KANSAS FARMER

For the improvement

of the Farm and Home

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Established 1863. \$1 a Year



A Portion of the Kansas Agricultural College Poultry Plant is Here Shown. Valuable Work in Poultry Production is Being Done by This Institution

A Bigger and Better Cream

Separator for the Same Money



HE FARMER who buys a De Laval this year will get bigger and better value for his money than ever before.

Not only will he get a better machine, a simpler machine, a machine that will skim even closer

than any previous De Laval, but he will get a machine of larger capacity.

And the price has not been increased one cent.

Just think what that means to cow owners in the face of rising prices on almost everything else the farmer has to buy, including other cream separators.

Only the tremendous volume of De Laval sales makes it possible to give the farmer more for his money when others are giving less.

The NEW De Laval is the culmination of nearly forty years of experience and development by the largest and oldest cream separator concern in the world. It represents

The greatest improvement in separator construction in the last thirty years

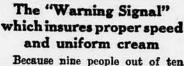
If you are trying to get along without a cream separator, or with a half-worn-out or unreliable machine, why not get a NEW De Laval NOW and stop your cream waste? You don't need to count the cost, because the De Laval will soon pay for itself.

There is a De Laval agent near you who will be glad to explain all the improvements and advantages of the NEW De Laval, and who will set and start a machine for you on your farm and let you try it for yourself.

If you haven't the spare cash right now, that need not stand in the way of your having the use of a NEW De Laval the rest of the winter. We have an arrangement with De Laval agents which makes it possible for any reputable farmer to secure a De Laval on the partial payment plan—a small payment at the time of purchase and the balance in several installments—so that your De Laval will actually pay for itself while you are using it and getting the benefit from it.

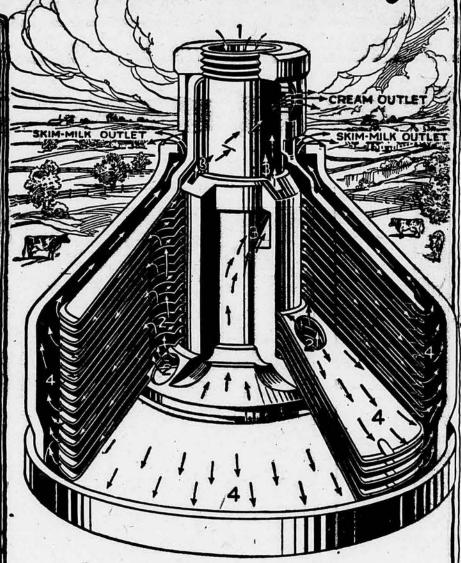
Why not see the nearest De Laval agent at once? If you do not know him, write to the nearest office for any desired information.

Every NEW DE LAVAL is now equipped with a Bell Speed-Indicator



Because nine people out of ten parator handle too slowly and because this always means loss of cream and cream of uneven thickness, every cream separator should be equipped with a reliable speed indicator.

Every NEW De Laval is now so equipped. The De Laval Bell Speed-Indicator is simple. It is accurate. It is reliable. There is nothing to wear out or get out of order. No matter who runs your De Laval, the "warning signal" will tell you when the speed is not right. You hear it and do not need to see it.



THE NEW SELF CENTERING DE LAVAL BOWL

Some of the points of superiorty of the **NEW DE LAVAL**

The New De Laval bowl design and the new method of delivering the milk into the discs give increased capacity without increasing the weight or size of the bowl or increasing its speed. The incoming whole milk is delivered beyond the cream wall, and this, in conjunction with the improved design of the bowl, makes possible closer skimming than ever before, es-pecially under the more difficult conditions of separation, such as skimming a very heavy cream or separating milk below usual temperature.

The much lower speed of the De Laval than other cream separators (in most cases from one-half to onethird less) insures minimum wear of gears and much longer life of the machine.

The New De Laval concave-bottom, self-centering bowl is so designed and so supported by the detached spindle that it will run true and do perfect work even after long wear, the great importance of which every separator user will appreciate.

There are fewer discs in the New De Laval bowl, and all discs are un-numbered and are interchangeable. By reason of its simpler construc-

tion and the fewer number of discs, the New De Laval bowl is more easily washed and cleansed.

All New De Lavals are automatically oiled, every moving part of the machine being bathed in a constant film of oil. There are no oil holes anywhere on the machine, and the sight feed oil cup on the top of the frame provides for a constant supply of

frame provides for a constant supply of fresh oil.

The gears, pinions and other moving parts of the De Laval are exceedingly simple in arrangement, substantial in dimensions and always interchangeable.

The De Laval tinware is sturdy and heavily tinned, well suited for long and heavily tinned, well suited for long and heavily tinned well suited for long and hard wear, and easy to clean.

The low speed of the De Laval bowl, in combination with greater capacity for a given size and weight of bowl than is found in other separators, and the automatic De Laval oiling system, make the De Laval the easiest cream separator to turn.

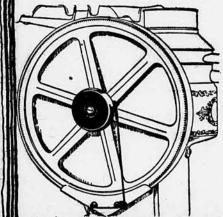
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WHY NOT TORRENS SYSTEM?

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Under our present system of recording land titles in Kansas, it is impossible to go through any sort of a real estate transaction without being annoyed and aggravated almost to the limit by our cumbersome, antiquated method of recording and transferring titles. By the Torrens System a title to land may be investigated once for all, and if sound, registered and guaranteed and if sound, registered and guaranteed by the state. It does away absolutely with the necessity of paying fees for having the same ancient records searched over and over again. This system of title registration has so many advan-tages that it, or a modified form of it, at least, is almost sure to be ultimately adopted by all the states. The State Grange of Kansas went on record last fall as favoring the adoption of the Torrens System.

A simple method of guaranteeing land titles would be a big step in making it easier to liquidate farm securities. The Federal Farm Loan Board has placed its official approval on the Torrens method. Eugene S. Massey of Richmond, Virginia, who has long championed the Torrens System of land title registration and who has written a book on the subject, took the matter up with the Federal Farm Loan Board, and writes as follows:

Farm Loan Board, and writes as follows:

"As matters now stand, every farmer must show to the board, or the Federal land bank, that he has a good title, which can only be done by having his title examined at his expense by the attorneys of the bank; and this must be done every time a loan is desired. But any farmer who once has his title registered under the Torrens System will tered under the Torrens System will have his certificate of title accepted for every loan desired in future without further examination of title."

This system is bitterly attacked by those who make their living by performing the unnecessary and complicated work of the present method of guaranteeing titles, but abstractors and guarantee companies cannot stand out against a principle that has so much of merit and justice back of it.

PURE-BRED PIGS WIN

PURE-BRED PIGS WIN

In the 1916 pig,feeding contest conducted by Otis E. Hall, State Leader of Boys' and Girls' Club Work, it is a significant fact that the winners all fed pure-bred pigs. The boys enrolling in the pig club were not required by the rules to feed pure-bred pigs, but the results show the folly of trying to compete with anything but a pure-bred.

Walter E. Delfelder of Atchison County, who won first prize in the state

County, who won first prize in the state contest, fed a Poland China, the pig weighing eighty pounds at twelve weeks of age. He fed it for 132 days, the final weighing eighty pounds at twelve weeks of age. He fed it for 132 days, the final weight being 355 pounds, thus making a gain of 2.08 pounds daily. Every pound of feed, even house slop, is charged to the pigs in this contest, and the gain made by Walter's pig cost at the rate of \$5.60 a hundred pounds. With present high prices of feed, this is a record of which any hog might be proud. Walter made a net gain of \$11.89, this being based on uniform feed prices and a price of 10 cents a pound on the pig at the of 10 dents a pound on the pig at the beginning of the contest and the same price at the end.

The second prize was won on a purebred Duroc Jersey, the third on a Poland China, and the fourth, fifth and sixth

on Duroc Jerseys. Two of the boys showed their Duroc Jersey pigs at the Hutchinson fair and sold them for breeding purposes, one receiving \$50 and the other \$45.

The detailed figures of these prize-

winners are given on another page of

It requires special skill in pig-feeding to produce pork as successfully and as profitably as these boys have done, and we wish to commend them for their work. The point we would like to emphasize just now is the great advantage

of feeding pure-breds instead of "scrubs" or grades. In this contest the pure-breds easily outstripped the grades. But there is another reason why boys who join next year's pig club should feed pure-breds. Mr. Hall says that a considerable sum of prize money could not be claimed because so few pure-bred pigs were fed last year. Four of the national hog record associations offered \$50 each, but with a provise that at least seven pigs of the respective breeds should finish. This requirement was not met and as a result the money could not be claimed.

Mr. Hall is urging all the boys to get into the game this year with pure-bred pigs. It is just as easy to feed a pure-bred as it is to feed a grade or a "scrub." bred as it is to feed a grade or a "scrub."
Not only are the pure-breds more
profitable and more apt to win, but
there will be more prize money if
enough of the boys feed pure-breds.
"We want our whole family of pig club
boys back," said Mr. Hall, "and let's all
choose pure-bred pigs and see that no
prize money goes unclaimed next fall."

FRUIT ON THE FARM
Farmers ought to plant orchards for

FRUIT ON THE FARM

Farmers ought to plant orchards for the production of fruit for their own use. There is also a place for the commercial orchard, for there will always be a wide demand for fruit. This demand is increasing and even in our own state where fruit production could be greatly increased we ship in year quangreatly increased, we ship in vast quantities of apples and other fruit that could be grown at home. Kansas should not be classed as one of the great fruit-consuming states. We could easily produce much more fruit in commercial or-

chards, and there is a place on nearly every farm for a small fruit plantation.

The argument is frequently made that fruit can be bought cheaper than it can be grown, but as a matter of fact even well-to-do farmers use less fruit than they should because it is not grown at home. The farm orchard may not always be practical, but in very few instances is this the case. It of course requires more knowledge new to succeed with fruit than in the early days, but with the store of information being accumulated by our experiment station and freely given out through the extension division, the farm press, and in other ways, this is not a legitimate ex-cuse for failing to grow at least a por-tion of the fruit needed in the farm

If you do not already have a farm orchard, plan for one this year. The stock should be ordered at once. Nurs-ery advertisers in Kansas Farmer will be glad to furnish advice as to varieties best adapted to various local conditions. Do not plan to put out more fruit than can be cared for properly. The small orchard given real orchard care will be a source of profit on the general farm, whereas a larger orchard that must of necessity be neglected might result in loss and discouragement.

The extension division of the agricultural college keeps a trained orchard man traveling all the time. He will gladly make suggestions relative to planting and caring for fruit. If you desire to avail yourself of this help, write Georga O. Greene, Extension Division, Kansas Agricultural College, Manhattan. STARTING A PURE-BRED FLOCK

There are many reasons why pure-bred chickens are more profitable than those of mixed or mongral breeding. We have never heard of any striking results being secured with mongral stock. Some of our fanciers perhaps have over-estimated the feathers at the expense of utility qualities, but in the main every breed of poultry that has endured has done so because of its utility qualities. J. E. Rice, poultryman at Cornell Uni-versity, summarizes the advantages of

pnre-bred stock as follows:

"Pure-bred fowls lay eggs that are
more uniform in size, shape, color, and
texture of shell. Uniform eggs sell for

a higher price.
"They are more likely to breed true, that is, the chickens will grow up to be

ilke their parents.

"They are more uniform in shape and size of body and in color of skin and shanks, therefore more attractive and more profitable when placed on sale.

"They are more attractive as a flock, because they are similar in appearance. It is worth while to keep poultry that

looks well.

"They furnish a larger income because eggs for hatching and stock for breeding can be sold at prices considerably higher

than for market purposes.

"They are more satisfactory, because, other things being equal, they may be expected to give better results in feeding, hatching, and rearing, due to the fact that they are more nearly alike as to rate of growth, size, temperament, activity, and the like."

It is so easy to get started with purebred stock that there is little excuse for clinging to the mongrels. A cockerel and a few hens can be purchased from and a few hens can be purchased from some one who has a good strain of the breed desired. The cheapest way to start is by getting some eggs from a flock of known standing. Some breeders now offer day-old chicks. These can be shipped as easily and as safely as can eggs, and in some ways it is better to get the chicks than to have eggs for get the chicks than to buy eggs for hatching. Then there is the grading-up system so profitably followed with cattle and other farm live stock. By putting some good pure-bred males of the chosen breed with the mixed flock, the poultry raised will have half the blood of the pure-bred and in appearance will seem to have even more. The old hens can be sold in the fall and breeding stock for the next year selected from the half-

The initial expense of getting some eggs, baby chicks, or a pen of purebreds, is so small that few will find it necessary to practice this slow grading-up method of improving the farm flock.

