicks. Both experiment and experience have shown that the hatchability of pullets' eggs, the "liveability" of the chicks after they are hatched are less than from the same individuals as yearling and two-year-old hens.

At a West Virginia experiment station where about 2,000 eggs were in-

ness. In the early spring all hens, good, bad, and indifferent, lay a good number of eggs. The chances are that as many eggs from the weak pullets have been hatched as from strong ones. We have been using pullets as breeders without giving them a chance to die. Pullets should never be used as breeders because they lay small eggs that hatch small chicks which are likely to be weak. Only vigorous, mature hens that have proved that they can stand up under the strain of heavy laying, stand the

incubators. It has also been found that where a miscellaneous bunch of chicks is taken and their individual vigor noted, the most vigorous show a larger lime content when a chemical analysis is made of their bodies. This has been done so many times that it seems to be a pretty well established fact that strong constitutional vigor and a large amount of lime in the body go hand in hand, and furthermore, the incubator seems to be responsible for a somewhat diminished amount of lime in the chicks it hatches.

But even if this is so why can Sam hatch his without getting into trouble. The answer is that Sam's stock has been hen hatched and range raised for years. Bill became dissatisfied with his chickens about five years ago. He bought a hundred eggs from a fancier who has been hatching his stock in incubators for the last fifteen years. He got eighty chicks out of the bunch and was mighty tickled. A year after that his trouble began and grew worse every year. Now the difficulty was that the stock had been artificially incubated so long that it had reached the point where the scale began to tip. If the eggs had the benefit of a good hen it tipped in their favor and they came out all right. If they didn't have that benefit and were hatched in an incubator, the scale tipped the other way for some of them and they were crippled. The inroads that the artificial mothers had been making upon the vigor of the stock year after year had at last reached the surface and could be seen. Bill was right. The incubator was responsible for his troubles. Not his own incubator so much as the incubator of the breeder he bought eggs of. Sam is scheduled for as bad if he goes on using incubators for hatching all his stock as he has been for the last three years.

What then? Shall we banish the incubator from the farm? There is no surer way of cutting down the egg profits of this or any other state. The day is fast coming—in fact it is now here, when a farm that has no incubator cannot claim to be up to date. The incubator has come and has come to stay. There should be an incubator on every farm in Kansas and there are more of them going there every day.

With the present state of our markets the easiest chicken money for the general farmer comes from the sale of eggs. To make money on eggs he must get them in winter when the other fellow's hens are not laying. To get winter eggs one must have an incubator. Eighty per cent of the winter eggs are laid by early pullets. To get early pullets one can't wait until May for the old hen to set. He must have a hustling, husky bunch hunting worms in late March and early April. The only way to accomplish this is to control the time of hatching, which means an incubator.

But along in May when the hens decide it's time to assume family cares let them have their way. Select your largest eggs and let the biddies have them. The fact that the pullets thus secured will be late need cause no worry.

[Continued on Page Twenty-two.]



W. A. LIPPINCOTT.

**"ONLY vigorous, mature hens that have proved that they can stand up under the strain of heavy laying, stand the hot weather and be active when it is cold, should be used to renew the flock"**

cubated, the following results were obtained:

HENS.	
Per cent eggs hatched.....	76.7
Average weight of 100 chicks at hatching, (pounds).....	8.28
Average weight of 100 chicks at 3 to 4 weeks, (pounds).....	29.56
Chicks dying before 4 weeks old, (per cent).....	.5

PULETS.	
Per cent eggs hatched.....	67.8
Average weight of 100 chicks at hatching time, (pounds).....	7.12
Average weight of 100 chicks at 3 to 4 weeks old, (pounds).....	23.07
Chicks dying before four weeks old, (per cent).....	14.5

When one breeds from pullets he doesn't give natural selection a chance to help him out. We hear a good deal about the "survival of the fittest." It works in the poultry yard as well as anywhere else. A certain proportion of the pullets stand up under the strain of heavy laying better than the rest. They may lay no more eggs during the spring and early summer but along in July and August when the thermometer registers 95 on the north side of the house the difference will show. They remain active and vigorous and are still laying clear up to the time they begin to moult. Their weaker sisters begin to be a bit peevish when hot weather comes on and some of them die. We don't think much about it perhaps, partly because we feel we have already got most of our profit from their winter's laying. The thing that ought to appeal to us is that there was a fundamental weakness present which caused them to break down. And further, that we have a bunch of young stuff coming on a good percentage of which have inherited the same hidden weak-

ness. In the early spring all hens, good, bad, and indifferent, lay a good number of eggs. The chances are that as many eggs from the weak pullets have been hatched as from strong ones. We have been using pullets as breeders without giving them a chance to die. Pullets should never be used as breeders because they lay small eggs that hatch small chicks which are likely to be weak. Only vigorous, mature hens that have proved that they can stand up under the strain of heavy laying, stand the

hot weather and be active when it is cold, should be used to renew the flock. All the inferior hens and none but these should be marketed. So much for the breeding problem.

The problem of incubation is one that has been growing up almost unnoticed during the past fifteen years. Some people are realizing that there is a problem. Others will deny its existence. Bill Smith will say an incubator won't hatch chicks as well as an old hen. Sam Jones will say it will. Bill bases his assertion on the fact that when he puts eggs under a hen the chicks came out lusty, bright and active. When he tried to hatch them in an incubator about 25 per cent turn out to be cripples. He's tried three different machines and every time he gets cripples. Sam bought two of Bill's cast off machines and has been getting about as many chicks from a hundred eggs as he did when he was using only hens. They are chipper and vigorous and will start a rough and tumble any time for a worm. Sam says Bill does not know how to run an incubator, that what he needs is a little hen sense.

Now the fact is Bill can run an incubator just as well as Sam. Then where's the trouble.

At first glance one would naturally say "In the incubator"—particularly if he had had Bill's experience—and lots of people have. This is partly right. It has been shown that beyond a doubt a chick that is hatched in an incubator is different from a chick from the same parents but hatched under a hen. At the Ontario experiment station in Canada and the Oregon station in this country, it has been found that when the bodies of chicks of the same breeding are analyzed, those hatched under hens show more lime than those hatched in



# SUCCESS WITH INCUBATOR

*Farm Without an Incubator has Become Back Number—N. L. Harris, K. S. A. C.*

**I**F you are a beginner and have purchased a new machine, follow the directions sent by the manufacturer. He is the one who should know best how to handle and regulate the machine he makes. If you do not then have good results and find that the general rules herein given differ from those of the manufacturer, try these methods. If you are having good success don't change for anything you may read here.

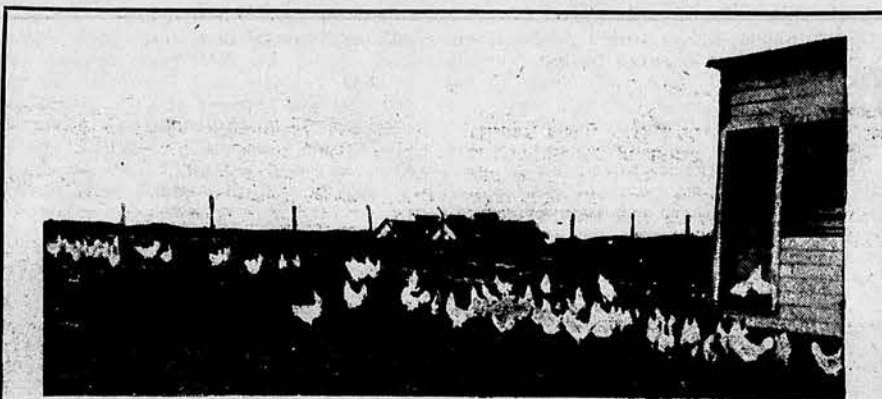
This may be rather a peculiar introduction but it has been found that it is impossible to lay down general rules which will apply to all kinds of machines. In fact it has been our experience that the same set of rules will not always work with the same degree of satisfaction when applied to machines of the same make. Each machine has little peculiarities of its own which must be learned by experience. There are some general principles, however, which under normal conditions apply to all machines. These, when followed, will aid in securing better hatches and stronger chicks.

Don't try any partnership or co-operative business with the incubator. Let one person regulate and care for the machine and all others keep their hands off. If two persons divide the responsibility, they might both remember at the same time that the machines was running a little too cool and both apply a trifle more heat, resulting in a batch of baked chickens. We tried this very thing on a machine full of high priced eggs just two days before they were due to hatch and have never since forgotten the lesson. A machine can only be regulated intelligently when you know when the damper was lowered the last time and how much.

To successfully run an incubator the room in which it is operated should remain at a comparatively even temperature. A cellar or some unused room usually gives the best results. The machine must be so located that the sun does not shine on it or any drafts strike it directly. The room in which an incubator is run should not be too dry. The following case is a sample of ignorance on this subject: A lady in Manhattan put 240 eggs in one of the best makes of machine on the market and operated it in a cellar. The result was only three chicks. She stated that she had an ideal place as it was in the corner of the furnace room where there had been no moisture for two years. She placed moisture pans in the nursery tray beneath the eggs and tried again with splendid results. Unless the cellar or room is damp, a pan about one inch deep should be partly filled with sand and kept saturated with water. This is placed beneath the eggs and not removed till just before the hatch. Of course if the room is damp the moisture question will care for itself.

Always have the machine level before starting the lamp. If one side is high the heat will rise to that side and the circulation of air will be disturbed. If the machine has previously been used thoroughly saturate the inside with good disinfectant or dip—don't use kerosene. If there ever has been any white diarrhoea on the place or you have reason to believe there has been any disease among the hens from which you are to procure eggs, each egg should be thoroughly wiped with a cloth saturated with 92 per cent alcohol.

Thoroughly clean the lamp burner, put in a new wick, empty the lamp and fill with fresh oil. The higher the grade of oil you use the better will be your results. Poor oil will smoke, choke up the flues and may spoil the hatch. If good oil is used, the lamp kept clean and no drafts allowed to strike the flame, there is no excuse for having the lamp smoke. Trim the corners of the wick when you first start the lamp that the flame may be even and round. Never used the scissors to trim the lamp wick but gently pinch the charr off and smooth the wick from corners to center with the finger. After placing the lamp back in the machine watch to see that there are no points to flame. Should there be any, remove the lamp and pat that part of the wick until the flame burns smoothly. You will have no smokes with good oil if you follow this method. Start the lamp with a low flame and screw down the thumb screw on the connecting rod until it has a quarter-inch play. Visit the machine frequently until the temperature reaches 102 degrees. At this temperature the damper should just be raised enough



FLOCK OF S. C. WHITE LEGHORNS AT K. S. A. C.—THIS BREED A GREAT FAVORITE ON EGG FARMS.

that you can run a knife blade between the disk and the flue beneath. If it has not commenced to raise screw down the thumb screw until it does. Should the damper raise before you can see any mercury in the thermometer raise the thumb screw and allow the damper to drop down, leaving about one-eighth-inch play. If the temperature does not raise and the damper is still down, turn up the flame a trifle and wait till your next visit. After the temperature reaches 90 degrees do not be in a hurry but coax it up slowly till it reaches 102 degrees. Now leave the machine alone for 12 to 24 hours to see that it will maintain the heat. If it is all right put in the eggs and close the machine. The temperature will at once drop as the eggs are cold. Do not disturb the damper as the temperature will come back up as soon as the eggs are thoroughly warmed through. Leave the machine closed for two days.

To clean the lamp remove and fill nearly full, leaving a small space for the expansion of the oil, pinch off the wick, light and return to machine. See that the flame is as nearly as possible as it was before. Always tend the lamp in the morning as it might run up some after filling and would be detected some time during the day. Wipe away any oil that may have been spilled on or near the lamp so as to avoid fire.

After a couple of days take the trays out and place them on a table and gently shuffle the eggs with the hands, seeing that each egg is moved. It is not necessary that each egg be turned clear over. The hen does not mark her eggs and turn them clear over but she does shuffle them around as much as five times a day and we should turn them at least three times—morning, noon and night. Before putting the trays back in the machine turn them end for end as one side of the machine may be cooler than the other. This will give all the eggs a better chance and assure a more even hatch. On the third day begin to cool the eggs, usually at noon when you turn them. Place them on a table so that the tray does not extend beyond the edge. Eggs beyond the edge of the table will cool too rapidly. Place the side of an egg against the lips or eye ball and when they begin to feel cool put them back in the machine. Never try to leave

them out any definite time as they may get too much or not enough cooling. The time may vary from a few minutes at the first to twenty or thirty minutes toward the end of the hatch. After the eighteenth day close the machine and don't open it again till the chicks are hatched. Should the heat ever run up cool the eggs down thoroughly at once. You may in this way save a hatch that has been over heated. Always care for and handle the eggs before you touch the lamp as the least kerosene may seriously injure or ruin the hatch. Always read the temperature before the machine is opened. It is well to do this each time before turning the eggs.

Light shelled eggs should be tested on the sixth day. With dark shelled eggs it may be necessary to wait till the seventh or eighth day. If a dark spider-like spot is seen which moves as you slowly turn the egg, it is a live germ. If it is perfectly clear the egg is infertile. When there is a dark spot that sticks fast to the shell or has a thin red ring around it, the germ in dead and the egg will spoil if left in the machine. Remove all infertile and dead germs. Burn the latter and dispose of the former as you see fit. A good way to use them is to boil and feed to the old hens.

For the first week keep the temperature at 102 degrees. Then it should go to 103 degrees and remain there till the eggs begin to pip. When the eggs are hatching run it at 104 degrees, never allowing it to get above 105. Watch the temperature closely as the chicks give off considerable heat at hatching time and the temperature may run up. Should the temperature suddenly drop it is probable that a wet chick is touching the bulb of the thermometer.

Never open the machine from the time the first egg is pipped until the hatch is well over. When the chicks are all hatched remove the trays with the shells and the unhatched chicks. Allow the chicks to remain in the machine for 48 hours, gradually opening the door an inch or so at a time so as to harden them to the cooler outside air. If this precaution is followed there is little danger of chilling in removing to the brooder. No food or water is necessary for this period as it takes this long for them to use up the yolk of the egg and they do not need other nourishment. If

the fertility of the eggs run strong and the hatch starts well but for some reason becomes checked, a sponge or two saturated with hot water quickly slipped into the corner of the trap may help to bring out the remainder. Do not try to help any of the chicks out of the shell. They are worthless and will prove a disappointment.

## How to Raise Indian Runner Ducks

In the first place, hatch the young ducklings under hens. This is better for beginners, as duck eggs require different treatment in an incubator than hen eggs.

The hen is not a very good duck mother, however, as she is awkward in the management of her odd brood, often stepping on and injuring them. For this reason I prefer a brooder as a foster mother for the young ducklings. It is not necessary that the heat of the brooder be as great as for chickens, but they need a little warmth, at least for the first week. Later in the season a fireless brooder might work well. Little ducks need plenty of pure air, even more than chickens, and must not be crowded.

The first week they should be fed bread crumbs mixed with milk or water and squeezed dry, or bran and meal mixed in cold water, making a crumbly and not too wet mash, adding to this, after the third day, a small portion of meat meal. At the end of the week, the ration should consist of bran and meal with meat meal and a little sand. Sand should also be placed where the ducks can eat it when they wish. This ration is fed to the ducklings until full grown, always using some sand mixed in with the meal and bran and varying the amount of the meat meal to suit the needs of the ducklings. When they are grown to maturity, the meals can be varied with an occasional feed of whole grain, wheat or corn. Care must be taken that the meat meal is fresh. Spoiled meat should never be fed to ducks at any age. Even when full grown they must have sand in their runs and if at any time they seem weak in their legs the meat ration should be increased.

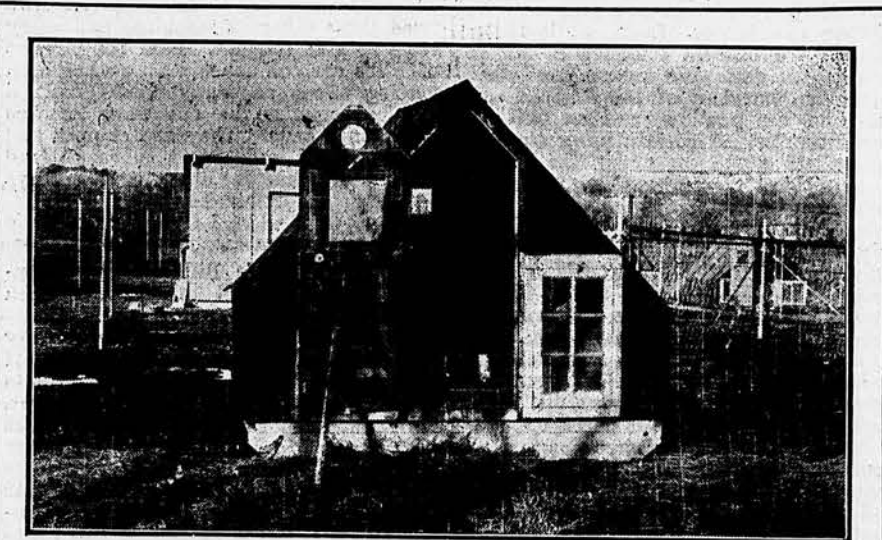
With this feed the ducklings should always have water in sufficient quantity to cover their bills. A wooden trough with slats across to prevent their entering the water will keep them from getting too wet, or an ordinary water fountain such as is sold to be used in brooders will do very well. Get these few points: Feed and water at the same time, do not make your mash too wet, and after the first week put sand in every mash and vary the meat meal to suit the needs of the ducklings.

It is not profitable to allow them to have water to swim in until fully feathered. Do not allow them to remain out in the rain. Many ducklings have been killed by exposure in a warm rain storm or by being allowed to run in wet grass. Always keep your brooder or pens as clean and dry as possible. They should be housed at night. Always do this as quietly as you can and they will soon learn to go into their house for the night. It is always best to close the door or entrance to keep out all vermin. Do not feed them in these pens and it will be much easier to keep the pens dry and clean. Let them out long enough to eat, then drive them back. Do not feed them more than they will eat up clean. Feed four or five times each day for the first two or three weeks, reducing as they grow older. When grown, feed morning and evenings only.

I find the Indian Runner is very profitable on the farm. They are not difficult to raise if properly handled. They are good layers and make a splendid table fowl. We can always sell all the eggs for hatching through KANSAS FARMER classified columns that we are able to supply. We keep only those with correct markings to select eggs for hatching from—all others are used for eating.

These ducks are the most attractive and productive variety of the duck family. The females lay in excess of 200 eggs a year. The eggs are of good size, have thin, white shells, and are very palatable. Indian Runners require no water except what they drink. They are not susceptible to the diseases of poultry and are always free from lice and mites. The ease with which they can be kept and their productiveness makes them one of the best of fowls for the farm or for the city back yard.

—C. L. BUSKIRK, Newton, Kansas.



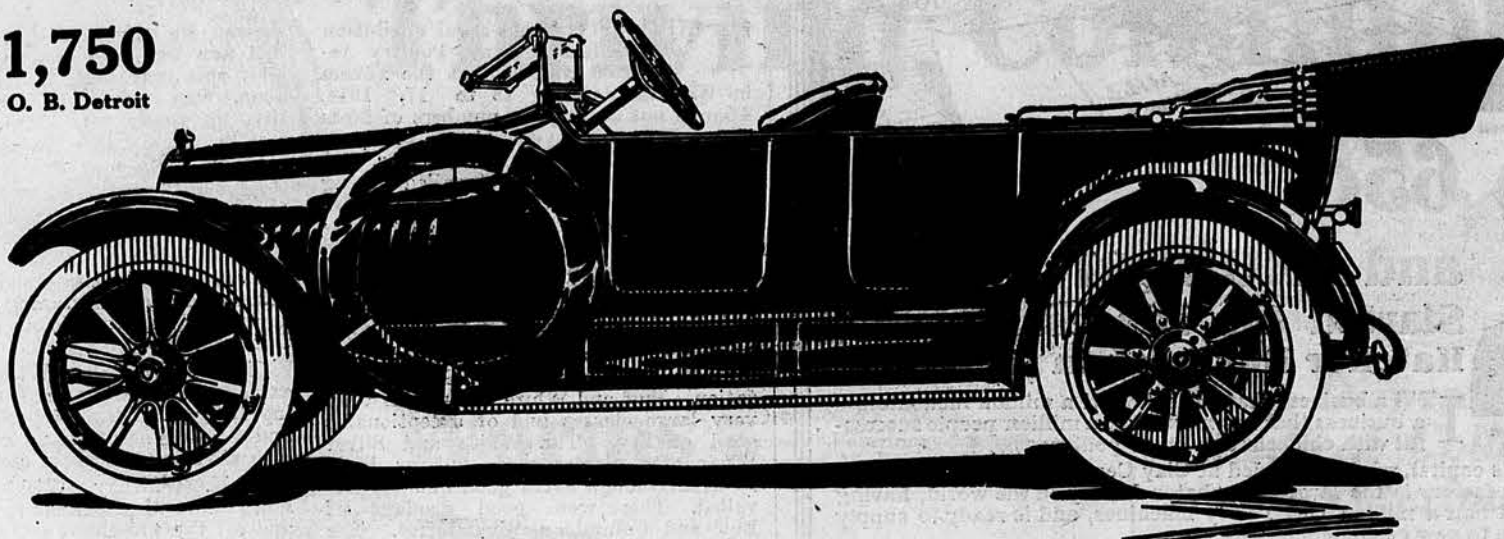
GOOD HOME FOR NEWLY-HATCHED CHICKS.—PROPER FACILITIES FOR BROODING YOUNG CHICKS A MOST IMPORTANT FACTOR IN THE REARING OF POULTRY.



# HUDSON Six-40

**\$1,750**

F. O. B. Detroit



Note the Streamline Body—the Handsomest Car of the Year

## This Six Costs Less Than Fours

### Weights Less—Costs Less to Operate

This year the HUDSON announces a Six which greatly affects the whole motor car situation.

The price is \$1,750, so it much undersells any comparable Four.

The weight is 2,980 pounds, so it much underweighs Fours of similar capacity.

And it costs much less to operate than Fours of equal size and power.

It weighs, for instance, 400 pounds less than the four-cylinder HUDSON "37," the best four-cylinder car that ever went from this factory. Yet the wheel base is 123 inches, and there are two extra tonneau seats.

It consumes one-fourth less fuel than the HUDSON "37," yet it has more power. This is due to a small-bore, long-stroke motor—a European innovation.

It shows an equal or a greater saving compared with any other same-class Four.

#### The Day of Sixes

As everyone knows, the trend is toward Sixes. There are now 38 makers whose best car is a Six, and 14 of them now build Sixes exclusively.

Last year, hardly a four-cylinder car was sold at a price which would buy a good Six.

Men changed from two cylinders to four to get more frequent power strokes. Now, to get continuous power, they are changing from Fours to Sixes.

To get smooth-running Sixes men paid a high price, carried heavy weight, paid extra fuel cost.

Now this is all changed. In the new HUDSON Six-40, all these things are in favor of the Six. The Four is now the extravagant car. The Six, with all its other advantages, is also the more economical.

#### Mr. Coffin Did It

This HUDSON Six-40 is the latest achievement of Howard E. Coffin, our great engineer. It was he who built the first high-grade Four to sell under \$3,000. Then the first to sell under \$2,000. It was he who built the HUDSON Six-54, the first high-grade Six to sell under \$3,000. Last year that car became the most popular Six in the world.

Now he builds this Six-40—the first quality Six to sell under \$2,000. The first to under-weigh,

and the first to show less operative cost than Fours of equal power.

#### New Ideals in Beauty

This HUDSON Six-40 has the new streamline body. No angles at the dash. This accords with European vogue, and Europe always sets the body fashions. The old-type bodies will soon be out of date.

The gasoline tank is in the dash. The extra tires come ahead of the front door. All hinges are concealed. There are two disappearing extra tonneau seats. All instruments and gauges are within reach of the driver.

There is a "One-Man" top, covered with Pantasote, with quick-adjustable side curtains. A rain-vision windshield, dimming headlights, left-side drive, Delco patented system of electric starting and lighting.

The design and equipment are almost identical with the new HUDSON Six-54. And that we consider the handsomest car of the year. Up to six months ago, no car at any price offered so many attractions.

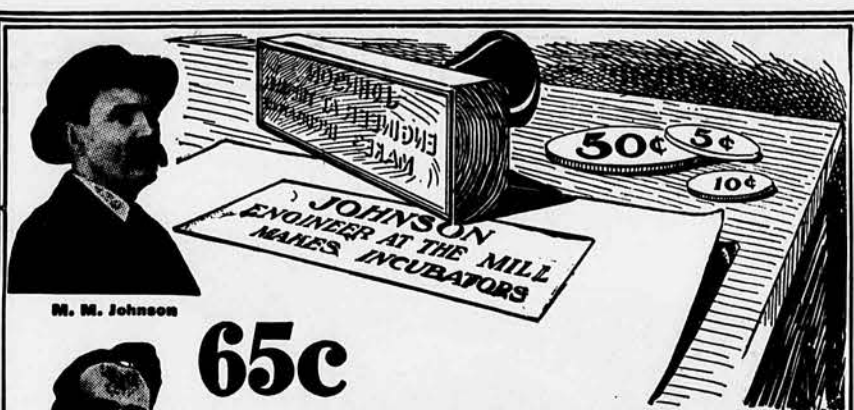
Hudson dealers everywhere now have this car on show. Write us for Howard E. Coffin's 55-page book, and we will direct you where to see the car. Then try it out. It rides like constant coasting.

## Hudson Motor Car Company

7782 Jefferson Ave., Detroit, Michigan

(110)





M. M. Johnson



M. H. Johnson

## 65c and a Rubber Stamp Started the Largest Chicken Hatcher Business in the World

IT'S a business that has sold half a million incubators—a business that has made half a million people successful with chickens and other poultry.

Johnson's capital, when he landed at Clay Center, was 65 cents. Now the Johnson factory is the largest incubator factory in the world, having already sold half a million Old Trusty machines, and is ready to supply 100,000 more to new customers in 1914.

How did the Johnsons do it? It isn't salesmanship because, as a matter of fact, these incubators are not sold—they are bought. Every one has been sent out on trial and every one is still guaranteed. The answer is that Johnson designed and built an incubator that makes profits for his customers. That's all there is to it.

Johnson was an engineer in his early life. Maybe that had something to do with it. But he tells his own story of his ups and downs in the Old Trusty catalog, so you can get it direct from the book. You will get a lot of ideas from this book. You will realize that no matter where you live, if you have a little ground for poultry to run on, you can make a big extra income and it needn't interfere with anything else you now do.

Johnson's customers keep all the mystery and the trimmings and experiments out of their poultry business. They stick close to the simple ways and make much and spend little on their outfits.

## Old Trusty INCUBATOR Still Less than \$10 Freight Prepaid

Everywhere East of Rockies—A Trifle More Delivered Free to Far Western Points.

And that's for the finest incubator that can be built—a hatcher that's pleased three or four times as many people as any other hatcher—a hatcher that half a million people are making millions of dollars of profits from—a hatcher that would cost you anywhere from \$5.00 to \$8.00 more according to size, if made in the ordinary small factory or by a big dividend paying corporation, or if sold in the ordinary way.

Write for this rock-bottom factory price, based on selling 100,000 incubators. In such a business you can see how the Johnsons can take a small profit. You get the benefit. Think of getting a full fledged start on the road to big poultry profits with such a trifling sum.

### 90 Days' Trial 20 Year Guarantee

That tells the story of Old Trusty quality. It backs up every promise the Johnsons make for it or you trade back. It keeps on doing the work right year after year or it's up to the Johnsons to make it right.

**Key to Poultry Profits FREE**  
The Old Trusty Book is the real A-B-C of making poultry profits. It has helped hundreds of thousands of others to make a double living, showing them how poultry can be added to their other work with little extra expense and a great big extra income. Half a million are reaping the reward of having read this book.

The Johnsons want you to have a copy of the 1914 edition—120 pages of the most helpful poultry talk published. Write for this and get the Johnson price. You will find the book helpful whether you want an Old Trusty now or not. Write at once. Address H. H. Johnson,

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



## SELECT SEED CORN

**DIAMOND JOE'S BIG WHITE**—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thorough bred pure stock. Every stalk bears one and two good ears, because scientifically handled, thoroughly dried and properly cured, and of good strong germination. Write for our **BIG SEED CATALOGUE, IT'S FREE.** It tells you about all our varieties of Seed Corn, also all Farm, Garden and Flower seeds. A Postal Card will **BRING IT TO YOUR DOOR.** (Mention this Paper.) Address 18 **RATEKIN'S SEED HOUSE, Shenandoah, Iowa,** largest Seed Corn growers in the world.

## Burpee, Philadelphia,

side we shall be pleased to send THE LEADING AMERICAN SEED CATALOG, a bright new book of 182 pages, which should be read by all who would have the best garden possible and who are willing to pay a fair price for

## Seeds of the Burpee-Quality

### Tells why chicks die

J. C. Reefer, the poultry expert of 1601 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This book contains scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. All poultry raisers should write Mr. Reefer for one of these valuable **FREE** books.

### LEE'S LICE KILLER

Germozone, Louse Powder, Egg Maker and other Poultry remedies have a successful reputation of twenty years behind them. They have brought success to thousands of poultry raisers and will to you. Lee's big "New Poultry Book," "Reading Symptoms of Disease" and "Poultry Pointers" free from all Lee's dealers, or write direct. The New Mandy Lee Incubator is a real automatic hatcher. Write for catalogue. **GEO. H. LEE CO., 904 HARNEY ST., OMAHA, NEB.**

## Kansas State Poultry Show

*Weather Ideal. Attendance Largest in Years  
Great Harmony Among Breeders and Exhibitors*

THE twenty-fifth annual exhibition of The Kansas State Poultry Association was held at the Forum in Wichita, January 12 to 17, 1914. Though not as large in numbers of birds shown as some previous shows, the quality of the stock was never better, and a feeling of harmony prevailed among the breeders to an unusual degree. There were more Barred Plymouth Rocks exhibited than for some years and the quality was at the top notch. In White and Buff Rocks the quantity was deficient but the quality was apparent. Rhode Island Reds were numerous, both in single and rose combs, and the quality fully equal to the State Show's reputation. Buff and White Orpingtons were very large classes and of exceptional good quality. The White and Silver Wyandotte classes were not as large as usual though extra good quality prevailed. There were good displays of Buff and Columbian Wyandottes. The Brown and White Leghorns were well represented and of excellent quality.

There were more turkeys than usual, both of Mammoth Bronze and the Bourbon Reds. Indian Runner Ducks were quite conspicuous, both in White and the Fawn and White varieties. There quite a display of Bantams, of several varieties.

The weather during the show was exceedingly favorable, and as a result the attendance was greater than it has been for years, and added several hundred dollars to the treasury. For the last three years the weather during show week had been very severe, the thermometer ranging from 12 to 28 degrees below zero, hence the favorable weather of the present show was a very agreeable change.

At the annual election two new members of the board of managers were elected, viz: G. D. McClaskey of Topeka and C. E. Cronhardt of Hutchinson. L. B. McCausland of Wichita was re-elected. All to serve for three years.

The following resolution was passed and ordered sent to the secretary of the Kansas Panama Exposition Commission:

"The Kansas State Poultry Association in convention assembled wishes to congratulate the Kansas Panama Commission on your efforts to make a creditable display of Kansas products at the great Panama Exposition to be held in San Francisco in 1915. Knowing that you have but a meager appropriation to dole out among the large number of interests, we do not wish to be over-solicitous for the poultry appropriation, but hope you will remember us when you make up your budget. Do not forget that the poultry industry of Kansas is one of the main assets of the state, and that more people are engaged in it than in any other business. Also that a young and growing industry needs the fostering care of all its friends, among whom, we trust, are the members of the Kansas commission."

It was the sense of the members assembled that uniform cooping should be provided for the State Show as soon as practicable, and a committee of three was appointed to attend to the matter. The president appointed on the committee, L. H. Wible, Chanute; Clyde C. Whitely, Wichita; and C. K. Whitney, Wichita.

At the meeting of the board of managers on Friday, the following officers were elected: President, Thomas Owen, Topeka; vice-president, G. D. McClaskey, Topeka; secretary-treasurer, L. B. McCausland, Wichita; assistant secretary, L. H. Wible, Chanute; superintendent, C. C. Lindamood, Walton, Kan.

It was decided to hold the next annual show at Wichita, January 11 to 16, 1915.

### NOTES OF THE SHOW.

This was the most harmonious State Show held for some years, the disturbing element being conspicuous by its absence.

Judges Thompson and Campbell did their work in an expeditious manner, enabling the management to have all the ribbons up by Wednesday afternoon.

Among the old standbys in the Barred Rock class was C. C. Lindamood of Walton, who, as usual, took a large share of the premiums.

H. J. Freeman, Wichita, had a fine display of Buff Wyandottes, having 52 specimens on exhibition, all of prime quality.

Hubbard of Topeka was there with his Silver Wyandottes, winners at Missouri State, Des Moines, Iowa, and other

shows. He made a clean sweep here.

A new exhibitor appeared in the Red alley this year, in B. V. Hughes, of Lebanon, Kan., who won first on pullet, first on young pen and third on cockerel in Single Comb Reds.

M. K. Wright of Wellington came to the front this year with his White Wyandottes, winning first and second on pullet, first on pen, second on cock, and third and fourth on hen. Mr. Wright has shown at the state show for several years and though winning some honors, never made so conspicuous a winning as this year.

Clyde C. Whiteley, Wichita, made an extra good showing in S. C. Reds, taking 1, 2, and 5 hen; 4 pullet; 1 old hen and 4 young hen. He took the R. I. Red club silver cup for best display in Reds.

C. K. Whitney, Wichita, took the lion's share of premiums in White Rocks and all the premiums on Anconas. We learn that Mr. Whitney intends devoting all his time hereafter to Anconas, as he considers them the best egg layers. He aims to have 2,000 of them by next year.