* * * We have just received a letter from the Animal Husbandry Department of the Kansas Agricultural College in which they extend a most cordial invitation to live stock breeders to make Professor Cochel's office, Room 10 Agricultural Building, their headquarters during Farm and Home Week. Facilities will be provided for holding conferences or transacting any business that may be necessary during their stay. The program this year is unusually strong in its live stock features and we hope nothing will prevent the live stock hope nothing will prevent the live stock men among our readers from spending at least a part of the week in attending these live stock meetings.

* * *

So far, the legislature seems to be going about its work in a most business-like manner. These seems to be a dispo-sition to get down to the real business of legislation and we trust this will continue through the whole session. This is as it should be, and the people of the state will appreciate a continuation of this serious effort on the part of the legislators to do their work in the most efficient and expeditious manner possible.

More Profits From Poultry

EGGS and other poultry products have gone up in price like everything else. Poultry has always been a profitable side line on the farm, but with present conditions, giving the farm flock reasonable care and attention is more certain than ever to bring big returns for the effort put forth. In 1900 federal statistics showed that the per capita consumption of eggs in the United States was 207 the cost being \$1.86. In 1910 put forth. In 1900 federal statistics showed that the per capita consumption of eggs in the United States was 207, the cost being \$1.86. In 1910, ten years later, the average consumption was 200 eggs per person and the cost \$3.40. We have no similar statistics to show present conditions, but we know eggs and poultry are higher now than they have ever been before. With such market conditions, poultry will be profitable even though in many cases the chickens are looked upon as beneath the notice of the owner or manager of the farm.

For the money invested the hore states of the states

For the money invested the hens return a larger income, even, than For the money invested the hens return a larger income, even, than does the dairy cow. They are affected even less than the cow by dry weather and crop failures. In the dry-land sections the hens have often paid the grocery bills following a crop failure and thus enabled the family to "hang on" and become permanently and prosperously established.

If poultry can yield such profitable returns as the statistics show when cared for in the haphazard manner so common on many farms, it is reasonable to expect that placing it on an equality with other farm animals in the matter of care and attention will make it return far greater profits.

profits.

profits.

In this we are not advocating or urging that the farm poultry business should be enlarged beyond the ability of the farm workers to care for the hens and chickens properly. We print in this issue and in other issues, figures showing unusual profits from small flocks of hens given the best of care. It is not to be expected that what can be done with a dozen hens can be duplicated with a thousand. The farm flock of a size that permits its being given the right kind of care is the profitable flock.

There is nothing like keeping some accounts for putting an enterprise

on a business basis. As long as no records are kept of the returns from the poultry it is not likely to be credited with what it is doing. If you do not believe this, try keeping a strict business account with your flock and see if it does not reveal some surprises. As a result of keeping a record, better equipment will in all probability be provided for the poultry.

A farm woman tells in this issue of her first efforts with poultry and

A farm woman tells in this issue of her first efforts with poultry and how she kept strict account of the eggs produced and sold. It was a very ordinary record, but it resulted in the poultry being given a good house and as the business has grown she has been able to greatly increase the profits until now it is one of the most profitable enterprises of the farm.

To succeed with poultry it is necessary to have good stock, give it the right kind of feed, and provide suitable quarters. It is not necessary to house poultry expensively, but it will pay good returns for the money put into comfortable well-planned shelter. There are a good many details connected with the care of poultry that must be observed, but with a little encouragement in the way of proper equipment, the farm woman can be trusted to work out the details of poultry care and management and make it pay many an item of family expense.

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PROFIT FROM FARM POULTRY

Income of \$1800 From Flock of 365 Hens on This Missouri Farm

By MRS. G. L. RUSSELL

N MOST of the six million farms of the United States the women care for the poultry along with the household duties. A farm poultry flock well cared for will be the best paying "crop" on the farm and yet they are often greatly neglected because the women are furnished such poor equip-

My mother-in-law gave me some two hundred hens when I was married. I was delighted with them and tried in every conceivable manner to make them lay the first winter. I fed them hot mashes, read all the poultry articles I could find and tried to follow all instructions. The hens didn't lay. I soon found out that if I wanted to get winter found out that if I wanted to get winter eggs I must expect them from my pullets. Now I knew well enough that not one of those pullets would lay until spring—they were not well enough matured. However, they laid well enough when spring came, (it is a poor hen, indeed, that won't lay then) and I raised several hundred chicks. We were living with my father-in-law at that time and he thought I was doing wonderfully well he thought I was doing wonderfully well with the flock. At the end of the year I had sold a little over \$100 worth of produce. He declared it was more eggs than they had sold in forty years. I am sure he must have been mistaken, but it showed to me the value of keeping record of what the hens were paying

Our hen house was a worn out leaky affair and in the fall my husband built me another, for had not the hens earned it? That one hundred dellars that they had paid in made the whole family have

more respect for them.

Every farmer's wife should keep account of what her chickens are paying her, for in no other way can she get her husband sufficiently interested to build suitable houses and coops as they

I am sure I would never have made much of a success with my chickens if I had not had Mr. Russell's co-operation. When new houses have been needed the hens have supplied the money and he the

I worked with my flock for several years and still I could not get winter eggs, although in the meantime I had bought an incubator, so as to hatch chicks early enough for the pullets to lay in fall. Some way I just couldn't get my farm flock of big chickens laying in the fall and winter. I wonder if many farmers are not troubled the same many farmers are not troubled the same many farmers are not troubled the same way? They surely must be or else egg prices would not be soaring so now, and in fact every winter. I know I don't hear of any of my neighbors selling eggs in large quantities now, while we are sending a thirty-dozen case to New York. City every week and receiving 52 cents a dozen for them.

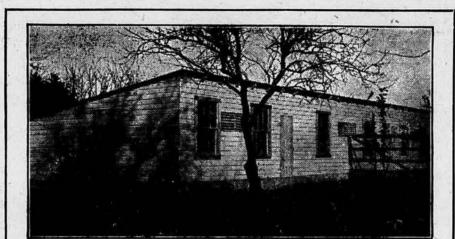
I am a long ways ahead of my story though — almost seven years. To go back. After I found out I could not get the chickens to lay in winter I bought five Brown Leghorn hens and a rooster. These did so well for me I decided I wanted these only, so raised nothing but Brown Leghorns and gradually sold off my other flock.

For six years now we have had only this breed, and we like them better each year. They are money makers for us. The pullets if hatched in March or April will, if fed well commence laying in the fall and winter, keep it up all spring, summer and fall, and then we let them rest their second winter. You see we have another crop of pullets ready for the laying house then, and the yearling hens after their rest in winter are ready by spring to lay again. We never keep hens over three years old.

laying house. It is 20x60 feet and is divided into two rooms, so I do not need to feed the whole flock for egg produc-

Our method of feeding for eggs is as follows. In the morning they are given a feed of small grain, a pint to every a feed of small grain, a pint to every ten hens. Oats, wheat or barley are good, or better still a combination of the three. At night they are given a pint and one half of shelled corn to every ten hens. All grain is fed in a deep litter, thus compelling them to work and not be lazy, but who ever heard of a lazy Leghorn hen?

In addition to their grain feed they have a dry mash before them all the



FIVE HUNDRED HENS KEPT IN THIS LAYING HOUSE ON THE RUSSELL FARM, CHILHOWEE, MISSOURI

time, which is composed of two parts bran, one part shorts, one part corn meal and two-fifths part meat scraps. A little salt and fine charcoal is added to this and the whole is thoroughly mixed and then put in self feeders. The laying hens have access to this the year

They also have some kind of green feed. Personally, I like sprouted oats best, as it is easy to prepare and makes an abundance of crisp green feed in a very short while. One square inch per hen per day is required of this. The water is an important factor all day long. So many farmers will supply all these materials and then forget to give the hens anything to make an egg shell with. Oyster shell should be purchased by the 100 pounds on every farm and kept before the hens all the time.

A house that is well ventilated and A house that is well ventilated and free from draught is not such a problem as many consider. You will note from the picture that the house is supplied with shutter-like ventilators. These are excellent as fresh air is admitted day and night and still there is no draught. There is also a ventilator over the roosts that ventilates without a draft.

Such a house as this is well supplied with sunshine. Ours has a dry concrete floor. A concrete floor is certainly a success if built right, but it must have a good foundation of fine rock, gravel or cinders for drainage, so it will not become damp.

The two factors that so many farmers neglect when trying to feed for winter eggs are the meat scraps and green feed. Meat scraps may be purchased in feed. Meat scraps may be purchased in any city from a packing firm at a cost of about \$3.25 per 100 pounds, while the green feed may be supplied in various ways: cabbage, beets, silage, steamed clover leaves, all are good. I do not like them as well as sprouted oats, but have had fairly good results feeding them.

For several years we have been selling eggs for hatching. This greatly increases the profit. I don't see why more farmers wives do not do this. In a few years time one can have a nice flock of all purebreds and sell off all the culls, and sell hatching eggs. It is necessary to advertise, though for you can't expect to sell many eggs around home. A few

dollars spent with a good farm paper with a large circulation will sell a surprisingly number of eggs. In a short time quite a business can be built up if good business methods are used, and good stock is sold.

If you do not care to go to the trouble of selling hatching eggs, you can, with a flock of purebred chickens, that lay a uniform color of eggs secure a fresh egg market in some near by city. Last summer when eggs were selling for ten and twelve cents per dozen on our home market we were shipping our eggs to Kahasa City to Union Station restaurant

As proof of the industry of my 365
Brown Leghorn hens, I will append the following report of egg sales for the year 1916.

year 1916.

January, \$56.54; February, \$125.19;
March, \$290.94; April, \$501.07; May,
\$222.70; June, \$112.26; July, \$108.93;
August, \$39.00; September, \$48.38; October, \$70.32; November, \$134.42; December, \$73.06; Total, \$1,782.91.

Incubator on the Farm

As a rule, the absence of facilities for hatching the chicks early when they are wanted is the greatest drawback to poultry profit on the farm. Yet these facilities may be readily provided and at a cost that can be very easily and quickly made up from the increased profits from the poultry when these methods are applied.

It is stated in the Poultry Tribune that thousands of farm poultry raisers have not as yet come to realize the increase in revenue from this branch of the farm operations which may be had by adopting up-to-date methods. As a rule, the absence of facilities

by adopting up-to-date methods.

Every farm where poultry is raised should be provided with at least one incubator and brooder of a capacity according to the size of the flock kept on the farm. There is nothing mysterious nor difficult about hatching chicks with the incubator and properly raising them in brooders. ing them in brooders. Dozens of good machines are now offered to the public which in the hands of any fairly intelligent operator will do good and satisfactory work.

In order to derive the best return from the farm flock at least a goodly portion of the chicks should be hatched during late February and March. Then the cockerels may be sold in May at around two pounds weight at 25 to 35 cents a pound, actually bringing in as much real money as they would if held and fed for three or four months longer and then sold at a much lower price per pound. When the male chicks are thus disposed of early in the summer, more space and attention may be given to the pullets of these early hatches and they may be brought to the laying age early in the fall and will with fair care an attention produce high priced eggs dur

ing the winter.

Then there is real economy also in the use of an incubator to do the hatch ing. A 200-egg machine will take the place of at least fifteen hens during the hatching period of three weeks. It wil also take at least three or four weeks to get the fifteen hens back to laying form which means that in order to hatch 200 eggs, the time of fifteen hens must be lost for seven weeks of the heaviest lay-ing season. During this period each her should and no doubt would produce at a low estimate two dozen eggs each, or a total of thirty dozen for the fifteen hens total of thirty dozen for the fifteen hens Even at low prices usually prevailing during the spring months these eggi would sell for at least \$6. On the average farm and to keep up the supply of layers for the average farm flock, three such hatches would be made each season Hence it is not difficult to figure that \$5 good incubator will pay for itself each season in the saving of "hen time" alone, to say nothing of the advantage of being able to hatch at any time desired and thus get out the chicks early enough to obtain high prices for the cockerels and obtain high prices for the cockerels and have early hatched pullets to lay the high-priced fall and winter eggs.