Mrs. R. J. Molyneux, Wichita, held her own in strong competition in the Barred Rock class, taking first on cock and third on cockerel.

Mr. and Mrs. Ed Fleming, Wichita, are getting to the front with their Buff Orpingtons, winnings first on hen, first on young pen, and second on cock. The first hen was a beauty and the envy of all Orpington breeders. They will have eggs for sale from some fine specimens and all purchasers can be assured of a square deal.

Moore & Moore, Wichita, the old reliable Red breeders, were strictly in the winnings on Single Combs, with first cockerel, second pullet, fifth cock, and second and third young pen.

The Buff Cochins of J. C. Baughman, Topeka, attracted universal attention with their massive proportions, profuse feathering and lordly demeanor. He won all premiums and a splendid special cup for best cock, hen, cockerel and pullet in the show room.

A. J. Waddell's Buff Rocks never looked to better advantage, and he had lots of them—36 specimens. They swept the platter clean.

Stover & Myers, Fredonia, Kan., were present with Bourbon Red turkeys, White Indian Runner ducks, and Rose Comb Reds. They took five firsts on White Runners in strong competition, and three firsts on Bourbon Red turkeys.

Mrs. M. Kettering, Wichita, had a fine display of S. C. White Leghorns, taking first cock, third hen, and fifth cockerel. G. W. Lightner, St. John, was on hand with his Rose Comb Barred Plymouth Rocks. He is an annual visitor and keeps improving this specialty of his.

H. A. Wattles, Wichita, still sticks to the Columbian Wyandottes, and had a very creditable display of these fine birds.

A more studious or painstaking breeder of Barred Rocks than Mrs. H. E. Gonder, Wichita, would be hard to find, and her winnings among such strong competition is a great credit to her. She won second cock, second cockerel, second pen cockerel mating, third pen pullet mating, and fourth pen standard mating.

W. J. Roof, Maize, was on hand with his S. C. Brown Leghorns, and magnificent specimens they were. He took fourteen premiums on them, all the firsts but one.

H. L. Dewing, Wichita, had some very fine specimens of the popular variety White Orpingtons on exhibition, winning second cock, fourth pullet and third pen. He will have eggs for sale from his prize winners at very reasonable prices.

C. J. Page, Salina, had a fine display of Pekin and White Indian Runner ducks, and took quite a number of premiums.

The Wichita Buff Orpington Yards had a fine and large display of Buffs. The writer has known the proprietor, Mr. Munn, for over 20 years, and a more consistent and conscientious poultry breeder it would be hard to find. He believes in the utility part of the business as well as the fancy, and can supply the farmers with such utility stock as will do their flocks good service.

H. P. Swerfeger, Wichita, conspicuous as a Brown Leghorn breeder for many years, had many fine specimens of the breed on exhibition. He took third and fourth cock, second and third hen, fourth

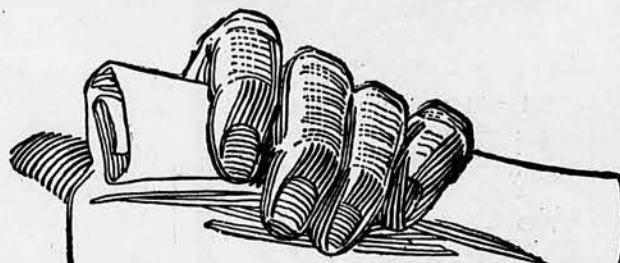
(Continued on Page Twenty-one.)



# I'll Put Your Stock in a Thriving Condition—

**Make the Ailing Ones Healthy and Expel the Worms**

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Doctor of Veterinary Science  
Doctor of Medicine



**U. S. Dispensatory  
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*Quassia.* Digestive Tonic and Worm Expeller.  
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*Common Salt.* Appetizer and Expels Worms.  
*Epsom Salts.* Laxative.  
*Nitrate of Potash.* Stimulates Kidneys.  
*Charcoal.* Prevents Noxious Gases.  
*Fenugreek.* Tonic and Aromatic.

The above is carefully compounded by Dr. Hess (M. D., D. V. S.), with just enough cereal meal to make a perfect mixture.

**I** URGE every farmer to see to it right now that his work horses are put in condition for the hard work of spring and summer, so that when the sun shines your horses will be rid of their old coats, full of stamina and ready for business.

And don't overlook the spring pig crop—the mortgage lifters. Start them off free from disease—free from worms.

Be sure, also, that your milk cows are thoroughly conditioned for the long, heavy milk-

ing season, and that those with calf are vigorous and fit.

Remember, your stock have been cooped up for the last few months and have been on dry feed. As corn or oats, hay and fodder do not contain the laxatives and tonics so abundantly supplied in grass, your stock are pretty apt to be out of fix. Some of your animals are liable to be constipated, rough in hair, their legs may have become stocked, or they have dropsical swellings, but the most common disease of all, especially among hogs, is worms—worms.

## Dr. Hess Stock Tonic

*A Splendid Conditioner—A Sure Worm Expeller*

Being both a doctor of medicine and a doctor of veterinary science, I know exactly what farm stock need to get them in condition for spring.

In my left hand I hold the formula of Dr. Hess Stock Tonic—showing every ingredient, what each ingredient is for, and you will notice that the U. S. Dispensatory—one of the world's greatest authorities—certifies these ingredients to do as I claim.

Look these ingredients over—Tonics to improve the appetite—Blood Builders to enrich and tone up the blood—Laxatives to regulate the bowels and Vermifuges to expel worms. I want to emphasize one fact as forcefully as I know how: Dr. Hess Stock Tonic will not only rid your stock of worms, but will put them in a condition unfavorable to worm development.

Remember, it's the cow in the pink of condition that fills the milk pail—the horse that digests his dinner that pulls on the bit—the steer with an appetite that lays on fat, and the hog that is well and free from worms that gets to be a 200-pounder in 6 months.

So sure am I that Dr. Hess Stock Tonic will put your animals in a thriving condition, make the ailing ones healthy and expel worms, that I have authorized your dealer to supply you with enough for all your stock, and if it does not do as I claim, return the empty packages and get your money back.

Now, listen, Dr. Hess Stock Tonic is never sold by peddlers, but only by reliable dealers whom you know. I save you the peddler's salary and wagon and team expenses, as these prices prove: 25-lb. pail \$1.60; 100-lb. sack \$5.00. Smaller packages as low as 50c. Except in Canada, the far West and the South.

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## Suggestions for Corn Growing

By C. C. Cunningham, in Charge of Co-operative Experiments, Kansas Agriculture College

**I**N the growing of corn, the early preparation of the seed bed will pay four years out of five. The nature of the early treatment will depend upon the locality, the kind of soil, and the way in which the corn is planted. Since the method of planting governs, to a large extent, the kind of preparation the corn land is to receive, a discussion of the relative merits of surface planting and listing is in order.

Surface planting is adapted to heavy types of soil and to the portions of the state where the annual rainfall is over 35 inches. In the western fourth or fifth of the state this method of planting gives best results. The lister method of planting is adapted to light soils and to localities of limited rainfall. In the western three-fourths of the state this method of planting is almost the universal one, and as a rule gives better results than surface planting.

Each method has its advantages and disadvantages and is superior to the other only when the conditions to which they are relatively adapted exist.

Corn planted on the surface usually germinates better, makes a more rapid and luxuriant growth than listed corn, and develops a greater capacity to produce providing growing conditions are favorable throughout the season.

Listed corn may be planted at less expense, can be cultivated to a better advantage than that surface planted, stands dry weather to a much better degree, and is not so subject to lodging. Listed corn is more likely to be damaged by heavy rains and is more subject to injury from moles and other rodent pests than is surface planted corn.

### PREPARING SEED BED FOR SURFACE-PLANTED CORN.

Surface planting necessitates the plowing of the ground. As a rule, deep fall plowing gives best results on most soils, and as far as possible corn land should be fall plowed and left in a rough condition to prevent blowing and soil erosion. Surface tillage during the spring to develop plant food and to prevent soil becoming too compact is advisable and sometimes necessary. The disk harrow, alfalfa renovator and the spring tooth harrow are excellent implements to use, depending on the extent to which the ground should be loosened. If fall plowing is impossible, early spring plowing is the next best; the earlier the better, providing, of course, the ground is in proper condition to plow. Such tillage as is necessary to keep the ground in good tilth between plowing and planting time should be given. This will vary with the season and the type of soil.

### PREPARING SEED BED FOR LISTED CORN.

When corn is planted with a lister, a number of methods of preparation may be employed. At the experiment station at Manhattan early disking, blank listing early and then splitting the ridges at planting time, blank listing early and planting in the same furrows, and early spring plowing were compared. In six out of eight years, considerable increases in yield were obtained as a result of the early preparation. The early disking of corn ground is practiced extensively and on the whole is a satisfactory method of preparing land for corn throughout most portions of Kansas where the lister method of planting is employed. The best time to disk varies with the season. If the freezing and thawing of the soil during the late winter leaves it with a good soil mulch, early disking is not necessary. It would be better to wait until a heavy rain forms a crust or a crop of weeds start. If, on the other hand, the ground is crusted badly when spring opens up, disking as early as the condition of the ground will permit is best. A second disking later may be advantageous if the ground becomes too compact, or a growth of weeds starts too far in advance of planting time. On soils that become too fine as a result of the disking, the alfalfa renovator may be a preferable implement to use if the ground is free from trash, as it does not pulverize the soil so much.

Double listing is a very efficient method of treating ground for corn under normal conditions. During extremely dry springs it is not a satisfactory method, as the ridged condition of the ground permits of the surface soil drying out too much. Where the ground is too firm for best results, double listing is preferable to single listing in that practically all of the ground is broken

up. Also the subsoil warms up to a better advantage on the listed ground. At the Manhattan station double listing, blank listing early and then splitting ridges at planting time, has given better results than single listing. Blank listing early and listing in the same furrows has also proved to be better than single listing at planting time.

In some years fall or early spring plowing of the ground for listed corn has given excellent results. The method is adapted to fairly heavy soils in the eastern part of the state. In this way the ground can be gotten in excellent tilth. However, if conditions during the spring are not conducive to the settling of the ground, too loose a condition will result. Also weed seeds turned under by the plow are likely to come up in the bottom of the furrow along with the corn and cause trouble. Unless the ground becomes thoroughly settled, it will be impossible to do a good job of listing.

Experiments show that no one method of preparing ground for corn is superior to all other methods for all conditions. It is immaterial how the ground is treated so long as certain results are obtained; that is, a favorable condition for the germination and early growth of the corn. In Eastern Kansas, the problem may be to get rid of excessive moisture. Throughout the central part of the state the problem is to maintain the soil in such a condition that it will absorb and retain as much moisture as possible. Just how to proceed to do this to the best advantage depends on the season.

### WHERE TO OBTAIN SEED CORN.

The yield of corn depends to a considerable extent on the variety and the quality of the seed planted. Because of the drought of 1913 very little home-grown corn suitable for seed purposes is available, and corn other than the 1913 crop of Kansas-grown seed will have to be obtained.

The best source of seed for any given locality is the home-grown seed of 1912. This crop was much above normal in quality and vitality, and where it has been kept under proper conditions is suitable for seed corn purposes. Home-grown 1912 seed, providing it is of good quality and of a suitable variety, is superior to corn introduced from other states or distant localities within the state. If home-grown seed is not available, corn grown on soils similar to that in which it is to be planted should be obtained within a radius of 75 to 80 miles, if possible.

In Northeastern Kansas there is sufficient good corn of 1912 and 1913 crops available to supply the local demand for seed. In a few favored localities in Southeastern Kansas, considerable corn was produced, and seed from these localities should be secured for planting in this portion of the state if it is available. If not, seed from Missouri should be obtained, that grown directly east and as near home as possible preferred.

For North Central Kansas, considerable seed of the 1912 crop is available, and whenever possible this corn should be secured. There is probably enough good seed of old corn in that portion of the state to plant a large per cent of the acreage providing all of it is put on the market for seed. Corn from East Central and Eastern Nebraska and Southwestern Iowa should be the next choice of seed.

The same thing applies to Central Kansas with the exception that 1912 corn from Northeastern Kansas should be preferred to that from more distant sources to the northeast.

For South Central and Southern Kansas, varieties of corn from Central Oklahoma that will be sure to mature in the comparative shorter season in Kansas should be preferable to that obtained several hundred miles north or northeast. In bringing corn north there is always danger of getting varieties that will not mature. There is also danger in sending too far north for seed, in that the corn obtained is too early maturing to take advantage of the longer growing season for the locality in which it is introduced.

Another thing to be avoided as far as possible is obtaining seed of varieties of corn grown on and adapted to bottom land for planting on thin upland. Bottom land corn may be superior in size and quality of ears, but it is not adapted to upland conditions and will not, as a rule, produce as well as upland-grown seed of good quality and of a suitable variety.

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You do not take a particle of risk when you send me an order for Ottawa fence. I not only save you from 50 to 100 per cent on what the same quality of fence would cost you anywhere else, but I guarantee that you will be absolutely satisfied in every way with every rod of fence you buy from me. If you are not satisfied for any reason whatever, it is your privilege to return the fence, and I will pay transportation charges both ways, and refund every cent you have paid me.

And that guarantee is in full force for all time—it is just as effective five years from the day you put up your fence, as it is right now. If the Ottawa tie ever slips, or if the fence proves defective, or not as represented in any way, ship it back to me and your money will be refunded. I am more than willing to take all of the risk, because I know that my fence has the sort of quality which justifies every claim I make regarding it.



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Per Rod	Per Rod
18 in. hog fence.....11c	60 in. poultry fence....25 <sup>3</sup> / <sub>4</sub> c
26 in. hog fence.....14c	42 in. ex. heavy field fence 22c
48 in. poultry fence....22 <sup>1</sup> / <sub>2</sub> c	50 in. heavy field fence.24 <sup>1</sup> / <sub>4</sub> c

These are unusual bargains as compared with the price your local dealer would ask you for the same quality fence—but these are not unusual bargains when compared with the other 168 items listed in my big catalog, because every item is a big value bargain which I do not believe you can duplicate anywhere in America.

#### "Perfect in Every Way"

Carroll, Wyo., Oct. 20, 1913.  
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Dear Sirs: I am well pleased with the woven wire I got of you last Spring, and don't believe there is another factory in the U.S. that puts out as good wire at the same price. The wire has proved to be perfect in every way.  
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# HOME CIRCLE



Never set a freshly baked cake in an open window to cool. The steam will condense and make it heavy.

A very good imitation of pistachio flavoring may be obtained by combining lemon and vanilla extracts.

Have you had trouble with your rubbers wearing out at the heel while the uppers are still good? To overcome this difficulty with the next pair place an old piece of rubber or velvet in the heels while they are new and they will wear much longer.

Every housekeeper appreciates smooth, clean looking eggs, consequently this kind is always in greater demand by the retailers. To give a beautiful clean look to the shells wash them with a cloth and sand-soap, rinse them in clean water and then put them out to drain and dry on a tray covered with a Turkish towel.

Salt is good to remove ink stains from a carpet or rug if it is used immediately. Cover the spot with the salt and the ink instead of soaking into the carpet will be absorbed by the salt which acts like blotting paper in soaking it up. As the salt is discolored remove it and add a fresh supply. When the salt no longer becomes stained remove it and wash the spot with tepid water without soap. Ink stains cannot be removed successfully after they have dried in.

According to the rules of a good pastry cook, you should always use the same kind of shortening to grease the pans as is used in the cake. Where sour cream is used for shortening in the cake use butter to grease the pans. Also when butter is used in the pans melt

the butter and let it stand long enough for the salt to settle. Pour off the melted butter and with it grease the paper and sides of the tins.

### Poultry Plant a School Room.

Upon the women of the farm depends to a large extent the important place poultry has taken as a farm industry. In spite of their multitudinous duties in the home in caring for the household and administering to its many wants, the farmers' wives and daughters find time to set the hens, care for the little chickens during the summer season and do it all so successfully that a cash return of over \$11,000,000 is credited to the sale of poultry and eggs from the farms of Kansas for the year 1912.

Woman's place in the home has given her the care, largely, of the training and development of the boys and girls, and the work she is doing with the poultry furnishes a splendid opportunity to teach the young people of the farm many valuable lessons. Using the poultry plant as a school room and laboratory for the education of the children may be a new idea to some of our women who have thought of it only from the standpoint of increasing the bank account or paying the various store bills.

A bulletin of the Extension Division of the Agricultural College has the following valuable suggestions along this line:

"Keeping the boy and girl on the farm is a great problem which confronts those who would see our farms owned and managed by intellectual American farmers. The bright boy leaves the farm because the farm does not interest him. The girl leaves to secure some means of an independent revenue. Often the trouble is that there has been no effort made to interest them in the work of the farm. Let the children help with the chickens, require them to keep an account of their business, and let them have the profits, or a stated percentage of the profits, for their spending money or for additional clothes. The little money accumulated by the children from the poultry yard, if its expenditure is properly directed by the parents in the subscriptions for poultry papers, books of interest, etc., will furnish reading which will improve the intellect and produce a better generation of men and women.

"If the boys and girls wish to send and get some pure breed of stock, help them to pick out reliable breeds. When they raise some pure-bred chickens of their own, allow them to send them to a poultry show, or better still, take the chickens to the show and take the boy or girl along. All of this may not prove immediately profitable, but in the end it will be a most paying investment.

"The child who learns in youth to earn something for himself will become independent in business affairs, and will acquire the desire to lead and excel and not to live always at the dictation of others. It is equally important to the boy if he has any aptitude for that kind of knowledge, in that he will become interested in the general work of stock feeding and breeding.

"It is natural for our children, at the age of six or seven, to admire anything that is young, and we know of nothing more attractive than the downy chick. This is the time to teach the child to appreciate the good things God has provided, and if given a few chicks to feed and care for under the advice of a thoughtful parent the child will develop a love for nature and will grow up to be a more useful person. The many vacant lots that are now allowed to go to weeds could be cultivated and made to produce some of the necessary food for the chicks. The parents could buy the eggs from the child, teaching him to purchase or raise the feed and learn to keep accounts of receipts and expenditures. By this means the boy or girl would be taught the first principles of true business and taught to calculate so as to make his efforts profitable. There is a boy living in Manhattan not yet in his teens, who is a better judge of poultry than many men of sixty. He has a few hens that are his pride and joy, and instead of wasting away his time, he has something to occupy his mind, and keep him from many of the questionable amusements of town for a boy of his age."

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## Argentine Grain on Market

Correspondent Comments on demand for Pasture, Fat Lambs, Horse and Mule Prices

**A**RGENTINE is attracting more attention than ever in the American markets for wheat, corn, oats and cattle. What's the latest about the condition of the new corn crop in Argentine? How much wheat is that country shipping? What are its exports of beef? Is it selling oats to the United States?

Questions on this order are being discussed daily among dealers in farm products at Kansas City and other important agricultural centers. They are pertinent because Argentine is one of the world's greatest exporters of wheat, corn, oats and beef. As Argentine has just taken advantage of the reciprocal clause in the new United States tariff, she can now enter our ports with her wheat without paying a duty. Also, she can and is coming here with beef and corn, and offering oats. Before the new tariff went into effect Argentine attracted interest in the United States only because the size of her crops played an important part in determining world prices and affected the demand for the outlet of the surplus of American farms.

The other day the KANSAS FARMER market correspondent received a sample of Argentine corn from a Kansas City brokerage house with eastern connections. This grain is just as already described in this department—small and flinty and much like American popcorn. None of the extensive consumers at Kansas City was enthused over it, although all are eager to obtain corn as cheap as possible. Still, the grain has a value for commercial purposes and promises to continue to be a bearish factor in American prices as long as no tariff bars exist, or until the Argentine farmers begin to consume the crop they produce at home.

There is a likelihood of a crop of 235,000,000 bushels of corn in Argentine this year, although growing conditions recently have not been favorable. Such a crop, while small in comparison with the enormous yields of the United States, will mean much to our commercial supply, which is less than one-fifth of the aggregate domestic production.

May is the month for harvesting corn in Argentine, and December and January are the wheat gathering periods. The new Argentine wheat crop is not moving to market in the same volume as a year ago, and there is talk of an exportable surplus there for 1914 of only 40,000,000 to 75,000,000 bushels, compared with over 100,000,000 the past year. If the lowest estimate is correct, United States prices will be strengthened, as foreigners will have to buy more wheat in this country.

Argentine has been trying to sell some oats at Galveston at less than 40 cents per bushel, but it is not believed that any purchases have been made as yet. There is still a duty of 7 cents per bushel on oats. Argentine's present crop of oats is placed at 75,000,000 bushels.

Shipments of beef continue to come to eastern ports in large volume from the South American country, but they are having almost no effect on prices here now. There is a rumor that American packers are keeping supplies of the foreign product from this country, and the government has started an investigation. English handlers of meats are said to have made arrangements to enter the New York market with Argentine meat. So far as the present year is concerned, the Argentine offerings are not expected to affect prices here. There is a healthy undertone in American cattle markets.

Readers of KANSAS FARMER in the Flint Hills pasture area of Kansas are interested, of course, in the probable demand for grass in the approaching season. The KANSAS FARMER market correspondent has been looking into the pasture leasing situation, not only for the benefit of the Southern Kansas readers, but for stockmen in general. The Flint Hills pasture business, it should be remembered, is a factor of no small importance in the cattle trade in general. Something like 200,000 cattle are pastured each summer in the Kansas district around Greenwood County. The marketing of these cattle when fat means much in the Kansas City live stock runs.

So far very few contracts have been made for Kansas pastures. Recalling last year's drouth, cattlemen are demanding lower rates, as much as \$8.50 per head—a record price—having been

paid last season. A few years ago \$5 per head was considered a high price for the summer pasturage.

That demand for pastures may not be as heavy as last year is the present indication, due largely to the fact that range conditions in Texas have been ideal. Texas range cattle are now in better condition than at the opening of winter, which is very unusual. It is probable that many Texans who ordinarily move cattle north will fatten them on their own ranges this season. Colorado, on the other hand, may seek more pastures than last year, having had a rather severe winter. There is talk of a heavy movement from Old Mexico, but that depends on the outcome of the present rebellion in the immediate future. If the Mexican movement is as heavy as some stockmen anticipate, the shortage from Texas may be offset so far as Kansas pastures are concerned.

The present buoyant tone of the cattle market is favorable to the pasture owners, as it is reviving bullishness among stockmen. Besides, the money market is growing easier, and there is a likelihood of less difficulty in financing the summer cattle grazing business in Kansas, which involves millions of dollars in the aggregate.

Horses and mules are upsetting no trade calculations. The market is fully as good as expected, and it is far better than some pessimistically inclined breeders have been expecting in view of the increasing supplies in the country and the advance of the motor trucks.

Cotton mules are selling at prices as high as ever. Hundreds are moving to the South. The month of January will go down in the history of the Kansas City market as one of the best ever experienced by dealers in mules. The farmer who has a fat cotton mule 14.2 to 15.2 hands high will be throwing away money if he does not receive an unprecedented price for his animal. Fat is still a very big factor in the price, and the more flesh mules carry the more money they should bring.

The East is buying as many draft horses and chunks as the most optimistic trade students predicted several months ago. But the trade is suffering from one handicap—the lack of fleshy animals. It is not very safe to ship a thin horse half way across the country in cold, stormy weather. And if the thin animals arrive alive after such a trip, they often present such an unattractive appearance to the teaming interests in the big cities of the East that they refuse to bid on them. There is still plenty of time to fatten horses intended for market, and farmers should not hesitate to do so. It will pay well. The spring demand promises to be much better than at present.

Thin chunks and draft horses are selling now at an extraordinary discount, being \$10 to \$20 per head lower than a year ago, while fleshy grades are fully as high as in 1913. Whether the thin animals will improve remains to be seen. Demand for them will depend to a degree on the farm buying of horses in the spring. Dealers expect a good demand for mares, but feel that the remarkably open winter, which has enabled many farmers to do much plowing, may tell in a falling off in the purchases of horses for spring farm work. The farm mule demand may be affected similarly. Southern horses continue to sell at record prices. They are worth up to \$165 in Kansas City.

Receipts of both horses and mules are running slightly ahead of the corresponding time last year.

Notwithstanding increased cost of feeding stock and high cost of feed, fat lambs are selling now under the prices of a year ago. The present returns, as a rule, represent no profit to the majority of feeders. On the other hand, fat ewes and wethers are fully up to the prices of a year ago and more remunerative.

The situation in the trade is disappointing for the present, although the winter feeding season thus far has been satisfactory, as indicated in these columns weeks ago. Perhaps the trade would be on a higher level now but for the fact that the profits of feeders early in the season, together with the surprising accumulations of feed, induced a lot of farmers to put lambs into feed lots late, thereby increasing the supply of fat offerings indicated at the close of

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the active movement into feed lots. Muttons are selling to better advantage than lambs, because they are relatively fewer on feed than usual the last few years.

Colorado has been selling lambs freely, due partly to adverse weather, especially in the San Luis valley, where the little animals are fattened in pea fields. Heavy snows have covered many of the pea fields in the San Luis district, and fully 100,000 of the 200,000 on feed there have already been marketed. Another unexpected feature of the market is the liberal receipts at Atlantic coast markets, indicating that the East is handling more lambs and sheep than a few years ago.

In view of the outlook for a light spring lamb crop and the improving industrial conditions over the country, the market later may be better. There is a feeling that it will not go below the present level, at least.

#### Light Brahmas as Utility Fowls.

As I understand it the meaning of the word "utility" is usefulness or profitability. Well, if there is a more profitable fowl than the Light Brahma I do not know what it is. I have bred this noble bird for 27 years and though I have bred many other breeds during this time I have always kept the Light Brahmas. I live at the edge of the city, two blocks off Main street and have always kept them confined to yards. They stand confinement better than most breeds. In the first place a three-foot fence will keep them in, and as all breeders know to get the best results from chickens they must not be of an excitable nature. When strangers or dogs or anything disturb them they do



WHITE ROCK COCKEREL—PRIZE WINNER—OWNED BY CHARLES C. FAIR, SHARON, KAN.

not try to fly out of the yard, but go along in a quite manner. As a layer when eggs are scarce in the winter I have had good results. While they do not mature as early as some breeds, when they start to lay in the fall the cold weather does not affect them as it does a bird with the large comb and lighter feather. We say that the comb is the thermometer of a chicken, but the pea comb of the Brahma is not affected by the change of weather. I now have pullets that were hatched the first week in May that started to lay January 3. While the standard calls an 8-pound pullet by January 1, the Brahma can come as near up to weight as any. I took first pullet at three shows, my first exhibition pen; and first pullet at the state show in a yard. On returning from the 1913 shows I gathered 121 eggs in February, 154 in March, and it was a bad month; an average of nearly five eggs a day. I wanted to convince the people that a show bird can be a utility bird also. For market fowls I cull my cockerels out about November 1 and put them in the fattening pen and get from \$1 up for roasts for the holidays. I make them weigh from nine to 12 pounds and get 12 cents a pound. I find that it takes no more feed to raise a large bird than it does a medium sized one as they do not run around as much and are more quiet. I had three yards last year and had only two that wanted to set before June 1, so you see that if handled right they can be made to produce a large number of eggs, and for a family eight of the Brahma eggs are equal to a dozen or ordinary eggs. I have raised 240 chickens from a pen of 10 pullets and a cock to maturity, and after culling out many to eat sold the best for breeders. A farmer cannot do better than to buy a few good Brahma cockerels to run with his flock thereby increasing the weight of his chickens for market, also getting larger pullets for the next year. If he pays \$5 each for

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You are stacking your hay. Every one is working at fever heat to get it all in before the weather man changes his mind. Above everything you hope that the rope won't break. If it does, money-making time is lost in splicing and possibly sending to town for new rope. You can afford to buy none but the most dependable rope and keep a supply on hand.

**Save Time, Money and Worry by having Columbian Pure Manila Rope on your Hay Fork this year.**

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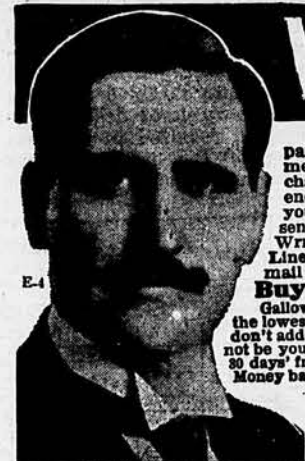
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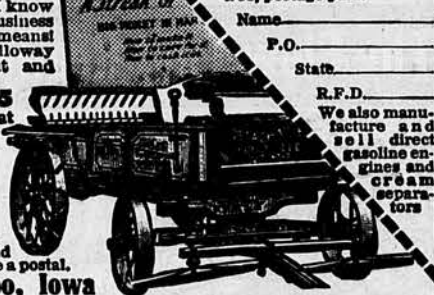
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Galloway manure spreaders are made in our own factories and sold direct to you at the lowest prices ever made. You don't have a lot of middlemen's profits to pay which don't add one cent of value to any machine. Isn't that a fact? It certainly is! Then why don't you own dealer and buy on my direct from factory, money saving plan? With 30 days' free trial privilege—5 year guarantee and \$25,000 bond back of every machine. Money back, with freight paid both ways, if not satisfied. Can you beat it? Never.

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Please send me your spreader catalog, New 1914 Special Offer and "A Streak of Gold" book free, postage paid.



them and hatches 300 chickens and makes a gain of two pounds each in weight at 10 cents a pound he has made money and a Brahma crossed with a common four-pound hen will produce a six-pound pullet or heavier. I put it low, as I have raised over six and one-half pounds on an average from common hens the first cross. At this time when meat is high it will pay to try it.

In conclusion will say that while other breeds have come and gone, the demand for the Light Brahma is increasing and I have sold more birds so far this year than ever before at this period, and for pounds of meat and pounds of eggs the Light Brahmas stand at the head with a record of 281 large eggs, equal to 420 eggs of the Leghorn in weight.—W. W. WARD, Nickerson, Kansas.

#### Why White Rocks Are the Best.

I wish to tell all readers of KANSAS FARMER why I consider my breed, the White Rocks, the best. I was a long time experimenting with other breeds but after trying Leghorns, mixed, etc., I purchased a few settings of high class eggs of the White Rock variety, and have never regretted it. When you consider the snow white plumage, the bright red head and rich yellow legs you can form some idea of the beauty of the breed from a fancier's standpoint.

Their long bodies, full breast and capacity for laying eggs when eggs are high during the winter, and keeping it

up through the spring and summer, easily gives them a favorite place on the farm. When a hen has completed her years of usefulness as an egg machine she will weigh from seven to nine pounds and at market value is worth \$1 or over.

The young chicks mature rapidly and for broilers are considered the best in the world. The young cockerels not fit for breeders are fine for capons. The production of capons is an industry that is just in its infancy, but destined to be a large one in time.

Now I wish to give a few facts and figures to substantiate my claims. Last year was the first year I thought my quality and quantity of stock warranted advertising. I had 120 high class hens mated with large cockerels. In January they were laying on an average of 20 eggs per day. By February 8 they were laying 50 eggs per day and I shipped my first hundred eggs, receiving \$4 for them. From that time until June 6 I sold every egg fit for hatching at \$1 per fifteen, or \$4 per hundred, selling \$300 worth besides setting my three incubators for myself. This fall the cockerel trade has been good, selling from four to 21 a week at different prices. This winter eggs are worth 29 cents here and my hens are helping to reduce the high cost of living. It takes work, but what can we get without work that is worth anything.

For the reasons given I believe White

Rocks are the best breed for both farmer and the farm; they have proven so to me and I would say to anyone wanting to start in the pure-bred poultry business that they can make no mistake in starting with White Plymouth Rocks.—NELLIE McDOWELL, Garnett, Kansas.

#### The Why of the Leghorn.

What kind of poultry pays me best? The S. C. Leghorns. Why? For utility in meat and eggs.

The poultry farms throughout this broad country are mostly stocked with the Leghorns. For eggs they are commonly known as the "egg machine."

I think that the experiment stations, in fact I know that they will bear me out that the Leghorns are the best layers. It makes but little difference, brown, buff or white, they are all busy hustling, never still, always working while not on the nest.

A flock of one kind is always pleasing to the eye. They are easily kept, both in feed and room, requiring at least one-third less in feed and room than larger varieties.—H. C. SHORT, Leavenworth, Kansas.

There is no better time than the present to get a start in pure-bred poultry. Look over the advertisements of the poultrymen in this issue of KANSAS FARMER and send to them for their catalogs and prices.



# SHARPLES MILKER

Easy to Clean  
Easy to Keep Clean

"They are easy to take care of," writes one SHARPLES MILKER user, whose name we will be glad to furnish on request. "When we get through milking we milk a pail of water through them, the machine is cleansed in water about scalding, then placed in a solution of lime water."

"The machines do not hurt the cows. We have used them eighteen months. To anyone in the dairy business I would recommend them. We are milking around seventy cows daily in an hour and ten minutes. We use five units."

"One man attends to the milkers and another man strips the cows. The cows like it better than hand milking and it does away with the labor problem. I had to keep eight and nine men on my farm, but after pay day we might have one or two to do the milking. It just made things hum for the foreman and one or two men that would be regularly on the job. Now we are



under no obligations to them. Everything works smoothly and there is no friction among the men picking out the easy milkers and all those stunts."

The SHARPLES MILKER now is being used in dairies of from 15 to 700 cows. Built sturdily, its operation is absolutely reliable.

Ask the editor of any national authoritative dairying paper what he thinks of the SHARPLES MILKER.

Catalog on request.