Now is the time to think it over. Get

the literature issued by the manufacturers of incubators and brooders now advertising in KANSAS FARMER, and decide which machines will suit you best. For early-hatched chicks the machines should be running soon.

Eggs and poultry are higher than they have been for years. Every indication points toward the greatest demand for all kinds of produce that is food for man or beast the coming season that has been known for a long time. Already great quantities of eggs have been exported, and this demand is bound to continue.

The poultry business is not a small business. According to our State Board of Agriculture figures, the return from poultry in Kansas last year amounted to almost twelve and a half million

Hatch Early for Winter Layers

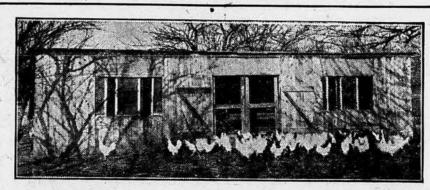
A high water mark has been reached this winter in price of poultry products, especially eggs. This phenomenal price has caused hundreds of poultrymen to put forth an extra effort to increase their egg production. In the majority of cases this effort has not brought the desired result, and there is the one high desired result, and here is the one big reason—the pullets being forced did not have the maturity and age necessary for winter laying. Their feed, care and housing may have been above question, but their handicap of being hatched late

could not be overcome.

The spring is the normal season of the year for hens to lay, and if they lay liberally, then they cannot be forced to heavy production in the winter. The fall and winter is Nature's natural rest ing period. For this reason world-breakrecords can never be expected from

vearling hens. Pullets will always be the main force in producing winter eggs. As in the case of the hen, however, winter laying is not natural, and their tendency toward spring laying must be offset by hatching them early enough to reach the degree of growth and maturity necessary for egg production in the fall. Pullets that have not sufficient development to begin laying before the severe winter weather starts will almost invariably not lay before February or March.

Many of the puzzling problems that confronted the poultrymen this winter will be avoided next year if the hatching is done three weeks to a month earlier. It should be remembered that the time of the year the eggs are laid is far more important than the number-laid.—C. S. ANDERSON, Colorado Agricultural College. tural College.



THIS LAYING HOUSE IS ON A SHAWNEE COUNTY FARM WHERE EIGHTEEN HUNDRED HENS ARE KEPT

GENERAL FARM INQUIRIES

Something For Every Farm - Overflow Items From Other Departments

E ARE frequently asked to give E ARE frequently asked to give rules for measuring hay. A recent circular entitled, "Measuring Hay in Ricks and Stacks", by the Federal Department of Agriculture, will be found most helpful to those having hay to measure. The rules given are the result of considerable careful field work covering a period of several years. The authors believe that the methods suggested for determining the number The authors believe that the methods suggested for determining the number of cubic feet in a rick of hay, are quite accurate. To secure a copy of this circular, address Division of Publications, Department of Agriculture, Washington, D. C.

Silo Capacity Problem

C. P. T., Osage County, asks for information that will help him in settling with the man who filled his silo for him last fall. The filling was to be paid for at the rate of thirty cents a ton. The man who filled the silo furnished the power and the cutter. It is a 12x28 silo and they filled it within two feet of the top in eight hours time. Two men were inside handling the distributor and tramping. With the extra foot at the bottom below the top of the foundation, it contained twenty-seven tons of silage when they stopped work at night. The actual inside diameter is eleven feet eight inches, and it settled four feet be-

The actual inside diameter is eleven feet eight inches, and it settled four feet before it was opened for feeding.

Our correspondent said he figured that it held fifty-eight tons, using a table giving the capacity of a 12x28 silo as sixty-one tons. He wants to pay for what is right and asks our advice as to the proper table for figuring the amount of silage put into this silo.

The only figures on silo capacity we have based on actual investigations, are those of the late Professor F. H. King of Wisconsin University. These figures give the mean weight for a cubic foot of well matured corn silage in a silo of Wisconsin University. These figures give the mean weight for a cubic foot of well matured corn silage in a silo containing twenty-three feet of settled silage, as 35.3 pounds. The greater the depth of the settled silage the greater will be its mean weight. For thirty-six feet of settled silage it is given as 42.8 pounds per cubic foot; thirty-two feet, 40.7 pounds; thirty-one feet, 40.1; thirty feet, 39.6; twenty-nine feet, 39; twenty-eight feet, 38.4; twenty-seven, 37.8; twenty-six, 37.2; twenty-five, 36.5; twenty-four, 35.9 pounds. Because of this great variation in the mean weight of silage in silos containing different depths of silage, it is impossible to have a general rule that will apply to all conditions. The character of the crop also affects the weight of the silage. A poor crop of corn containing little or no grain, will weigh less than a crop containing a large amount of corn.

In coming to agreements on filling work, it is necessary to take into consideration the possible variations.

Figuring the cubical contents is purely a matter of arithmetic. The inside dia-

Figuring the cubical contents is purely a matter of arithmetic. The inside diameter of the silo should be used. The rule is to square this diameter, multiply the result by 7854 and multiply this by the height or depth of the silage in feet. In this particular instance the diameter is 11-2-3 feet and the square of this is 136-1-9. Multiplying this by 7854, gives 106.9, which is the number of source feet in a circle 11 feet 8 of square feet in a circle 11 feet 8

of square feet in a circle 11 feet 8 inches in diameter.

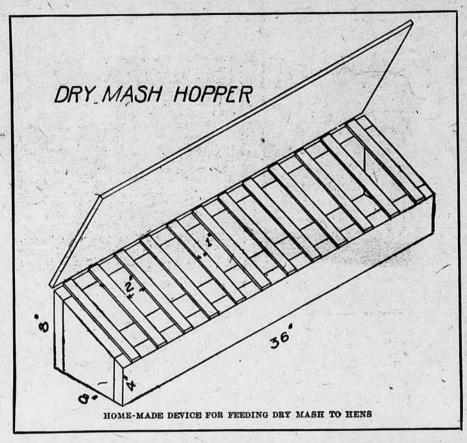
After settling, this silo contained twenty-three feet of silage, and multiplying 106-9-10 square feet by 23, gives 2485.7 cubic feet. According to Professor King's figures, which are generally accepted in figuring the capacity of silos, the mean weight of a cubic foot of silage in a silo containing 23 feet of settled silage from well matured corn, is 35.3 pounds. Multiplying the cubical is 35.3 pounds. Multiplying the cubical contents, 2458.7 feet. by 35.3, gives 86,

792.11 pounds, or 43.4 tons.

The capacity of silos is almost invariably given on a basis of their being filled to the top with settled silage. Figured in this way, a 12x28 foot silo would hold 61 tons. Of course all users of silos know it is almost impossible to get the full canadity of a silo because get the full capacity of a silo because after the silage has settled it will lack from four to six feet of coming to the

Wet or Dry Feed for Hogs

A. J. L., Finney County, asks which is the better way to feed shorts to hogs, wet or dry. If wet, how much better?



He says they have a lot of stock to feed, including steers, hogs and mules, and want to keep the labor of feeding down

to a minimum. In Bulletin 192 Kansas Experiment In Bulletin 192 Kansas Experiment
Station, is reported a comparison between wet and dry feed. The ration
fed was as follows: Six parts corn meal,
three parts shorts, one part meat meal.
There were seven shoats in each lot.
They were fed forty-two days. At the
beginning the average weight per hog
was 117 pounds. In one lot the grain
mixture was fed dry in troughs: In the
other enough water was added at feeding time to form a thick slop.

During this test the hogs fed the dry
feed gained at the rate of 1.95 pounds
daily, and the grain consumed for each
pound of gain they made was 3.6 pounds.
The hogs in the other lot gained at the
rate of 2.31 pounds daily, and the grain
consumed for each pound of gain made
was 3.61 pounds.

Almost the only noticeable difference

Almost the only noticeable difference in the results was that the hoga getting the wet feed consumed more feed daily and made larger daily gains. As much pork had been made from a given amount of feed in one lot as in the other. The hogs fed the wet feed had simply converted a larger amount of feed into pork in a given time because more had been eaten.

Labor is frequently a very important item in feeding stock and in many cases it would be impractical to wet feed be-cause of the extra amount of labor re-

The self-feeder is coming into favor for hog feeding wherever it is impor-tant to keep the labor of feeding down to a minimum. In our issue of Septem-ber 2 we gave a detailed plan for mak-ing self-feeders such as are used very successfully at the Iowa Experiment

Station. The Kansas Experiment Station conducted a comprehensive experi-ment in hog feeding last summer and fall, in which several lots were fed by the use of self-feeders. A very satis-factory type of self-feeder was used.

Treatment for Pink Eye

J. M. S., Ottawa County, asks how to treat his calves for pink eye. He says they have it almost as soon as they are

As this subscriber needed this infor-As this subscriber needed this information promptly, we answered him by return mail. This disease often gets into herds and causes considerable trouble. Occasionally it is so severe as to result in the total loss of sight. The case described is without doubt the contagious form. Local irritations caused by chaff or dust sometimes produce the same general symptoms, but when it same general symptoms, but when it goes from animal to animal in a herd it is safe to assume that it is contagious

The calves affected should be put into clean, dark stalls, and their eyes should be washed with a wash consisting of one dram of boracic acid dissolved by pouring four ounces of boiling water over it. Use this wash frequently, applying it with a small syringe or a medicine dropper. In the absence of these the wash may be dashed in the eye by using the palm of the hand. In most cases there will be quite an improvement noticed after this treatment and in the course of ten days or two weeks the eyes will usually clear up and be free from any inflaration. from any inflamation.

Since it is contagious the affected animals should be seperated from the rest of the stock. Put them in a shed or barn entirely apart from where the other animals are kept. Disinfect all

the stalls and sheds by spraying with some good disinfectant dip.

The disease has a debilitating effect on the animals and they should be given the best of care during the treatment.

Stacking Kafir and Cane Green

Last fall we published a letter from V. V. Akin of Riley County, in which he advocated stacking cane and kafir green, and gave some of his experiences along this line. The method in reality is nothing more or less than making silage without using a silo.

S. S. K., Sedgewick County, asks if anyone else has tried it. He wants to know at what stage rye should be cut for stacking green to feed to horses and milk cows. Also whether or not stock will eat cane and kafir stacked green as clean as when stored as silage.

will eat cane and kafir stacked green as clean as when stored as silage.

Mr. Akin has been asked this winter as to the condition of the cane and kafir when it came out of the stack. His answer was follows: "If cane or kafir is stacked while it is sappy and green, the sides of the stack built perpendicular, and the top covered with anything to exclude the air, the bundles will come out of the stack just like silage. The extreme outside of the stack is cured out dry and right next to that is a small space of bundles that are moldy and spoiled. I have not tried stacking mowed cane in this way, but believe it would be all right. My objection to stacking alfalfa green is that it is hard to get out of the stack as it packs so solidly. The objection to stacking oats green is that they seem to develope a highly acid condition although they are relished by stock. The oats we stacked green in 1915 came out almost as green as they were the day they were put into the stack. Last year it was so dry that we were afraid to attempt the green stacks. Some that we stacked in 1915 in an over-ripe and half-dry condition stacks. Some that we stacked in 1915 in an over-ripe and half-dry condition did not keep well, but wherever it was green and sappy it made fine feed. We handle nothing but steers, so that is our

handle nothing but steers, so that is our viewpoint."

'While we feel sure Mr. Akin has successfully practiced this method of stacking feed green, we would hesitate to recommend the method for general adoption. It is never safe to feed horses moldy feed of any kind. We would not expect rye stacked green to be a very good feed. It is difficult to make good silage of rye or oats even when they are carefully tramped in the silo.

It is our opinion that as a general proposition it is safer to depend on a good silo for making good silage.

good silo for making good silage.

- Rural Lecture Course

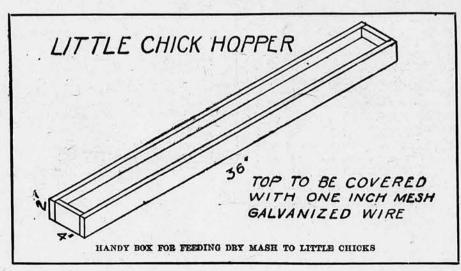
As Chaplain of the Kansas State Grange, I wish to say a few words in behalf of the rural lecture course. I believe it is one of the best things we can do for community welfare. We all know that our young people must have amusement and entertainment. If we do not provide it for them, they will find it for themselves.