**The Sharples Separator Company**

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Dallas, Texas Portland, Ore.  
Omaha, Neb. Minneapolis, Minn.  
Toronto, Can. Winnipeg, Can.  
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Agencies Everywhere

# THE FARM

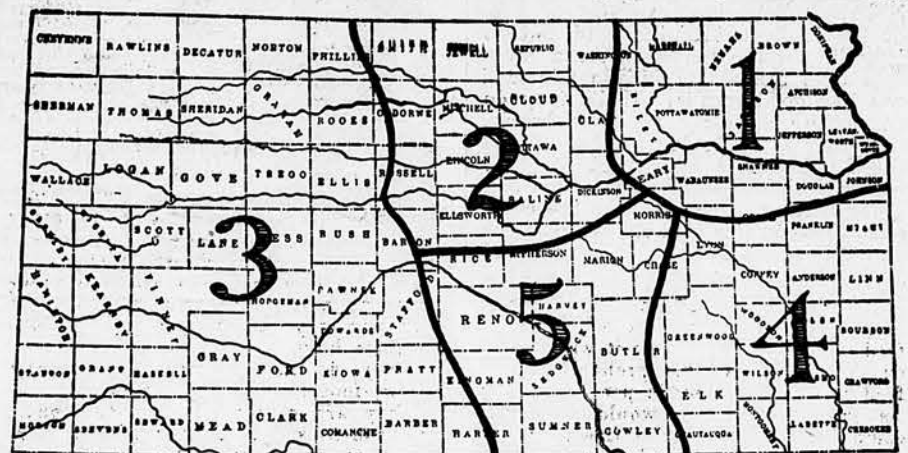


Except, of course, in the matter of getting the fields into condition and the planting machinery into shape, there is nothing of greater importance to KANSAS FARMER readers at this time, than that of securing the necessary seed of the right kind for the several spring crops. We are really anxious that our readers appreciate the advantages through securing good seed. As has already been stated, to get good seed will be more difficult this year than for many years past. We really believe that desirable seed will not be extremely difficult to obtain provided the farmer will begin right now to locate seed and to inquire carefully into its quality before buying, or at any rate a sufficient time before planting to secure good seed in case that on hand or that bought does not, after a test, grow. We have remarked relative to the necessity of testing corn and kafir seed and have stated what course to pursue in looking for suitable seed. A large part of the corn and kafir must this year be bought from seedsmen. Those seedsmen advertising in KANSAS FARMER have been doing business with us and with Kansas people for many years and are reliable. These seedsmen have fully appreciated the situation relative to seeds, and particularly corn, and have done the very best possible under the circumstances, in securing the best available seed in such quantities as may be needed. We urge our readers to get in correspondence with these men and find out what they have to offer. The seed should be bought now. Delay is dangerous.

We recall the experience of one KANSAS FARMER reader who last spring delayed getting his seed corn until a few weeks before planting. On account of the condition of the ground he was not able to begin planting as soon as he expected and in the meantime tested the corn he had bought. It showed only about sixty per cent of germination. Before he could get other seed his planting was delayed. However, in the meantime he planted a small quantity of seed corn he had elsewhere obtained and this made a crop. The week of delay waiting for other seed, resulted in the loss of that portion of the crop. It cost this reader several hundred dollars to

able to the outlook for good spring planted crops. However, evaporation from all fields will begin with the spring winds and at that time the moisture now in the ground will be dissipated. The fact is that much of our fall and winter moisture is wasted before we get the crops into the ground. If we would save this moisture for the use of the growing crop later, some cultivation should be given the fields just so soon as the ground is in condition. The character of the cultivation will, of course, depend upon the location of the land and the probability of damage to it by blowing. The cultivation should be such as to leave the ground rough and should be east and west across the fields in those sections of high winds. The deeper the cultivation the better the soil moisture will be conserved. This applies to those cultivations which can be given before planting. The depth of cultivation after planting must be regulated, of course, by the character of the crop with a view to not disturbing the roots. Early cultivation will permit of early planting, too.

The map in these columns is re-printed from KANSAS FARMER of February 1, 1913. It is here reproduced because of inquiries received during the past few weeks as to the varieties of corn best adapted to the different sections of the state. The map and the varieties listed for the different sections are made up from data compiled from information obtained from various sections of the state. The information comes principally from the observations of the agronomy department of the Kansas Agricultural College. Besides the varieties named, there are many local varieties grown which give good results. The map and the varieties reported as adapted to each section will aid KANSAS FARMER readers in locating the varieties of seed corn believed to be best for his locality. Section 1—Reid's Yellow Dent, Boone County White, Hiawatha Yellow Dent, Kansas Sunflower, local varieties. Section 2—Kansas Sunflower, Iowa Silver Mine, Boone County White, Reid's Yellow Dent, Hogue's Yellow Dent, Nebraska White Prize, local varieties. Section 3—Pride of Saline, Iowa Silver Mine, Albright, Calico, local varieties.



KANSAS MAP SHOWING DIVISIONS TO WHICH SEVERAL VARIETIES OF CORN ARE ADAPTED

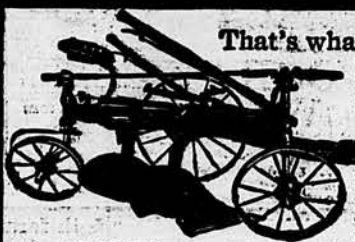
delay in securing seed and seed was not so difficult to obtain last year as it is this year. In the case of a corn crop a few days' delay may result in the loss of the crop.

It appears to us that all conditions are favorable for a good crop this year. Not in years has the ground been so thoroughly wet as at present and this is a condition which indicates that at least during the early part of the season growing conditions will be extremely favorable. Just what the character of the spring will be, no one can know. That is, whether it will be wet and cold or warm and dry. Good, strong seed is needed to insure the best crop results. Should either of the extremes above mentioned prevail, seed which will withstand the adversity of unfavorable growing weather is needed. For these reasons, principally, the best quality of seed should be obtained. We have never before seen so much fall plowing and blank listing in Kansas as was done last fall. This is another condition favor-

Section 4—Hildreth, Kansas Sunflower, Commercial White, Boone County White, Reid's Yellow Dent, Golden Beauty, local varieties. Section 5—Kansas Sunflower, Hildreth, Boone County White, Iowa Silver Mine, Reid's Yellow Dent, McAuley, local varieties.

While considering the matter of seed corn and corn planting, our readers should not overlook the advantages of planting an acreage of grain sorghums sufficient to insure a supply of grain for feed and roughage. We do not believe there is an upland farm in Kansas which cannot afford to plant on uplands at least half as much kafir or milo as has heretofore been planted to corn. The areas in which the several grain sorghums should be planted will be reported in KANSAS FARMER next week. Good quality of grain sorghum seed will be as difficult to obtain as good quality of seed corn. However, even with such grain sorghum seed as is obtainable, the sorghums will give a greater feed assurance than will corn on the uplands.

## The Plow That Really Makes You Money



That's what "C. T. X." has proved in the past five years. Comparison and actual test have proved it. Thousands of keen farmers have discarded their ordinary plows for the money-earning advantages of the "C. T. X." There must be great advantages in the new plow. The Rock Island "C. T. X." Universal Plow has won an army of farmers in its five years of existence. In every test, in every kind of soil, the "C. T. X." wins. Tame sod, heavy clay, sandy loam, gumbo, waxy or mixed soil, stubble fields or old corn-stalks—the one universal bottom handles them all.

### Rock Island "C. T. X." Universal Plow

is the best crop insurance you can buy. It's the only plow that absolutely and positively leaves no air spaces to cut off moisture from below. This means real drought protection. In dry weather, moisture comes to the plant roots—just like kerosene comes up your lamp wick. Air spaces have killed many a crop—they won't kill yours if you use a "C. T. X."

The Rock Island "C. T. X." Universal Plow has an auger-like twist of the mouldboard. This exclusive feature makes the dirt travel backward and downward—not backward and upward. This makes a cleaner furrow and a more thoroughly pulverized soil than any other plow bottom. Each slice—either two inches or down as deep as you ever want to go—lies even and flat against the subsoil. It turns clear over, burying all trash completely.

#### An All-Purpose Plow

The Rock Island "C. T. X." Universal Plow is adapted to all conditions—all soils. Saves buying extra bottoms. Pulverizes much more, so it saves at least one harrowing. It is a work saver, a money saver and an increased crop producer. And tens of thousands of farmers have proved it! Let us tell you all about this wonderful plow—what it does, what it saves, what it costs. You are the judge and jury. A postal brings all the facts, including the most complete booklet on plows ever published. Write and get 'em now—before you forget it.

ROCK ISLAND PLOW CO.  
214 Second Ave. Rock Island, Ill.



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ADVERTISING PAGE FOR READY BARGAINS



The use of the silo and the value of kafir and cane silage as compared with corn silage should result in an increased acreage of the sorghums on those farms and lands which may be regarded as adapted to corn. In the best year the sorghums will yield a tonnage for silage which will not place them at any disadvantage as compared with corn, so we think the silo-owning farmer—even though he has the best corn land—will be benefited by planting kafir or cane for silage. At least, we think he will be overlooking a good bet if he depends wholly on corn and does not plant a kafir acreage sufficient to fill his silo in case of corn failure.

Kafir seed is coming into Kansas in considerable quantities from Oklahoma. We do not know what care is being exercised in securing kafir seed of good quality—that is, in so far as its purity is concerned. The chances are, however, that such seed is mixed but it is well to remember that kafir being earlier and more dry weather resistant than corn, will in anything like a normal year in Kansas, give better results and more successfully endure hardships than will corn and so the purity of such seed is not so important. So, from a feeding standpoint we think the farmer who does not have the best of corn land in a section having at least thirty-five inches of rainfall per year, should lean more strongly to kafir than heretofore. To plant corn on the uplands west of a line drawn through Beloit, Hutchinson and Anthony, comes near being the rankest kind of folly in so far as our judgment goes. Kafir, we think, should be planted on the uplands east of this line and milo and feterita west. Briefly, this is our idea of the areas adapted to corn, kafir and milo and these ideas are supported in a general way by the observations of many men who have for years observed the performance of these crops in the several sections. As has been stated above, detailed explanation will be given on this point in an early future issue and this should at this time suffice in inducing the reader to give some thought to those crops of which he is likely to need for next year's planting.

#### Feeding Out Load of Cows.

Our subscriber, G. D. of Butler County, writes us that he would like to have suggestions as to balancing a ration for the feeding out of a carload of cows averaging about 900 pounds at the present time. Silage is the only feed he has on hand, having to buy all other feeds; corn costing 70 cents a bushel, cotton seed meal \$31.50 per ton, molasses feed \$30 per ton, alfalfa \$17 per ton.

This subscriber asks especially concerning the use of a self-feeder for feeding shelled corn and also as to the advisability of using some of the molasses feed. Having to purchase all these feeds, as is necessary with our correspondent, makes the cost of finishing these cows come high. The silage, if sufficient in quantity, can be used as the roughage part of the ration and will be somewhat more effective than dry roughage. We would advise feeding at least 20 pounds of silage daily per head and more if the quantity on hand would justify heavier feeding. The feeding of the silage should be calculated so that it will not run out before the cattle are ready for the market. With alfalfa hay at \$17 per ton it is questionable whether it would pay to feed very much, if any. If it was already on the farm it would probably pay to feed five or six pounds per head daily. As grain ration we would suggest a combination consisting of five pounds of corn, five pounds of molasses meal, and two pounds of cotton seed meal. Of course this heavy a ration should not be fed at the start. A smaller amount of these feeds should be given, gradually increasing, using the amounts suggested as about the maximum amount of grain to be fed. Some additional roughage would be a desirable addition to the ration and if straw or any form of cheap roughage is available it should be supplied so that the cows may eat as much as they care to. It has been found that the use of silage seems to stimulate the consumption of considerable quantities of rather dry, inferior roughage, such as straw.

Our subscriber's letter makes no mention of any particular brand of molasses feed. We would suggest than any brand purchased should be purchased on the basis of its guaranteed analysis. Some of these molasses feeds are high in feeding value and give most excellent results. Molasses has a stimulating effect and increases the palatability of the whole ration. The molasses takes the place to some extent of corn, since the nutrients it contains serve the same purpose as the nutrients contained in corn. It is not usually desirable to use

a self-feeder when feed is high priced. A given amount of grain fed by a careful feeder will give better results than the same amount of feed used through a self-feeding device.

#### Indian Runner Ducks Profitable.

In my twenty years experience with pure-bred poultry I do not recall a variety of fowl that sprang into popular favor and held on to its popularity as has the Indian Runner duck; and there is a good reason.

Allowing for the boasting and exaggerated claims that are ever made by over-enthusiastic breeders of new varieties, the fact remains that they are great layers and if rightly managed, very profitable fowls upon the farm.

When we remember that the average hen produces but about seventy eggs per year and the scourage of disease and vermin that she and her offspring are heirs to, it does not seem strange that the Runner duck is in great demand. This is our fifth year with them. We keep from one hundred to four hundred, depending on the season of the year, upon our farm, and think we know whereof we speak on the matter.

We find that with proper feeding and care from 180 to 200 eggs per duck per year can be depended upon. This claim, I realize, is very modest, as compared with the claims of many eastern breeders; but we do not practice the intensive egg producing methods, nor feed the highly stimulating rations that they perhaps do. Such handling as we give them and such results as we get may be had on any ordinary farm with the care of any ordinary poultry keeper.

They do not require the careful housing the chickens do. A dry shed, opened to the south and bedded with straw, makes them good winter quarters at night. They should be given free range of field and orchard after 9 A. M. each day, and they will pick up a goodly part of their living.

They do not require high fencing. A two-foot fence being sufficient.

They are modest eaters. One quart of mash to six ducks, twice daily, composed of one part each of bran, corn chop and shorts, and one-half part commercial beef scrap, we find an ideal ration.

Next to egg production, the quality that appeals to most duck raisers is their freedom from disease and vermin. No roup, cholera, limberneck, liver trouble, scaly leg nor frosted combs. Just think of it! And best of all no lice nor mites nor broody hens to "breakup."

Of the three varieties, the English penciled, the Fawn White and the Pure White, we find very similar; only popular demand leans most toward the last two named. The Pure White has advantages over the rest in always laying pure white eggs and being of solid color breed more true.—MRS. C. H. MEYERS, Fredonia, Kansas.

That some feed or condimental can be called an egg-producing feed is erroneous. Often meat scrap or other feed, when added to the ration, will cause hens to lay. The value is not in the feed, but in its ability to balance the ration. A balanced and nutritious ration is as important for egg production as for milk production.

## Jim Rohan and Winners of Belle City's Eight World's Championship Hatches



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of the World's Championship winnings of my Belle City Hatching Outfit. Send for my great Free Book "Hatching Facts." It tells everything. Tells you how thousands of men and women are scoring 100% perfect hatches—how they are making big money on small investment with my Eight-Times World's Champion Belle City Hatching Outfit. More than a quarter of a million Belle Cities in use. Satisfy yourself. No other incubator made, not even the highest priced, approaches the amazing record of my

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enables one man to change wagon boxes, stretch fence and handle heavy loads easily. It elevates, lowers, locks and unlocks with one rope only. Holds load at any point. Heavier the load—tighter the grip. No. 3—Capacity, one ton, \$2.75. One of a dozen sizes, 400 pounds to 4 tons.

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Atlas Farm Powder is made especially for the farm. It costs little and works wonders in clearing land of stumps and boulders, breaking up the subsoil, tree planting, ditching and draining. It saves labor, time and money.

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Our valuable book, "Better Farming," tells how to improve the fertility of your farm—how to clear land, grow bigger crops, better fruit, and make Atlas Farm Powder take the place of expensive labor. Fully illustrated. Send the coupon and get it FREE.

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### The Healthy Herd

Hundreds of herds are kept in the prime of health and productiveness by the occasional use of KOW-KURE, the great cow medicine. KOW-KURE has no equal in the cure of the common cow diseases of Abortion, Retained Afterbirth and Barrenness. It is also a positive cure for Bunches, Milk Fever, Scouring, Red Water and Lost Appetite.

But it is better to prevent than to cure. The periodical use of Kow-Kure in small doses will effectively prevent these diseases, and make the healthy herd pour a constant stream of profits into your pockets.

If you have a backward cow, buy a 50c package of KOW-KURE, and give according to directions. It will do wonders. 50c and \$1.00 packages at all feed dealers and druggists.

Dairy Association Co.,  
Lyndonville, Vt.

**KOW-KURE**

## 15<sup>95</sup> AND UPWARD ON TRIAL AMERICAN CREAM SEPARATOR

A SOLID PROPOSITION to send fully guaranteed, a new, well made, easy running, perfect skimming separator for \$15.95. Skims warm or cold milk; making heavy or light cream. The bowl is a sanitary marvel, easily cleaned.

Absolutely on Approval. Gears thoroughly protected. Different from this picture, which illustrates our large capacity machines. Western separators filled from Western points. Whether your dairy is large or small write for our handsome free catalog. Address:

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saves high lifting, lighten draft, don't rut roads. Spokes don't loosen—wheels don't dry out or rot. Write for free book on Wagons and Wheels. Electric Wheel Co., 34 Elm Street, Quincy, Ill.

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# DAIRY



Last week the editor attended the annual meeting of the Nebraska Dairyman's Association. It has been our privilege for a number of years past to attend the annual meeting of the dairy associations of Kansas, Nebraska, Oklahoma and Missouri. The Nebraska meeting is always the best meeting of the number. It is the most largely attended and develops the most interest. The success of the Nebraska association is due to the co-operation of the members of the various branches of the dairy industry in that state. The cow-milking farmer, the cream station operator, the creamery manager, and the milkman who distributes milk in the cities, are all members, pay the annual dues and help in maintaining and building up the organization. To be sure, the programs are largely devoted to the improvement of the dairy herd, to better feeding and better care. This is as it should be. The cow is the foundation of the dairy industry and it is on the farm end of the dairy business that there is the greatest chance for improvement and increased profits through dairying. The business of the Nebraska organization is largely taken care of by those connected with the manufacturing or distributing end of the business. This is as it should be, also. These men have the facilities for taking care of the business. These are the gentlemen on whom falls the responsibility for the success of the annual banquet which is attended each year by not less than two hundred of those connected with the state's dairy interest and the larger proportion of which attendants are farmers. We heard one dairyman say after the banquet, that this feature alone was worth the time and the expense of a trip to Lincoln. The banquet is not only a good "feed" but affords opportunity to hear two or three good speeches. This year Professor McKay, secretary of the American Association of Creamery Butter Manufacturers, who has recently returned from the old country, after an investigation into the breeding and feeding methods of dairy cattle, was a speaker. Professor Frandsen of the dairy department of the Nebraska Agricultural College, was also a speaker, telling of the accomplishment of the remarkable cow, La May, owned by the college, and showing just what her achievements in the way of economical dairy production meant to the farmers of Nebraska. The editor of KANSAS FARMER made a talk setting forth the possibilities of increased profit through better cow and better feeding methods and gave his ideas as to how these were to be accomplished. Dairy associations in other states can well afford to apply the Nebraska idea to their associations.

The Nebraska association receives from the state an appropriation of \$1,000 per year for publishing and distributing the report of the annual meeting. This is a part of the wisdom shown by the state in helping to foster and up-build dairying. It is our wish that Kansas might do the same thing. The program given by the Kansas State Dairy Association, which was briefly reviewed in these columns a few weeks ago, was no less important to the farmers of Kansas than was the Nebraska program to the farmers of that state. The distribution of a report of the Kansas meeting would be of great help to dairying in this state, and some arrangement should be made for publishing and distributing it. It is not amiss to say that there are several other important associations in Kansas, one of which is the Kansas Live Stock Breeders' Association, the reports of which would be well worth publishing by the state. The State Poultry Association is another such organization which should have its reports printed and distributed by state funds. Kansas could handle the printing of these reports through its state printing appropriation and the increased appropriation needed would be so small as to be unnoticed. The reports of these meetings in bulletin form would add much to the agricultural literature of the day.

At the Nebraska meeting O. A. Sevier of the sandhill country in northwest Nebraska, made the most instructive and in fact remarkable talk we have heard

before a dairy association. He is an early day farmer in his section and one of the first to undertake dairying. Soon after he located he found that the production of feed was much more certain than the growing of grain crops and that he must take on some phase of live stock farming. He began with pure-bred Shorthorn cattle, intending to produce and sell beef. Later the advantages and necessity of cow-milking were forced upon him. He was not satisfied with the results obtained from milking beef cattle. Accordingly, he decided to obtain dairy blood and at considerable sacrifice during the times of short crops and low prices, he bought a Holstein bull. Ever since his herd has been headed by a pure-bred Holstein and his average butter fat production per cow is now slightly in excess of 300 pounds of butter fat. He distributed among the audience post card photographs of several cows producing in excess of 400 and 500 pounds of butter fat. In recent years he has begun testing his cows to determine individual merit. His is a grade herd. He has never bought a female of pure breeding, but has always kept a pure-bred sire of good breeding at the head of the herd. Within the last few years he has built a silo, or rather his son built it after having attended the Nebraska Agricultural College, and had there seen the advantages of feeding silage. Mr. Sevier now says he can see wherein he lost more than the price of a silo each of the years he was without it.

An important point mentioned regretfully by Mr. Sevier, was that he had failed to recognize the merits of one of the early bulls bought by him. The animal became unruly and was disposed of at butcher prices before any of his heifers had come into milk. Later Mr. Sevier discovered his mistake and found that the heifers from this sire were so superior to other heifers from others sires that he was almost heartbroken when he recalled that the animal was not used by himself or some other farm dairyman as a herd header. He reported that since he has carefully watched the performances of the heifers of the various sires before making final disposition thereof. It is our opinion that there are few dairymen who have followed the business for fifteen or twenty years who do not have the same cause to regret. Even though the superior animal cannot longer be kept in the herd, there are always other farm dairymen who are willing to buy such animal at a good price provided, of course, they are able to see some of his heifers in milk. In the western country we need proven sires of dairy breeding. The demand is greater than the supply and the supply will never catch up with the demand. It is a serious loss, not only to the owner but to the industry in general, to slaughter a valuable sire.

Had the president of the United States been in attendance at the Nebraska meeting he would not have attracted more attention or received more admiration than did La May, the pure-bred Holstein cow above mentioned. The cow is a magnificent specimen of the Holstein breed, although not so large a cow as the editor had expected to see. In the year just closed this cow produced 26,660 pounds of milk, and 773.49 pounds of butter fat. This record ranks her ninth in milk production among the cows of the world, and she holds the distinction of having given more milk in a year than any other cow owned by a state agricultural college. She converted one dollar's worth of feed into three dollars' worth of milk. La May was bought by the Nebraska College four or five years ago as a cow for about \$65, showing again that some man had overlooked a good bet in not feeding and handling her in such way as to show what she was capable of doing. This cow is worth \$2,500 if she is worth a cent. Not every cow in every dairy herd is a La May, but no farm dairyman knows what he has in his herd until each cow has been properly fed and her milk weighed and tested. In many herds if the time and trouble is expended in finding out what the various animals will do, cows of superior quality will be found. We have written enough about

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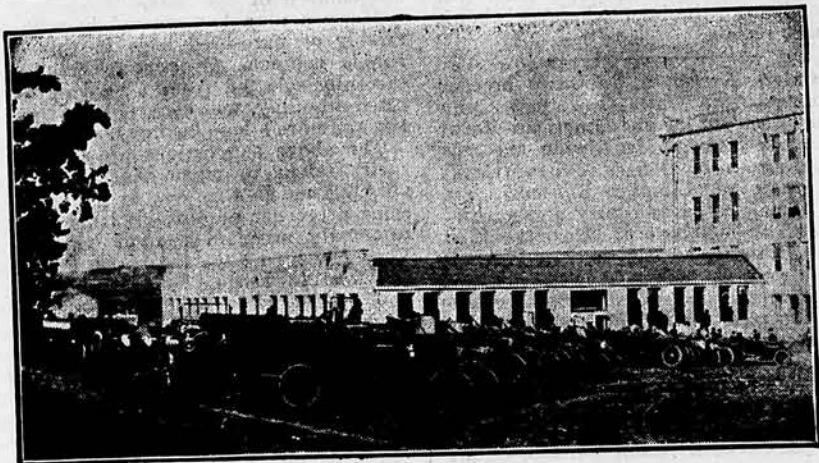
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individual cases to show that there are really superior cows in nearly every herd and that such are worth discovering.

We have a letter from Carl Snyder, Shawnee County, calling attention to the fact that in our issue of January 24 our quotations of twenty to twenty-five cents per gallon for milk bought by local distributors, were too high. Mr. Snyder is correct, although some dairy-men are selling at these figures. We find, however, that at this time the general prevailing price for milk to be retailed for domestic consumption in Topeka, is forty-five cents per pound butter fat and that the average test for the first two weeks of January at a Topeka plant, was four and four-tenths

milk. We infer from this that he is interested in introducing a system whereby he may know how much milk his cows are giving. Every dairyman should make some provision for weighing the milk of the individual cows, at least often enough so as to form some idea as to their production. Dealers in creamery and dairy supplies can furnish a spring scale or balance especially designed for the weighing of milk in the stable. This scale has an extra pointer on the dial which can be set to stand at zero when the pail is hanging on the scale. In this way the weight of the milk contained may be read directly from this pointer. A scale of this kind hanging in a convenient place, with a weight sheet fastened to a board, makes it a



PART OF THE AUTOMOBILE ATTENDANCE AT THE BIG HORSE SALE RECENTLY HELD AT MANHATTAN BY LEE BROS. OF HARVEYVILLE.—THE AUTO OWNERS BOUGHT MORE HIGH-PRICED HORSES TO MAKE MORE MONEY TO BUY MORE AUTOMOBILES, ETC.

per cent fat. This would result in milk of this quality selling at \$1.98 per hundred or sixteen and one-half cents per gallon. The Mulvane condensery prices on a 100-pound basis for last year, were as follows: April, \$1.20; May, \$1.25; June, \$1.25; July, \$1.40; August, \$1.45; September, \$1.55; October, \$1.70; November, \$1.90; December, \$2. The prices for this year are January, \$2; February, \$2; March, \$1.80. The point in this connection is that those farmers within hauling distance of Topeka have a market for their milk fully as advantageous as may be had through a condensery. It is a fact, however, that within ten miles of Topeka enough milk should be produced to not only supply the city but to maintain a condensery on as large scale as that operated at Mulvane.

#### Ration for Milk Cows.

The following inquiry on the feeding of dairy cows comes from one of our Eastern Kansas correspondents:

"What is the best and cheapest ration to feed a cow in order to get the most milk? How much should be fed per gallon instead of per pound, as usually given? How much should a gallon of milk weigh? How do you weigh milk?"

This correspondent is buying all feeds, corn chop costing \$1.65 per hundred-weight, shorts \$1.45, bran \$1.20, crushed oats \$1.50, and cottonseed meal \$1.75. He is now feeding a ration consisting of one pound corn meal, one pound of shorts and four pounds of crushed oats. For roughage he is using alfalfa and oats straw. The alfalfa apparently is limited in quantity, and our correspondent desires a grain ration which will permit of reducing somewhat the amount of alfalfa used.

The cottonseed meal is the cheapest source of protein, and where it is desired to reduce the alfalfa in the ration it would be necessary to introduce cottonseed meal as a grain ration. Fed in limited quantity this high protein concentrate has no harmful effects. It is a very valuable addition to the dairy ration.

On the basis of the feed prices quoted we would suggest a combination made up as follows: Two parts of corn by weight, two of shorts, one of bran, and two of cottonseed meal.

Normal milk should weigh a fraction over eight pounds to the gallon. This grain mixture should be given at the rate of about 2½ pounds to each gallon of milk the cow is giving. With this ration the alfalfa hay might be cut to six or eight pounds per head daily, giving all the oats straw the cows will consume in addition. The manner in which the cows respond to a ration of this kind should be taken as a guide to decide the amount to feed. By experimenting a little it can be determined whether they will respond with an increased milk flow to an increase in ration.

Our correspondent asks how to weigh

very simple matter to weigh and record the milk of each cow as it is strained into the can. A suitable sheet for recording these weights can be ruled at home, but the better way would be to write to the Agricultural College at Manhattan and secure sheets which have been prepared especially for this purpose. The dairy department is prepared to furnish milk sheets of this kind.

#### S. C. White Leghorns.

After experimenting with mongrels and several other pure breeds, we finally discovered some years ago that the breed that lays is the breed that pays. Statistics from various experiment stations show, and we have further proven to our own satisfaction, that the S. C. White Leghorn hen on annual average as compared with the large hen, eats about one-third less feed and lays about one-fourth more eggs. These eggs will hatch 10 per cent more chicks and 10 per cent more of the chicks will grow to maturity than from the large breeds.

If you are a city man you want S. C. White Leghorns because you can keep two in the same space required for one large hen. If you are a farmer you want S. C. White Leghorns because they are the very best hustlers and bug exterminators. The fact that S. C. White Leghorns are bred exclusively on practically all of the large egg farms, both east and west, should prove they are the most profitable. They are the premiers in laying, and the standard by which the prolificness of other breeds are judged. Being pure white, they are easiest bred to color.

Our range raised laying Leghorn pullets commence laying at four and one-half to six months of age and are unexcelled as winter layers. Our range raised cockerels make plump, toothsome broilers in a shorter time than the larger breeds. Everything on our farm is free and open. For that reason everyone of our hundreds of breeders possess the power of imparting to its offspring its superb constitutional vigor and its ability to produce a large number of large white eggs.—THEO. R. WOLFE, Conway Springs, Kan.

Mongrels are the result of promiscuous crossing and are never as good as well bred chickens, either pure-bred or high grade. Pure-bred poultry has been developed for production, so if selected and handled intelligently will give the most profitable returns. It does not pay to keep mongrels or an inferior flock.

#### Small Breeds and Egg Size.

Leghorns predominate on eastern poultry farms and there is no objection to the size of the eggs. A good strain of Leghorns will lay as large eggs as any breed of chickens, according to N. L. Harris, superintendent of the poultry plant at the Kansas Agricultural College. It is the rundown, poorly bred, and poorly fed flock that lays the small egg.

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# LIVE STOCK



At a recent meeting of the Galloway Record Association, which was held in Kansas City, January 28, G. E. Clark of Topeka, was re-elected president of the association for the fourth time. Mr. Clark is proprietor of the Capital View Ranch near Silver Lake, and is in the front ranks of the Galloway breeders of the United States. His herd has made strong winnings wherever shown the past season.

J. Calvin Ewing, a Galloway breeder of Youngstown, Ohio, has just been elected president of the American Royal Live Stock Show. Mr. Ewing succeeds H. C. Duncan of Osborn, Missouri. T. J. Wornall of Liberty, Missouri, has again been elected secretary and general manager, and Robert H. Hazlett of El Dorado, Kansas, treasurer. Mr. Wornall made a success of the American Royal show from the standpoint of its management the past year, and his re-election for the coming year is well merited. The breeders will all feel that the American Royal will again be splendidly managed at the next show.

We notice in a recent exchange that a bunch of hogs consisting of seventy head, averaging 252 pounds, were recently shipped in from Cheyenne County, the extreme northwest county of Kansas, and topped the St. Joe market, bringing \$8.45 per hundred. The average western Kansas farmer has considered that he was out of the game so far as hogs were concerned because he could not raise corn. With the grain sorghums which can be so successfully grown in this part of the state and which have been found to be almost if not quite equal to corn in pork production, the farmers of this territory can easily raise a few hogs and make money on them. A few years ago a carload of hogs from Norton County, Kansas, won the championship at the Denver Live Stock Show.

### Wheat and Cattle.

Ordinarily the wheat farmer has kept out of the live stock business, regarding it as a source of annoyance and sometimes as a means of compelling him to work too steadily. It would appear that conditions are changing. Even the wheat farmer is realizing that he cannot grow wheat continuously upon the same land without paying some attention to the building up of his soil.

This year many a wheat farmer has realized large returns on his wheat from a pasture standpoint. Never have conditions been more favorable for a strong, thrifty growth during the fall and early winter. While this has been a boon to the wheat farmer, it has been no less helpful to the cattleman with more stock on his hands than he had feed to winter. Thousands of cattle have been pastured this fall and winter on the wheat fields at practically little cost to the owner. Other thousands have been pastured on the farms of wheat farmers who had no cattle. Cattle have waxed fat and are in far better condition than they were last winter at the same time.

Many of our farmers having silos have been able to hold on to their scanty supply of silage by using the wheat pasture the greater part of the season.

### Starting in Better Hogs.

There is no cheaper or better method of introducing good hogs on a farm than to buy of a good, reliable breeder, a few choice bred sows. Oftentimes the producer of market pork, through failure to pay close attention to the matter of properly handling his breeding herd, must introduce new, vigorous, well bred stock if he is to reap the best results from a market standpoint. To such, the opportunity to buy properly handled, well bred sows due to farrow early in the spring, offers the best solution of the problem of building up a run-down herd.

A few choice sows brought to the farm and carefully handled will make it possible to add a number of good brood sows to the herd for future use. The best gilts from these sows should be selected early enough so that they may be given the treatment necessary to develop them into useful brood sows. Gilts for breeding purposes should never be selected late in the fall from lots of hogs which

have been handled entirely from a market standpoint.

If the hog man who is adding a few choice sows to his herd will exercise a little forethought as to the blood lines of the various sows purchased, a herd boar may be selected and raised from one of the litters which can be used on the balance of the herd.

Many a man has started in with the raising of pure-bred hogs in this easy, simple manner. One choice brood sow, carefully selected from a herd of recognized standing, will soon put a man into the pure-bred hog business.

The above suggestions are not necessarily taken to mean that every man starting out in this way is going to become a breeder of pure-bred hogs in the commonly accepted use of the term. Very few men have the necessary qualifications to become successful breeders and sellers of breeding stock. Every producer of market hogs, however, should utilize to the fullest extent possible improved, pure-bred stock in producing his market animals. While it is not necessary, perhaps, to keep up the registry of the breeding herd, better returns will be secured if pure-bred stock is used exclusively.