If we can develope in them a taste

for the clean, pure, and moral-forms of entertainment, we have done a great deal towards moulding their characters, so that they may develope into good citizens.

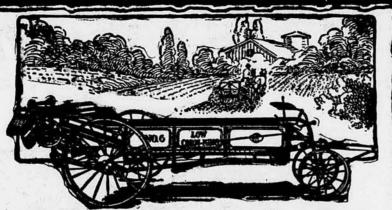
In these days of automobiles, if we do not have some form of entertainment in the country our young people will go to the towns for it. And, too often the kind of entertainments they attend there are not the best. In the cities, on account of the large numbers of people, it is possible to have both the good and the bad forms of entertainment. In the country, on account of the small number of people, it is possible to have only one kind of entertainment, which shall it be? The good or the evil. It is up to you, brothers and sisters to decide this question.

I wish that every rural community might have a lecture course. Let the grange or the Sunday School take this matter under consideration. Or, in communities where both organization. exist, they might unite and call it a community lecture course. Our boys and girls are the most important crop we raise. Let us do all in our power to develope them into happy, good and useful citizens.—Mrs. Mabel Pomeroy, Chaplain, Kansas State Grange.



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Settle the Spreader Question

THE farmer who uses a Low Cloverleaf, Low Corn King or Low 20th Century spreader these days is the man who makes the most money. His land increases in value when regularly fertilized. His crops grow better in quality and larger in yield when supplied with available plant food. Of all the spreaders on the market, the Low Cloverleaf, Low Corn King and Low 20th Century come nearest to doing this work as it should be done.

and Low 20th Century come nearest to doing this work as it should be done.

It is a long jump from the ordinary machine to the modern low spreader with its double beater and wide spread. Every farmer who knows the value of good spreading is buying one of these wide spread machines. As a matter of fact, no farmer can afford to buy any other kind, because the saving of time and labor and the better job of spreading done by a Low Cleverleaf, Low Corn King or Low 20th Century makes them worth more than ordinary spreaders.

Complete information about these machines is worth money to you. Drop us a line at the address below and we will show you very plainly why it will pay you to buy a Low Cloverleaf, Low Corn King or Low 20th Century spreader.

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Get Our Prices and Samples Before Ordering,

FREE SEED BOOK—filled with quotations, descriptions and helpful ideas. Sent postpaid to all who want better secods, better service and better crops.

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In cool weather 10 to 13 chicks are sufficient for one hen, while in warmer weather 15 to 20 can be cared for successfully. Never mix chicks of different

Start the brooder a day or two before putting in the chicks, to see that the heating apparatus is working properly.



Given the same care and feed, pure-bred fowls will make a greater profit than mongrels.

Kansas Farmer Dairy

Cottonseed Meal Not Good For Calf

AX HOLLISTER of Harvey Coun-AX HOLLISTER of Harvey County, writes that he has been feeding his cow a little cottonseed meal for a few days and she is giving more milk than she did. He feeds alfalfa hay and silage for roughage and for grain has been feeding ground wheat and cottage the wheat and cottage the wholl and cottage the whole and cottage the wholl are wholl and cottage the wholl are wholl and cottage the wholl and cottage the wholl are wholl and cottage th and oats, the wheat and oats having grown together. This makes a good grain ration but we advised him to try a little cottonseed meal so as to supply his cow more protein and in this letter he reports the result.

He asks some calf-feeding questions, the answers to which will interest every member of the club. On his fathers farm the calves are now being fed some of the ground wheat and oats. Hot water is poured over this grain and a quart of skimmilk is added for each calf. He asks if it would be a good plan to put a little cottonseed meal in with the grain, and if so, how much?

This inquiry raises two very important questions in calf-feeding. Success in raising calves with skimmilk is one of the tests of a dairyman's ability. Unless he can so feed and manage the calves as to grow them out into big, strong, thrifty cows, he cannot successfully build up his dairy herd. For this reason you should study very carefully

the feeding of your calves.

The father of one of the club members told us last fall that his boy had been more successful in feeding the calf from his cow than they had ever been in feeding calves in the past. The reason was that he had studied very carefully how to feed his calf according to the

most approved methods.

One of the important points in feeding skimmilk to calves is to make farmgrown grains take the place of butterfat. Grain at two cents a pound is cheaper than butterfat at thirty-five or forty cents a pound. Starch is the part of grain that takes the place of the fat which is taken out of the milk in the cream. In order to be used in this way the starch must go through a more complicated process of digestion than does the fat in the milk. Part of this digestion takes place in the mouth. There are some juices in the mouth that must be mixed with the grain before it is swallowed or the starch will be very poorly digested and may even cause seripoorly digested and may even cause serious digestive trouble.

In order to be sure and have the grain well mixed with these juices of the mouth, it should be fed dry so the calf will have to chew it before he can swallow it. Finely ground grain mixed with milk will be swallowed and go direct to the stomach without getting any of these juices of the mouth mixed with it and therefore will be poorly digested and will not do the things in the body that the fat of the milk would do.

This is point No. 1—teach your calf to eat dry grain and give the skimmilk separately. Ordinarily the best order of feeding is to give the milk and as soon as the calf gets through drinking it, give him his grain in the same bucket

or in a box. This helps to break up the bad habit calves sometimes form of sucking each other's ears after drinking

The second point has to do with balancing the ration. Milk as it comes from the cow is balanced perfectly for the needs of the calf. It contains the protein, the mineral matter, and the fat in the right proportions. Because butter fat is the product that makes dairying profitable, we separate the cream and feed the calves the skimmilk. This contains all the protein or growing material of the milk, but is lacking in that part which furnishes heat and energy to the body. To correct this we do not need a feed rich in protein, but one that has starch and fat. Feeds that contain a lot of protein like cottonseed meal or linseed oil meal are always expensive, and since the calf does not need extra protein while being fed skimmilk, it is wasteful to feed either cottonseed meal or linseed oil meal. Of course, as the calf gets older and is fed less of the skimmilk or weaned from it entirely, it will need protein for making growth. But on farms where there is alfalfa, the cheapest way to supply this needed pro-tein is to give the calf plenty of alfalfa hay. This is also rich in mineral matter. Keep giving the calf some grain rich in starch, like corn, kafir, milo, oats or wheat.

This is a long preachment on calf feeding, but these are two points in calffeeding that every member of the club should understand.

Dairy Club Prizes

The following is a partial list of the prizes that have been offered to encourage the members of the Dairy Club in their work. We have had letters from quite a number of other firms stating that they are interested in this club and will probably offer prizes later.

Beatrice Creamery Company offers a Hinge-Door, one-piece stave, Oregon fir

R. J. Linscott, Holton, Kansas, offers a purebred Jersey bull calf from his Register of Merit herd. This calf is sired by his chief herd bull, Gamboa's Knight, a bull that now has forty-two officially tested daughters in the Register of Merit. Gamboa's Knight's dam is a Register of Merit cow, granddaughter of the famous Flying Fox, the sire of thirty-nine tested cows and forty-four sons that have sired Register of Merit

Empire Cream Separator Company,

one cream separator.

Beatrice Creamery Company, one

cream separator.

Hunt-Helm-Ferris & Company, Harvard, Ill., a complete cow stall. N. A. Kennedy Supply Company, Kansas City, Mo., one 12-bottle Facile Babcock milk tester, complete with glass-

Additional prizes will be announced in

this department later.

Can You Meet Us At Manhattan?

OU know February 5 to 10 will be Farm and Home Week at the Kansas Agricultural College at Manhattan. This is the annual state-wide farmers' meeting and a good program has been arranged for every day. There will be meetings for men, women, boys and girls,

for every day. There will be meetings for men, women, boys and girls, and general meetings for all together.

We have just received a letter from one of our Dairy Club members, Harvey Russell of Scott County, saying he will be in Manhattan during Farm and Home Week and that he hopes to see us there.

We are wondering if others of you will be there. If so, we would like to meet you, too. We will be in Manhattan Thursday and Friday and we invite all of our Dairy Club members who will be there, to be our guests at supper Thursday evening. Meet us at Prof. O. E. Reed's office in the Dairy Building of the agricultural college, at fifteen minutes before four—3:45—Thursday afternoon. We will go together to see the before four—3:45—Thursday afternoon. We will go together to see the big live stock parade at four o'clock and after that is over we will see some other interesting things about the college until supper time. Then we will have supper at the college cafeteria and a little talk together about the Dairy Club work.

We wish all of you might attend these meetings, for the programs

arranged for the boys and girls by Otis E. Hall, State Club Leader, will be full of good things for you and you would learn many helpful things by visiting the state's agricultural institution.

If you do go, be sure to meet us at Prof. O. E. Reed's office in the Dairy Building at 3:45 Thursday afternoon, February 8. Ask for G. C. Wheeler, associate editor of KANSAS FARMER.

Cut out this article and take it with you so you will not forget where

Are You Living on the Chickens?

By H. H. Johnson



N odd confession came to light the other day. One of our nearby customers came into the office and among other things said, "Doyou know it just dawned on me that during the five years we lived in Texas the wife kept me and the children? She raised chickens and always seemed to have money. The children were never without good clothes, and grocery and meat bills were al-

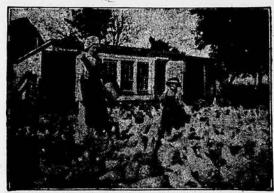
H. H. Johnson
"The Incubator Man"

ing taken care of these things, and I really believe that her poultry kept us while I kept myself busy farming."

I wouldn't doubt this. I have received many letters from farmers who admitted that their wives made more dollars from poultry than they made dimes farming. This is no reflection on grain and dimes farming. This is no reflection on grain and stock raising but it shows what poultry can do when put to the test.

Of late years, more farmers are taking to poultry raising. Instead of leaving it all to the women folks and cussing every time the hens roost on the buggy or farm machinery, they are providing for poultry houses and giving the chickens a place to stay. They find that it pays. Maybe the chickens require a little grain. But so do the hogs. And what farmer couldn't raise a few hundred chickens for the time and arrest and the chickens and the state of the state for the time and expense put in on raising half a

The old order of things is changing. The poultry farmer has found it profitable to look at his chickens in the same light that the dairy farmer looks at his



You Can Live Well on Poultry Profits

cows. That is so far as the money-making possi-bilities are concerned. But instead of having to buy feed for his poultry, the chickens can be fed the scraps from the table, and the waste from the feed bins and feeding that cattle and hogs tramp

feed bins and feeding that cattle and hogs tramp into the mud.

No one is too poor to raise poultry profitably. And it takes less expense, less work, and less management to make farm poultry pay than any other kind of poultry. By farm poultry I do not necessarily mean mongrels. I am of the opinion that most poultry is now pure or cross breeds of two pure varieties which should not be classed as mongrels.

There is not much capital needed for starting. Some unused shed can do for the chicken house, hence no expense in that direction. About the only equipment needed is a good incubator, a brooder and the eggs. If the incubator is built right, no special room or cave is needed for it. It supplies its own protection from the weather. The same can be said for the brooder, although it is always well to set the brooder in a big box, such as a piano box, so that the little chicks can run around with comfort.

The best farm incubator is the one that runs itself and that can be depended upon to hold the heat even in cold weather. Lots of times argument is made on one or two special advantages. Usually these are real advantages but they are played up to make the reader overlook defects in some vital point which cannot be corrected because others hold exclusive patents, as for example our Old Trusty heating system. We have exclusive patents on this system.

This year as eggs and poultry are high, there is a tendency on the part of small town folks to get into the business. We make an Old Trusty in 100 to 120 size with a California redwood case that is adaptable for such folks. Also it's less expensive. With 120 eggs and this little Old Trusty 'Special' you can start in the poultry business and in seven months

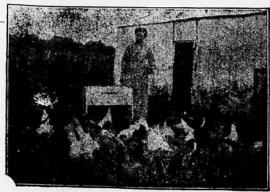


Table Scraps Make Good Feed

time have a good sized flock of layers. The cost would be about \$16 to \$17 for pure bred eggs and the incubator.

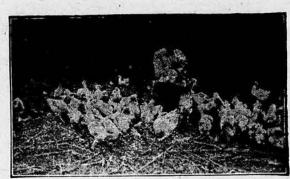
A flock of only 50 laying pullets this fall should be worth \$50.00 at \$1.00 each, or if kept for layers should bring twice the amount in income. In most families, some member makes the incubator their special care and it does not interfere with the work. The spring fries are welcome to the family table or bring big market prices.