### Hog Men Should Keep Records.

The hog men are almost at the beginning of another year's work with their fresh crop of pigs. The breeder of pure-bred hogs must exercise the greatest care in properly marking all his litters and keep his records absolutely up to date if he would succeed as a breeder. This is absolutely essential and oftentimes a little carelessness in this matter results in great difficulties when it comes to properly registering the pigs produced.

The breeder of market hogs has ordinarily considered it a waste of time to pay any attention to the keeping of herd records. Our most successful hog men, however, have found that even for market purposes it pays well to keep an accurate record of the various litters. Such records can easily be used to the best advantage in the selections of breeding animals to be retained in the herd.

J. G. Arbuthnot, who has made a great success as a hog grower in Republic County, Kansas, has developed a system of marking hogs which has proven thoroughly satisfactory to him. He has in times past raised as many as 1,500 hogs in one season and by his system of marking has been able to correctly identify every litter of the whole bunch. He marks his hogs by notching their ears. He describes his method as follows:

"The numerical value of the notches is not hard to remember. Take a pig and look him right in the face. A notch in the outer edge of his right ear, which comes at your left hand, has a value of 1000, the inner edge of that ear counts 100 for each notch, and reading on over toward your right, the inner edge of the other ear counts ten and the outer edge one, for each notch. A pig which has two notches on the outer edge of the ear that comes to your right as you face him is number two. If the notches had been on the outer edge of the ear to your left, his number would have been 2000.

"There is room for four notches on one edge of a pig's ear, so starting with one, the numbers you can use are: 1, 2, 3, 4, 10, 11, 12, 13, 14, 20, 21, 22, 23, 24, 30, and so on up to 444, which will give you more than 600 numbers. If that is not enough you may have another 600 numbers by making a notch in the tip of the pig's right ear and calling this series R. Then you can have 600 more by putting the notch in the tip of the left instead of the right ear. If you put notches in the tips of both ears you can call the numbers B1, B2, etc."

It is very easy to read a hog's number even if the animal is moving. After explaining his system of marking, Arbuthnot threw some corn into the pen. As the hogs milled around and around after the corn he called out their numbers. One quick glance at the ears was all he needed.

If you have an incubator you can go to hatching chicks as soon as you have eggs enough, whereas you have to wait for a setting hen till she gets ready.



# Kansas State Poultry Show

[Continued From Page Eight]

and fifth cockerel, second pullet, and first and fourth pen.

W. H. Ward, Nickerson, the veteran Light Brahma breeder, was on hand with several of his beauties. He took all premiums but one. He is going into the business deeper than ever, and will have charge of a school of poultry in his county.

There were two exhibitors of Mammoth Bronze turkeys, and each had prime specimens of the breed. Mrs. H. E. Bachelder, Fredonia, won first on adult cock, first yearling cock, first and second hen, and fourth pullet. George W. Perkins, Newton, won first and second cockerel and first, second, third and fourth pullet.

The Anthony Manufacturing Company, Anthony, Kan., had a sanitary roost on exhibition which is built on correct scientific principles. It automatically supplies the lice killer that will kill all lice on the fowls that perch on the roost. Lousy hens will not lay, and though this is known to most poultry breeders, they will not go to the trouble of applying the proper remedy to eradicate them. With this new roost the labor of applying lice killer has been taken away, for after it is once filled it will last for several weeks, and then a simple turn of a valve will set it going again for several weeks more. It would pay every one who keeps chickens to buy one or more of these roosts.

Ross Brothers, Wichita, had a very creditable display of incubators, brooders and poultry supplies. It is one of the firm's boasts that you cannot ask for anything in the poultry supply line that they cannot furnish, and we believe them. Send for their catalog.

## LIST OF EXHIBITORS.

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O. Rindom, Liberal, Golden Wyand.; V. M. Ravenscroft, Kingman, Brd. Rocks; E. W. Rankin, Topeka, L. Brahma; W. J. Roof, Maize, S. C. Br. Leg.; Peter Roth, Otis, R. C. Reds; Mrs. M. A. Ranck, Noto, Ill., R. C. Reds; Raymond Ritter, Wichita, pet stock; H. A. Scott, Cunningham, S. C. R. I. Red; J. J. Slattery, Wichita, Part. Pl. Rock; J. H. Schlegel, Jr., Otis, W. Pl. Rocks, R. C. Reds; A. K. Sell, Fredonia, S. C. W. Leg.; L. G. Shoop & Son, Perry, Okla., Golden Wyand.; E. R. Sanner, Newton, S. C. Buff Orp.; Stover & Myers, Fredonia, R. C. Reds, Ind. R. Ducks, W. Ind. R. Ducks, Bour. Red Turkeys; H. P. Swedfeger, Wichita, S. C. Br. Leg.; T. W. Spencer, Wichita, S. C. Reds; R. P. Tompkins, Wichita, Buff Orp., Bk. Orp.; Otis Vermillion, Cunningham, S. C. R. I. Red; J. E. Wright, Winmore, R. C. Br. Leg.; H. A. Wattles, Wichita, Col. Wyand.; Dr. John Wilson, Winfield, Gold. Wyand.; Clyde C. Whitely, Wichita, S. C. R. I. Reds; H. L. White, Wichita, S. C. R. I. Reds; C. K. Whitney, Wichita, Anconas, W. Pl. Rocks; M. E. Wright, Wellington, Wichita, Buff Orp.; W. H. Ward, Wichita, W. C. Bl. Polish Bant.; Buff C. Bant.; A. J. Waddell, Wichita, Buff Rock; L. E. Ward, Wichita, pet stock; Carl Young, Wichita, W. C. Bant.

## JUDGES' AWARDS.

The awards as made by Judges Thompson and Campbell are as follows:

**Barred Rocks.**—Mrs. H. E. Gonder, Wichita, 2 cock, 2 ckl, 2 pen ckl mating, 3 pen pul mating, 4 pen standard mating; Reber & Dudley, Emporia, 5 cock, 2 hen, 4 pul, 5 pen standard mating; Mrs. R. J. Molyneux, Wichita, 1 cock, 3 ckl; Ray McDonald, Dalhart, Texas, 3 cock, 3 hen, 2 pul, 3 pen standard mating, 3 pen ckl mating, 4 pen pul mating; A. T. Edwards, Plains, Kan., 4 hen, 5 ckl; Meek & Ball, Mulhall, Okla., 1 ckl; C. C. Lindamood, Walton, Kan., 1 hen, 4 ckl, 1, 5 pul, 2 pen standard mating, 1 pen ckl mating, 1 pen pul mating; J. C. Hoyt, El Dorado, Kan., 4 cock, 3 pul; Mr. and Mrs. R. A. Ogden, Wichita, 1 pen standard mating, 2 pen pul mating, 4 pen ckl mating.

**White Rocks.**—C. K. Whitney, Wichita, 1 cock, 1, 2 hen, 2, 3, 4 ckl, 2 pul, 1, 5 pen; Frank Lott, Danville, Kan., 2, 3 cock, 3, 4, 5 hen, 1, 5 ckl, 3, 4 pul; J. A. Green, Harper, Kan., 2 pen; J. L. Heaton, Harper, Kan., 4 pen; J. H. Schlegel, Jr., Otis, Kan., 3 pen.

**Buff Rocks.**—A. J. Waddell, Wichita, 1, 2 cock, 1, 2, 3, 4, 5 pul, 1, 2, 3, 4, 5 hen, 1, 2, 3, 4, 5 ckl, 1 old pen, 1 young pen.

**Partridge Rocks.**—C. E. Florence, El Dorado, Kan., 1 hen, 2 pen; A. F. Moore, Stafford, Kan., 1, 3, 5 cock, 2, 3 hen, 2 ckl, 2, 3 pul, 1 pen; J. J. Slattery, Wichita, 2 cock, 4 pul; J. W. McVey, Stafford, 4 cock, 4, 5 hen, 1 pul; Alys Kirby, Wichita, 1 ckl.

**Silver Pencilled Rocks.**—A. P. Moore, Stafford, 1 cock, 1, 2, 3, 4, 5 hen.

**Columbian Rocks.**—A. P. Moore, Stafford, 1 cock, 1 hen, 1 pul.

**Silver Wyandottes.**—L. P. Hubbard, Topeka, 1, 2, 3, 4, 5 cock, 1, 2, 3, 4 hen, 1, 2, 3, 4, 5 ckl, 1, 2, 3, 4 pul, 1, 2, 3, 4 pen, special for largest and best display in particular colored birds; Mark Daniel, Augusta, Kan., 5 hen, 5 pul.

**White Wyandottes.**—W. W. Larimore, Hutchinson, Kan., 1 cock, 1 hen; D. L. McAllister, Wichita, 3 cock, 2 hen, 1 ckl, 3 pen; M. K. Wright, Wellington, Kan., 2 cock, 3, 4 hen, 1, 2 pul, 1 pen; R. H. Moore, Wichita, 4 pen; H. Challie, Wichita, 2 pen.

**Buff Wyandottes.**—H. J. Freeman, Wichita, 1, 2, 3 cock, 1, 2 hen, 1, 2, 3, 4, 5 ckl, 1, 2, 3, 4, 5 pul, 1, 2, 3, 4, 5 old pen, 1 young pen, special prize for largest and best display in solid-color birds.

**Golden Wyandottes.**—E. Florence, El Dorado, 3 cock, 5 pul; Dr. John T. Wilson, Winfield, 2 cock, 3, 5 hen; L. G. Shoop & Son, Perry, Okla., 1 cock, 1, 2, 4 hen, 1, 2 ckl, 2, 4 pul; F. O. Rindom, Liberal, Kan., 3, 4 ckl, 1, 3 pul.

**Partridge Wyandottes.**—C. R. Hatfield, Wichita, 1 hen, 1 ckl, 1 pul.

**Columbian Wyandottes.**—H. A. Wattles, Wichita, 1, 2 cock, 1, 2, 3 hen, 1, 2 ckl, 1, 2, 3 pul, 1, 2 pen.

**S. C. Reds.**—J. E. Howard, Wichita, 1 cock, 3, 4 hen, 5 ckl; Moore & Moore, Wichita, 5 cock, 1 ckl, 2, 3 young pen; Clyde C. Whitely, Wichita, 1, 2, 5 hen, 4 pul, 1 old pen, 4 young pen; B. V. Hughes, Lebanon, 3 ckl, 1 pul, 1 young pen; A. F. Buckles, Hazelton, 2 ckl; Mrs. O. G. Elkenberry, Wichita, 4 ckl; H. L. White, Wichita, 5 pul; H. A. Scott, Cunningham, 2 old pen; A. M. Butler, Wichita, 2 cock, 3 pul; T. W. Spencer, Wichita, 3 cock.

**R. C. Reds.**—R. W. Baldwin, Conway, 5 cock; Mrs. Ruby Morris, Pontiac, 4 cock, 1 old pen; E. H. Hortenbower, Newton, 2 cock, 2 old pen; A. M. Butler, Wichita, 3 cock, 1 ckl, 1 hen, 2 pul; Mrs. N. A. Ranck, Noto, Ill., 1 cock, 2 hen, 2 young pen; J. H. Schlegel, Jr., Otis, Kan., 3, 4 hen, 2 ckl, 3 young pen; C. A. Brumley, Wellington, 5 ckl, 3, 5 pul; F. A. Rehkopf, Topeka, 1 young pen; O. C. Emory, Wichita, 3, 4 ckl; L. E. Castle, Wichita, 1, 4 pul.

**S. C. Buff Orpingtons.**—Miss Jennie Gerrard, Wichita, 1, 3, 5 cock, 2 hen, 1, 2 ckl, 1, 2, 3 pul, 1 old pen; J. E. Damon, Caldwell, 3 hen; Sam McHarg, Wakita, Okla., 5 hen; Wichita Buff Orpingtons, Yards, 4 hen, 4 pul, 3, 4 old pen, 4 young pen; George W. Martin, Wichita, 5 ckl; Charles Grever, Viola, 3 ckl; L. A. Perry, Caldwell, 4 cock; E. R. Sanner, Newton, 4 ckl, 5 pul, 2 old pen, 2, 3, 5 young pen; Mr. and Mrs. Ed Fleming, Wichita, 2 cock, 1 hen, 1 young pen.

**S. C. White Orpingtons.**—Miss Jennie Gerrard, Wichita, 1 cock, 1, 2 hen, 2 ckl, 1, 2 pul, 1 pen; H. L. Dewing, Wichita, 2 cock, 4 pul, 3 pen; Mrs. E. Hayworth, Viola, 4 cock, 4, 5 hen, 3, 4, 5 ckl, 3 pul; F. W. Ford, Caldwell, 3 cock, 2 pen; Charles Amos, Peabody, 1 ckl; Mrs. E. L. Barracough, Wichita, 5 pul; T. Livingston, Wichita, 3 hen, 4 pen.

**S. C. Black Orpingtons.**—R. P. Tompkins, Wichita, 1 cock, 1, 2, 3, 4 hen.

**Buff Cochins.**—J. C. Baughman, Topeka, 1, 2, 3, 4 cock, 1, 2, 3, 4, 5 hen, 1, 2, 3, 4, 5 ckl, 1, 2, 3, 4, 5 pul, silver cup for best cock, hen, cockerel and pullet in show room.

**Light Brahmas.**—W. H. Ward, Nickerson, 1 cock, 2, 3, 4, 5 hen; E. W. Rankin, Topeka, 1 hen.

**Black Langshans.**—H. M. Palmer, Florence, 1, 2 cock, 1, 2, 3, 4 hen, 1, 2, 3 ckl, 1, 2 pul; R. P. Krum, Stafford, 5 hen, 3 pul; J. L. Miller, Bucklin, 1 pen.

**S. C. Leghorns.**—W. J. Roof, Maize, 1, 2 cock, 1, 4, 5 hen, 1, 2, 3 ckl, 1, 3, 4, 5 pul, 2, 3 pen; Mrs. H. P. Swedfeger, Wichita, 3, 4 cock, 2, 3 hen, 4, 5 ckl, 2 pul, 1, 4 pen; Ed C. Gorman, Wichita, 5 hen.

**Rose Comb Brown Leghorns.**—J. E. Wright, Winmore, 1 cock, 1 hen, 1 ckl, 1 pul, 1 pen; W. S. Cummins, Wichita, 2 hen, 2 pen.

**S. C. W. Leghorns.**—Mrs. M. Kettering, Wichita, 1 cock, 3 hen, 5 ckl; Dave Baker,

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**E. C. W. Leghorns.**—Mrs. W. E. Masters, Manhattan, 1 ckl, 1, 2, 3, 4 pul, 1 pen.

**S. C. Buff Leghorns.**—George J. Dorr, Osage City, 1 ckl, 1, 2 pul.

**Silver Spangled Hamburgs.**—Mr. and Mrs. Charles Lucas, Wichita, 1 cock, 1, 2, 3 pul, 1 pen; George Plant, Wichita, 1 ckl, 4 pul.

**S. C. Black Minorcas.**—Frank Leach, Wichita, 1, 2, 3, 4 hen, 1 ckl, 1, 2 pen.

**Mottled Anconas.**—C. K. Whitney, Wichita, 1, 2, 3, 4, 5 hen, 1, 2 ckl, 1, 2, 4, 5 pul, 1 pen; Harold Hays, Wichita, 3 ckl, 3 pul.

**White Crested Black Polish.**—John Brewer, Wichita, 1 cock, 1, 2 hen, 1 ckl.

**Silver Gray Dorkings.**—C. V. LaDow, Fredonia, 1, 2, 3, 4, 5 pul.

**Sicilian Buttercups.**—G. R. Barker, Wichita, 1 ckl, 1, 2, 3 pul.

**Cornish Fowl.**—C. E. Jeys, Wichita, 1 cock, 5 hen; L. C. Horst, Newton, 1, 2, 3, 4 hen, 1 ckl, 1, 2, 3, 4 pul.

**R. C. Barred Rocks.**—G. W. Lightner, St. John, 1 cock, 1 hen, 1 ckl, 1 pul.

**Mammoth Bronze Turkeys.**—Mrs. H. E. Bachelder, Fredonia, 1 adult tom, 1 yearling tom, 1, 2 hen, 4 pul; G. W. Perkins, Newton, 1, 2 ckl, 1, 2, 3, 5 pul.

**Bourbon Red Turkeys.**—Stover & Myers, Fredonia, 1 adult tom, 1 hen, 1 young tom; Bert Ferguson, Walton, 2 ckl, 1, 2 pul.

**Indian Runner Ducks, Fawn and White.**—Mrs. A. D. Pryor, Fredonia, 1 cock, 1 hen,

2 pen; Stover & Myers, Fredonia, 2 cock, 2 hen, 1 ckl, 1 pul, 1 pen.

**Indian Runner Ducks, White.**—C. J. Page, Salina, 2, 3 cock, 2, 3 hen, 2, 3 ckl, 2, 3 pul, 2, 3 pen; Stover & Myers, Fredonia, 1 cock, 1 hen, 1 ckl, 1 pul, 1 pen.

**Pekin Ducks.**—Elizabeth Kagarice, Darlow, 1, 3, 4 ckl, 1 pen; C. J. Page, Salina, 2 ckl, 1, 2 pul, 2 pen.

**Rouen Ducks.**—George Messmer, Norwich, 1 hen, 1 ckl, 1 pul.

**Buff Cochins Bantams.**—R. P. Krum, Stafford, 1 cock, 3 hen, 1 ckl, 1 pul; W. H. Baker, Stafford, 2 cock, 4 hen; W. H. Baker, Stafford, 1, 2 hen, 1 ckl.

**White Cochins Bantams.**—R. P. Krum, Stafford, 1 cock, 1 hen, 1 ckl, 1 pul; Carl Young, Wichita, 2 cock, 3, 4, 5 hen; W. H. Baker, Stafford, 2 hen.

**Black Cochins Bantams.**—John Dudley, Emporia, 1 cock, 2 hen, 1 pul; R. P. Krum, Stafford, 1, 3 hen, 1 ckl, 2 pul; W. H. Baker, Stafford, 2 ckl, 3 pul.

**Crested White Polish Bantams.**—L. E. Ward, Wichita, 1 cock, 1 ckl.

**Pigeons.**—Best display, L. E. Ward, Wichita; second display, Raymond Ritter, Wichita; third display, G. H. Blakeman, Wichita.

**Capons.**—Best display, T. Livingston, Wichita; second display, H. Welshheimer, Wichita.

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## A World's Egg Laying Contest

On December 1 at the State Poultry Experiment Station at Mountain Grove, Mo., 1,040 hens began to make poultry history in the greatest egg laying and feeding experiment ever conducted at any point in the world. These hens were from some of the best bred-to-lay flocks to be found, and from all parts of the globe. England starts the contest in the lead. A pen of ten White Leghorns from Tom Barron making the best record for December by laying 206 eggs. One pullet in this pen laid 26 eggs in 31 days, another 25, and others 24, 23, 23, and 22 eggs each. Other parties have birds of the same strain entered in the contest and it will be interesting to note the difference in egg production. Another pen of another variety contains ten pullets which are full sisters from a high producing hen. What will be the difference in the production of these sisters? Will there be any great difference, and what will be responsible for the variation? Will the English again carry away the honors in 1914, and if they do, why is it that English hens can beat the Americans in egg production? Will the Australian and New Zealand pens make the high records in this country that they make in the contests in those countries, entire pens of hens averaging from 250 to 265 eggs each. If they can't do so well here, why? Is it the climate or the breeding or what? Will some American or some Missourian be able to prove to the world that he knows some things about breeding hens for egg production, and that the world must sit up and take notice of our methods? There is no denying the fact that American breeders are making rapid advancement along this line, and we serve warning upon foreign nations now that if Americans do not win in this test, that the time is not far distant when they will do so.

We were told by one of the contestants who has been winning many honors in contests and in the show rooms of foreign countries, that the foundation stock of his flock of noted layers was imported from America. He took this American bred stock and by close study and application of the principles of breeding for egg production, he produced his famous strain of layers and also combined show qualities in the same flock. If some American does not win in this contest, it is because of the fact that we have gone to seed on the fancy side of the business before we even sprouted in our study of the science of egg production. It is not so today, however. Thousands of American poultry raisers are devoting their best thought and energy in an effort to increase the productivity of their hens, and egg laying contests are responsible for much of this interest.

This experiment was not begun under the best conditions nor most favorable circumstances. Some of the foreign birds did not arrive here until two weeks after the contest started. Some pens were six weeks on the road in shipment and six hens were dead in one pen when it reached Mountain Grove. A number of hens were dead in other pens because of long shipments. Many hens arrived out of condition and we have had cool, damp, rainy, foggy weather and two heavy snows since the first birds began to arrive, and only a very few days of sunshine. Our altitude is also much higher and the climate quite different from some of the warm, dry countries and states from which many of the pens came. This has worked a hardship in many cases and made a situation which has been very difficult for us to control. The contest really should have begun on November 1 at the latest and this would have given the birds time to become acclimated and also given us another month's egg yield which we will practically lose in our totals, as the mature pullets laid many more eggs in November as pullets than they will lay next year in November as hens.

This experiment really consists of three separate contests. Each will be fed differently. Separate prizes will be offered in each, and a grand championship prize will be awarded for the highest record. The sixty pens in the national contest are fed a very simple ration which was formulated by this experiment station but what we believe is going to prove to be one of the best which can be used. The 28 pens in the National Single Comb White Leghorn Contest are being fed a ration which has always proven good with Leghorns and which is looked upon as being the best for that variety. The 16 pens in the National Utility Contest are composed entirely of Barred Plymouth Rocks, White Wy-

and Rhode Island Reds, and White Orpingtons. These are the general purpose varieties and are being fed a ration which proved best in our feeding experiments and which is also recommended by one of the leading experiment stations of this country. It remains to be seen what the results will be.

The total eggs laid in December were 6,792, or an average of over six and one-half eggs per hen for both good and bad. The leading pen for the month averaged 20.6 eggs per hen.

Missouri has nearly as many pens as all other states combined. Besides Missouri, the following states and countries are represented by the following number of pens: Pennsylvania 7, Ohio 6, England 4, Iowa 4, Nebraska 3, Australia 2, Kentucky 2, Maryland 1, Alabama 1, Massachusetts 1, Ontario, Canada 1; British Columbia 1, South Africa 1, New Zealand 7, New York 5, California 4, Texas 4, Michigan 2, Arkansas 2, New Jersey 1, Illinois 1, West Virginia 1, Wisconsin 1, New Hampshire 1, Vancouver Island 1.

The best record made by representatives from each country is as follows:

White Leghorns made best English record, 206 eggs; Buff Orpingtons made best United States record, 152; Anconas, best Missouri record, 147; White Leghorns, best British Columbia record, 133; White Leghorns, best Vancouver Island record, 109; White Leghorns, best South African record, 86; White Leghorns, best New Zealand record, 82; White Wyandottes, best Ontario record, 66; White Leghorns, best Australian record, 33.

The Australian birds did not arrive for sometime after the contest started. The Australian and New Zealand pens will be somewhat handicapped this year because of the fact that the pens which they have entered were hatched out of season. Their seasons are exactly opposite from our own. We are having night they are having day, and when we are having fall and winter they are having spring and summer. Most of the birds which were sent from those countries had to be hatched this fall and late summer which was their spring, and their birds are therefore very young.

### INCREASED EGG PROFIT (Continued from Page Five.)

In fact it is an excellent thing. These pullets will practically have their growth when cold weather comes but will not have begun to lay. Instead of putting their strength into egg production they will go on developing and by February when they start to lay they will be strong physically. It is through these pullets that we are to avoid the problem of incubation. The early pullets that are incubator hatched will have been shut up in the early fall and fed stimulating food calculated to increase egg production. They will be kept up all winter and never mated to a male bird. Infertile eggs keep better in hot weather or cold storage. In the spring when the bottom drops out of the price of eggs and chickens are a bit scarce, they may be disposed of to fair advantage on the open market.

The hen hatched pullets are given the run of the farm and are not fed stimulating food. In the spring and through the summer, having stored up strength all winter, they will lay enough eggs to pay for their keep for a year. In the fall they will molt and the chances are the cold weather will catch them before they are well over it. Then comes another rest and time of storing strength and by early spring you will have a bunch of breeding birds that have been fitted for their task just as surely as the grand champion steer at the International is fitted for his task. And it is just as necessary. Hens that are hen hatched should be used for the breeding flock every time.

Two flocks for every farm should be the slogan!

A comparatively small bunch of birds hatched under hens for a breeding flock. And a large flock of early incubator hatched pullets to lay the eggs.

### Seed Corn.

We have a few hundred bushels of extra good seed corn, shelled, nubbed, butted and sacked, \$2.85 per bushel, f. o. b. here. Mostly Hildreth's Yellow Dent and Boone County White. This was no doubt the best field of corn grown in Kansas in 1913. It produced 50 bushels to the acre, and was grown on W. E. Brooks' homestead a few miles north of here. It was the best corn exhibited at the State Fair at Hutchinson, Kan. Order now, and if over-sold we will return your check.—Brooks Wholesale Co., Ft. Scott, Kan.—(Adv.)

## Are you ready for a Piano at a Bargain?

You have read a lot about smashing offers, tremendous bargains, etc., but have you noticed the offers are generally made on unknown, unworthy pianos. We are the regular, legal authorized representatives for the greatest pianos in the world, such as STEINWAYS, VOSE, KURTZMANN, ELBURN.



Easy  
Payments

We can offer you special inducements on these instruments, such as low price, easy terms, and the Jenkins guarantee. We have both used and new pianos. We can fit your purse, suit your taste and please your fancy. Write us what you have in mind as to price and whether you want a new or second hand piano or organ. We will write you and send our catalogue. We will write you a personal letter, answering your questions and giving you full information as to prices, terms and the way we do business.

**Easy Terms Low Prices**  
**Good Pianos Square Deal**

Write us whether you are interested in a new or slightly used piano at a great bargain. Perhaps you may be interested in a Player Piano, either new or used. Anyway write us your desires and we will send you full particulars and full description of our bargains.

**J. W. JENKINS**  
SONS MUSIC CO.  
1016 Walnut Street, KANSAS CITY, MO.

**1913 RECORD** **Magnificent Crops in all Western Canada**

All parts of the Provinces of Manitoba, Saskatchewan and Alberta, have produced wonderful yields of Wheat, Oats, Barley and Flax. Wheat graded from Contract to No. 1 Hard, weighed heavy and yielded from 50 to 45 bushels per acre; 25 bushels was about the total average. Mixed Farming may be considered fully as profitable an industry as grain raising. The excellent grasses full of nutrition, are the only food required either for beef or dairy purposes. In 1913, Chicago, Western Canada carried off the Championship for beef steer. Good schools, markets convenient, climate excellent. For the homesteader, the man who wishes to farm extensively, or the investor, Canada offers the biggest opportunity of any place on the continent.

Apply for descriptive literature and reduced railway rates to the Superintendent of Immigration, Ottawa, Canada, or to Canadian Government Agent.

Geo. A. Cook, 125 W. 9th St., Kansas City, Mo.

**160 ACRES**  
**FARMS**  
**WESTERN CANADA**  
**FREE**

**Profitable Poultry Selling**

Send for this Free Booklet

The poultry breeder's percentage of profit depends quite a bit on selling costs. These profits are good, sometimes, and sometimes they are not. At the very best the average poultry breeder never got any more than his or her due. Usually it has been less. Not because the breeders don't know their business as breeders, nor yet because they are not good men and women.

No sensible breeder would allow the cost of raising stock to go twice as high as necessary. But sometimes the selling cost is allowed to get too high, because the wrong means of advertising are used.

To select the right selling means for Kansas and adjoining states means money saved to breeders, besides money made in the better prices to be had when using the right means. The booklet, Profitable Poultry Selling, has been written, and is free to poultry breeders everywhere who will simply write for it.

**KANSAS FARMER**  
Topeka, Kansas.

To reach the well-to-do Farmers of Kansas and surrounding Territory with a Heart-to-Heart Business Talk, use our Classified Columns. Ready buyers at a low cost.



## The Selway Steel Post And Ready Made Corner System

The strongest line post and corner on the market. Everything driven with a sledge hammer. Our line posts are full of flexibility and life. Made of open hearth, non-rusting high carbon steel, every ounce placed where it will do the most good.

Our corner can be put up or taken down in 30 minutes with our triangle bracing and anchor system. The corner will positively stay where you put it. No holes to dig. For sale by dealers everywhere. Write us for booklet.

**The Selway Steel Post Co**  
Lincoln, - - - Nebraska.  
Or  
H. G. Moore, Kansas City, Mo.

**FITZ SAYS** "Get a reputation for industry and you can sleep till noon."

## FITZ OVERALLS

A bully good brand—the kind of work clothes that makes the work easier. Worn wherever there is work to do. On the farm, in the factory, outside and in, you'll find satisfied workers wearing FITZ.



**Burnham-Munger-Root**  
Dry Goods Co.,  
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MO.



## Save \$50 on Your Silo

Shipped on approval to your station. Made from best grade Washington Fir Lumber (one piece staves). Easy to erect—gives best service—keeps silage perfectly.

### THE INDEPENDENT SILO

gives satisfaction. We want to send you names of farmers using the Independent Silo—the best stave silo at the lowest price. Get our free silo book—tells why we quote lowest prices on guaranteed silos. Learn about our new "Link Lock Anchoring System." A postal card brings this information. **THE INDEPENDENT SILO CO.**, 451 Live Stock Exch. Bldg., Kansas City, Mo.; 2326 University Ave., St. Paul, Minnesota.

**Do You Have to be Shown?**

I'm told that I have the best quality of seed, give the largest packages and have the most common-sense Seed Book in the bunch. And I'm willing to admit it.

Do you have to be shown?

All right, I live close to the Missouri line and I'll show you. I'll send you the Seed Book and a big package of garden seed, and you can judge for yourself. NO CHARGE FOR EITHER, and you need not even send the postage unless you wish.

I also have guaranteed Clover and Alfalfa, and all kinds of farm seed at Farmer's Prices. Shall I send you free samples of these also?

**HENRY FIELD, Pres.**  
HENRY FIELD SEED CO., Box 55, Shomondah, Iowa.

**GOOD SEEDS**  
BEST IN THE WORLD  
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

**Big Catalog FREE**  
Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

**R. H. SHUMWAY, Rockford, Illinois**

### THE STRAY LIST

H. N. HILDEBRAND, COUNTY CLERK, Gray County. Taken Up—By C. B. Rhodes, on October 6, 1913, one dun old horse mule, no brands, gray hairs on right front foot, ears lop. Valued at \$30. Eight miles southwest of Ingalls, Kan.

HERMAN BROEKER, COUNTY CLERK, Douglas County. Taken Up—By Conrad Altenbernd, Eudora, Kan., R. F. D. No. 3, one yellow Jersey cow with white spots on body, split right ear, coming about 3 years old; will be fresh soon. Appraised value, \$75, on December 13, 1913.

## DIRECTORY OF THE KANSAS STATE GRANGE

**OFFICERS.**  
Master.....A. P. Reardon, McLouth  
Overseer.....J. L. Heberling, Wakarusa  
Lecturer.....L. S. Fry, Manhattan  
Secretary.....A. E. Wedd, Lenexa  
Treasurer.....W. J. Rhoades, Olathe  
Chairman of Executive Committee.....  
.....W. T. Dickinson, Carbondale  
Chairman of Legislative Committee.....  
.....O. F. Whitney, North Topeka  
Chairman of Committee on Education.....  
.....E. B. Cowgill, Lawrence  
Chairman of Insurance Committee.....  
.....I. D. Hibner, Olathe  
Chairman of Women's Work Committee.....  
.....Adelia B. Hester, Lone Elm  
**NATIONAL GRANGE OFFICERS.**  
Master.....Oliver Wilson, Peoria, Ill.  
Lecturer.....N. P. Hull, Diamonddale, Mich.  
Sec'y.....C. M. Freeman, Tippecanoe City, O.

More than \$18,000,000 risks are carried by the Grange Fire Insurance Company of Kansas. Last year they had 170 losses, amounting to \$19,406.78. The average rate is about \$10 on the thousand for five years.

Sometimes a grange is organized under peculiar conditions. On April 17, 1873, a meeting was held in Kansas to organize a grange. While the meeting was in progress a terrible hurricane arose, tree tops were snapped off by the force of the wind and it required the efforts of three men to hold the outside door of the hall shut. After the storm had passed and quiet had been restored the organization of the grange was completed. This grange was given the appropriate name of Hurricane Grange and has had a continued, useful existence ever since it was organized, more than forty years ago. It has carried on extensive work along many lines and is today one of the most prosperous granges in Kansas. One of the charter members is still enrolled.

### Manhattan Grange Meeting.

The following interesting report of a recent meeting of the Manhattan Grange is taken from the columns of the Manhattan Mercury:

"The meeting was called to order at 1:30 with Worthy Master Matter in the chair.

"The regular routine of business was carried through to the literary program time. Some fine instrumental music by Mrs. Rhodes opened the program.

"Mr. Signor followed with a good sensible speech on the subject, 'Why Are the Press and the Public so Interested in the Improvement of the Farmer?' He took the stand that the average farmers, their wives and their children are just as intelligent, just as well read, just as well dressed and have just as good homes as the average townspeople and have just as much need of a parlor, too.

"Mrs. Rhodes then favored us with a song which was much appreciated.

"Following this was our Grange paper, 'The Spirit of the Grange,' prepared and read by Mrs. Abbott. Some of our leading grangers were contributors to this. Mr. Signor gave 'A Review of the Year's Work in Our Grange.' Mr. Akin prepared an editorial, 'The Invoice of the New Year.' Mr. Fry gave an interesting account of his work as state lecturer during the week from January 5 to 11, inclusive. Mr. Matter wrote a good article, 'The Grange on International Peace,' and Mr. Docking wrote of 'Co-operation in the Grange,' and also discussed it.