It has been our experience that an investment of a few dollars to start early hatching means 200 to 400% profit. On a bigger scale it wouldn't do it, of course. In fact the money in poultry is in carrying it on in a small way. I am not, you see, offering you a proposition that means a fortune or bankruptcy, but just a plain business proposition and it makes me less than \$1.00 and you from \$40.00 up according to the attention you want to give it.

At this writing we have a little over 700,000 customers. We have dealt with more poultry raisers and sold three or four times as many incubators as any other concern that I know of. I believe this success is due, first to our practical common sense incubators and brooders; second to our knowledge of poultry raising as 95 per cent of the people have to raise it; third to our plan of facing the proposition fairly, striking the average without playing head lines of sensational and unusual successes, of which we have our share; and fourth to our settling down to business here in Clay Center, Neb., among the people who bought our first machines.

We built from the ground up, and have grown year by year. We stuck hard and fast to making incubators and brooders, built with a construction that was right in the first place and that did not call for changes every year, or new faddish frills to help them sell.

We have always tried to give a well-rounded value, a proposition with meat on the bone, so to speak. Yet we do not sell anything for less than it costs. Our profit is a fair one, about seven per cent, so that it is not necessary to as



Are You Selling Eggs or Buying Them?

Now, Reader, it would not be good business for me to urge you to take up something that you could not make money on. So whether you decide to do business with us or not, let me give you this one point. There's good money to be made in poultry raising. This year is a year of opportunity—meat prices are high and it looks as though they will be higher. With the increasing cost of living everywhere, poultry could prove more than handy to help square off the table expenses.

Our new annual catalog deals with profitable poultry raising and we are always glad to send a copy free. Also we like to write letters. If you have any poultry troubles, tell us and maybe we can offer a suggestion or two that would fit, Write for our book anyway and let's get acquainted.



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

Tow Write a letter if convenient and tell us your poultry troubles. Mention how many chickens you keep, whether hens lay in fall and winter, whether you have used an incubator and have been successful.

◆ Address



Get a Powerful Tractor at a Popular Price

ERE is the tractor that any farmer can afford to own. Low in price, yet built right up to the highest ideals in powerful construction. A wonderful motor—and mounted so that it gives the fullest measure of its power in pull at the draw bar or on belt work. Simple construction—has only two-thirds of the parts used in most other tractors. Self-guiding in furrow. Low in upkeep cost, easy to operate. Backed by many years of manufacturing experience.

La Crosse **HAPPY FARMER Tractor**

Two models—Model "A" has won its way into popular favor by its really remarkable performance in the field and for general farm power purposes. "Seeing is believing" and doubters have been converted by seeing the tractor at work in their neighbors' fields, and then purchased La Crosse HAPPY FARMER Tractors in preference to other makes and types. From the hard, dry, tough virgin sod of Montana to the "squashy" rice fields of Arkansas, the La Crosse HAPPY FARMER Model "A" has made good. And it costs only \$385.00 f. o. b. factory at La Crosse, Wis.

The La Crosse HAPPY FARMER Model
"B" is our new and successful kerosene

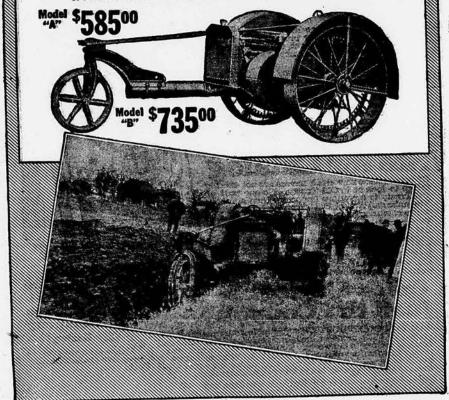
\$735.00 f. o. b. factory. Equipped with twin-cylinder motor, Hyatt Roller Bearings throughout—our successful universal hitch. It is by far the lightest, simplest and most powerful tractor of its class. Contains many important original features which are fully described in our catalog, You'll buy a La CrosseHAPPY FARMER Tractor—or you'll wish you had. Write us and let us help you save money both on first cost and upkeep, and on work.

on work.

La Crosse HAPPY FARMER TractorDrawn implements embody the latest
correct ideas and arecarefully designed
for both quality and service. Send for
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We have a Distributor in your territory for prompt service





MUNICE STATES



FARM POWER

Items of Interest About Automobiles, Engines, Tractors, and Motorcycles

THE best advice I can give to you farmers is to stop working so hard, and do some play. Buy an automobile, and use it for plaything, not merely for farm work." This was the advice that came unexpected to a ddress between address between a

pectedly in the course of an address before the Missouri farmers in the farmers' week conferences of the University of Missouri, from R. S. Kellogg, secretary of the National Lumber Manufacturers' Association, in his talk on farmers the secretary of the National Lumber was the secretary of the National Lumber Manufacturers. said that the farmer was the greatest user of building material in the United States, the total value of all farm buildings being in excess of four billion dollars. structures. In prefacing his subject he

His argument in favor of the automobile as a farmer's plaything was:

"A prominent physician says that notwithstanding the supposed healthiness of farm life, a very rige proportion of the farmers have gether too. high blood pressure, and are easily subject to diseases which men in a normal condition can resist. He says that this is due chiefly to the fact that the farmer's life has been all work and no play, and for this reason the advent of the automobile has been the greatest health-producing factor in farm life. Since the plaything is rather an expensive one, it demands good care. An automobile should have a house of its own, and not simply be run into the barn wherever handy, or put under a shed. Garage construction is so simple that the farmer and his boys can build a garage themselves, if so disposed, and the total outly need not be more than that required to purchase 2,000 or 3,000 feet of lumber and a few shingles."

Electric Light Improvements

With scarcely an exception, the cost of production and distribution of every commodify has markedly increased, in scent, years, save in the case of the electric light. This has as steadily decreased. It is now entirely possible to the electric lighting as for instance. obtain electric lighting, as for instance, with an ordinary 60-watt Mazda lamp, at the cost of one watt of energy consumption per candle power. Besides this remarkable increase in the efficiency of the lamp, the cost of the electricity supplied shows a similar reduction. In fact, plied shows a similar reduction. In fact, it seems very probable that the latter trend will continue rather than the former, inasmuch as further improvements in the lamp itself become increasingly difficult to put into commercial use.

For the automobile driver this means enhanced pleasure and greater safety. His old-style 9-volt headlights, for example, if replaced by the new Mazda B and Mazda C lamps, will give approximately 18 and 27 candle power, respectively. That is an increase of about 20 per cent in candle power, at the same usual rating of two amperes of current and nine volts. Some clear idea of the lighting effects may also be had by comparing with the illumination from an old style carbon filament lamp, of 16 candle power consumption from 56 to 60 watts. In point of expense this is at a cost of three and one-half watts per candle power, compared to the watt per candle power of the above Mazda automobile lamp.—W. S. ALDRICH, Colorado Agricultural College.

Conveniences on Farm

One of the chief factors working against the back-to-the-farm movement is the drudgery usually connected with seek city employment because of the conveniences and labor-saving devices there enjoyed.

In contemplation of a move to the country it is possible to count on having practically all of these conveniences. In many cases the lighting, heating, water supply, and rapid transportation of the city are being introduced on the

The old kerosene lamp is being dis-placed by the modern acetylene lamp or other improved type for each individual room, or in many instances the acety-lene plant which lights all the farm buildings. A farm electric light plant is another possibility. Central heating plants, artificial gas plants, and even

HIGH STAN

electricity can sometimes be used to advantage in heating farm homes.

One of the cheapest and most popular labor-saving machines is the gasoline engine, which not only does the plowing, hauling, feed grinding, and separating for the farmer, but also furnishes a motive power for washing and churning for his wife. The gasoline engine, which does practically all laborious work on the farm, is one of the most important contributions to the back-to-the-farm movement. movement.

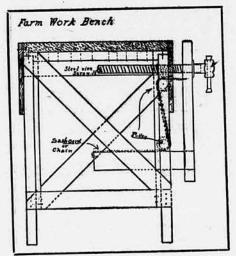
By means of the compression water by means of the compression water system, drawing, pumping, and carrying water can be eliminated. Scrubbing and washing windows can be done by the hose, which also makes possible an attractive lawn and fresh vegetables from a well watered garden. The inaccessibility to town is gardened as a great read and read reads. a well watered garden. The inaccessibility to town is overcome by good roads and slow transportation by the automobile and the gasoline truck. The daily paper is brought to the farmer's door by the rural mail carrier, and the telephone keeps him in touch with news, business, and professional services.

As a result of these city devices and comfort being taken to the rural districts, a social center is made possible where the members of the farm home

where the members of the farm home recieve practically all the culture and enjoyments of the city family.—E. V. FLOYD, K. S. A. C.

Handy Bench Device

The device here illustrated is a simple one requiring twenty or thirty minutes' extra time to install. It will save many times its cost. Cut out a slot under the vise screw on the inner jaw or bench leg and attach a sash cord or



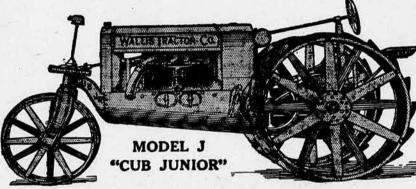
chain as shown in the drawing. The operation of the vise screw makes the lower end of the jaw travel in and out just as the upper part of the jaw travels. Being always parallel, it requires no reaching down to adjust by putting a pin through the traveler.—CLARENCE J. SMITH, Hays Normal School. chain as shown in the drawing.

At this time of year much damage is done to automobile engines, and other engines as well, by the pistons seizing the cylinder. This causes the cylinder walls to be scored, and in many cases they are practically ruined. The reason for this is that in cold weather cylinders and water jackets warm slowly, while pistons and rings get hot and expand with the first few explosions. Therefore, if the engine is allowed to run at a high rate of speed before the whole engine is warmed up, damage is apt to occur, especially with comparatively new cases which have pistons fitted very tightly. This condition is aggravated because oil does not run freely in cold weather. There is nothing to be gained by allowing the engine to race, while there is considerable to lose. There is no harm in allowing it to run idle at a fair rate of speed until it is warmed.

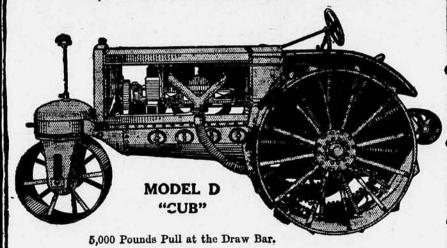
The work of the storage battery is harder in winter than in summer, as the engine is cold and hard to start. You can save the energy of the battery by priming the cylinders so the motor will start more easily. The battery is much more apt to freeze when its gravity is

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2,600 Pounds Pull at the Draw Bar.



—are made for the discriminating farmer who makes his purchase, not on the basis of first

his purchase, not on the basis of first cost, but upon the continual daily service the epuipment will render over a period of years. The first essential of our machinery is Quality. We make good in our slogan "Quality goes in before the name goes on," by trained designers, engineers, workmen and countless tests and inspections under the most rigid supervision.

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Five years ago we said

we would build the best Tractor made, regardless of price—and the now famous "Cub" was the sensation of the Tractor world when it first came out. Since then its past daily performances, world's plowing records, 1,000 mile durability runs and hundreds of enthusiastic owners are constant testimonials of its supremacy.

We now announce its

little brother the "Cub, Jr.", which we are placing on the market only after having built and tried out three different small Tractors of various designs and types. It marks an epoch in Tractor building. Engineers the world over have ever striven to produce a Tractor developing a draw bar pull equal to its weight. The "Cub, Jr.", weighs 3,000 pounds and has a guaranteed D.B.P. of 2,600 pounds.

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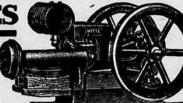
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80 years. —ED, H. WITTE.



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L. L. TUCKER, Pres., Kansas Wesleyan Business College SALINA, KANSAS

State Pig Club Winners

HE third annual Kansas Pig Club promoted by the Kansas Agricul-tural College and the Federal De-partment of Agriculture, closed with December, 1916.

Since the judges could not see the pigs but had to depend entirely upon the papers sent in by the contestants, a credit of 40 per cent was allowed for records and story, including accuracy, neatness, completeness, and certified statements as to the important weights and figures submitted.

and figures submitted.