"These articles with the grange local news, a few household notes and a smile now and then made our paper very interesting and this closed a profitable meeting.

"A GRANGER."

### Jackson County Pomona Holds a Big Meeting.

One of the largest gatherings of Grangers ever held in Jackson County occurred on Saturday, January 17, when the Banner and Elk Valley Granges entertained the Pomona Grange of Jackson County.

Seven of the wide-awake live Grangers of the county were will represented at this meeting. The Lawn Ridge delegates were accompanied by their Grange orchestra, and they furnished the meeting with some very fine music, which was highly appreciated by all present. The next meeting of the State Grange will be held in Holton, and this orchestra has been invited to furnish music for the occasion, and in all probability they will do so.

A bountiful and very appetizing dinner was served at noon by W. D. Nanneim, one of the best caterers in Holton. The number of plates was 208, and all present had a jolly good time while the dinner was in progress.

After dinner reports were received from the delegates at large to the State Grange meeting at Emporia, and from the insurance solicitors of the various Granges. These reports were highly satisfactory to all the patrons, especially to those who are carrying insurance in the order.

Some very important questions of much interest to the farmers were discussed, among them that of purchasing binding twine from the penitentiary at Leavenworth. Last year the Pomona Grange saved \$500 to its patrons by purchasing one carload of twine there, and it proposes to use two carloads this year at a corresponding saving.

The advisability of shipping in Red Texas seed oats was discussed, and both questions were referred to the Subordinate Granges for definite action.

The question of getting a farm demonstration agent for Jackson County was very thoroughly discussed. Some good arguments were produced on both sides of the question. The matter was finally referred to a committee of three appointed to confer with a similar committee, appointed by the Jackson County Improved Stock Breeders' Association.

Some plans were discussed for entertaining the State Grange which meets in Holton next December. The grangers are already planning and looking forward to this event with much enthusiasm.

Jackson County is rapidly growing in grange membership, several new granges having been organized during the last two years. One new grange has been organized in the last week. The county now has fourteen granges with a membership of 1,250. The Elk Valley Grange, one of the best in the county, has very recently dedicated a fine new grange hall, costing \$1,400, besides the work donated by its members.

The Brick Grange has just closed a very enthusiastic contest for membership, and as a result has initiated about 290 new members.

Three of the Jackson County granges own their own halls—Banner, Brick and Elk Valley.

The Pomona Grange was organized less than a year ago and now has a membership of about 125. This Pomona Grange has been the means of uniting the interests of the subordinate granges of the county, and in a co-operative way has been of much benefit to the farmers.

—MRS. MABEL POMEROY, Holton, Kan.

### Better Poultry Methods by Correspondence.

Kansas can increase the value of the poultry products ten million dollars yearly by careful attention to the selection of the breeding stock and to the prevention of disease in the flock. There is not a farm in Kansas where the maximum of production in the poultry industry has been reached. This is due to the fact that the majority of the farmers know little of the details of scientific practical poultry management, says J. C. Werner, director of the correspondence courses at the Kansas Agricultural College.

"We have just formed a practical course in poultrying that will be of interest to the farmer, his wife, the boys and girls, or the expert poultryman," Mr. Werner said. "The texts and bulletins used should be in the possession of everyone who has even a dozen hens. The course is divided into three divisions—incubating and brooding, feeding and housing, and the prevention of disease.

"Poultry is a paying side line, not only for the farmer, but for the man on a small city lot. It sometimes solves the 'boy on the farm problem,' where the farmer gives the care of the flock to the boys and they make it a profitable business. The professional man finds it of profit to spend his time in working with a few chickens, and it is a fine diversion. At present, there is an increased demand for poultry products because of the high price of meat. This correspondence course will teach any one the fundamentals in scientific management of poultry."

### Guaranteed Advertising.

It is a good practice to answer advertisements in KANSAS FARMER, even though they also appear in other papers, for when you state that you are answering the ad from KANSAS FARMER, you make KANSAS FARMER responsible for every promise and description the advertiser makes concerning his goods. Our guarantee is back of every advertisement we accept.

## Wait!

Don't Invest A Dollar In Any Piano Until You Get Our Great Money-Saving Offer on the **Guaranteed Guild!**

Wait a few days more before you decide that perplexing piano question! Investigate our unequalled proposition on the **Guaranteed Guild** and you'll no longer be perplexed. The **Guild** is the only moderate-priced piano in the world backed with a limitless, perpetual guarantee—not for five years, ten years or twenty-five years, but perpetual! It is sold direct to you at a price which positively saves you from \$500 to \$150.

### 20-Day Free Test!

We don't ask you to take the slightest risk. Every **Guild** that leaves our factory must sell itself. We are perfectly willing to take all the risk and ship a **Guild** direct to your home, all freight prepaid, for a 20-day free test. If it pleases you, it stays. If it doesn't please, it comes back to us at our expense.

### PAY AS YOU PLEASE!

Monthly, Quarterly, Semi-Annually, or Annually. **SPECIAL DISCOUNT FOR CASH.** If you find the **Guild O. K.** in every respect and want to keep it, you may make your own terms and pay as you please—monthly, quarterly, semi-annually or annually, or cash in full after the 20-day test. You can make a first payment of any amount you wish and arrange the future payments in any manner most convenient to you. We have been in business for 36 years. We have pleased customers in practically every Southwestern state. This is our trade territory and we consider our customers as our neighbors—and we treat them as such! Hold up your decision as to "which piano" until you get our illustrated catalogue and money-saving offer. Write today. Just your name and address on a postal card will do.

**E. B. Guild Music Co.**  
741 Kansas Avenue, TOPEKA, KANSAS

## FREE TO 616 PAIR of PILLOWS

There never has been invented anything as comfortable as a real feather bed. If there is one thing that can add to this comfort it is a real feather pillow, resilient and firm. Hundreds of substitute materials have tried to supplant these without success.

Our feather beds are made to weigh 36-lbs., all new sanitary feathers with best ticking, equipped with sanitary ventilators. We guarantee safe delivery and also guarantee to refund full purchase price if you do not like the bed and pillows after trying them 10 days. Send us \$10 and we will send you the feather bed and the pair of 6-lb. pillows.

We prepay the freight. You can act as our agent and make big money. Send us your order today.  
**Turner & Cornwell,**  
Dept. 191  
MEMPHIS, TENN.  
or Dept. 191  
CHARLOTTE, N.C.

When writing advertisers, please mention KANSAS FARMER.

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Deal direct with us—the grower—at grower prices. You save money and get absolutely dependable trees, grown from bearing orchards. You take no risk. Our stock is guaranteed to please you or money back. That's fair, isn't it? Send for our big free Orchard Book with special prices direct to planter. It's a book you will be glad to get. Tells about fine new fruits and shows how to double your profits in fruit-growing.  
**J. MONCRIEF, Pres. Winfield Nurseries,**  
910 Park St., Winfield, Kan.

**\$10.00 Sweep Feed \$14.00 Salvaged Steel Wind Mill.**

We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

**CURRIE WIND MILL CO.,**  
Seventh St., Topeka, Kansas



## Mayer HONORBIT SHOES

Mayer Honorbit Shoes lead in style and are unapproached in wearing qualities. They look, fit, feel and wear right. They give you the latest style, absolute satisfaction, and genuine comfort. These splendid shoes are not equalled by other shoes selling at anywhere near the same price.

**Made for Lasting Service**

Only the choicest upper leather, fine oak tanned soles and the best of materials go into Mayer Honorbit Shoes. They are made to last and hold their shape. Buy Mayer Honorbit Shoes and get the greatest shoe values obtainable.

**WARNING**—Always be sure and look for the Mayer name and trade mark on the sole. If your dealer cannot supply you, write to us.

We make Mayer Honorbit Shoes in all styles for men, women and children. Drysox, the wet weather shoe; Yerma Cushion Shoes; and Martha Washington Comfort Shoes.

F. Mayer Boot & Shoe Co.  
MILWAUKEE

For Men  
Women and  
Children

## Mrs. Farmer, Listen to Me! — Why Fool with Setting Hens?

Is there anything more exasperating than an old "Settin' Hen"? How foolish it is to try to raise chickens "by hand," when the

### Sure Hatch Incubator

is waiting, ready to do the work easier, cheaper, better—at any time, January, March or June!

I build a good, practical hot-water heated incubator, that will hatch even if the room is at freezing temperature.

**U.S. POULTRY BOOK**

You can make a hatch and prove its success to your own satisfaction.

We are reliable; have been in business sixteen years, and back our machine with a strong 5-year guarantee.

You should have poultry on the place to pick up feed that would otherwise go to waste. The Sure Hatch Incubator will enable you to hatch chicks in winter, to get the highest early spring prices. Machine will be shipped to you by first fast freight the day your order is received.

A postal card brings you by return mail my Big Free Catalog, giving full description of Sure Hatch Incubators and Brooders; also prices of the different sizes.

Frank Hammond, Pres. & Mgr.  
**SURE HATCH INCUBATOR CO.**  
Box 42, Fremont, Neb.

**MONEY BACK GUARANTEE**

**FREIGHT PAID**

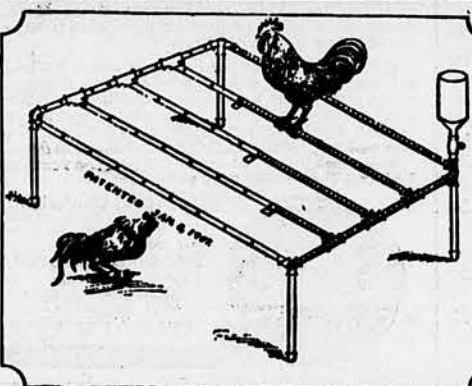
**SEE WHAT OTHER WOMEN HAVE DONE**

"I hatched 95 chicks out of 100 eggs, and it is my first incubator and the first hatching I ever did. I like your Sure Hatch Incubator fine."

Mrs. R. Rachel, Gladstone, N.D.

"I have one of your 150-egg Sure Hatch Incubators and the longer I use it the better it hatches. I took off a hatch yesterday of 147 chicks from 150 eggs. Am well pleased with my machine, after 3 seasons use."

Mrs. Agnes B. Hill, Sanford, Cal.



### THE PERFECTION MEDICATED ROOST

A roost that should be in every chicken house. Kills all the insects. Makes the hens lay. Write for prices. Live agents wanted for Kansas and Oklahoma.

**THE ANTHONY MFG. CO., ANTHONY, KANSAS**

Cut out ad. Good for 10 per cent on mail orders.

### THE THERMOS SILO

A combination Wood and Concrete Silo, with the heat retaining quality of the wood stave and the permanency of the concrete silos.

**DOUBLE WALL WITH DEAD AIR SPACE BETWEEN.**

**25 Per Cent Cheaper Than Any Other Silo on the Market.**

**ONE SIX-FOOT DOOR AT BASE.—NO OUTSIDE LADDER TO CLIMB.—NO HOOPS TO TIGHTEN.**

No freezing of ensilage in the coldest weather. No loss of sour silage around the edges. Every pound of ensilage going into the

**THERMOS comes out 100% FEED.**

You can buy all needed material of your local lumber dealer. Erect this silo yourself in the leisure winter period and save cost of construction later.

Send for free circular to

**THERMOS SILO CO.**

609 R. A. Long Building, Kansas City, Missouri.  
Western Office, Boise, Idaho.



### NORTHWESTERN LIVE STOCK INSURANCE CO.

PAID UP CAPITAL \$100,000. ASSETS \$175,000  
ONE HUNDRED THOUSAND DOLLARS ON DEPOSIT WITH  
THE IOWA INSURANCE DEPARTMENT  
GOOD PRODUCING AGENTS WANTED  
ADDRESS HOME OFFICE. DES MOINES, IOWA

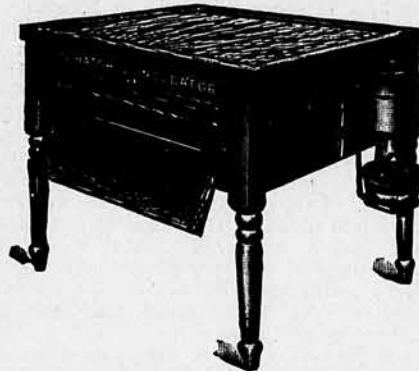
## TESTED INCUBATORS

*Good Incubators Absolutely Necessary in Making Poultry Profitable Farm Industry*

**O**f incubators in general there is no end, and much has been written about them, but of incubators in particular there is not so much knowledge, and we wish to make note of a few incubators that have been tested and tried and have lived up to their specifications.

#### THE SURE-HATCH INCUBATOR.

This incubator is manufactured at Fremont, Neb., and has had a long career of usefulness. It is made out of California redwood, with copper heater and pipes. It is what is called a hot-water machine and retains the heat uniformly in every part of it. The Sure Hatch is a heavy, strong and durable machine, built to last, and to give good service, and with their enormous output the manufacturers can give you a first-class machine at a very low cost, and a good machine at a reasonable cost is what everyone wants. Quality is the



THE SURE HATCH INCUBATOR.

strong point to which the Sure Hatch Company calls attention. The sides and ends of the Sure Hatch are made with two distinct walls of redwood. The space between the two walls is made airtight to provide a dead air space for insulation, since a dead air space is almost an absolute non-conductor of heat. The Sure Hatch people issue a very neat catalog giving 25 reasons for the faith that is in them as making one of the best incubators on earth. There is lots of other information useful to poultry raisers in the catalog, which will be sent on request to anyone who applies for it. Write to the Sure Hatch Incubator Co., Box 42, Fremont, Neb.

#### THE BELLE CITY INCUBATOR.

This machine is made in Racine, Wis., where timber is plentiful and metal conveniently at hand. They make a reliable machine and sell it for very little



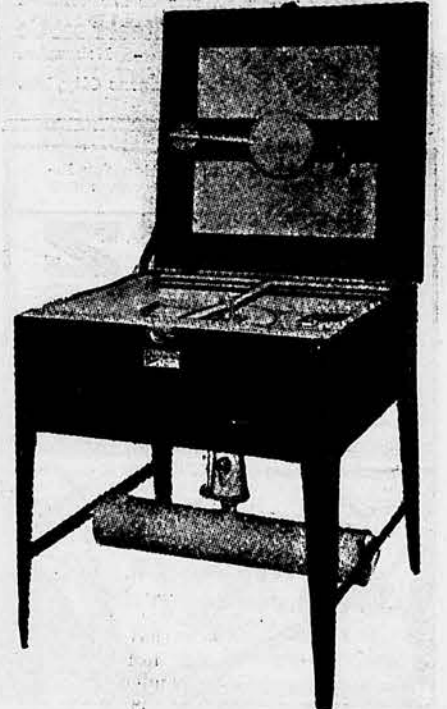
THE BELLE CITY INCUBATOR.

money, because they make so many of them. Their specialty is a machine made out of fiber, an artificial board which they call Paragon board. They claim that this board increases the life of the machine many years, as it does not warp or wear out. Another novel practice of this company is that they make only one-size incubators, the 140-egg machine. The president of the company, Jim Rohan, gives this iron-clad guarantee with each incubator. "I guarantee the 140-egg World's Champion Belle City Incubator to be exactly as represented. I guarantee it to out-hatch any other incubator of equal size when operated under like conditions and according to simple directions. I guarantee it for 10 years and to refund the purchase price if machines do not fill these guarantees after being given a fair trial." Send to Belle City Incubator Co., Box 18, Racine, Wis., for one of their catalogs, in which are many testimonials as to the merits of this machine.

#### THE RAYO INCUBATOR.

This incubator is made in Omaha, Neb., and is entirely different from any other incubator on the market, except its imitators. It is different from hot-water incubators, as different as the sun is from the moon, because it is a hot-air

incubator; but is different from the kind of hot-air incubators that you have always heard about, as it is from the hot-water machines. The Rayo Incubator is heated by radiating pipes, just like the hot-water type, except that inside the pipes there is hot air in place of hot water. The lamp is under the center of the machine, and not at the end, as in other machines. The makers claim there is a great saving of oil in the Rayo machine. There is a glass top on this machine, and you can see all the eggs at once without peering through a side door. The oil tank has a capacity



THE RAYO INCUBATOR.

of five quarts. That means only one filling of the tank to a hatch, and of course no more risk of forgetting to fill the lamp during the hatch. This is really a wonderful machine, and a perusal of their catalog will repay anyone who is thinking of buying an incubator. Write to the Rayo Incubator Co., 1019 13th St., Omaha, Nebraska.

#### THE QUEEN INCUBATOR.

This machine is manufactured at Lincoln, Neb., and has an enviable reputation as a well made reliable machine. It is made in six sizes, from 60 eggs to 540 eggs—a size suitable to the needs of every poultryman from the small scale to the large scale, and at a price within the reach of everybody. It is a hot-water machine, and is an extra well-built affair. It may cost a little more money than other makes, but it will be money



THE QUEEN INCUBATOR.

well expended in the long run, for you will have the satisfaction of having a reliable machine, and having it in good working order for a great number of years. Their catalog is filled with testimonials of those who have used the Queen and found it to be all that its manufacturers claimed for it, a first-class machine, well made, and at a reasonable price. Write to the Queen Incubator Co., Box 28, Lincoln, Neb.

#### THE SUCCESSFUL INCUBATOR.

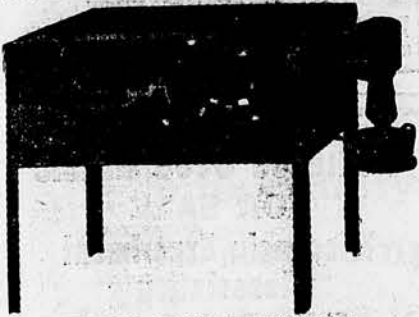
The Successful Incubator is manufactured by the Des Moines Incubator Company, Des Moines, Iowa, and is all that is name implies, a successful machine for the hatching of chicks. It is made of the best material it is possible to buy, and by the best skilled workmen, and although the price is very low, it is a machine that looks well, as well as one that works well. They have a large catalog describing the workings of their incubators and filled with testimonials of delighted customers. This will be sent free on request to any of our readers, also a catalog of high-grade poultry,



all leading varieties. It will pay you to write at once for these catalogs and other poultry information to the Des Moines Incubator Co., Box 83, Second St., Des Moines, Iowa.

#### THE OLD TRUSTY INCUBATOR.

Nearly everyone knows where the Old Trusty Incubator is made—Clay Center, Neb. It was invented there, many years ago, by M. M. Johnson, and a successful business built up, which is now carried on by his son, H. H. Johnson, a chip off the old block. The Old Trusty is a hot-water metal-covered machine, and has been very popular with thousands of people. The catalog of the Old Trusty is an elaborate affair, filled with portraits of successful hatches made with the machine and the people who manipulated them. Instead of speaking himself, Johnson lets the people speak for him with the pictures of the machine filled with newly-hatched chicks. The price of the Old Trusty is a very modest



THE OLD TRUSTY INCUBATOR.

one and no farmer is so poor that he cannot afford to own one, and Johnson pays the freight on them to their destination. Be sure and send for this fine catalog. Write to the M. M. Johnson Company, Clay Center, Neb.

All of these incubators that we have mentioned are thoroughly reliable machines. KANSAS FARMER does not advertise frauds, and we know these manufacturers do not come under that head. There may be a matter of detail or make-up in one machine that you will like better than in others, but they are machines that can be depended upon to hatch chickens, and that is what is wanted in an incubator. Any of these machines will more than pay for themselves in one season. Write for any one of the catalogs, or send for all and study them over carefully. Whichever machine you order, you will be certain of getting an incubator that will hatch out chicks much better and cheaper than with hens.

#### BROODERS.

While we have restricted our notes to the merits of the incubators, it is as essential to have a good brooder as a good incubator, and all these manufacturers make a brooder to go with their incubators, so we advise our readers to buy a brooder at the same time you buy your incubator, and of the same manufacturer, for as a rule the same principles govern these men in making their machines. One is made to supplement the other and when separate are not as efficient as when they go together. With a good incubator and a good brooder you can hatch the chicks and raise them to a profitable size and need never be short of a good fry or a fine roast.

#### Scratching Shed for Poultry.

An exercising room or place where the fowls can have their grain scattered in an abundance of litter, such as straw, hay or leaves and dry dirt is sometimes provided apart from the main house or room. This is often left open to the south or may have a curtain or burlap or doors to be closed in bad weather.

Winter and summer quarters and a scratching shed may be combined in a house of one room suited, under favorable conditions, for a flock of thirty adult fowls. It may be built of stone, brick or concrete, but in most sections it is best to construct the house of lumber and build on runners so that it can be readily moved if it ever becomes desirable to change to fresh ground or a new location.—H. A. McKEENE, Springfield, Illinois.

#### Balanced Ration for Hens.

Although many maintain that the hen is a vegetarian a small amount of meat scrap added to the ration is very beneficial. During the summer, chickens eat grasshoppers and bugs, so the value of the meat scrap is more noticeable in the winter time. Poultry, and especially laying hens, require some protein from an animal source. The scrap supplies this protein.

#### Cottonseed Hulls in Ration.

The following inquiry comes from B. A. F., of Butler County: "In feeding 20 to 25 pounds of corn silage containing no grain, what would be the necessary

amount of cottonseed hulls to balance the ration when fed with about two pounds of cottonseed cake or meal daily?"

This correspondent reports having some bound kafir to feed with the silage. The cottonseed cake will cost \$32 per ton and the hulls \$11 per ton. He makes further inquiry as to whether \$6 per ton, weighed, would be a fair price to place on silage which was made from shock corn taken from the field early in the fall. This inquiry fails to state what class of cattle is being fed. The inference from the nature of his inquiry is that they are stock cattle. This correspondent undoubtedly has a slightly erroneous idea as to the character and composition of cottonseed hulls. The digestible nutrients contained in cottonseed hulls as given by Henry in his text on "Feeds and Feeding" are as follows: Total dry matter per 100 pounds, 88.9 pounds; digestible protein, .3; carbohydrates, 33.2; fat, 1.7.

Cottonseed hulls consist chiefly of crude fiber or cellulose, and come in the same class of feeds as straw. They are used in the South as a roughage to lighten up the cottonseed meal. It will be interesting to note how this material compares with straw in feeding value. According to the authority referred to above, oat straw contains 90.8 pounds of total dry matter per 100 pounds, 1.3 pounds protein, 39.5 carbohydrates, and .8 fat. Even wheat straw contains more digestible protein than cottonseed hulls. Fat is the only nutrient which the hulls contain in excess of the same nutrient as found in wheat or oat straw, and the amount is so small that it can almost be left out of consideration in studying the feeding value of the hulls.

Cottonseed meal or cake, on the other hand, is a very concentrated feed, containing over 37 per cent of digestible protein. The two pounds of cottonseed



FAWN AND WHITE INDIAN RUNNER.—  
GREAT CLAIMS MADE FOR VARIETY.

meal or cake given with 25 pounds of corn silage and what addition dry roughage might be available, would make a very satisfactory ration for wintering stock cattle. A ration of this kind was used at the experiment station at Hays, Kan., in wintering beef breeding cows last winter. One lot of these cows received 20 pounds of silage daily, one pound of cottonseed meal, and all the wheat straw they would consume in addition, which amounted to an average of over 17 pounds per head daily for more than 100 days. This ration produced average daily gains per cow of over half a pound. We would suggest that our correspondent use the results of this Hays experiment as a guide in feeding his stock cattle. Where the cattle are limited to 20 or 25 pounds of silage daily they will eat considerable additional dry roughage, and from the results of the test at Hays it will appear that cattle receiving silage for a ration consumed more wheat straw than those which received kafir fodder in the place of silage.

Six dollars a ton is rather a high price to place on silage containing no grain. Ordinarily three tons of good average silage may be considered worth as much as one ton of first-class hay.

It's pretty safe to follow the old hen's method of feeding chicks. She feeds them often and in small bits. She gets them plants and tender greenness. She keeps them on the move. She gives them animal food in the form of worms and bugs, and doesn't mix any wet mash.

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—That Can't Crack, Shrink, Dry Out, Rot or Crumble—That Is Absolutely Air-Tight—Moisture Proof—Trouble Proof—Proof Against Sun, Wind, Drouth, Weather and Silage Juices—of the

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World's only Hatching Chart, \$1.50 Hygrometer and Money-Making Book, "Turning Eggs Into Chicks Into Dollars." Complete Hatching Chart and the Hygrometer FREE to all who buy a Rayo; sample of Chart and the book No. 5, which also tells all about Rayo incubators and brooders, free to all who ask. Request them today.

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At our old home in Dickinson County mother used to make soap every spring and fall—it was the soap used on wash day and in scrubbing. On most farms soap-making has gone out of fashion, but if strict economy is desirable, the custom might well be revived. The farmer is spending too much of his money for the things he should obtain at home.

Laundry soap may be made easily from the fat that accumulates in cooking. It is very economical and entirely satisfactory. The fat first should be clarified by adding to the melted fat a few slices of raw potato. The melted fat then should be heated gradually until it ceases to bubble and the potatoes are well browned. Strain it through a double thickness of cheesecloth and set it aside to cool until the temperature is 120 degrees F. The process may be repeated if necessary.

**PROTECT YOUR HANDS.**  
To make soap, dissolve the contents

of a can of lye in 2½ pints of cold water, and stir until the lye dissolves. Lye irritates the hands, hence it is well to protect them by putting paper bags over them. Cool the solution to about 80 degrees F. Slowly pour the dissolved lye into the grease, stir until the lye and grease are thoroughly combined and the mixture drops from the stirrer like honey. The mixture should be stirred slowly, but not too long, for there is danger of separating the lye. From five to ten minutes is enough, depending on the grease and the weather.

A small quantity of soap may be molded in an agate pan, which should be wet before pouring in the mixture. Set the molds away for a day or two. After that time, it may be unmolded and cut up as desired. Agate ware or wooden utensils should be used in making soap, as lye will eat the tin and ruin the utensil. Individual round cakes may be made easily by molding the soap in granite gem pans.

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AN APRON  
AND A HOUSE GOWN**

6066 6071 4650 5787 5654 5487 6123

No. 6468—Ladies Apron: This apron is just the thing for wearing around the kitchen, as it covers the entire dress. It fastens at the back. The pocket and the front strap are in one piece. Linen, gingham or chambray can be used to make this apron. The pattern, No. 6468, is cut in sizes 34, 38 and 42 inches bust measure. Medium size requires 4½ yards of 36-inch material. No. 6066—Ladies' Shirt Waist: Madras, linen or China silk can be used to make this waist. The waist closes at the front and can be made with either the long or short sleeves. The pattern provides for a removable chemise. The pattern, No. 6066, is cut in sizes 34 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material and 1 yard of lace edging. No. 5787—Ladies' Waist: Serge, linen or striped messaline can be used to make this waist, with the trimming of contrasting material. The waist closes at the back and is made without shoulder seams and with a removable chemise. The pattern, No. 5787, is cut in sizes 32 to 42 inches bust measure. Medium size requires 2 yards of 44-inch material, ¾ yard of 18-inch allover, and ¾ yard of 24-inch satin. No. 6071—Ladies' Shirt-Waist: Any of the wash materials can be used to make this waist. The waist closes at the front and can be made with or without the box plait at the front and with either the high or low neck. The pattern, No. 6071, is cut in sizes 34 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material or 1½ yards of 44-inch goods. No. 4650—Ladies' House Dress: Many women prefer the house dress to a kimono or a wrapper, and here is an excellent pattern for making such a garment. The dress closes at the left side of the front. The bishop or leg o' mutton sleeves can be used. The skirt is cut in seven gores. The pattern, No. 4650, is cut in sizes 32 to 42 inches bust measure. Medium size requires 4½ yards of 44-inch material and 1½ yards of insertion. No. 5854—Ladies' Waist: Any woman can make this waist in a couple of hours. The waist closes at the front and can be made with either the long or short sleeves. The waist is also made with a peplum and with a removable shield. The pattern, No. 5854, is cut in sizes 32 to 42 inches bust measure. Medium size requires 2½ yards of 44-inch material and ¾ yard of 27-inch contrasting goods. No. 5487—Ladies' Waist: Linen, lawn or messaline can be used to make this waist, with the yoke and cuffs of allover lace or embroidery. The waist closes at the back and can be made with either the long or short sleeves, and with or without the collar. The pattern, No. 5487, is cut in sizes 32 to 42 inches bust measure. Medium size requires 1½ yards of 44-inch material, ¾ yard of 18-inch allover, and 2½ yards of insertion. No. 6123—Ladies' Shirt-Waist: Any of the striped materials can be used to make this shirt-waist, with the collar and cuffs of contrasting material. The waist closes at the front and can be made with either long or short sleeves. The pattern, No. 6123, is cut in sizes 34 to 42 inches bust measure. Medium size requires 1½ yards of 44-inch material and ¾ yard of 27-inch contrasting material. Price of each pattern, 10 cents.

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keys. W. F. Hirsch, Ellinwood, Kan.

BOURBON REDS, FINE STOCK—EGGS,  
\$3 for eleven. Julia Haynes, Baileyville,  
Kan.

LARGE MAMMOTH BRONZE TURKEYS  
not related to stock sold previous years.  
Sadie Litton, Peabody, Kan.

PURE-BRED BOURBON RED TURKEYS.  
Buff and White Orpington Partridge Rock  
chickens. A. M. Farmer, Pratt, Kan.

PURE-BRED WHITE HOLLAND TUR-  
keys for sale. Mrs. C. R. Hudspeth, Buck-  
ner, Mo.

FOR SALE—PRIZE-WINNING MAM-  
moth White Holland turkeys sired by a 46-  
pound tom. Miss Lillian Schaal, Lexing-  
ton, Mo.

MAMMOTH BRONZE TURKEYS—A FEW  
good toms and pullets for sale. Winners at  
State Poultry Show. Also eggs in season.  
G. W. Perkins, Newton, Kan.

THE STRAIN THAT WINS THE BLUE—  
Mammoth White Holland Turkeys. First on  
all at Iowa State Fair, 1913. \$5.00, male or  
female. Longworth's, Polk, Iowa.

MAMMOTH BRONZE TURKEYS—36  
toms and 35 pullets, sired by first prize  
State Show tom. Pullets, \$3.50 to \$5.00 each;  
toms, \$5.00 to \$10.00. Eggs in season. Mrs.  
H. E. Bachelder, Fredonia, Kan.

M. B. TURKEYS—YOUNG STOCK Sired  
by "Champion," seven times a first prize  
winner in leading shows of Kansas and  
Missouri. My hens have great show rec-  
ords, including first hen and first pullet at  
Kansas State Show, January, 1913. On six  
entries at Kansas State Show, January,  
1914, I won first and second cockerel, first,  
second, third and fifth pullet. A few White  
and Buff Rock cockerels at a bargain. New-  
ton Blue Ribbon Poultry Farm, G. W. Per-  
kins, Prop., Newton, Kan.

# POULTRY



Have you ordered that incubator?  
You cannot raise early chicks without  
one.

The sooner the chicks of the larger  
breeds are hatched out the better, for  
they need several months to get their  
growth in time for the fall fairs.

One subscriber writes that she feeds  
her hens sour milk through the molting  
season and during the winter, with ex-  
cellent results. She is never without  
fresh eggs the year around she writes.

Early in December a flock of over 1,800  
turkeys were driven from Ezzel to Hal-  
lettsville, Texas, a distance of twelve  
miles, in two days. Drives of this kind  
are not uncommon in Texas, as the ma-  
jority of live turkeys marketed are  
brought in in this way.

The Lawrence Creamery Company of  
Lawrence, Kansas, is going to operate a  
poultry fattening establishment in con-  
nection with their creamery, utilizing  
the by-products to fatten the fowls and  
then ship them to the Kansas City  
market.

We learn that the Kansas Poultry  
Federation had a real good show at  
Independence the first week in January.  
Neither the awards nor the details of  
the show have reached us, but they were  
especially strong on lectures and insti-  
tute work.

Leavenworth as usual had an extra  
good poultry show. Their showing in  
pigeons and pet stock is quite a feature.  
The quality of the birds was said to be  
better than ever and the quantity was  
fully up to last year's show.

D. A. Chacey of Leavenworth, had a  
fine showing of Buff Rocks and White  
and Silver Wyandottes at the recent



PRIZE-WINNING BLACK LANGSHAN COOK,  
OWNED BY G. M. KLUSMIRE, HOLTON, KAN.

Leavenworth show. He took most of  
the premiums in all three varieties. Mr.  
Chacey says he has quite a number of  
each kind for sale and will sell them at  
very reasonable prices. He guarantees  
a square deal or your money back.

The old reliable breeder of S. C. Brown  
Leghorns, H. C. Short, had a big string  
of his beauties on exhibition at the  
Leavenworth show. He took nearly  
every premium that was offered.

During the latter half of last Novem-  
ber, guaranteed, select new-laid eggs re-  
tailed in New York City at 80 cents to  
85 cents per dozen. These eggs, at the  
high prices named, were sold by fancy  
grocers to an exclusive trade that de-  
mands the "real thing" and that can  
afford to pay for it at any price.  
"Guaranteed" means "new-laid" beyond  
the possibility of a doubt, and "select"  
means extra large and pure, clean white.

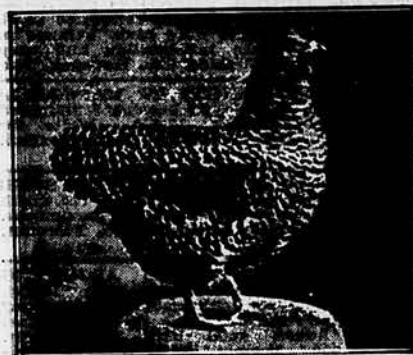
At the Buffalo, N. Y., poultry show  
they had something new in the way of  
contests. Several pens were entered to  
see which laid the most eggs during  
the show. A pen of five S. C. R. I. Reds  
won by laying 21 eggs in five days; the  
second prize being won by a pen of S. C.  
W. Leghorns with 19 eggs. This would  
be an interesting feature to add to any  
show. A breeder who could get his hens

in condition for laying during the show  
would be entitled to considerable credit.