Standard prices for all feeds were agreed upon by the judges so that all contestants would be given an equal chance as to the items of cost. The first cost and the selling price of each pig were both figured at 10 cents per pound.

The five winners in this pig-feeding contest and the figures showing the different points upon which the awards were based, are as follows:

Walter Earl Delfelder, Atchison County, first prize: Pig's age in days when contest began, 84; pig's weight when contest began, 80 pounds; total cost of all feeds, pasture, etc., \$15.61; total cost of all feeds and first cost of pig at 10



WALTER AND HAROLD DELFELDER, ATCHISON COUNTY, AND THE FOUR PIGS WITH WHICH THEY STARTED

cents per pound, \$23.61; weight of pig at close of contest, 355 pounds; final value of pig at 10 cents per pound, \$35.50; net profit, \$11.89; number of days pig was fed, 132; average daily gain, 2.08 pounds; total gain, 275 pounds; cost per pound of gain, .0567 cents; grade given for records and story, 38; final grade given by judges, 92.

Melvin Jung, Rice County, second: Pig's age in days at start, 60; weight at start, 29 pounds; total cost all feeds, \$15.33; total cost all feeds and first cost of pig at 10 cents per pound, \$18.23; weight of pig at close of contest, 330 pounds; final value of pig at 10 cents per pound, \$33; net profit, \$14.77; number of days fed, 168; average daily gain, 1.79 pounds; total gain, 301 pounds; cost per pound gain, .0509 cents; grade for records and story, 37; final grade of judges, 88.3.

George Harold Delfelder, Atchison judges, 88.3.

Judges, 88.3.

George Harold Delfelder, Atchison
County, third: Pig's age in days at
start, 84; weight at start, 70 pounds;
total cost all feeds, \$15.61; total cost all total cost all feeds, \$15.61; total cost all feeds and first cost of pig at 10 cents per pound, \$22.61; weight of pig at close of contest, 321 pounds; final value of pig at 10 cents per pound, \$32.10; net profit, \$8.49; number of days fed, 132; average daily gain, 1.9 pounds; total gain, 251 pounds; cost per pound gain, 0621 cents; grade for records and story, 38; final grade by judges, 85.2.

John W. Reed, Rice County, fourth: Pig's age in days at start, 56; weight at start, 45 pounds; total cost all feeds, 12.56; total cost all feeds and first cost of pig at 10 cents per pound, \$17.06;

of pig at 10 cents per pound, \$17.06; weight of pig at close of contest, 275 pounds; final value of pig at 10 cents per pound, \$27.50; net profit, \$10.44; number of days fed, 163; average daily gain, 1.41 pounds; total gain, 230 pounds; cost per pound gain, .0546 cents; grade for records and story, 36.5; final grade of judges, 84.2.
Orville Caldwell, Lyon County, fifth;

Orville Caldwell, Lyon County, fifth; Pig's age in days at start, 84; weight at start, 46; total cost all feeds, \$12.81; total cost all feeds and first cost of pig at 10 cents per pound, \$17.41; weight of pig at close of contest, 295 pounds; final value of pig at 10 cents per pound, \$29.50; net profit, \$12.09; number of days fed, 153; average daily gain, 163 rounds; total gain, 240 gain, 1.63 pounds; total gain, 249 pounds; cost per pound gain, .0514 cents; grade for records and story, 32; final grade of judges, 84.

The same problems confront these young feeders as must be overcome by their fathers in their pig-feeding opera-tions. To be successful they must keep the cost of the feeding operations as low as possible, yet the pig must be kept in a thrifty, growing condition, and must have all the feed he will use in

must have all the feed he will use in making a steady daily gain.

The following letter written by Walter Earl Delfelder, who won the state championship honors in the above contest, gives some of the details of his work in feeding his pig:

"To be a successful pig feeder you must have the right type of hog, or at least the one that I had my success with is the long smooth kind, called the large type Poland China. I became interested in this contest because I had interested in this contest because I had read where boys and girls had raised pigs and I could not see why I could not do just as well.

"I weaned my pig at ten weeks old and began feeding him. At the age of twelve weeks I vaccinated my pig. I used double vaccination because single vaccination lasts only six weeks and I wanted mine vaccinated for life. For fourteen days after vaccination I gave him all the fresh water he wanted. I gave him some skimmilk and some corn, but not very much was fed.

"I fed my pig corn, shorts, and skim-milk. Corn was fed to make him fat; shorts and skimmilk were fed to make him grow. When he did not eat all of his feed out of his trough, I knew I was feeding him too much and I did not give him so much next time. I fed him

twice a day.

"The shed I gave my pig was open on the south to admit sunlight and to let in fresh air. I kept the lice from him, because lice stunt a pig's growth.
"I have enjoyed this contest very
much and have learned how to feed hogs

and care for them.

"In 5 months and three days the total amount of corn fed my pig was 596 pounds; shorts, 220 pounds; skimmilk, 1,360 pounds. The value of corn was \$8.20; of shorts, \$3.25; of milk, \$3.40; of pasture, \$1.69, making a total of \$16.54. I won \$10.00 premiums at the Atchison County Fair. My hog was sold for \$35.00 for \$35.00.

"I began feeding my pig for the contest when he weighed 80 pounds; at closing time he weighed 355 pounds, making a total gain of 275 pounds. The cost I have estimated here is not the total cost but only the cost of feed and nesture: interest risk vaccination and pasture; interest, risk, vaccination, and labor are not included."

While a large number of the pigs entered in this contest were grades, it may be of interest to know that the five champions were all purebred pigs and all but one registered—a strong recommendation for purebred stock.

A comparison of Walter's cost figures

and those shown in the detailed stateand those shown in the detailed state-ment of his results given at the begin-ning of this article, will show a differ-ence. As stated in the second para-graph, standard prices for all feeds were agreed upon by the judges, as this is the only fair way to do in a contest, and this explains the difference between the two sets of figures. Walter gave the two sets of figures. Walter gave his actual cost figures, while the other figures are based on the uniform feed prices used in determining each boy's profit.

Agricultural club work for boys and girls is well worthy of encouragement. It not only provides remunerative employment for the idle hours, but through this work the children learn valuable lessons. They learn to apply themselves and to work intelligently, which is a good business experience for them.

It is usually best to separate the ram from the pregnant ewes during the winter. If he is allowed to remain, he will greatly annoy them. He will also fret more and become run down in condition. A mixture of oats and bran, as a grain ration, and clover or alfalfa as roughage, will keep the ram in splendid shape throughout the winter. It may be well to feed him sparingly on corn silage of good quality, if available.

B. Needham of Rantoul is the newly elected State Master of the Grange. Secretary A. E. Wedd was re-elected. The usual committees were elected and are at work to make a good year.

When wet mashes are fed, be sure they are crumbly and not sticky.

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Just suppose you give an agent \$20.00 for trees. He turns \$12 over to the retailer who in turn counts off \$5 for himself and hands over \$7 to the wholesaler. The wholesaler has sticky fingers, too, so he hangs onto \$2 and passes on exactly \$5 to the grower. In other words-the grower gets \$5 to fill your \$20 order and you simply donate \$15 in hard cash to three strangers. That's the OLD way—the money wasting way of buying nursery stock.

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Look where you will, you can't get better bargains in trees than I offer you right here. Compare my 'way down prices-compare the quality I offer and absolutely guarantee and remember that I save you all middle profits and I'm sure and certain that you'll say "Dunbar has the right idea—he gets my orders from

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	APP	LES		
1	dach	10	100	1,000
2 yr. 5-6 ft\$ 2 yr. 4-5 ft	0.20	\$1.80	\$17.00	\$160.00 120.00
2 yr. 4-5 ft 1 yr. 8-5 ft	16	1.40 1.40 1.00	18.00	110.00
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Yellow Transpa	rent.	Grime	s Golde	n, Deli-
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nome Beauty, an				
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	Bach	10	100	1,000
2 yr. 5-6 ft\$	0.30	\$2.40	\$20.00	\$160.00
2 yr. 4-5 ft		2.00		140.00
PEARS-15	LEAD	ING T	VARIET	IES
2 yr. 5-6 ft	Bach 0 32	\$3.00	\$25.00	1,000 \$210.00
2 yr. 4-5 ft	.25	2.25	20.00	170.00
and the same of th		RRY		
- 1	Bach	10	100	1,000
2 vr. 5-6 ft	0.40	\$3.75 3.25	\$33.00	\$280.00
2 yr. 4-5 It	.36	3.25	27.00 28.00	226.00
2 yr. 4-5 ft Extra 1 yr 4-5 ft. Large 1 yr 3-5 ft.	.34	3.30	26.00	220.00
		2,20	19.00	170.00
Early Richmon	d, E	nglish	Morello	
morency, Wragg,	and	other	standai	d sorts.
COMPASS				MI
4-5 ft	Bach	\$2.30	\$22.00	1,000
8-4 ft	.20	1.90	18.00	
-		CH		
	Each	10	100	1,000
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1st class 3-4 ft 1st class 2-3 ft	.13	1.20	11.00	90.00 75.00
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Carman Champi	on.	Chinese	a Cling	Heath
Cling, Belle of G Elberta, and man	ay of	hers.	orta Cit	ng, Late
EARLY				
3-4 ft	Each 10.40	\$3.50	\$30.00	1,000
2-3 ft	.35	3.00	25.00	
	PLI	JMS		
	Each	10	. 100	1,000
Extra 5-6 ft Large 4-5 ft	0.32	\$3.00	\$24.00	\$200.00
Large 4-5 ft	.27	1.90	20.00	170.00 130.00
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3,000 to		5,000	pla	nts	5%	discou	nt.	
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(With spring cable loop). No wires to break.
Sold direct on 30 days free trial. Agents
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pure-bred poultry with quicker returns than from anything else raised on the farm. This last year we sold poultry as breeders, eggs for hatching, and fries and broilers, and counting what we have on hand and that consumed at home, we made \$800 from our sumed at home, we made \$800 from our

poultry business in 1916. We have built up our poultry business largely through farm paper advertising. Two-thirds of our sales were the result farm papers. Every successful farmer or poultryman must use plenty of advertising space in order to sell his product to the best advantage. There is no other way to let the public know that we have surplus poultry and eggs for sale. Advertising has done a great deal

to advance the poultry industry.
We have always had better results from the farm papers than from special poultry papers or journals. It is farmers that do the buying of stock we have to offer, and they watch closely the advertising columns of their farm papers during the season when they need stock or eggs. I have had some unpleasant or eggs. I have had some unpleasant experiences in dealing with some of the large display advertisers in poultry journals. Some of them advertise and describe high class stock, which is in reality low grade stock. Last November I saw a large advertisement in a poultry journal of high class, show-winning cockerels. I was needing a good male to head one of my pens of Single Comb White Leghorns. I wrote to this advertiser, giving description in full of the kind of bird I wanted. He answered that he had exactly what I wanted in a ten-dollar cockerel that had won first at a certain state show. I sent my check for the bird and when he came I considered him only fit for the dinner pot, worth perhaps about fifty cents. I looked up the show records of the show where it was claimed he had won first, and found this prize had gone to another person. I immediately sent this bird back to his owner and got my money back. I then ordered a cockerel from the classified columns of a farm paper and got a bird worth at least twice what I paid for it.

We are in the poultry business to

stay and patronize the farm papers because they furnish the best means of disposing of our surplus stock and eggs. We have been breeding the Single Comb White Leghorns for four years and have been very successful in the show room, but we consider their laying qualities worth far more to us than their winnings in the show room.—Mrs. S. A. Hefner, Grady County, Okla.

Strongest Chicks Hatch First

The baby chick season is at hand. It will be but a few days until many poultrymen will begin to make preparations to hatch baby chicks to renew at least a portion of their flocks. The purpose of this article is to call their atten-tion to some things which should be given some consideration, especially when the price of feed is as high as at present. Unprofitable drones that are hatched are a source of considerable loss to the average poultryman, and incuba-tors are a necessity and must be used if chicks are to be hatched in large num-

bers and if you expect to succeed.

From what experience I have had, from what tests I have made and from what experiments L have conducted, I feel safe in saying that the first half of the chickens which hatch in an incubator contain 90 per cent of the profit makers in that hatch. Ninety per cent of the last half of the chicks hatched will lose you money if kept to maturity. Our experience has been that the first ones hatched mature quicker, grow more rapidly; lay first; lay most eggs; make the best use of their food; and are more robust and healthy. The last half hatched contains most of the chicks lowest in vitality and those which are a menace to your flock. You will find most of the unprofitable ones in the last half of the eggs which hatch in any setting. A very small per cent of the last half of any hatch will ever pay you to keep beyond the broiler or frying age. If you can mark them and thus dispose

of the tailenders, you will be breeding from the best in your flock and will soon have a flock that is full of pep,

vitality and profit making ability.

The fact that a chick grows rapidly in the shell and makes good use of the food which nature has placed there for its use during the first 20 days of its growth and development, and then hatches and beats another chick out of the shell from six to twenty-four hours. the shell from six to twenty-four hours is an almost sure sign that the first will beat the last in the race of life and at every stage of its existence. There are exceptions, but this is the rule. Mark the first one-third or one-half of your chicks that hatch and try this out. It is an almost certain indicator of the profitable and unprofitable chicks. If you have to raise and carry half of your flock at a loss, you can readily see what a saving could be made by this

If you don't own a good incubator, you had better purchase one at once. It is utterly impossible to hatch and rear a large number of chicks by the hen method. You can hatch just as large a percentage in a good machine as you can under hens, in fact larger in most cases. The chicks are just as strong and healthy if you use any judgment in operating the incubator. Many people imagine that you have to sit up with them at night, which is not a fact. The largest and best farms use them, and they are in the business for the and they are in the business for the money that there is in it, and if any other method paid better, they would

By using incubators you are able to hatch early chickens and hatch them when you want them. You can keep when you want them. You can keep your best hens busy laying. You do not need so much surplus stock and thus save enough feed in one year to pay for a good incubator. You can pedigree some of the chickens from your best stock. You are saved the trouble with fussy hens, broken eggs, lice, and many other disagreeable features of the hatching business. Clean up your machhatching business. Clean up your machine and if it is out of repair so that it is not safe to use it, buy a new one. Get it now, so that it will be ready when you need it.—T. E. QUISENBERRY, Leavenworth.

Frozen Combs and Wattles

We have been asked how to treat frozen combs and wattles.

Freezing of the combs and wattles of poultry greatly reduces egg produc-tion, decreases their show qualities and

may injure them for breeding purposes.

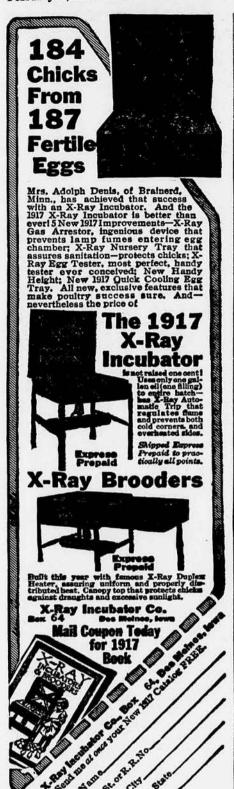
The large upright-combed birds are most succeptible. The wattles are likely to freeze first, since they are apt to dip in the water when the birds are drinking, and freeze while wet. can be partially prevented by annointing the wattles with vaseline, thus keeping the water from adhering.

The following is a treatment for frozen parts, recommended by C. S. Anderson of the Colorado Agricultural College: Place the bird in a cool but not cold Immerse the frozen parts in snow or cold water for ten minutes. This will take out the frost. To restore complete circulation, the parts should be manipulated twice a day with a mix-ture of five parts vaseline, two parts of glycerine and one part of turpentine.

Breeding Early Layers

The first thing to consider in getting chickens to lay early is the selection of









DAY-OLD CHICKS

of quality guaranteed to 1,500 miles. Eggs for Hatching at low prices. Bar. Rocks, S. C. W. Leg-horns, S. C. and R. C. Reds, W. Wyandottes, Buff and W. Orpingtons. Chicket catalog free. GOSMEN POULTRY FARMS, B. 37. Gechen, Indiana

WHEN WRITING TO ADVERTISERS PLEASE MENTION KANSAS FARMER

the stock. Select those chickens that have breeding back of them. High egg-producing qualities in the parent stock, early hatching, careful and considerate feeding, and proper housing are all fac-tors which tend to produce early layers.

In an experiment at the Kansas Experiment Station two pens of Aprilhatched pullets were used. In one of these the pullets had been bred to lay while the others were common pullets. Ten eggs were gathered from the first pen in November, 337 in December, 296 in January, and 176 in February. In the pen of common pullets no eggs were laid in November, 66 in December, 190 in January, and 132 in February. The value of getting the hens to lay early value of getting the hens to lay early is seen readily, as this is the time of the year when the eggs are of the greatest value.—Ross M. Sherwood, Kansas Agricultural College.

Eggs Are Scarce—Why?

We have asked this question many times as we have met farmers. The men have not explained it. But, several farm women have told me that the reason their hens are not laying now is because of the scarcity of grain on the

These women say that the chickens usually pick up enough feed to keep them in good condition. Now there is no grain on the farm for the hens.

As nearly all the eggs produced in the country come from farms where hens are kept only to pick up the waste, the hens which are kept by people who make a business of poultry raising can-not supply the market fully when the country hen goes on a "strike" because J. E. PAYNE, Oklahoma. 6 FEB 11

Seasonable Poultry Hints

This should not be a dull month for progressive poultrymen. Now that the been disposed of, the pens of the coming season can be made up. Matings should be make at least two weeks previous to

Only the strongest pullets or yearling hens should be selected and mated with a male bird of equal vitality and thrift. a male bird of equal vitality and thrift. If egg-production has been backward through the early winter, a slight stimulant can be given. If sprouted oats, alfalfa leaves, or vegetables are available, they will make valuable feed. Too much concentrated protein feed, such as meat meal, should be avoided, as it is likely to impair fertility. likely to impair fertility.

Before the matings are made, all the houses and pens should be cleaned and well disinfected. No matter how strong individuals they are, hens cannot do their best when infested with parasites. The brooders and incubators should be cleaned and repaired. It may be advisable to build additional runs or another house

Why not install a few trap nests and next year at this time know the actual production of each hen in your breeding pens? It is the one certain way of eliminating the low producer and building

up the flock.

Have you considered any addition to your poultry yard? Poultry of all kinds has been paying this year, and is bound to be more so in the future. Perhaps a small trial with turkeys, ducks, geese, pigeons or capons will prove profitable.

If you intend to have hatching eggs,

or day-old chicks for sale in the season, start now with a good ad in some real live poultry paper.—C. S. ANDERSON, Colorado Agricultural College.

J. P. Farnsworth of Shawnee Co., furnishes accurate records of a pen of eleven Barred Plymouth Rock hens kept on a city lot. During the year 1916 they laid 1,927 eggs. During the hatching season he sold several hundred for hatching. He received for eggs during the year \$62.34, from sale of cockerels, \$44; pullets, \$46.00; or a total of \$152.34. Feed and other expenses amounted to \$55.79 leaving a net profit of \$96.55. Of course this is exceptional from the standpoint of the farmer but shows how profitable a few hens can be.

For the first three days chicks may be fed a mixture of equal parts hard-boiled eggs and stale bread, or stale bread soaked in milk. When bread and milk are used, care should be exercised to squeeze all milk out of the bread. From the third or fourth day until the chicks can eat wheat and cracked corn, commercial chick feed is a good ration.

Bran or middlings and beef scraps should be kept in receptacles to which the fowls have access at all times.

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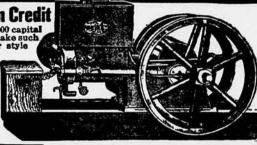
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My Free Incubator Plan Book tells you exactly how to build the best incubator that can be built. You can build any capacity incubator, single 150-egg size, or Multidek up to 1200 egg capacity—hot air or hot water heated. You can't go wrong and it means a big cash saving to you. I'll supply all the necessary mechanical parts, not easily made by you, at low cost. They insure you a troubleproof machine of highest efficiency at lowest operating expense.

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We want to tell you how to prevent chicks from dying in the shell just at hatching time, how to save them from White Diarrhoea or Bowel Trouble; how to build the best Home Made Brooder in the world from an ordinary box or change your old one.

Above information absolutely free, for names of five to eight of your friends that use Incubators. Send names today.

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PARTS FOR Kansas, REPAIRING SHAWNEE CYCLE CO. TOPEKAKANSAS

well-ventilated cellar is the best place to operate the incubator. The ma-chine should be operated according to the manufacturer's directions.

光記をは光記を大学

J. W. Anders, Liberal, Kansas, raises

about 100 head of turkeys each year. He says: "Turkeys do exceptionally well on these western prairies. Kafir, "Turkeys do exceptionally milo and wheat are the best feeds and turkeys get the advantage of grasshop-pers each season."

Industry is in itself, and when properly chosen, delightful and profitable to the worker; and when your toil has been a pleasure you have not earned money merely, but money, health, de-light and moral profit all in one.—Ros-ERT LOUIS STEVENSON.

Are You Going to Manhattan?

The annual Farm and Home Week at the Kansas Agricultural College, which will this year be held February 5 to 10, offers a Home Economics program which will be of practical value to every homemaker and housekeeper who attends. It is a full four-days program and some of the vital questions which will be discussed are as follows:

Tuesday, February 6: "The Business of Being a Homemaker"; "The Ideals of of Being a Homemaker"; "The Ideals of the Home"; "Standardized Household Operations"; "Scheduling of Household Tasks"; "What the Government and State are Doing to Help the House-keeper"; "Desirability of a System of Keeping Reliable Household Records"; "Tayndry Hists and Holes"

Keeping Reliable Household.

"Laundry Hints and Helps."

Wednesday: "The Principles of Human Nutrition"; "The War and the Food Question"; "Diet for Children"; "The Housewife as a Purchasing Agent"; "A Wo-"The Housewife as a Purchasing Agent";
"Uses of Paper in the Home"; "A Woman and Her Clothing"; "Clothing for
the Children"; "My Greatest Aid in Sewing"; "The Development of Judgment in
Buying of Clothing Materials"; "The
Place of Domestic Art in a Girl's Education"; "The Essentials of Success in
Homemaking."
Thursday: "Child Life in Relation to

"Child Life in Relation to Thursday: "Child Life in Relation to Community Life"; "The House of Mod-erate Cost"; "The Glenwood Canning Club"; Canning demonstration by two Mother-Daughter teams from the Glen-

wood Club.
Friday: "Safety and Beauty for the Family"; "Sanitation as Applied to Living Conditions"; "The Home Nurse"; "Principles of Color and Design Applied "Principles of Color and Design Applied to Clothing and House Furnishings"; "The Home as a Social and Civic Factor"; "The Home as a Social Center"; "Woman's Responsibility Towards Civic Affairs"; "Training the Child for Citizenship"; "How Far is Home Responsible for the School?"

All these subjects will be handled by capable people and there will be oppor-tunity for discussion at each session.

In addition to the above program designed specially for the women, there will be interesting general sessions and sessions for the state club boys and girls, at any of which all will be welcome.

1917 Boys' and Girls' Clubs

The 1916 boys' and girls' agricultural club work conducted by the Kansas Agricultural College and the U. S. Department of Agriculture, closed with many good records in all lines. Each year shows increased interest in the club work and better results. There are corn clubs. pig clubs, poultry clubs, squareclubs, pig clubs, poultry clubs, square-rod garden clubs, sewing clubs, canning clubs, and a number of other kinds. The details of the club work are supervised by Otis E. Hall, State Club Leader, and his county and community leaders.

It is now time to enroll for the 1917 clubs and boys and girls should be encouraged to select the club the work of which they think they would like best, and send in their names to Mr. Hall or the county club leader. In counties having agricultural agents, these men can answer all questions about the different clubs. If your county does not have an agricultural agent and you do not know who the county agricultural club leader is, a card of inquiry addressed to Otis E. Hall, State Club Leader, Kansas Agricultural College, Manhattan, will bring full particulars regarding the club work.

Last week we told of the poultry club

winners, and other club winnings be reported. There could be no better recommendation for the club work than the members' own stories about it, each of which shows a development possible to bring about in few other ways. The more boys and girls we can interest in these clubs, the more contented, happy children will there be in our state.

Federal Bird Poster

The Federal Department has recently issued a poster headed "Feed the Birds This Winter." The following are extracts from this poster:

"Every local bird you keep from starving, when cold weather, snow, and

FERTILE KANSAS LAND CHEAP

Those who located in Central Kansas 20 years ago are the big farmers today. Their land has made them independent.