The 300-egg hen has arrived. Au-  
thentic word comes from Professor Dry-  
den, head of the poultry department  
of the Oregon Agricultural College, Cor-  
vallis, that on November 12 a trapnest-  
ed hen, known as No. C521, laid 303  
eggs for a period of three hundred and  
sixty-five consecutive days. This is the  
highest well-authenticated yearly egg-  
yield thus far recorded by trapnest in  
the United States or Canada. The hen  
is seven-eighths White Leghorn and one-  
eighth Barred Plymouth Rock.

#### Buy an Incubator.

It is hardly necessary to tell any in-  
telligent poultry breeder that an incu-  
bator is a necessity of his business. All  
breeders know that they cannot hatch  
chicks early enough for their needs un-  
less they have incubators. Early chicks  
are a necessity for those exhibiting fowls  
at the fall and winter shows, for unless



PRIZE-WINNING OLD RELIABLE  
BARRED ROCK VARIETY, REED BY  
GEORGE MEVOY, CEDARVALE, KAN.

they get them out early they will not  
be mature enough to exhibit in proper  
condition. The fowls will not be up to  
standard weight and their feathers will  
not be ripe and therefore will be badly  
handicapped when competing for a prize.

The poultry breeders realize the value  
of an incubators as prime adjuncts to  
their plant, but the ordinary farmer does  
not realize the benefit an incubator  
would be to him. In the first place he  
could hatch his chicks much earlier with  
an incubator than with hens, and then  
get good prices for the chicks as broilers  
when they are ten or twelve weeks old.  
In the second place he would get many  
more eggs by breaking up his setting  
hens and getting them to lay again by  
using an incubator to incubate the eggs  
in place of hens.

Good incubators can now be bought  
for a few dollars and the price of one  
could be saved in one season. Look over  
the incubator advertisements in this is-  
sue of KANSAS FARMER and send for  
their catalogs.

#### Coop For Hen With Chicks.

A coop two feet square, two feet high,  
in front, one and one-half feet high at  
the back with a single pitch roof pro-  
vides a safe home for the mother hen  
and her little flock. The front of the  
coop has a slatted door or a frame door  
covered with one-inch mesh wire net-  
ting. A shutter hinged at the top may  
be provided for protecting the front of  
the coop at night and during bad  
weather. This may be fastened up for  
shading the front of the coop when the  
sunshine is too hot.—H. A. McKEENE,  
Springfield, Illinois.

#### Hens Too Fat to Lay?

A fallacy often heard is that hens may  
become too fat to lay. Don't believe it.  
To get the most eggs, feed the hens well  
and give them plenty of exercise. Many  
poultrymen feed the grain in several  
inches of litter. The hens are allowed  
to eat all they will scratch out. The  
scratching gives them the necessary exer-  
cise.

Many persons think hens should be  
warmly housed. However, excellent re-  
sults have been obtained by using a  
tightly built house with an open front.  
A dry roosting place, protection from  
drafts, and fresh air are needed. Warmth  
can take the place of none of these or  
that of good wholesome feed. There is  
such a thing as having a house too warm  
and poorly ventilated.

## Chicks Worth Raising

Not cripples or weak-  
lings. They come big,  
strong and vigorous  
when hatched in the



### Queen 1914 Model Incubator

Simple, honest, self-regulating. "Temperature  
did not vary more than one degree during entire hatch,"  
says W. H. Gray, Centerville, Ohio. See the low-priced sets  
shown. You cannot buy an incubator at any price, that  
will do better hatching for you. Send for free catalog now.

QUEEN INCUBATOR COMPANY  
Box 28, Lincoln, Neb.



Cleans a building of Rats and Mice in short time,  
keeps it clean, for it is always ready for use.  
Made of galvanized iron, can't get out of order,  
lasts for years. Large number can be caught  
daily. Go to Catcher's menagerie, remove device  
inside, which only takes few seconds, take out  
dead rats and mice, replace device, it is ready  
for another catch. Small place catches is used,  
doing away with poisons. Catcher is 18 inches  
high, 10 inches diameter. When rats pass de-  
vice they die, no marks left on them. Catcher is  
always clean. One of these Catchers set in a  
livery stable in Scranton, Pa., caught over 100  
rats in a month. One sent prepaid to any place in  
United States upon receipt of \$3. Catcher, 8  
in. high, for mice only, prepaid \$1. On account  
of shipping charges being prepaid, assistance  
is suggested with order. H. D. SWARTZ,  
Inventor and Manufacturer, Scranton, Pa.

## EQUINEAKE

The Most Wonder-  
ful Cure For

## HORSE COLIC

known. Send \$1.00 for bottle, or card  
for booklet. Address

WOODMANSEE REMEDY CO.  
503 N. Academy St., Galesburg, Ill.

When writing advertisers, please men-  
tion KANSAS FARMER.

## CEMENT

## SILO BUILDERS

Should write for information about my  
new forms and form lifter. Easy to op-  
erate, safe, and insures perfect work. I  
will figure with you on building your  
cement silo. Write

J. M. BAIER, Elmo, Kan.

(Shipping Point, Abilene, Kan.)



### ANDERSON'S

S. C. WHITE ORPINGTONS

Won at the Independence  
(Federation) Show, January 5-  
10, 1914, 1st, 4th and 5th hen;  
2d cockerel. This, with my  
many other winnings, should  
put the seal of "Quality" on  
my flock. Now booking orders for eggs.  
Send for free booklet.

P. H. ANDERSON, Box F-53, Lindsborg, Kan.  
Life member American Poultry Association.

BLACK LANGSHAN COCKERELS  
\$1.50 each. Satisfaction guaranteed. Also  
eggs. J. E. GISH, Manhattan, Kan.

## White Plymouth Rocks

Again prove their superiority as egg lay-  
ers in the National Egg-Laying Contest,  
one White Rock hen laying 281 eggs; 645  
hens competing. I have bred White  
Rocks exclusively for 20 years and have  
them as good as anybody. Eggs from  
three high-scoring pens, \$2.00 per 15;  
\$5.00 per 45, delivered free by parcel  
post or express. Safe delivery guaran-  
teed. A limited number of eggs from a  
specially fine mated pen, \$5.00 per 15.  
You will get what you order, or money  
refunded.

THOMAS OWEN,  
Station B, Topeka, Kansas.

## TOO LATE TO CLASSIFY

JACKS AND JENNETS.—Six  
fine 3 and 4-year-old jacks and  
17 mammoth black Jennets for  
sale. Will sell worth the money.

JNO. A. EDWARDS,  
Englewood, - - - Kansas.

When writing advertisers, please mention  
Kansas Farmer.



# Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your advertisement here reaches over 300,000 readers for 4 cents a word per week. No "ad" taken for less than 40 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order.

SITUATIONS WANTED ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

## HELP WANTED.

**MEN WANTED TO LEARN BARBER trade.** Term not limited. Tools free. Call or write. Topeka Barber College, 327 Kansas Ave., Topeka, Kan.

**MEN FOR ELECTRIC RAILWAY MOTOR-men and conductors;** fine opportunity; about \$80 monthly; experience unnecessary; no strikes. State age. Address Box M, Care Kansas Farmer.

**WANTED—RAILWAY MAIL CLERK,** carriers and rural carriers. Examinations soon. I conducted examinations. Trial examination free. Write Ozment, 44 R. St. Louis.

**FREE ILLUSTRATED BOOK TELLS OF** about 300,000 protected positions in U. S. service. Thousands of vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Just ask for booklet S-809. No obligation. Earl Hopkins, Washington, D. C.

**FARMERS—WE WANT AGENTS IN** every school district in the state of Kansas to solicit applications for our popular hail insurance. A little work will give you your insurance free. Write us for particulars. "The Old Reliable." Kansas Mutual Hail, Sterling, Kan.

**MEN AND WOMEN WANTED FOR** government jobs. \$65 to \$150 month. Vacations, steady work. Parcel Post and Income Tax means many vacancies. Common education sufficient. "Pull" unnecessary. Write immediately for free list of positions now available. Franklin Institute, Dept. C-82, Rochester, N. Y.

**YOUNG MAN, WOULD YOU ACCEPT** and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job. Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Co., Dept. 675, Chicago.

## REAL ESTATE.

**YOU CAN SELL YOUR FARM OR BUSINESS** quickly for cash, wherever it is, by our system. Particulars free. Black's Business Agency, Desk 15, Durand, Wis.

**NEW YEAR BARGAINS IN SUNNY** South Missouri. Homes for those of moderate means. Write for list, free. Avery & Stephens, Mansfield, Mo.

**WANTED—TO HEAR FROM OWNER** who has good farm for sale. Send description and price. Northwestern Business Agency, Minneapolis, Minn.

**WANTED—IMPROVED FARMS AND** wild lands. Best system for quick results. Full particulars and magazine free. Don't pay big commissions. Western Sales Agency, Minneapolis, Minn.

**FOR SALE—IMPROVED 480-ACRE** farm, price \$50 per acre, one-third cash, balance good terms; or trade equity for Western Kansas land. Address George Schoor, Owner, Mound City, Kan.

**FOR SALE—QUARTER SECTION IRRIGATED.** Good water right. Fifteen acres bearing orchard, 45 acres alfalfa, balance plow land; 1 1/2 mile to town, on railroad. Price, \$13,000; \$7,000 cash. Horace Sharp, Owner, Joliet, Mont.

**MY LAND IN LOGAN COUNTY, KAN.,** consisting of 400 acres, as follows: The west 1/4 and south 1/4 of the southeast 1/4 Sec. 22-11-36, 400 acres. Apply to the undersigned for prices and terms. Moses Lev-erton, Warren, Ill.

**FARMS WANTED—WE HAVE DIRECT** buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 43 Palace Bldg., Minneapolis, Minn.

**OPPORTUNITY FOR 1,000 FARMERS,** near big beautiful city of Denver. Splendid market. Big prices for your products. Strictly reliable details free. Griswold, Farm Specialist, 412 Chamber of Commerce, Denver, Colo.

**A REAL SNAP, DIRECT FROM OWNER.** Eastern Colorado lands. The most profitable state in America for dairying and stock raising. Easy terms. The cows will pay for the land. T. H. Hagen, Board of Trade, Duluth, Minn.

**WIDOW MUST SELL 403 ACRES, IN-**cluding 36 choice Holstein cows, fodder, 100 acres valuable timber, modern buildings worth \$7,000, running water. Price, \$10,000. Easy terms. Free catalog. C. J. Ellis, Springfield, N. Y.

**OREGON STATE PUBLICATIONS FREE**—Oregon Almanac, Oregon Farmer and other official books published by State Immigration Commission, telling of resources, climate and agricultural opportunities for the man of moderate means. We have nothing to sell. Address Room 54, Portland Commercial Club, Portland, Oregon.

**FOR SALE—200 ACRES; 100 CULTIVA-**tion, pasture, mow land, 7-room house, two windmills, spring water, barn, corn crib, granary, other outbuildings; rock cave, cellar under house, cistern, scales. Ten miles to Alta Vista and Council Grove. Young orchard, plenty shade trees. Phone. This is a snap. Will sell if taken within 20 days. Price, \$39 per acre. R. B. Berends, Alta Vista, Kan.

**VICTORIA, AUSTRALIA, WANTS SET-**tlers. Special inducements offered by State Government which owns lands, water, railways and free schools. Excellent climate, resembles California; no extreme heat or cold. Small deposit and \$1 1/4 years for purchase of lands, adapted to every kind of culture. Citrus fruits, apples and pears; wheat, corn, alfalfa, sugar beets; dairying, hog raising, etc. Ample markets. Exceptional opportunities in irrigated districts. Reduced passages for approved settlers. Free particulars from F. T. A. Fricke, Box 34, 687 Market St., San Francisco.

## REAL ESTATE.

**BARGAIN—160 ACRES IMPROVED UP-**land, 2 miles from Tecott. W. A. Hlands, Owner, Culver, Kan.

**FOR SALE OR TRADE—FINE LEVEL** section school land. S. A. Crabb, Portales, New Mexico.

**FARM ALL UNDER CULTIVATION, \$3,-**000, for registered Percheron stallions, mares or other stock. Lane Realty Co., Dighton, Kan.

**DELAWARE FARMS OF ALL KINDS** and sizes can be bought right. Information sent free by the State Board of Agriculture, Dover, Delaware.

**BACK TO THE LAND—ONLY HOME-**seekers' magazine in the U. S.; full of farm bargains. 40 cents a year, six months' trial 20 cents. Homeseekers' Magazine, Dept. C-12, Traer, Iowa.

**MISSISSIPPI FARMS—1,000 TO 3,000** acres. Ideal for colonization or stock ranches. Fine corn and grass lands; mild climate; short winters. Write for literature. W. S. P. Doty, Grenada, Miss.

**FOR SALE—A REAL BARGAIN IN A** very choice pair of corner lots, only two blocks from the Agricultural College. Street car at door. Part cash. Address Eliza Sing, Manhattan, Kan., 1031 Vattier St.

**TEXAS SCHOOL LAND OPENING—**Million acres coming on market, \$1.50 to \$5 per acre; 5 cents per acre cash, balance in 40 years. Advance information and map free. Journal Publishing Co., Houston, Tex.

**160 ACRES, 2 MILES OF MARSHALL;** 40 cultivated, 25 acres in bearing fruit; good improvements. Price, \$1,600. Write for description. Ozark Realty Co., Marshall, Ark.

**A SNAP—1 1/2 ACRES IMPROVED, SOME** fruit, fixed for poultry. \$2,000. Cost much more. Time on part. Write for particulars. No trade. Address Lock Box 35, Florence, Kan.

**FOR SALE—25 ACRES ADJOINING** city limits, Lawrence, Kan., town 18,000. Ideal location for suburban home, fancy stock or dairy farm. Close to electric line. Six-room house, good barn, city water. Price, \$7,000. Terms. L. J. Strahan, Belton, Mo.

**160 ACRES, 90 PER CENT PERFECTLY** level and tillable, 30 acres broken, all fenced, house and barn, 2 1/2 miles from Malta on Great Northern railroad. Will be under United States Government Irrigation ditch in 1914. Best soil in Milk River Valley; convenient to creamery. Price, \$4,000, on easy terms. Frank Bogart, Helena, Mont.

## HORSES AND MULES

**FOR SALE CHEAP—TWO GOOD USE-**ful jacks. J. M. Davis, Route 2, Bronson, Kan.

**FOR SALE—TWO EXTRA GOOD** young jacks, three and five years. W. J. Strong, Moran, Kan.

**FOR SALE—FINE IMPORTED PERCHERON** stallion, six years old. C. R. Pearson, Hoxie, Kan.

**TWO STYLISH YOUNG JACKS, GREEN-**wood County Fair champions, priced to sell. Harry Bileon, Eureka, Kan.

**REGISTERED PERCHERON STALLIONS** and mares, \$250 to \$600. Write for description, or come. E. T. Philpott, Lenox, Iowa.

**FOR SALE OR TRADE FOR GOOD** mules, two Percheron stallions, both registered, 2 and 3 years. One sired by the world's champion, Casino. Also two jacks. Harvey Beeler, Emmett, Kan.

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**TYPEWRITERS, ALL MAKES, ALL** prices. Guaranteed same as new. Will ship for trial. Crane & Co., Topeka, Kan. "45 years in business." Write for Catalog "G."

## SITUATION WANTED.

**WANTED—STEADY WORK ON FARM,** by day or month, by experienced man. R. E. Newcomer, Collyer, Kan.

**EXPERIENCED TELEPHONE MAN AND** wife desire to take charge of a telephone system. References furnished. Address Telephone, Care Kansas Farmer.

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**YOUNG MAN, EXPERIENCED FARM** hand, wants steady job on farm. Understands handling stock. Address Willie Worley, Barclay, Kan.

**WANTED—A JOB ON A FARM EITHER** by month, year, or on shares, by a young married man; small family; farmer all his life. John Rupp, 3846 Wynkoop St., Denver, Colo.

**WANTED—A POSITION BY MARCH 15** as farm manager. Have had practical experience and graduate of agricultural school; single, American. F. Cady, 115 N. Bassett St., Madison, Wis.

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**GOOD VIOLIN FOR SALE CHEAP. EX-**cellent toned. Could send on trial. Write Miss Bertha W. Mardis, Route 5, Rosedale, Kan.

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**GREYHOUNDS AND STAGHOUNDS, CO-**yote dogs. Arkansas Valley Kennels, Cimarron, Kan.

## TREES, SEEDS AND PLANTS.

**SEED CORN—\$1.50 IF TAKEN AT ONCE.** Bert Williams, Marysville, Kan.

**PURE ALFALFA SEED—I GROW ALL** I sell. De Shon, Logan, Kan.

**\$6.00 WILL BUY 100 DELICIOUS WHOLE** root crown grafts. Send for list, its free. Sunny Slope Nursery, Hannibal, Mo.

**GREAT WHITE PEARL AND REID'S** Yellow Dent seed corn. Average test 98. W. F. Davis, South St. Joseph, Mo.

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**STRAWBERRY PLANTS, PURE-BRED,** leading varieties. Bowser Fruit Co., Dixon, Illinois.

**SEED CORN—FINE QUALITY OF** Boone County White, 1913 crop, \$2.00 per bushel. B. A. Nichols, Hutchinson, Kan.

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**SEED CORN—1,000 BU. WHITE ELE-**phant, extra heavy. Crib run, \$1.50; graded, \$2.00. J. C. Clemmons, Anadarko, Okla.

**PLANT TREES THAT GROW. WRITE** today. Wellington Nurseries, Wellington, Kan.

**SEED CORN—HOWARD'S PRIZE CORN.** Pride of Saline, yellow and white. Circulars. H. Howard & Son, Marshall, Mo.

**ALFALFA SEED, \$5 PER BUSHEL. I** have 200 bushels clean alfalfa seed at \$5 per bushel, f. o. b. St. Francis, Kan. Small samples free. Josiah Crosby.

**FOR SALE—PURE-BRED YELLOW** Dent seed corn, \$2.50 per bushel. Order of the Country Club Farm. M. S. Zachary, Jacksonville, Ill.

**EARLY SEED CORN—HEAVY YIELD-**ing, early maturing yellow, \$1.75 bushel. Samples and details free. Elmer Klingensmith, Hughville, Ind.

**CALICO SEED CORN FOR SALE—**Graded, sacked and on track. Price, \$2.00 per bushel. W. J. Carpenter, Clay Center, Kan.

**ALFALFA SEED, \$6.60 PER BUSHEL,** sacked. My own growing and free from any kind of weed seed. Certain to please. Chas. Hardwick, Lamont, Okla.

**FOR SALE—FINE DRIED SEED CORN** from leading varieties: Brown's Choice, Silver Mine, Reid's Yellow Dent and Yellow Rose. For particulars write Emery Brown, Mitchellville, Iowa.

**D. V. BURRELL'S SEEDS ARE FAMOUS** for quality. Send 10 cents for five trial packets, cantaloupe, cucumber, water melon, cabbage, tomato, and free catalog. Write today. D. V. Burrell, A-18, Rocky Ford, Colo.

**SEED CORN FROM GROWER—PURE-**bred Boone County White, 1912 crop, raised on best Kaw Valley land. Ear corn only. Guaranteed extra fine. \$2.00 per bushel. J. W. Cochran, Route 6, Topeka, Kan.

**ALFALFA SEED, DAWES COUNTY,** non-irrigated alfalfa seed, cane, millet and sweet clover seeds. Baled alfalfa hay, all cuttings. Prices and samples free. Schwabe Bros., Chadron, Neb.

**THE BRODBECK SWEET CHERRY—**Twice the size of Early Richmond. Only one failure in past 20 years. Two hundred trees for sale. Write for its history. S. S. Brodbeck, Gallatin, Mo.

**STRAWBERRY PLANTS AT \$1.00 FOR** 1,000, etc.; quality guaranteed as good as any man's plants; all varieties. V. Ever-bearers. Catalog free. Allegan Nursery, Allegan, Mich.

**DWARF MILO MAIZE IN HEAD, CARE-**fully hand selected for years, \$2.25 per cwt. Peterita, re-cleaned, \$2.50 per cwt. Sourless cane, re-cleaned, \$1.75 per bushel. Buy direct from grower. Eli Taylor, Liberal, Kan.

**SEED CORN—ALL THE LEADING VA-**rieties, bred for large yields. Kiln dried and each ear tested for germination in three or more places. Your money's worth or money back. Catalog free. W. H. Boeker & Sons, Petersburg, Ill.

**KAFIR SEED—BLACK HULLED WHITE,** germination test 99 per cent. This kafir has been given special attention. Threshed and graded. \$3.25 per hundred, bags free. Reference, Bank of Gage. G. E. Irvin, Gage, Okla.

**ALFALFA SEED—RECLEANED, HOME-**grown, non-irrigated alfalfa seed \$5.40, \$6.00, \$6.60, \$7.20 per bushel, our track. Seamless bags, 25c each. Delivered price on request. No weed seed in this section. The L. C. Adam Mercantile Co., Cedar Vale, Kan.

**"101" RANCH SEED CORN—FREE ON** request, circulars about our celebrated "101" White Wonder, Bloody Butcher and Improved Indian Squaw Seed Corn—thoroughly acclimated to all parts Southwest; outgrowth, outyield all other varieties. Miller Brothers, 101 Ranch, Box K, Bliss, Okla.

## HAY, GRAIN AND FEED.

**BALED ALFALFA FROM THE BIGGEST** alfalfa farm in North Kansas. Address Robert Hanson, Concordia, Kan.

## PATENTS

**PATENTS SECURED—BOOKLET ON** request. Harry Patton Co., Suite 10 McGill Bldg., Washington, D. C.

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**HONEY—PURE EXTRACTED 60-IB.** can, clover, \$6; 2 cans, \$11.50; 60-lb. can heartsease, \$5.25; 2 cans, \$10. F. O. B. Center Junction. Quality guaranteed. W. S. Paughburn, Center Junction, Iowa.

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**GRADE HOLSTEIN CALVES, BOTH** sexes, for sale. Arnold & Brady, Manhattan, Kan.

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**WANTED—RELIABLE FARMER WITH** equipment to take charge of 110-acre irrigated farm in lower Pecos Valley. Good opportunity for right party. Call or write at once for particulars. C. B. Hypes, 700 Kansas Ave., Topeka, Kan.



## FIELD NOTES

## FIELD MEN.

O. W. Devine.....Topeka, Kan.  
Jesse R. Johnson.....Clay Center, Kan.  
W. J. Cody.....Topeka, Kan.

## PURE BRED STOCK SALES.

**Percherons.**  
Feb. 17—Joe Dvorak, Marion, Kan.  
Feb. 25—J. C. Robinson, Towanda, Kan.  
**Jacks.**  
Feb. 24—H. J. Hineman & Sons and D. J. Hutchins, Sterling, Kan.  
March 9—G. C. Roan, La Plata, Mo.  
**Shorthorns.**  
Feb. 16—C. S. Nevius & Son, Chiles, Kan.  
Feb. 26—Hoadley & Sigmund, Selden, Kan.  
March 25—Central Shorthorn Breeders' Association, W. A. Forsythe, Manager, Greenwood, Mo. Sale at Kansas City, Mo.

## Jersey Cattle.

March 5—Everett Hays, Hiawatha, Kan.  
May 11—H. C. Johns, Carthage, Mo.

## Poland Chinas.

Feb. 12—W. B. Wallace, Bunceton, Mo.  
Feb. 17—C. S. Nevius, Chiles, Kan.  
Feb. 17—L. E. Klein, Zeandale, Kan.  
Feb. 17—E. M. Wayde, Burlington, Kan.  
Feb. 18—J. R. Cline, Iola, Kan.  
Feb. 18—J. H. Harter, Westmoreland, Kan.  
Sale at Manhattan.  
Feb. 19—W. Z. Griffith, Riley, Kan.  
Feb. 19—W. A. Baker, Butler, Mo.  
Feb. 20—A. J. Swingle, Leonardville, Kan.  
Feb. 20—W. A. Davidson, Simpson, Kan.  
Feb. 28—A. R. Reystead, Mankato, Kan.  
March 3—George Wedd & Son, Spring Hill.  
March 4—L. V. O'Keefe, Bucyrus.  
March 4—John Kemmerer, Mankato, Kan.  
March 10—Joshua Morgan, Hardy, Neb.  
March 24—Herman Groninger & Son, Bendena, Kan.  
Oct. 28—George S. Hamaker, Pawnee City, Neb.

## Duroc Jerseys.

Feb. 10—Kansas Agricultural College, Manhattan, Kan.  
Feb. 11—Thompson Bros., Garrison, Kan.  
Feb. 12—J. A. Porterfield, Jamesport, Mo.  
Feb. 21—Dana D. Shuck, Burr Oak, Kan.  
March 7—E. G. Munsell, Herington, Kan.  
March 11—W. W. Otey and Sons, Winfield, Kan.  
March 12—G. C. Norman, Winfield, Kan.  
March 13—Samuel Drybread, Elk City, Kan.  
March 18—R. P. Wells, Formoso, Kan.  
March 25—W. H. Mott, Herington, Kan.

## Berkshires.

Feb. 10—Kansas State Agricultural College, Manhattan, Kan. Sale in forenoon.

Attention is called to the advertisement of John A. Edwards, Englewood, Kan. Mr. Edwards is offering six very fine three and four-year-old jacks and 17 mammoth black jennets for sale. Look up his card in Kansas Farmer and write him. He is offering this stock well worth the money.

**L. V. O'Keefe's Poland Sale March 4.**  
We wish to announce that L. V. O'Keefe, of Bucyrus, Kan., will sell 50 Poland China sows and gilts on March 4 at his farm near Stillwell, Kan. For catalog, write to Bucyrus, Kan. Sale ad and further mention will appear next week in Kansas Farmer.

**Blue Ribbon Sale of Poland Chinas.**  
Don't fail to send for a catalog of the Blue Ribbon sale to be held at Rich Hill, Mo., on February 18, 1914. There will be a hog show when W. Z. Baker drives in the ring his big-type champions. Please read ad in this issue and arrange to attend.

**George Wedd & Son Poland China Sale.**  
Please note that George Wedd & Son, of Spring Hill, Kan., will sell a draft of 55 head of Poland Chinas on March 3. Twenty of the gilts will be sired by the 830-pound Wedd's Long King, and a number of the sows will be bred to him. Please see sale ad and further announcement next week, and send early for a catalog.

This will be the last call for the combination Berkshire and Duroc bred sow sale by the Agricultural College at Manhattan. This sale will be held at the college sale pavilion, February 10. The offering will be the best lot of Berkshire and Duroc sows ever sold at the college, having been fed with an idea of future usefulness. The entire offering is immune.

**Last Call for W. B. Wallace Sale.**  
We wish to call our readers' attention to the Poland China bred sow sale of W. B. Wallace at Bunceton, Missouri, on February 12. Mr. Wallace is selling 50 head of extra good Poland China bred sows and gilts. They will be bred to his trio of herd boars—Grand Monarch, Expansion Wonder, and Monarch. If you are interested in the big, useful Poland Chinas arrange to attend this sale. Remember the date is Thursday, February 12, 1914.

This will be the last call for John A. Porterfield's Duroc bred sow sale. Breeders should not overlook this sale. The offering is first class in every way. They are the big, smooth kind, sired by boars that are among the best of the breed and out of extra high-class Crimson Wonder and Ohio Chief dams. Many of them are bred to Mr. Porterfield's great herd boar, Top Inventor, one of the great Duroc boars now in service.

**L. R. Wiley Sells Good Horses.**  
Mr. L. R. Wiley, of Wiley Horse Importing Company, Emporia, reports good sales for the opening month of 1914. He reports sales bringing in more cash and less long-time notes and a demand for better horses. He reports buyers paying particular attention to breeding as well as to individuality. For this he gives credit to Professor Campbell, secretary of the State Live Stock Registry Board, in educating both the farmer and the stallion buyer on the importance of producing better horses. Up to the time this report was received they had sold eleven head during the month of January. They still have a very high-class lot of horses and breeders will find the prices low when the quality of the offering is considered.

Attention is called to the advertisement of Lew Jones, of Alma, Kan. Mr. Jones is offering some imported Belgian and Percheron stallions and mares that will interest breeders wanting strictly high-class stock. He is also offering a few registered jacks. Mr. Jones' show string were prize winners at Topeka, Hutchinson and American Royal shows in 1913, winning 28 first and championship ribbons, three gold medals, and two silver medals. He is offering his prize winners for sale, and his entire offering will please breeders wanting good ones. Look up his card and visit or write him at

Alma. Please mention Kansas Farmer when writing.

**J. C. Robinson Percheron Sale.**  
The Whitewater Falls Stock Farm, Towanda, Kan., Robinson Percheron and World's Fair champion Percherons, are all brought to mind whenever Percheron horses are mentioned anywhere in the Southwest. Mr. Robinson has earned the reputation of being one of the leading breeders of Percheron horses in Kansas. When Wednesday, February 25, 1914, arrives, those who are at his sale, which will be held in the great sale pavilion on the Whitewater Falls farm near Towanda, Kan., will see one of the greatest offerings ever run through a sale ring, consisting of 20 head of imported and home-bred stallions and 30 head of the best young imported and home-bred mares ever sold on this farm. If you are expecting to attend or know of a friend who is interested in good Percherons, send early for a catalog. It will interest you. It is brim full of horse sense and is nicely illustrated with cuts made from actual photos taken on the Whitewater Falls Stock Farm. Please read the one-fourth page ad in this issue and kindly mention Kansas Farmer when you write.

**Glenwood Farms Sale.**  
On February 16, C. S. Nevius & Sons will sell a number of useful Scotch cows, bred to bulls that seldom sire less than \$200 bulls and always make valuable animals. The fifteen two-year-old heifers are a grand lot in fine condition—they are the smooth, blocky kind—would be valuable in any herd and grow into herd cows valued at \$300 to \$500. The attraction of this sale is the great herd bull Prince Valentine 4th. Seldom do breeders have the opportunity to buy such a bull at any price. He is a proven sire and a show bull backed up by a rich pedigree. No. 2 in the catalog is a rich roan Lavender and is equal to the highest-priced bull sold in our last sale for \$585; he is a thick, meaty fellow and should be looked after. No. 3 is a rich red Butterfly—a mellow fleshed fellow and few better bulls sold. No. 4 is a Searchlight calf—coming from the Secret family, of splendid proportions and will make a herd header for some good herd. There are eight young bulls in this sale that should go to head pure-bred herds. Don't fail to send for the catalog and remember that the hog sale is the next day, February 17. Everyone interested in getting good Poland Chinas should attend both sales. Catalogs are ready to mail out. Write for one and kindly mention Kansas Farmer.

**Third Annual Jack Sale.**  
On February 25 at Sterling, Kan., J. T. Hineman, of Lane County, and D. J. Hutchins, of Sterling, Kan., will sell 25 head of tried jacks, all fashionably bred and broken to service, ranging in age from two years to mature jacks. In the head of producing jennets that are bred to extra good jacks. This is the third sale for these gentlemen, and they are selling a clean offering. They are going to stay in the jack business and are not making a quit-business or closing-out sale. They are selling some extra good jacks and they will be sold by men that give and stand by their guarantees. Some of the best herd jacks known to the breed have been used in these herds. High Tide, 1564, is a black jack with white markings, foaled 1902; 15% hands standard, 15% tape measure; sire, High Style, he by Tarkington Napoleon, he by Imported Napoleon; dam, The Downs Jennet by Stigall's Black Hawk 2d, one of Kentucky's greatest jacks, and he by Prince of Wales that sold for \$2,000 when jacks were low. High Tide has a wonderful head and ear and the greatest crest the writer has ever seen on a jack; wonderful action for a jack his size. He could hit a five-minute gate on the road. He proved a great breeder on both mares and jennets, some of his jack colts bringing as high as \$800 when coming two-year-olds, and having sired mules which sold for \$125 at weaning time. You will see some of this great jack's get in this sale. Pharaoh 2491 is a black jack with white points, foaled July 13, 1906, 15% hands high standard measure, weight 1,150 pounds. Owned by H. T. Hineman & Sons, Dighton, Kan. His sire was Hinkle's Taxpayer 1681, he by Imported Taxpayer 157, dam, Miss Bloodworth, by Old Liberty, a great Kentucky jack; second dam a mammoth jack. The dam of Hinkle's Taxpayer 1681 was a Starlight jennet. Pharaoh is one of the best jacks in the world today. He won first in four-year-old class and grand championship over all classes at the Tennessee State Fair at Nashville in 1910, and grand championship over all at Gallatin, Tenn., in 1910. Pharaoh is not only a great show jack, but he is also a great breeder, both on mares and jennets. A few of his jack colts will be sold in the sale, and several jennets bred to him. Please send for catalog and come to this sale. Kindly mention the old reliable Kansas Farmer when you write.

**Covered Runs for Chickens.**  
If cats or hawks are likely to disturb the chicks, a connecting yard at one or both sides of the coop, one foot high, two feet wide and three or six feet in length enclosed and covered with wire netting, will keep in the chicks and exclude their enemies. Both coop and yard frame should be made of light lumber so as to be readily movable to fresh ground. These must be placed where the chicks can keep dry under foot. An excellent plan is to place several coops for hens near together, letting the chicks intermingle from the first.—H. A. McKEENE, Springfield, Ill.

**Mature Hens For Breeding.**  
Pullets are not to be preferred to mature hens for breeding stock. Pullets are immature, and although they lay well, a smaller per cent of the eggs are fertile. Eggs from hens produce larger and stronger chicks. A healthy, mature hen that has proved her ability and value in the laying pens should be used rather than a young hen.

Some people say the value of the incubator has been overestimated. But, ordinarily, hens do not become broody early in the season, and the incubator can be used to advantage. The early chickens are the most profitable, both for the market and winter egg production. Also, the hen can take care of a large number of chickens, while the number of eggs on which she can set is limited.

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170 ACRES in fine alfalfa, sweet clover and prairie hay. All well fenced, house of 7 rooms, bearing fruit trees; nice grove, 3 miles town, 7 miles county seat and Division Ranch joins free range. Price, \$50 per a. Can furnish good title and terms. 6% int. Owner must retire on account of old age. Also have a few quarters smooth raw land real cheap. Commission to agents. Write today. BOX 451, SYRACUSE, KANSAS.

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160 ACRES, well located, Franklin Co., Kan.; 6-room house, other good improvements. \$9,000. Time on \$4,000, 6 per cent. ALLEN MANSFIELD, Ottawa, Kan.

**FINE BUTLER COUNTY STOCK FARM.**  
For sale on exceptional terms, 400 acres, 1 1/4 miles from trading and shipping town on Frisco R. R.; 120 bottom alfalfa land, 30 acres alfalfa, balance pasture; nicely improved. \$55 per acre, \$3,000 cash, owner carry balance 6 per cent. V. A. OSBURN, El Dorado, Kansas.

**HAY AND DAIRY FARM.** 20 miles north of Colorado Springs; 85 acres in timothy and clover, 120 cultivated, good improvements, running water, 5 miles to good market. Price, \$10,000; one-third cash, balance to suit. R. J. Gwillim, Colorado Springs, Colo.

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Progressive Farmer, Birmingham, Ala.	170,000	.80	.80
Indiana Farmer, Indianapolis, Ind.	55,113	.25	.25
Breeder's Gazette, Chicago, Ill.	90,328	.50	.50
Prairie Farmer, Chicago, Ill.	105,000	.50	.50
Hoar's Dairyman, Ft. Atkinson, Wis.	65,479	.40	.38
Wisconsin Agriculturalist, Racine, Wis.	63,454	.30	.30
The Farmer, St. Paul, Minn.	140,855	.60	.55
Wallace's Farmer, Des Moines, Iowa.	70,000	.25	.25
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320 Acres, 70 acres fine creek bottom, 185 under cultivation; a lot of fine level upland, good black loam soil, improved, fine water, more can be cultivated, balance pasture and meadow, some alfalfa, a fine stock and grain farm. WEAVER & MYERS, Wakefield, Kan.

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**SNAP.**  
Farm adjoining town. 160 acres joining Fall River, Kan.; fenced, cross-fenced; 35 acres cultivated, balance fine native grass, used as meadow and pasture, dandy dairy farm, 6-room house, nice home. Price, \$5,500, half cash, balance time to suit. Owned by non-residence, hence low price. Also rich black loam 40-acre farm 3 miles out, fairly well improved; 37 acres cultivated; grow anything; finest water in state. Price, \$1,400; \$800 cash, balance to suit. I can suit any man for land. Write me for list. W. A. Nelson, Fall River, Greenwood County, Kansas.

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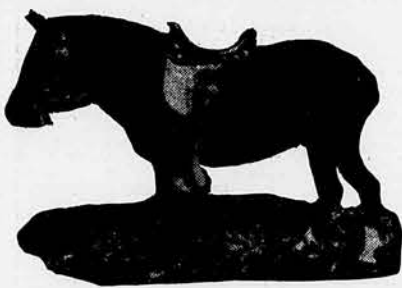
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## Three Fine Gentle Shetland Ponies and Outfits To Be GIVEN AWAY

**FREE:** TO BOYS AND GIRLS: KANSAS FARMER, the big paper you are reading now, is going to give away three fine, gentle Shetland ponies and outfits to boys and girls March 20, 1914.

Do you want one? One hundred and four other Kansas boys and girls have already won KANSAS FARMER Shetland ponies, and so can you. There is no nicer pet or playmate in the world for a child than a cute little pony like these we are going to give away. It will be easy to get one—the other boys and girls said it was easy and they were so glad they sent in their names to the PONY EDITOR. There is no easier or better way to get a Shetland pony than to send in your name right away. It costs you nothing to enter this contest and you will sure win a Pony or a Cash Prize.



Who Wants a Pony Like This One?

**FREE OFFER IF YOU ENTER DURING THE NEXT 15 DAYS.** Don't wait—send in your name and address at once. To all who send in their names within 15 days a FREE PREMIUM will be sent with a free outfit and full information about the contest, so ACT AT ONCE.

### FILL IN THE COUPON AND MAIL TODAY.

PONY EDITOR KANSAS FARMER, 625 Jackson St., Topeka, Kansas.

Dear Sir:—I desire to enter your Shetland Pony Contest. Please send me Free of Cost the Free Premium and Free Outfit and tell me how I can win a Pony and Outfit.

My Name. \_\_\_\_\_ Address. \_\_\_\_\_

My Father's or Mother's Name. \_\_\_\_\_

Postoffice. \_\_\_\_\_

Street or R. F. D. \_\_\_\_\_ State. \_\_\_\_\_

## Letters From Poultry Breeders

### Interior Fittings of Hen House.

The interior fittings of the hen house should be as few and simple as possible and all easily removable so that they may occasionally be placed out of doors in the sunshine and fresh air or thoroughly sprayed, whitewashed or otherwise cleaned and treated to prevent insects and disease germs harboring in the house.

A roosting platform may be placed one and one-half or two feet above the floor in the back part of the house. It may be three feet wide and extend the full length of the house if thirty large fowls are to be provided for. The platform should be made of matched boards,



S. C. WHITE LEGHORN COCKEREL.—FINE SPECIMEN OF THIS GREAT EGG BREED.

clear of knots, smoothly planed and closely fitted together. Perches are not always needed, but if thought necessary may consist of two by three scantlings, planed smooth, rounded at the upper edge and placed broadside down about six inches above the platform. To insure protection of the fowls during the coldest nights, from danger of becoming chilled or freezing their combs, the walls and ceiling of the roosting place may be sheathed and the fronts protected by a curtain which later is kept out of the way in moderate or warm weather.—H. A. McKEENE, Springfield, Illinois.

### The Ever Popular White Wyandotte.

I am asked what kind of poultry pays me best. While I have never failed to realize a good profit from my ducks and turkeys, yet the kind of poultry that pays me best of all is my pure-bred White Wyandottes.

It is always a pleasure for me to write about the White Wyandottes. They are always ready to back you up in any statement you make about them. They are the one breed that has made steady progress without any unnatural booms.

When I first started breeding them twelve years ago, they were among the largest classes in all the large shows. Today they are the largest class in nearly every important show in America.

Why are they so popular? First of all is their great laying qualities. No breed in existence will lay more eggs in a year or more in winter than the White Wyandottes. In the egg laying contest just closed they came out with colors flying and in the English contest they made wonderful records. In a recent report by the London Times, White Wyandottes won three out of six of the gold medals for the highest laying pens, two of them being first and second. The second reason is because of their grand table qualities. A well bred Wyandotte is always plump and ready for market at eight weeks old, thereby making them the best breed for broilers, for they grow as quickly as any breed in the standard. I have had cockerels weighing seven pounds at five months old. The third reason is their beauty. What is more beautiful on the farm than a flock of snow-white birds of true Wyandotte shape, with their close-fitting, bright red combs and faces and rich yellow legs?

In the season just past, from a flock of 75 hens I realized a net profit of \$3.10 per head per hen, by selling eggs for hatching and the best cockerels for breeders. In addition, they furnished every day for my table fresh eggs and meat for a family of nine.

What I have done you also can do if you have the right breed, give them the proper care and management and are not afraid to work, as the secret of success with poultry lies principally in the management.—MRS. A. J. HIGGINS, Effingham, Kansas.

### Buff Wyandottes.

To every person wishing to start a pure strain of poultry the variety or

breed to select is of considerable importance. This is as true of fowls as it is of cattle, horses or hogs and it pays with all these farm animals to use nothing but pure varieties or breeds. While it is true that there is no "best variety or breed" of fowls for all persons or all conditions there are undoubtedly varieties or breeds which are especially adapted for certain purposes. It should always be remembered that a great proportion of the poultry produced is produced for utility purposes. Only a very small proportion, comparatively speaking, is used for fancy or exhibition purposes. Even here the ultimate aim of the fancier who exhibits poultry is to keep the strains pure and improve the varieties for utility purposes.

Utility breeds or the all-purpose fowls should always be good layers, good for market purposes, of good size and of quick maturity. It is only in the American classes that we find breeds that fill all these above requirements.

The writer's first poultry experience was in the breeding of Barred Rocks. Later he became greatly attracted by the beauty of the Wyandottes, and now we have settled on this breed as our chosen breed and have had no reason to regret our choice. Our principal reason for choosing this breed was because of the beautiful shape. The Wyandotte is a bird of curves and it is truly said that this bird "travels on its shape." They are low and blocky and mature in a shorter time than any of the other American breeds. They have the low rose combs, which are less liable to freeze and for that reason we think they are better winter layers than any of the single comb breeds, under average farm conditions.

There are a good many varieties of the Wyandottes and we finally chose the Buff for a number of reasons. From the



BUFF WYANDOTTE COCKEREL.—THIS VARIETY GAINING WELL-EARNED POPULARITY.

standpoint of beauty we admired a genuine golden buff bird more than any other color. This color does not show the dirt and therefore the birds do not have to be washed and laundered as do white birds when taken to the show room. They are also safer from hawks on the farm than pure white birds. Beautiful as the white bird may be when perfectly clean they are very seldom seen in that condition. The Buff Wyandottes carry heavier feathering than the other Wyandotte varieties and for that reason stand the cold better. This variety has always been noted as winter layers. In all the egg laying contests that have been conducted the Buff Wyandottes have been right up in the front ranks. In an egg laying contest conducted some years ago at the Kansas Experiment Station the writer had a pen entered, one hen of which finished third, being beaten only by White Leghorns.

As a table bird they are unexcelled. When dressed they show a carcass which is compact and plump, and these plump bodies, with their yellow skins, when properly roasted come to the table in a way to tempt the appetite of an epicure.

The Wyandotte varieties are all very quiet and easily controlled. A four-foot fence will hold them. With all this quietness they are good foragers. As a fancier's bird they are almost in a class by themselves at the present time. They have never been boomed, but are slowly coming into their own and will never take any backward steps. Once a Buff Wyandotte crank always one, providing the right kind of stock is selected in making the start.—WHEELER & WYLLIE, Manhattan, Kansas.

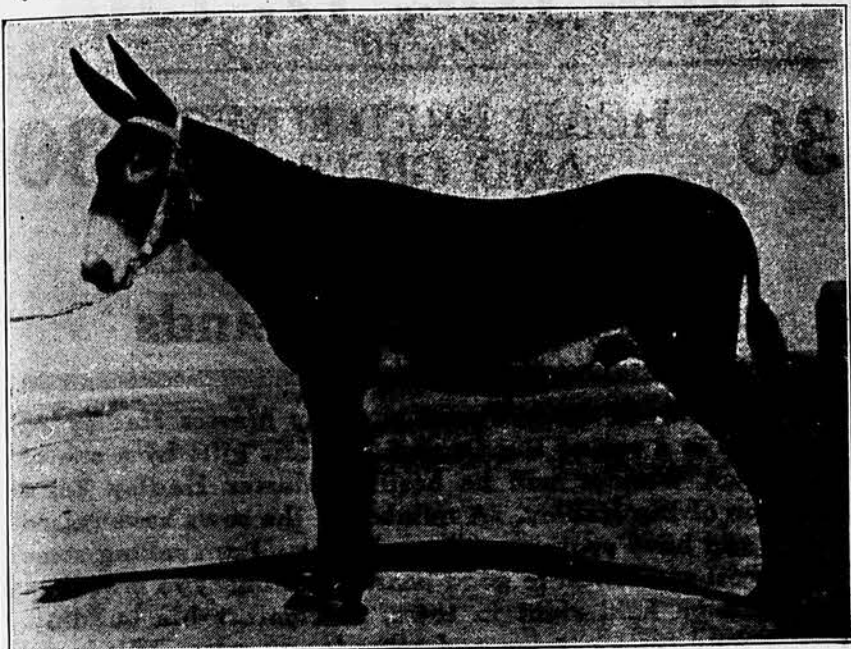


## Third Annual Jack Sale

AT STERLING, KANSAS,

Tuesday, February 24, 1914

Twenty-Five Tried Jacks—From two to six years old.  
Ten Head Jennets—All are bred to extra good jacks. All are producing and are safe in foal.  
The jacks will consist of several tried jacks of very fashionable breeding. We won more first premiums on jacks and jennets than all other exhibitors at Kansas State Fair, 1913, Hutchinson.  
Seven Two-Year-Old Jacks—Extra good and nicely broken.  
Four One-Year-Old Jacks—Will mature into large jacks. Two are sired by old Pharaoh.



PHARAOH 2491.

Four Four-Year-Old Jacks. Four Five-Year-Old Jacks.  
Six Three-Year-Old Jacks.

All are nicely broken and sold as represented. This offering comes from two of the best herds of jacks in Kansas, headed by Missouri King and Pharaoh.

Write for illustrated catalog, and come to the sale.

**D. J. HUTCHINS**

STERLING, KANSAS.

AUCTIONEERS—COL. E. L. HARRIMAN, SNYDER, POTTER AND CLAWSON.

**H. T. HINEMAN**

DIGHTON, KANSAS.

AUCTIONEERS—COL. E. L. HARRIMAN, SNYDER, POTTER AND CLAWSON.

### FIELD NOTES

#### Baler's Cement Silo Forms.

J. M. Baler, Elmo, Kan., is advertising in this issue his new cement silo forms and form lifters. This outfit can be sold at a much less price than those manufactured in the East. In some localities farmers are joining forces and building their own silos at a saving of several hundred dollars on each silo. These forms and form lifters simplify cement silo building and make them of more perfect construction and lessen the danger in building. Mr. Baler's outfit was thoroughly tried out last season and he himself erected a number of silos in the vicinity of Abilene. Write him for prices and his plan of selling to a company of farmers. He will figure with you on erecting a cement silo if you desire. Write him for further information.

#### Feed Crushed Grain.

A saving of from 15 to 20 per cent in feed without impairing the condition of their animals is the common experience of farmers and stockmen who feed crushed grain instead of the whole grain. Easier and more thorough digestion of the feed results in better health of the animals—freedom from digestive troubles. The Bowsher Feed Mills will crush and grind ear corn (with or without shucks). Will also grind wheat, oats, barley, rye, and all small grain. It takes but a short time to grind a day's feed for 100 cattle. The Bowsher mill is a pay-for-itself machine manufactured by the C. N. P. Bowsher Co., South Bend, Ind. This company holds four gold medal awards for the excellence and efficiency of their machine.

J. H. Harter, of Westmoreland, Kan., one of the best known Poland China breeders of the state and of Mogul's Wonder fame, will hold his annual bred sow sale this season at Manhattan, Kan., on Wednesday, February 18, which is the second date in the big Riley County circuit. The sale will be held in the judging pavilion at the college. Mr. Harter will have his usual good useful offering and will put in as attractions a dozen or more fall yearlings and tried sows sired by Mogul's Monarch, one of the greatest sow sires ever owned in the West. This great boar died during the fall, and this will be the last chance to buy sows sired by him. A large per cent of these will be bred to the herd boar, Long King, one of the smoothest and best feeding sons of the noted Long King's Equal. Others are bred to Mr. Harter's big smooth boar, Gephert, a boar tracing to Blain's Wonder. Of the 22 spring gilts included in the sale about half are by Long King and about all out of Mogul's Monarch sows or sows carrying some of his blood. Some of these gilts are bred to Harter's Long King, a son of Long King and out of a sow by Redemption Chief. You will like this offering, together with a trip to the college, so write for catalog and plan to attend or send bids if desired to fieldman for this paper.

#### Swingle Closes Circuit.

A. J. Swingle, big-type Poland China breeder of Leonardville, Kan., has fourth and last place in the Riley County bred sow sale circuit, his date being February 20. The sale will be at the Swingle farm adjoining town, and one of the greatest offerings of gilts of the season will go through the ring. Few Kansas breeders have bought more liberally from the best Iowa breeders, and this sale will be composed almost entirely of Iowa bred hogs. The 20 gilts are specially choice. They were sired by the big herd boars, Big Orange Again, and first-class son of the noted Big Orange, and Grif-

ter's Surprise by Long Surprise and out of the noted sow, Mollie Fair. These gilts are exceptionally large and roomy and will make great brood sows. They will be bred to the young boars, sons of Sioux Chief, an Iowa prize winner in big-type shows. They are out of a dam by the big boar, Long-fellow. The tried sows and fall yearlings are bred along the same lines, and are bred to Big Orange Again and Gritter's Surprise. The blood lines all the way through suggest immense size, many of them only one or more places removed from A Wonder, Big Orange, etc. Remember this, together with the entire circuit. Write for catalog and be there or send bids to representative of this paper.

#### Price Made Good Sale.

Ned B. Price, one of the best known breeders in Central Kansas, made a dispersion sale at Mankato, Friday, January 30. The demand for the tried sows and early spring gilts was extra good, but a number of gilts all bred rather late reduced the average to a trifle below \$40 per head, not enough for such a good offering. Number 5, a choice two-year-old sow sired by Chief Protection by Ohio Chief, topped the sale at \$80. She was bought by W. R. Mitchell of Mankato. Col. John Brennan was the auctioneer. Following is a partial list of sales, with buyer's name and address:

1—W. R. Crow, Hutchinson, Kan.	\$56.00
2—S. S. Simmons, Mankato.	44.00
3—W. R. Crow	75.00
4—Leon Carter, Asherville	50.00
5—W. R. Mitchell, Mankato	80.00
6—Peter Anderson, Jamestown	50.00
7—James Robbins, Mankato	35.00
8—W. R. Crow	33.00
9—S. S. Simmons	38.00
10—Tom Burkett, Otego	32.50
11—J. A. Reed, Lyons	45.00
12—James Robinson, Mankato	40.00
13—J. L. Phillips, Ionia	42.00
14—W. E. Campbell, Esbon	34.00
15—H. M. Cripe, Mankato	39.00
16—W. E. Mitchell	45.00
17—W. R. Crow	35.00
18—A. M. Rinehart, Smith Center	35.00
19—Tom Burkett	33.00
20—J. E. Pratt, Mankato	33.00

#### Success With Incubators.

There are still a lot of people in the belief that incubator-hatched chicks are not as strong as those hatched under hens, says the Des Moines Incubator Company, and they further state that they believe they can do more to eradicate this false belief by citing some facts accomplished with their "Successful" incubators and brooders. W. Koch, of Bellingham, Wash., started three years ago with one of our hatching outfits and had such good success in hatching and raising the chicks that he now operates nine of the largest-sized incubators and brooders. Several of his neighbors have also ordered from one to six of these 312-egg size Successful incubators. A Kint-lein, of Hempstead, N. Y., last year secured a No. 5 Successful incubator. A little while ago he gave an order for six of the No. 4, 312-egg size Successful incubators. Julius Wurst, of Waterville, Minn., was quite skeptical about incubators and brooders; nevertheless he tried it by ordering last spring one of the No. 9 240-egg size machines, and in three hatches produced 610 strong chicks from 720 eggs and raised all but eight or ten of them. He also ordered additional Successful incubators and brooders. Mrs. Laura Allen, of Guthrie, Okla., last spring hatched 734 chickens from 863 eggs, and had fine success in raising them. Henry Williams, Ledgewood, N. J., has had a 240-egg size incubator for two years, and always hatched over 200 chickens, having

the record hatches in his neighborhood. He wants two more of these machines. Fred Pantecook, of Fulda, Minn., said lately that he had seen so many people having such good success in hatching and raising their poultry in the Successful incubators and brooders that he wants to try it himself now, and ordered a 240-egg size machine. The Linwood Poultry Farms, of Davenport, Iowa, one of the largest egg farms in the Middle West, have used Successful incubators and brooders exclusively and with such success that they have added more from year to year. Dozens of poultry raisers could be named who a few years ago started the poultry business with but one incubator and brooder and now operate from five to a dozen Successful machines. They had success from the very beginning, both in hatching as well as in raising chicks; otherwise they would not have seen the need of adding more of these machines. "Successful" incubators require little attention, are dependable and safe, economic in the consumption of oil, and are simplicity itself in operating. The Des Moines Incubator Co., 83 Second St., Des Moines, Iowa, will be glad to send you their 128-page catalog.

#### Immune Bred Gilts.

Hubert J. Griffiths, one of our Poland China advertisers living at Clay Center, Kan., writes that the demand for Poland Chinas has been unusually good. Mr. Griffiths has sold 20 spring boars, all at good prices, and has just sold 10 bred gilts to one man. He changes his card so as to offer 20 gilts bred to his herd boar, A Big Orange Again. These gilts are large and of splendid type, nearly all of them sired by Colossus Pan, Mr. Griffiths' great Colossus and Expansion-bred boar. He also offers 20 fall boars and gilts at very low prices in order to close them out quickly.

#### Griffiths Sells February 19.

J. L. Griffiths, the Poland China breeder who has been holding good sales for the past few years, holds third place in the Riley County circuit this year, his date being Thursday, February 19. His offering will be first class, as it always is. He is putting in eight of his splendid tried sows, including Lady Wonder 1st, one of his famous Wonder sows, also one sired by Colossus, the boar that won so many firsts at leading fairs a few years ago. This sow has four gilts in the sale sired by Long King's Best, the highest-priced son of Long King that was ever brought to Kansas. Two extra fine gilts were sired by the great boar, A Wonder's Jumbo. A large per cent of the females that are included in the sale are related to the big 700-pound Wonder sows that have made the Griffiths herd so well known. This strain came from the Mouw and Wheeler herds, and there is nothing better in big-type breeding. All of the tried sows and a part of the gilts will be bred to the great young herd boar, King of Kansas, a son of Long King's Equal and out of the sow, May Wonder, by A Wonder. He is truly a boar destined to make Poland China history. He will make a 1,000-pound hog. Other gilts are bred to the young boar, A Jumbo Wonder, almost exactly the same breeding. Catalog upon request. Come or send bids to Jesse Johnson in Mr. Griffiths' care.

#### J. M. Nolan's Stallions and Mares.

With this issue J. M. Nolan of Paola, Kan., starts an ad for his Percheron and Belgian stallions and mares. Mr. Nolan exhibited the grand champion stallion at the American Royal in 1912, and has a number of extra good horses in his barns for

## PERCHERON SALE

AT

### Whitewater Falls Stock Farm

J. C. ROBISON, Prop., Towanda, Kan.  
WEDNESDAY, FEBRUARY 25, 1914

20  
Registered  
Stallions

Imported and  
American Bred



"CASINO."

30 Mares  
All Registered  
and Bred

As Good a Lot As  
Will be sold in  
America This Year

Buy Where You Can Secure the  
Best, With Size and Quality

More than 2,000 Percherons have left this farm—the oldest breeding farm in the West. Stock loaded on cars free of charge. Free conveyance to and from Towanda.

DO NOT MISS THIS SALE

More mares showing heavy in foal included in this sale than in any former sale. Send for catalog to

**J. C. ROBISON**  
Towanda, Kansas

Auctioneers—J. D. Snyder, W. M. Arnold, Boyd Newcomb, W. P. Ellet.

sale. Please look up ad in this issue and write him or go see these horses. Kindly mention Kansas Farmer.

#### Duroc Sale at Burr Oak.

This week we announce a bred sow sale for Dana A. Shuck at Burr Oak, Kan. Mr. Shuck has for several years been holding Duroc Jersey sales, but this winter's offering is by far the best he has ever offered to the public. He is going to sell about 45 head, of which number 15 are tried sows selected from his bunch of great producing dams, 25 top spring gilts and five summer boars. The sows and gilts are bred for spring farrow to the herd boars, Missouri Climax and Crimmon Burr. Missouri Climax was sired by Climax 2d, grand champion boar at the American Royal for three successive years. His dam was by the great Missouri King. Crimmon Burr is a son of Pawnee Crimmon, he by Crimmon Wonder 2d. His dam was Crimmon Queen 2d, a daughter of the noted prize winning boar, Valley Chief. The gilts included in the sale are mostly daughters of the splendid breeding boar, Model Chief, by Chief Perfection, he by old Ohio Chief. His dam was a daughter of Harding's King of Colonels. The tried sows include many of the good sows that have been bought at different times out of the leading sales of this and adjoining states. The offering will be presented in nice condition and every one immune from cholera. Catalog will be sent upon request, and parties interested and unable to attend may send bids in Mr. Shuck's care to Jesse Johnson or Walter Ward.

#### Rineharts Average \$40.

A. M. Rinehart & Son, breeders of Durocs, held their annual bred sow sale at the fair grounds at Smith Center, Kan., as advertised. The offering of over 50 head of bred sows and gilts was the best that ever went through a sale ring in this part of the state. All were immune and in excellent breeding form. The average of about \$40 per head was good considering the large number sold. R. P. Wells, Jewell County's big breeder, topped the sale at \$100, buying No. 3, a wonderfully fine spring gilt sired by Rambler's Wonder and bred for spring farrow to Model Hero. Col. John Brennan was at his best, selling the offering quickly and to the satisfaction of both buyer and seller. Following is a list of buyers at \$35 and up:

1—S. C. Sasse, Athol, Kan.	\$66.00
2—T. W. Thompson, Mankato	66.00
3—R. P. Wells, Formoso	100.00
4—E. B. Shields, Lebanon	42.00
5—Mr. McClure, Smith Center	47.00
6—George Wreath, Manhattan	53.00
7—T. W. Thompson	45.00
8—P. A. Worley, Athol	36.00
9—Dana D. Shuck, Burr Oak	49.00
10—E. P. Wells	49.00
11—W. A. Alford, Smith Center	35.00
12—F. E. Housel, Smith Center	42.00
13—P. A. Worley	47.00
14—E. M. Scott, Smith Center	47.00
15—Mr. Robbins, Beloit	36.00
16—Leon Carter, Asherville	38.00
17—Frank Carson, Smith Center	40.00
18—N. B. Price, Mankato	36.00
19—A. T. Cross, Guide Rock, Neb.	41.00
20—Emma Detwiler Smith, Hollister, Idaho	40.00
21—Fear Bros., Bala	44.00
22—John Canfield, Smith Center	41.00
23—John Campbell	38.00
24—J. C. Dilsaver, Athol	38.00
25—T. W. Thompson	47.50
26—T. W. Thompson	63.00
27—T. W. Thompson	49.00
28—Frank Lasse, Athol	48.00
29—Ed Shields, Lebanon	43.00



## J. R. CLINE'S POLAND CHINA SALE

IOLA, KAN., FEB. 18, 1914

**50 - SOWS and GILTS - 50**

Bred to the following herd boars for March litters: Tecumseh Hadley 61410, Long King's Equal 2d 68928, Glasford 68796, head of my herd of big-boned Poland Chinas; Tecumseh Hadley, son of Major B. Hadley, grand champion of all breeds at the American Royal of 1911, and Perfection Tecumseh 129157, an 800-pound sow that took second; Long King's Equal 2d, son of J. B. Lawson's famous Long King's Equal 53730, and Black Beauty 2d 143094; Glasford, son of Melbourne's Jumbo 61941 and Louise Bell 144794.

The fine sows and gilts that will go in my February 18 sale will be bred to these great boars, and I don't believe there are three better ones in any man's herd. Write for catalog and come to my sale. I will guarantee a good offering and you will be pleased with them.

All my sows are of the very best blood lines, of the big, smooth, easy-feeding Polands. All well grown out and in fine condition. Come to my sale and see my hogs, whether you buy or not. Spend a day with me. Sale right in town. Remember the date is February 18th at Iola, Kansas. If you cannot come, send bids to O. W. Devine, representing Kansas Farmer, in my care and I will see that you have fair treatment.

**J. R. CLINE, Iola, Kansas**

R. L. Harriman, Auctioneer

## BIG SMOOTH POLAND CHINAS

WE WILL SELL AT

**BUTLER, MO., FEB., 19, 1914**

**50—HEAD OF BRED SOWS AND GILTS—50**

They are bred to our two herd boars, Missouri Wonder 55408 and Big Look 63604. A number of the sows are by King Ex. 3d and the Big Hadley breeding.

This offering is above the average, and you won't be disappointed if you come. Sale right in town. Send bids to either auctioneer or field men. Catalogs are ready. Send for one today.

**W. A. BAKER & SON, Butler, Mo.**

Auctioneers—C. F. Beard, Clyde Robbins.

W. Z. Baker Sells at Rich Hill, Mo., February 18, 1914.

## PORTERFIELD'S DUROC SALE

**At JAMESPORT, MO.  
FEBRUARY, 12, '14**

Fifty head of tried sows, fall yearlings and spring gilts, sired by such boars as Crimson Royal 2d, Col. Model Top, King of Cols. I Am, and King of Cols. 2d, and out of Crimson Wonder and Ohio Chief dams. They are bred to such boars as Top Inventor, Col. Model Top, and King of Cols. I Am.

Breeders and farmers will find this a strictly high-class offering. Bids sent to fieldmen or auctioneers in my care will receive fair treatment. Send card for catalog at once. They are now ready.

**JOHN A. PORTERFIELD, JAMESPORT, MISSOURI**

AUCTIONEERS—COL. JACK WELLS, COL. T. E. DEEM.  
W. J. Cody, Fieldman for Kansas Farmer.

## BRED SOW SALE

**BURLINGTON, KANSAS  
TUES, FEB., 17, 1914**

**30 HEAD BRED SOWS AND GILTS 30**

**Ten Fall Boars all  
Large Type Polands**

A number of the sows are sired by Master Hadley 2d and bred to a son of Big Orange. A few gilts by a son of Expansion Wonder will be bred to Master Hadley 2d, a good son of Big Hadley. A number of the sows have raised litters and have proven good producers. I am selling some of my best sows bred to good boars. All big-type breeding. Sale will be held right in town, in comfortable building. Please send for a catalog and come to my sale. This is my first sale and I guarantee a good clean offering of brood sows that will make money. If you can not attend, send bids to O. W. Devine, representing Kansas Farmer, who will buy for you. Write today for catalog.

**E. M. Wayde, Burlington, Kan.**

MENTION KANSAS FARMER WHEN YOU WRITE.

## 45 Immune Duroc Jersey Bred Sows

**BURR OAK, KANSAS  
Saturday, February, 21, 1914**

**15 - Tried Sows - 15  
25 - Spring Gilts - 25  
5 - Summer Boars - 5**

**Females All Bred for Spring Farrow to the Herd Boars,  
Missouri Climax and Crimson Burr.**

The spring gilts were about all sired by Model Chief, a grandson of old Ohio Chief, and Harding's King of Cols.

Tried sows include some of the best sows I ever owned. A splendid selection of richly-bred individuals, the big, useful and quick-maturing kind.

The summer boars are tops and richly bred.

Write for catalog giving complete descriptions. If you can't attend, send sealed bids to Jesse Johnson or Walter Ward in my care, Burr Oak, Kansas.

**DANA D. SHUCK  
Burr Oak, Kansas**

Auctioneers—John Brennan, N. B. Price.



## JACKSON COUNTY BREEDERS' ASSOCIATION

MOST PROGRESSIVE BREEDERS OF JACKSON COUNTY UNDER THIS HEAD



Bruce Saunders  
President



Devere Rafter  
Secretary

### SHORTHORNS.

**Oak Grove** Shorthorns headed by the great bull "White Starlight" by Searchlight. Dam by Choice Goods. Every cow in herd straight Scotch. **ROBT. SCHULZ**, Holton, Kansas.

### ABERDEEN ANGUS.

**"BLACK DUSTER"** heads our herd, mated with as richly bred cows as can be found. Choice cows with calves at foot, and re-bred. Also young bulls. Berkshires. **George McAdam**, Holton, Kan.

### POLLED DURHAMS.

**"TRUE SULTAN"** heads herd. Shown at 9 leading fairs last year, winning 9 firsts and 8 junior championships. We are mating him with cows of equal breeding and merit. **Ed. Steglin**, Straight Creek, Kan.

### HERFORDS.

**HEREFORD BULLS.** Choice, richly bred individuals, ready for service. Also Durc Jersey gilts bred for spring farrow. Percherons for inspection. **M. E. GIDEON**, Emmett, Kansas.

### HOLSTEINS.

**SHADY GROVE HERD.** For immediate sale, four choice young bulls of excellent breeding and out of high record dams. Also three-year-old herd bull. Inspection invited. **G. F. MITCHELL**, Holton, Kan.

**SEGRIST & STEPHENSON.** Breeders of registered working high testing Holsteins. Choice young bulls out of record cows for sale. Farm adjoins town. **Holton, Kan.**

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**HARTER OFFERS POLAND BOARS**

No fall sale. Twenty choice spring boars, tops of 35, best of breeding, \$20 each. Also five fall boars, good ones, \$25 each. Nothing but the best shipped.

J. H. HARTER, Westmoreland, Kan.

**BIG POLAND CHINA SPRING PIGS**

Sired by Peter Mouw boars. Here is where you can get big-type pigs at a low price. Never before was there such a bargain offered. Write me your wants. Ben Redemacher, Box 13, Mulberry Grove, Illinois.

**CLOSING OUT BIG POLANDS.**

Herd boar Melbourne Jumbo, two tried sows daughters of Gold Metal, two July gilts by herd boar, and 20 choice fall pigs. Low prices for quick sale.

R. B. DAVIS, Hiawatha, Kansas.

**POLAND CHINA BRED SOWS**

For sale, bred to a good son of Big Ben. The sows are granddaughters of Gold Metal and other big boars. Also select fall boars.

AUSTIN SMITH, Dwight, Kansas.

**BIG TYPE POLAND CHINA GILTS.**  
Fall yearlings and tried sows, bred to "Mollie's Jumbo," 74 in. long, 36 in. high and has 10-in. bone. Gilts \$20 and up; fall gilts and tried sows \$30 each. They are out of big dams. V. E. Carlson, Formoso, (Jewell Co.) Kansas.

**BOARS READY FOR SERVICE.**

Five-months-old big-type Polands, sired by Blue Valley Look, out of big sows. Low prices for quick sale. Write me.

C. F. Behrent, Oronoque, Norton Co., Kan.

**TWENTY IMMUNE BRED GILTS.**

Big-type Polands, bred to A. Big Orange Again. Extra good individuals, \$25 and \$30 each. Twenty choice fall pigs by same boar. Reasonable prices.

HUBERT J. GRIFFITHS, Clay Center, Kan.

**FOLEY'S BIG POLAND GILTS**  
FOR SALE, bred to my great young boar, The Giant. Also one extra choice spring boar and fall boars ready to ship.

J. F. FOLEY, Oronoque, Norton Co., Kansas.

**POLAND CHINA BRED GILTS**

Sired by First Quality and bred to our great new boar, Longfellow Again. Fine individuals. Also fall pigs, either sex.

JAS. ARKELL, Junction City, Kansas.

**Merten's Big Smooth Poland Chinas**  
Headed by King Hadley 3d and Kansas Wonder, mated with daughters of Old Expansion. What's Ex. and Grand Look Jr. Stock for sale.

E. E. MERTEN, Clay Center, Kansas.

**BRED SOWS FOR SALE.**

I will sell a few choice Poland China brood sows, sired by Missouri Governor and bred to a son of Kansas Hadley by Big Hadley. A few extra good spring boars for sale. Write me.

L. B. WILEY, Sr., Elmdale, Kan.

**Faulkner's Famous SPOTTED POLANDS.**

We are not the originator, but the preserver of the Old Original Big-Boned Spotted Polands. Write your wants. Address

H. L. FAULKNER, Box K, Jamesport, Mo.

**FIFTY IMMUNE POLAND FALL PIGS**  
Extra choice, either sex, sired by the great King of Kansas, and out of mighty big sows. Attractive prices.

J. L. GRIFFITHS, Riley, Kansas.

**PECKHAM'S IMMUNE BIG POLANDS.**

Six fall and spring boars; 25 tried sows; fall yearlings and spring gilts. Big and smooth. Want to sell half of them. Take your choice. All tried sows bred to the great "Blue Valley Gold Dust" gilts sired by him. Inspection invited.

R. J. PECKHAM, Pawnee City, Nebraska.

**WONDER POLAND CHINA HERD**

Headed by Model Wonder, assisted by a son of Blue Valley. Mated to as big sows as can be found. We offer spring gilts by first named boar and bred to the other one at reasonable prices.

O. R. STRAUSS, Milford, Kan.

**CLARK'S EXTRA BIG SMOOTH POLANDS.**

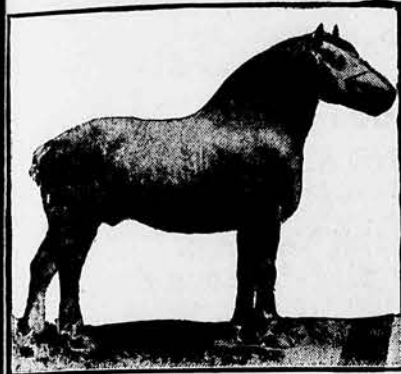
Choice spring boars for sale by a grandson of the noted A. Wonder. Also bred gilts and fall pigs.

L. L. CLARK, Meriden, Kansas.



## HORSES AND MULES

## IMPORTED MARES AND STALLIONS



Importation arrived October 1, 1913. I have personally selected the best young stallions and mares I could buy in France and Belgium, two and three years old. They all have good breeding quality, sound and good colors, and will make ton horses. Every horse absolutely guaranteed. If you are looking for a first-class stallion or a good pair of mares, come and see me. I mean business. My barns three blocks from Santa Fe depot.

**W. H. RICHARDS**  
Emporia, Kansas

## PERCHERONS SHIRES BELGIANS

We now have in our barns a new importation of extra big high-class stallions. We are pricing these horses very reasonably and also have a few first-class home-bred stallions which we will sell at from \$200 to \$600.

It will pay you to come to Lincoln and see these horses or send for our free catalog.

**Watson, Woods Bros., & Kelly Co.**

Box 29 LINCOLN, NEB.

## LOCUST BLUFF STOCK FARM

Jacks, Jennets, Herefords and Holsteins. Twelve fine Missouri-bred jacks for sale, sired by Nene Such, the best son of King of Giants. Also extra fine Holstein bull and one extra Hereford bull ready for service. We also have younger bulls. We are breeders, not speculators. All stock guaranteed as represented.

**JOHN G. THOMAS & SON, Harris, Mo.**

**OSAGE VALLEY JACK FARM.** Sixteen jacks, from 4 months to 3 years old. Yearlings up to 15 hands, standard. One jack just turned 3 years old, weight 1,050. Forty Jennets in herd, second to none, some for sale. Twenty years a breeder.

**W. D. GOTT, Xenia, Bourbon County, Kan.**

**JACKS AND JENNETS.** Eighty large-boned black mammoth jacks, 15 to 16 hands standard, guaranteed and priced to sell. The kind all are looking for. Also good young Percheron stallions. Reference, banks of Lawrence. Forty miles west of Kansas City, on Santa Fe and U. P. Railroads.

**AL E. SMITH, Lawrence, Kansas.**

**JACKS AND JENNETS** 20 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned, broken to mares and prompt servers. A few good Jennets for sale. Come and see me.

**PHIL WALKER, Moline, Elk Co., Kansas.**

**JACKS** Five and six years old, 15, 16 and 16 1/2 hands, weigh up to 1,200. \$1,000 each, no trades. Also Durocs. Owner of grand champion sow, Model Queen. Stock for sale.

**LOUIS KOENIG, Solomon, Kan.**

**20 PERCHERONS, JACKS AND JENNETS.** Imported black Percheron stallions, 5 to 7 years old, strong bred in the brilliant strain, weights from 1,700 to a ton, well broken. Black registered mammoth jacks and Jennets, 15 to 16 hands, 1 to 5 years old; jacks old enough, well broken.

Farm 30 miles northwest of Hutchinson. Meet trains at Raymond or Chase, Santa Fe Railroad.

**J. P. & M. H. MALONE, Chase, Kansas.**

**Kentucky Jack and Percheron Farms.** Big-bone Kentucky mammoth jacks; Percheron stallions, mares, saddlers. Special prices in half car or carload lots. Write for catalog. Cook & Brown, Lexington, Ky.

**FOR SALE** Three big black jacks, guaranteed, and a well improved farm of 230 acres; best of soil, bluegrass, alfalfa abounds; finely located home. Stock must go. No trade. Write. Better come and see if you mean business.

**CLEM L. SMITH, Lawson, Mo.**

## HORSES AND MULES.



## DIAMONDS IN THE ROUGH

I am offering for sale at very low prices a fine lot of young Percheron, Belgian, French Draft and Coach Stallions and mares. These horses are not fat, but in good, thrifty condition and will make good. Come and see me.

**J. M. NOLAN, Paola, Kansas.**

## IMPORTED STALLIONS

Percheron and Belgian, also Percheron and Belgian mares, and a few registered jacks. These horses were prize winners at Topeka, Hutchinson, and American Royal, including grand champion and reserve champion at each show, winning 28 first and champion ribbons, three gold medals and two silver medals. These prize winners and others for sale and can be seen at my farm 7 miles northwest of Alma. Reference, any bank in Alma or Wamego.

**LEW JONES, R. R. No. 1, Alma, Kansas.**

## SEVEN SHIRE AND PERCHERON

STALLIONS Imported. Prices, \$250 to \$650. Farm 4 1/2 miles from Wakefield. Will meet trains if notified in time.

**JAMES AULD, Wakefield, Clay Co., Kan.**

## POLLED DURHAM CATTLE

## ROAN HERO 3613 - 229963

THE INTERNATIONAL CHAMPION, AND ACACIA PRINCE X 8079-308159

The grand champion at Topeka, 1913, head of herd of double-standard Polled Durhams. Young bulls, cows and heifers for sale. Missouri Pacific R. R., 17 miles southeast of Topeka, Kan. Farm adjoins town. Inspection invited.

**D. C. VAN NICE, Richland, Kansas.**

## POLLED DURHAMS FOR SALE

TEN HERD BULLS sired by Roan Choice, the junior champion of 1911. Prices reasonable. Come and see my herd.

**C. J. WOODS, CHILES, KAN.**

## Scottish Baron For Sale

Double standard, weight 2,200; extra individual. Also 12 Shorthorn cows in calf to him, and younger bulls. Inspection invited.

**JOSEPH BAXTER, Clay Center, Kansas.**

## AUCTIONEERS.

## Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the Actual Practice School, which opens January 6, 1914.

**MISSOURI AUCTION SCHOOL** Largest in the World. W. B. Carpenter, Pres., 1400-1404 Grand Ave., Kansas City, Mo.

**Col. Jas. T. McCulloch** Live Stock and General Auctioneer. Ten years of study and practice selling for some of the best breeders.

**R. L. HARRIMAN** LIVE STOCK AUCTIONEER Bunceton, Missouri.

**LAFE BURGER** LIVE STOCK AND REAL ESTATE AUCTIONEER

Wellington - Kansas.

**W. C. CURPHEY** Pure-Bred Stock and Big Farm Sales. Salina, Kansas.

**Col. N. E. Leonard** Live Stock and General Auctioneer. Use up-to-date methods. Pawnee City, Nebraska.

**COL. FLOYD CONDRAY** Stockdale, Kansas. Guarantees his work.

**Col. Frank Regan** Live Stock and General Auctioneer. Esbon, Jewell County, Kansas.

**Col. C. A. HAWK** Live Stock and General Auctioneer. Effingham, Kansas.

**L.R. BRADY** Fine Stock Auctioneer. Ask those for whom I have sold. Manhattan, Kansas.

**Col. Jesse Howell** Live Stock and General Auctioneer. Up-to-date methods. Herkimer, Kan.

## HAMPSHIRE HOGS

## HIGH QUALITY HAMPSHIRE.



Have a few choice bred gilts, extra fine, also some June and July boars of good quality and best of breeding. Prices reasonable. Satisfaction guaranteed.

**S. E. SMITH, Lyons, Kan., R. F. D. 5, Box 18.**



**ECLIPSE FARM HAMPSHIRE.** Bred sows, spring and summer pigs for sale. A. M. BEAR, Medora, Kansas.



**HAMPSHIRE HOGS.** Bred sows, spring pigs, pairs or trios not akin. Pat Malloy and General Allen blood lines. Prices reasonable. F. C. Wittorf, Medora, Kan.

## FIELD NOTES

**Dodson Poland Chinas.** Walter Dodson, Poland China breeder of Denison, Jackson County, Kansas, offers his herd of Poland Chinas at a bargain. He is a grandson of the great boar, Colossus, and a tried sire that has made good in the Dodson herd. Mr. Dodson also has Partridge Wyandottes for sale.

The J. I. Case Threshing Machine Co., of Racine, Wis., have issued their new 1914 catalog on threshing machinery. The book has a beautiful colored cover with 88 pages brim full of interesting information and photographs on all phases and uses of threshing machinery. The Case Company will send this book to those interested who write them at the above address, mentioning Kansas Farmer.

## How You Lose by Saving.

You lose at least \$3 in egg production every time you try to set a dozen hens instead of hatching those eggs in an incubator. The average hen under ordinary good management should produce 16 eggs in the 21 days of the hatching period. Thus, 12 hens should produce 192 eggs, which, at 20 cents a dozen, are worth \$3.00. Then hens will not lay while they are setting, of course, and yet the egg production is one of the most profitable divisions of poultry raising. The hens will have to run around and mother their chickens for a month more, which would run the cost even higher than \$3 when eggs are priced at the very conservative estimate of 20 cents a dozen. The above is one of the comparisons brought out by a writer in a booklet, "Turning Eggs Into Dollars," issued by the Rayo Incubator Co., 1019 So. Thirteenth Street, Omaha, Neb. This booklet also tells how the Rayo incubators will do the same work as the 12 hens at a cost of one gallon of oil, and thus save that \$3 worth of eggs. The booklet and sample of the only hatching chart in the world will be sent postpaid upon request to all who ask for it.

## Seeds Twice Tested for Truthness to Type.

A well known seed grower is making an exceptional offer of flower and vegetable seeds which should be taken immediate advantage of by all who wish fine, big garden crops, and large, beautiful flowers. This offer is for six packages of quick-growing vegetable seeds and six packages of rare, radiant flower seeds for 20 cents, or six packages of vegetable seeds or flower seeds for 10 cents. In this vegetable selection there are offered one package each of Earliest Cabbage, Shorthorn Carrot, Early Market Cucumber, Prize Head Lettuce, Mixed Onion and Flashlight Radish. The flower selection consists of one package each of Radiant Sweet Peas, Elegant Asters, Gorgeous Eschscholtzias, Blue Cornflower, Brilliant Poppies, Sunny Cosmos. And all these will be sent upon the receipt of 20 cents. Seldom is such a generous opportunity offered to our readers. A catalog fully illustrating and explaining these and many other seeds will be sent free of charge if you write Salzer, 226 S. Eighth St., La Crosse, Wis.

## Getting Plenty of Eggs During Winter.

That's the problem that faces every poultry raiser—hens have a knack of taking it easy during the winter when egg prices are away up. Dr. Gilbert Hess says he has solved the problem—he makes his biggest profits from his hens during the winter because he sees to it that the egg supply is plentiful. The doctor states that hens, being cooped up, deprived of exercise and the lack of green stuff, will not lay in the winter. The egg organs become dormant—inactive—and the hen consequently puts on fat instead of turning her feed into eggs. Being a poultry raiser of considerable success, Dr. Hess himself delved into the winter egg question many years ago. He was a veterinary scientist and a doctor of medicines also, and therefore was fully capable of finding where the trouble was and applying the remedy. He compounded a number of potent tonics and well known correctives, proceeding on the idea that hens must have a tonic during the winter to tone up and invigorate the dormant egg organs and keep them healthy. His preparation is known as Dr. Hess' Poultry Pan-a-ce-a and is sold by over 28,000 dealers throughout the United States. Dr. Hess stands behind his Pan-a-ce-a with the most liberal guarantee we ever heard of. His message to you states that his dealer in your town will supply you with enough Pan-a-ce-a for your whole flock, and if it does not make them lay and keep them in healthy condition, he has authorized that dealer to refund your money.

## Steadiness of Market for Poultry.

Most always a farmer figures on feeding his corn crop to his hogs or cattle, and therefore, amounts to about the same thing as selling his corn crop as fat cattle or fat hogs. This is a condensed method that means at best a small per cent of profit. It is different with poultry. The amount of grain in proportion to the weight of the fowl is insignificant. To take it a ten-year stretch, a pound of beef or pork costs twice as much as a pound of chicken meat, yet on the market a pound of chicken brings as much as two pounds of beef, besides the egg production. And then the sides, pork, beef, etc., are implements of speculation and combine and go up and down accordingly. It is not a question of drawing on imagination to settle the question of poultry profit. I have dealt in clear facts that are known to every one who stops to think a minute. Besides the lack of risk, there is more profit in poultry. The fellow that gets a big bunch of cattle loses all on a corn crop. If it partly fails he loses all that he has made for two or three years back by having to buy at advanced prices to finish his hogs or cattle. It would scare many people stiff if they had to buy feed in order to finish a bunch of poultry. There is, however, a large packing house at Topeka, Kan., that has a capacity to feed 100,000 chickens at one time. They are making a specialty of eggs, butter and poultry, and they are growing wealthy. They feed chickens 14 days. They would rather fatten themselves than to have the raiser fatten them. They can do it and save money, but let me know when you can sell cattle or hogs that way and finish them as quickly. Our incubators are pretty evenly distributed over the map of the United States. Comparing them with the population I find the ratio quite uniform. With that out doubt it is the only farm industry that adapts itself to every locality and climate. It flourishes from Canada to the orange groves of Florida and in foreign countries. Mrs. S. E. Mansell, Sydney, Fla., says, "I followed your instructions and advice closely and I have made good on the poultry question." Mr. H. C. Hopkins, Luthrop, Mont., says, "I purchased an Old Thrush last January (his letter is dated January 13, 1913) and gave it a fair test and it proved to be the best incubator in the neighborhood. With eggs bought from the stores and neighborhood we made hatches from 75 to 90 per cent, while the other machines hatched from 30 to 50 per cent." Mr. William G. DeVoe,

## HEREFORD CATTLE

## Star Breeding Farm

## HEREFORD CATTLE DUROC JERSEY HOGS

## FOR SALE.

20 TWO-YEAR-OLD BULLS  
55 COMING TWO-YEAR-OLD BULLS  
20 BIG STRONG YEARLING BULLS

All registered and sired by high-class herd bulls. A carload of cows and heifers with calves at foot or bred to drop calves early in the spring. Prices reasonable. Write, or come and see me.

**Sam Drybread, Elk City, Kan.**

## LANDER'S

## Brookside Herefords

Herd headed by Gay Lad 14th by the champion Gay Lad 6th and out of Princess 16th. Six yearling bulls and ten bull calves for sale, also seven yearling heifers, the best of breeding and choice individuals. Prices reasonable. Write or call.

**WARREN LANDERS, Savannah, Missouri.**

## BERKSHIRE HOGS

## BERKSHIRE PIGS

Choice pigs, 10 to 16 weeks old, either sex. Sired by Robin Hood, Premier 2d, or Adam, a son of Rival's Lord Premier. Nothing but the very choicest specimens shipped. Price, registered, crated, F. O. B. here, one, \$20; two, \$35; three, \$50.

**W. J. GRIST, Ozawie, Kan.**

## 40—BERKSHIRE BOARS—40

Cholera Proof (Hyper-Immuneized) Big and growthy. Ready for service. Prices, \$25 to \$50.

**SUTTON FARMS, Lawrence, Kansas.**

## OHIO IMPROVED CHESTERS

## Crystal Herd O. I. C's

Headed by Frost's Buster 29745 by Thea 30442. A few choice boars by this great sire, \$25 while they last. Will weigh 225 pounds and up. Bred gilts, March farrow, \$35 to \$50. Gilts bred to Frost's Buster, Expectation, and Illustration. They are the kind that win the ribbons.

**DAN WILCOX, Cameron, Mo.**

## WOLFE'S O. I. C. SWINE.

Large, prolific kind. March and April boars. Gilts bred or open. Fall pigs. Prices low. Pedigrees free. Write your wants.

**D. W. WOLFE, Route 2, Carrollton, Mo.**

## O. I. C. SWINE Harry W. Haynes, Meriden, Kansas.

Little Bras D'or Bridge, Cape Breton Island, N. S., expresses surprise that he got a nice bunch of lively chicks from eggs here and there that he says were stone cold, and the spring, all through, was extremely cold. It is merely a question of a good incubator. A good incubator is needed in a mild climate as well as in a cold one, though a poor machine, during steady weather and in a mild climate, will make some fairly good hatches. Think of this and think of what would happen if the weather took a sudden turn. It has always struck me that an average hatch was the real thing to look at—not in the class of accidental good hatches in warm climates. I want to average them all, beginners and experts. That way we get close to what you do on your own account, and not what would be possible if you were somewhere else. Again I say, poultry raising is a business for any climate. Don't let your location bother you. All locations, all climates, all weathers are alike to the Old Trusty.

## Young Percherons for Sale.

Bruce Saunders, proprietor of the Banner Stock Farm, Holton, Kan., and owner of the great prize winning stallion, Incus, offers a couple of very choice young stallions and one two-year-old filly. This stock is first-class and will be priced reasonably. Mr. Saunders also offers some choice jacks.

## Black Langshans.

George M. Klusmire, our Jackson County Black Langshan specialist, offers eggs from two pens, also from his big flock of farm range birds. Mr. Klusmire has high scoring birds and has won the lion's share of premiums at leading shows the past few years. He has won in big shows over imported birds. There are over 150 hens on the place, so there are plenty of eggs. It will be well, however, to get your order in early.

## Jerseys Change Hands.

A. L. Wyle, of Clay Center, Kan., has bought the Nordstrom interest in the Golden Rule Jersey herd located at that place. Mr. Wyle's farm is just outside of the city limits. He will engage in the dairy business quite extensively. Complete records will be kept and one of the best herds in the state maintained. The herd consists of the herd bull, Cicero's Rochette Noble, and a half dozen select cows, all the rest having been sold at auction last fall. Cicero's Rochette Noble is one of the richest bred bulls anywhere in the West. His sire and dam were both imported, and he is closely related to some of the most noted show animals on the Island. Parties interested in Jerseys are invited to visit this herd at any time.

## Amcoats Shorthorns.

S. B. Amcoats, a regular advertiser in Kansas Farmer, has some of the best bulls for sale that he has ever offered to the buying public. Most of them are of serviceable age and all are either pure Scotch or have a number of Scotch tops. Five or six of them range in age from eight to sixteen months. They are in good breeding form and are the low blocky sort. Mr. Amcoats is all sold out on spring boars, but has some choice fall boars and gilts for sale. Write him about this stock.



## 150 BIG TYPE POLAND CHINA SOWS ALL IN RILEY COUNTY, KANSAS

### KLEIN'S ANNUAL POLAND CHINA BRED SOW SALE

At Farm Near Zeandale and St. George  
Kansas, Tuesday, February 17, 1914

**45 - HEAD IN ALL - 45**

This Is My Best Sale Offering.

**25 Fall Yearlings, 5 Tried Sows  
and 15 Spring Gilts**

The offering was sired largely by my 800-pound boar, Chief Price.  
Bred for spring farrow to three different boars—Black Jack by Mogul's  
Monarch, Bell Metal Again, and Chief Price.

Strictly big-type and good individuality. The blood of Expansion, Prince  
You Tell, Mogul's Monarch, and other noted sires. All gilts out of mature  
dams. Write for catalog. Stop at St. George and Zeandale, Kansas, hotels.  
Trains met at both places.

**L. E. KLEIN, ZEANDALE, KAN.**  
Auctioneers—Jas. T. McCulloch, Floyd Condray.

### GRIFFITH'S IMMUNE POLAND CHINA BRED SOW SALE

AT RILEY, KANSAS, FEBRUARY 19, 1914

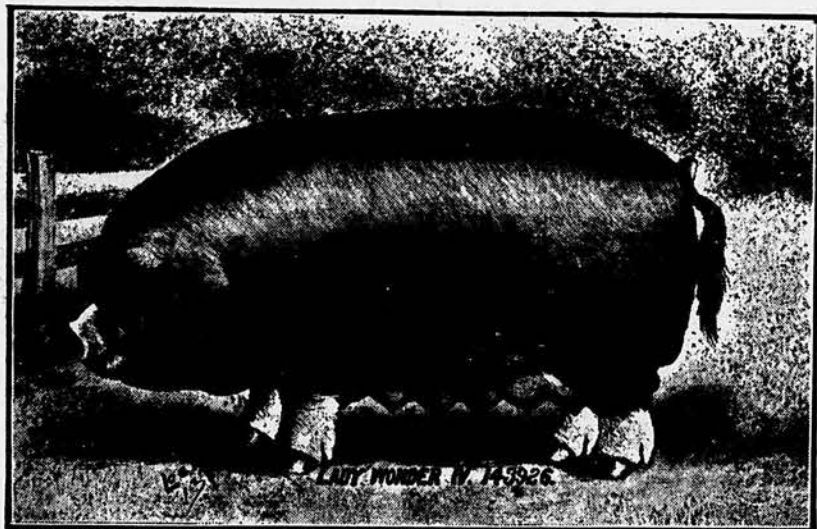
**45 Head The Kind I Have Sold at Former Sales, and Immune as Usual. 45 Head**

Uniform and well grown out, and combining the blood of famous big  
hogs. Gilts are of January, February and March farrow.

Four extra choice Boars, sired by King of Kansas.

Two Gilts sired by A Wonder's Jumbo; four by Long King's Best. Others  
equally as good, sired by Big Bone Pete.

Eight Tried Sows, sired by Mastodon's Best, the great Colossus, and Big  
Bone Pete, and all related to the noted Wonder 700-pound sows.



Four Daughters of This Great Sow and Her Full Sister Go in the Sale.

All tried sows and a part of the gilts are bred to my great young boar,  
King of Kansas, a son of Long King's Equal and out of a dam by A Wonder.  
Others to A Jumbo Wonder, a grandson of A Wonder and Long King's Equal.  
Write early for catalog. Parties attending sale stop at Riley and Leonard-  
ville, Kansas, hotels.

**J. L. GRIFFITHS, RILEY, KANSAS**  
Auctioneers—Jas. T. McCulloch, Floyd Condray.

### HARTER'S BIG POLAND SOWS

Sale at College Pavilion

**Manhattan, Kan., Wed. Feb., 18**

**40—HEAD OF THE HARTER KIND AT AUCTION—40**

Everything Bred for Spring Farrow to My Boars, Long King, Gephert, and  
Harter's Long King.

**Eighteen Tried Sows and Fall Yearlings.**

**Twenty-two Spring Gilts, Mostly Sired by Long King.**



Twelve of the best Fall Gilts and Tried Sows are by Mogul's Monarch.  
This is the last chance to buy his daughters, as he is dead.

This offering, taken as a whole, is a particularly uniform and useful one.  
A large per cent of the fall gilts and tried sows and a part of the spring gilts  
were sired by the great boar, Mogul's Monarch, and bred to Long King and  
Gephert, a pair of extra heavy-boned and well-fleshed sires, both of strong  
big-type breeding. My catalog gives all necessary information. Write for it  
and be my guest sale day, either as a buyer or spectator.

**J. H. HARTER -:- WESTMORELAND, KANSAS.**  
Auctioneers—L. R. Brady, Jas. T. McCulloch, W. C. Curphey, Jesse Howell.

### SWINGLE'S BIG IOWA IMMUNE

### BRED SOWS AT AUCTION

**Leonardville, Kansas  
Friday, February, 20**

**32—HEAD OF STRICTLY TOPS, ALL IMMUNE—32**  
**Three Tried Sows**

Daughters of Chief Price Again, Big Bone Pete, and Commander.

**Nine Big Fall Yearlings**

Sired by Big Orange Again and Gritter's Surprise by Long Surprise.

**Twenty Select Spring Gilts**

Sired by the boars, Big Orange Again and Gritter's Surprise. They trace to  
and are mostly granddaughters of Chief Price Again, Big Chief, Jumbo  
Wonder, A Wonder, and Big Orange.

The Gilt division of this sale is especially attractive. I don't think there  
will be a better lot sold this season for both size and quality. Everything  
bred—the fall gilts and tried sows to the boars already mentioned, and the  
spring gilts to my young herd boars, Miller's Sioux Chief 1st and Miller's  
Sioux Chief 2d. Litter brothers sired by the great Sioux Chief and out of  
the noted sow, Lady Longfellow.

**Catalog upon request. Parties attending sale stop at the  
Swingle House.**

**A. J. SWINGLE, LEONARDVILLE, KAN.**  
Auctioneer—Jas. T. McCulloch.

**JESSE JOHNSON will attend all four sales, send him bids in care of party making sale**



## C. S. NEVIUS & SONS' ANNUAL SALE OF SHORTHORNS

Tenth Event at Glenwood Farm  
MONDAY, FEB. 16, CHILES, KAN.



DOUBTLESS THE GREATEST SHOW AND BREEDING BULL EVER OFFERED AT AUCTION IN RECENT YEARS IN THE WEST, AS SHOWN BY HIS SHOW RECORD AND HIS GET.

Representing Prince Pavonia 207316, Searchlight 292031, Searchlight Jr. 337153, and Prince Valentine 4th 342179. All of best Scotch breeding. Bulls to head the best herds, breeding cows for the best herds, show cattle to please the best. In fact this lot is bred right and grown right to fit into any herd in which they may go. Ten bulls from 12 to 18 months old, of best Scotch breeding. Fifteen cows, mostly with calves at foot. These cows are of our best breeding cows that have produced high-class bulls or heifers. Twenty yearling and two-year-old heifers out of these cows, and others as good. Sale at farm in heated sale barn.

**C. S. Nevius & Sons, Chiles, Kan.**

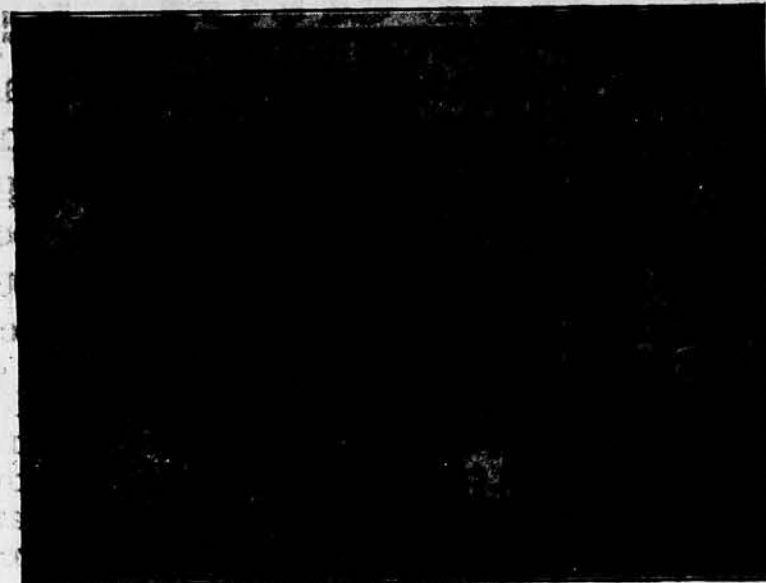
AUCTIONEERS

Col. R. L. Harriman, Bunce, Mo.; Col. John D. Snyder, Hutchinson, Kan.  
NOTE THE HOG SALE THE 17TH.

## BRED SOW SALE

February, 17, 1914

50 Head - Bred Sows - 50 Head



ONE OF THE NEVIUS KIND.

And all sired by or bred to the following herd bears: Designer, Major Look, Good Metal, and C. S. Equal by Long King's Equal. Sows are bred for March and April litters and are now showing to be in pig.

Catalogs are ready to mail out. Send for one today and arrange to attend my sale. If you cannot come, send a bid to O. W. Devine, representing Kansas Farmer, who will buy for you. AUCTIONEER, R. L. HARRIMAN.

**C. S. Nevius & Sons, Chiles, Kans.**

## PRIZE WINNING BLOOD

AT PUBLIC AUCTION

THURSDAY, FEB. 19, 1914

RICH HILL, MISSOURI

55 - Big Boned Poland China Sows - 55

It is not my desire to boast of what we have done in the show ring nor what we intend doing; but to fit and finish the heaviest and largest herd of State Fair and American Royal class herd champions and grand champions of 1913 is by no means an easy job. It is an honor that I never hoped to attain when I started into business a few years ago, but after all, the rounds to the top of the ladder were not so difficult to climb, especially when I once got into the family of State Fair Champions. I cannot exactly claim all of this honor, for as I look at the show record I find the breeding I have been doing this for many years, and as "like begets like" and blood will tell, etc., I should not have been surprised when I came home with a few less than 100 prizes in the fall campaign down through the State Fair circuit.

EVERY HOG IN MY HERD IS IMMUNE.

In looking over the pedigree and the history of King Hadley, my herd hog and greatest State Fair champion of 1913, I see his old sire, Big Hadley, has sired more winners than any one Poland China boar. Not only was Big Hadley a corking show hog, but for twenty generations with a few exceptions they have been prize winners.

King Hadley, like his sire, has been for two years siring State Fair and American winners. Notice what he and his three litter sisters did this fall in the shows, winning herds, class and championships and grand championships in all of the shows.

King John 64099 won in the senior yearling class more prizes in 1913 at the State Fairs and American Royal, but was hardly able to beat King Hadley in the sweepstakes and grand championship, but he was among the last with the judges to leave the show ring each time, and once or twice I really felt as if he would win the laurels from the King.

The third male that these sows are bred to is King Blain, Jr. While we did not fit this great hog for the show, he is not without honor, as he sired my class and herd sows that were so successful in winning under one year, and he has for his sire King Blain. Every breeder in Kansas and Missouri knows all about King Blain.

My sows that I am offering in this sale are all bred to these three males, and I invite the closest inspection to their breeding and show records. Compare them with the best and see how they score for blood.

My catalog is tabulated and you are welcome to one. Drop me a card with your name and address on it and I will mail one to you.

If you can't come and you want to get in line and get prize-winning blood, send your order to O. W. Devine, representing Kansas Farmer, who will buy for you.

**W. Z. BAKER, Rich Hill, Mo.**

AUCTIONEERS—Beard, Sparks and Robbins.

RICH HILL, MISSOURI.

## JOSEPH L. DVORAK'S PUBLIC SALE

Tuesday, February, 17, 1914

AT MY FARM NEAR

MARION, KANSAS



GALLANT, IMPORTED PERCHERON AT HEAD OF LINE, GOES IN SALE. THIS HORSE WAS FIRST PRIZE WINNER AT MICHIGAN STATE FAIR.

Seven imported Percheron mares, 3 to 8 years old; two imported stallions, 5 to 7 years old; two home-bred stallions, 2 and 3 years old; two mare colts; one home-bred stallion, 5 years old; one home-bred stallion 3 years old; two home-bred stallions, 2 years old; one home-bred stallion, 1 year old; four stud colts.

All my horses are extra good and are regular producers, guaranteed to be breeders.

Forty head of registered Poland China hogs, bred sows and gilts, the big medium kind.

Thirty head of cattle, cows and heifers.

Write me for further information, but come to my sale. There will be some bargains for you.

**Joseph L. Dvorak, Marion, Kansas**

COL. LAFE BURGER, AUCTIONEER.



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