Your chance now is in the five Southwestern Kansas counties adjacent to the Santa Fe's new line, where good land is still cheap.

With railroad facilities this country is developing fast. Farmers are making goor profits on small investments. It is the place today for the man of moderate

Wheat, oats, barley, speltz, kaffir and broom corn, mile and feteritz grow abundantly in the Southwest counties referred to. Chickens, hogs, dairy cows and beef cattle increase your profits.

You can get 160 acres for \$200 to \$300

down, and no further payment on principal for two years, then balance one-eighth of purchase price annually, interest only 6 per cent-price \$10 to \$15 an

Write for our book of letters from farmers who are making good there now, also illustrated folder with particulars of our easy-purchase contract. Address

E. T. Cartlidge,

Santa Fe Land Improvement Co., 1892 Santa Fe Bldg., Topeka, Kansas.



Such Beautiful Flowers!

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Asters, Calliopsis, Caila, Clematis, Chrysanthemum—all these beauties and hundreds more pictured, described and attractively riced in Seculdes' By New 1917 Catalog of Field and Garden Seeds—tas off the press. Drop post card for free copy. Plant Barteldes' luxuriant flowers—the kind that grow, bloom and delight. Write Todsy, the kind that grow, bloom and delight. Write Today.

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Barteldes' Mijo Majze is a great drought resistant. Yields as high as 50 bushel per acre. Several varieties. Dwarf Straight-neck Mijo, White Mijo, Yellow Mijo, etc. Get the best—our seed is pure and high in germination. 50 years of success back every item in our catalog. FREE CATALOG. Send for it at once—filled to overflowing with descriptions and quotations of field and garden seeds. Get our special pink price list giving lowest price on field seeds in quantities.

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Write for Our New 1917 Annual A postal will bring it free, postpaid, It's chuck fullof Garden and Field Seed bargains. A book worth having. This year we list some splendid new varieties, such as our Shrock's Kaffir Corn, White Kherson Oats, White Worder Millet, Marquis Spring-Wheat, etc. We are headquarters also for Alfalfa, as we are the largest alfalfa seed dealers in the country. Our Corn Saver Beet for feeders of dairy cattle, our Hog Pasture Mixture and many other specialize in the seed line are worth investigating. We want you to get better acquainted with Lincoln Brand Seeds, the new trade name for well-known Griswold Quality Seeds. So, write for our new Seed Book today. Get our Special Bee Supply Catalogifyou are interested in bees.

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ice shut off its natural food supply, will repay you by destroying hundreds of caterpillars, grubs, borers, beetles, and insects that would prey on your flowers, vegetables, fruit, foliage, or field crops. Birds more than pay for their keep. It is better to feed birds a little now than to grow crops for insects later."

"Every destructive insect is on the bill of fare of one or more of our native birds."

Encourage all kinds of birds, as the various species prey on different kinds of insects. For example, the hairy and downy woodpeckers render a special service in the protection of trees. They glean pests from beneath the bark and from within the wood. They account yearly for many a scale insect, bark beetle, borer, caterpillar, and ant. The bobwhite, one of the most important of our game birds, renders particular service in cultivated fields by destroying large numbers of potato beetles, wireworms, clover weevils, bollworms, cutworms, army worms, and other crop pests. The bobwhite suffers particularly rom hard winters. A little suet or a little cracked corn and grain will keep these valuable feathered servants in your employ."

Cleaning Silver

An easy and effective method of cleaning tarnished silverware has been worked ing tarnished silverware has been worked out by the Federal Department of Agriculture. The necessary materials for this work are a graniteware pan deep enough to allow the silverware to be covered by the solution, a clean piece of aluminum or zinc—preferably aluminum—and baking or washing soda. The solution, consisting of a teaspoonful of baking or washing soda and a like amount of table salt to each quart of water, should be brought to a boil in a graniteware or enameled pan. A piece graniteware or enameled pan. A piece of aluminum or zinc should then be dropped in. Immerse the tarnished silverware in this solution so that it is in contact with the aluminum or zinc. The tarnish should disappear in a few seconds. Then remove the silver from the solution, rinse, and dry with a soft cloth.

Aluminum is much more satisfactory than is zinc for this purpose since it does not become coated with a layer of carbonates which would interfere with the chemical reaction. Zinc does form carbonates and if used must be cleaned frequently in dilute hydrochloric acid.

Sheet aluminum can be purchased at some hardware stores. A piece of a worn-out aluminum pan may be used, but should first be well cleaned. Do not use for this process of cleaning silver, aluminum utensils which will later be used for cooking.

If very large pieces of silver are to be cleaned and a container larger than can be placed conveniently on the stove, is required, the hot solution may be poured into this vessel and the silver object then immersed. The method is most effective, however, when the solu-tion boils during the cleaning process, and efficiency is rapidly lowered as the temperature of the solution falls below

the boiling point.

The above method of cleaning gives the silver a satiny finish after several cleanings. If a burnished surface is de-sired, the silver must from time to time sired, the silver must from time to time be cleaned lightly with a polish such as powdered whiting. In the study made, it was found that when whiting paste was used for cleaning, spoons lost al-most one-hundredth of a gram of silver each, or about twenty-five times as much as when the above method was used for cleaning them cleaning them.

"Pon Hause"—Meat Pudding

Since the butchering season is at hand it may be well to call to mind an old-fashioned recipe for "Pon Hause."

All meat not used for sausage shoulders and side meat—may be placed in a kettle to be cooked for "meat pud-ding." This includes the head, with tongue, heart, liver and all clean skins after lard has been stripped from them. To these trimmings add water and cook slowly until very done. Remove bones and largest pieces of meat, cut the meat into small pieces and place again in the kettle. Add water and thicken with corn meal and buckwheat flour, about equal portions. Cook slowly, stirring constantly, season to taste with salt, pepper and sage. When done pour in dripping pans. When firm, slice down. Serve cold or fry as mush.—"News Notes," Colorado Agricultural College.



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That mark is backed by fifty years' endeavor to put faultless woodwork into the homes of careful builders.

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They are "Better Built Homes," Vol. II — \$2700 and under; Vol. III — \$2700 to \$4500.

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10th & Oak Sts., KANSAS CITY, MO. 51st YEAR. Over 28,000 former Students. Our modern Building has 1s elegant Rooms, including FREE GYMNASIUM and Auditorium, 21 experienced Teachers and Lecturers. Day and Night Schools all Year. Free Employment Bureau. Shorthand, Typewriting, Book-keeping and English Branches. Catalogue" K." Free. J. F. Spalding, A. M., Prest.

A Romance of The Moonstone Canon Trail CHAPTER XXXII "Something's goin' to happen," stated Brand Williams. "How's that?" queried Bud Light. "See them two hosses—the Yuma colt and Boyar—?"

Smooth, Clean Potatoes

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OVERLAND REDI

"How's that?" queried Bud Light.

"See them two hosses—the Yuma colt and Boyar—?"

"Uhuh."

"Well, Boyar's been standin' there since daylight, saddled. Nobody rides him but Miss Louise."

"It's mighty early, but I don't see nothin' strange about the rest of it."

"Watt a minute, Bud. Did you see Collie this mornin? Was he all fixed up with his hair jest so, and his bandanna jest so, and his new sombrero and his silver spurs, and them new chaps, lookin' mighty important? He saddles Yuma and ties here over there. While he was eatin', the Boyar hoss trails his bridle over to where Yuma is tied. There they stand visitin' like two old soldiers on crutches instead of two mighty quick-actin' cayuses. Now that Yuma hoss has kicked the fancy linin' out of every cayuse that dast come nigh her. They're all scared of her. She's makin' an exception this mornin'. She's plumb friendly with Boyar. That signifies! Hosses can see farther in the dark than folks."

"Signifies what?"

"Well, after all the talk I jest wasted on you, it signifies that you're too thick-headed, Buddy, to waste any more on. I can learn you to spell if you wanta take lessons."

you, it signifies that you're too thick-headed, Buddy, to waste any more on. I can learn you to spell if you wanta take lessons."

"You're dreamin', Brand. Wake up! As to spellin'—I'm spellin' right now while the fo'man is entertainin' me."

"Thanks for callin' my attention to it. You can take your hoss and ride over to the Three Caks. There's some fence down, over at the North Spring. I ain't dreamin' about that."

Bud Light departed, swearing to himself. He disliked mending fence. Williams knew it. The cheerful Bud, "Reckoned he ought to 'a' known better than to try to ride the old man into the fence. Next time he would listen—and mebby learn something."

Louise, drawing on her gauntlets, came down the broad steps of the ranch-house. The November air was crisp with the tang of early morning.

She was puzzled at finding Boyar and Yuma together. She noticed Boyar had trailed his bridle across the yard—an unusual thing for him to do, considering his training. Louise spoke to the Yuma colt, who sniffed at her gloved hand. The girl wondered why Collie had saddled Yuma. He usually rode one of the ranch horses to work. She wanted to talk with him—to reason with him; for her knowledge of the previous night's disclosures worried and distressed her. She thought Collie's half promise to Overland Red to turn to their old life had been too easily made. Her pride in him was touched. She was hurt, and not a little ansry. She saw the flaw in his ultimate decision to sacrifice himself and his prospects through a too stringent and quixotic interpretation of his duty. To go back to the old life aga.:—a tramp!

But Collie was not to be seen. However, Louise knew that Collie would follow her. She was riding his pony, the Yuma colt, and he would be fearful for the rider's safety.

Colle, coming from the bunk-house, slanced up and saw Black Boyar standing alone where his own pony had stood. This was not an invitation; this was daring him to follow.

He rode into the canon, half conscious of Yuma's tracks as they sweryed toward a gr

"Coilie!"
Louise stood beside the sweating Yuma, pating the pony's neck. Coilie raised his sembrero formally.
Louise was bareheaded. The clear morning sunlight enhanced her rich coloring. Against the misty gray of the canon wall, her head in profile, as she stood beside the horse, was as delicately beautiful as that vision that imagination knows full well but may seldom realize.

vision that imagination knows full well but may seldom realize.
"Yes, ma'am."
"Collie, don't! Say anything but that. You look awfully glum. Surely not because I took Yuma."
"No. Only I was afraid for you."
"So you followed at break-neck speed to rescue the timorous, the despairing, and soforth?"
"I can't joke like that-this morning."

rescue the timorous, the despairing, and soforth?"

"I can't joke like that-this morning."

"Why? I'm here, safe enough. Had
breakfast?

"Yes. I wanted to see you about something, Louise."

"All right. But you are so unnaturally
tail and severe and judicial sitting there on
Boyar. You look almost funereal. Please
get down. Roll a cigaret and act natural.

I'm not going to scold you, sir."

"I wish you would."

"Why? What have you been doing that
makes you look so ashamed of yourself?

Tell me!"

"I didn't know I was."

"You don't act naturally. Is there some-thing about me that is different Is that

it?"
"No. I wish you was different, some-

"No. I wish you was different, some times."

"You do?"

"No," he said gently. "I don't wish you were different. I want to remember you like you are."

"To remember me?"

"Yes," he whispered, "to remember you."

He seemed to see regret, astonishment, questioning, gentle reproof, even a hint of amusement in her eyes. But her expression changed instantly. "I think you have something to remember me by; something you asked me for once, long ago. I sent it to you. You have never spoken of it—acknowledged it. I can't quite forgive that."

"Your glove, I know. I got it here." And he touched his breast. "I thought you would understand."

"I do. But, Collie, a girl always likes to

Overland Red.—Copyright, Houghton Mifflin Company.

be told that she is understood, even when she knows it." "I was going to write about getting your glove, at the hospital. I guess I was too tired."

"At the hospital?"
"Yes. Red sent it to me. Brand gave it to him to give to me—that time."
"Oh!" And Louise felt like retracting a little; but sweetly perverse, she obeyed sheer inswinct. "Collie, do you realize that I have to ask you again? Do you realize that I am standing while you are sitting your horse?"

horse?"
"I am begging your pardon, Louise."
The girl nodded brightly, smiling as she noticed the little scar on his chin—a wound that she had made him blush for when she had admonished him for fighting with Dick

had admonished him for fighting with Dick Tenlow.

She watched the rise and fall of the muscles of his arm, beneath his flannel shirt, as he lighted his cigaret. How broad-chested and strong and wholesome he seemed in the morning sunlight! There was an untamed grace about his movements, his gestures, which, together with his absolute unconsciousness of self, pleased and attracted her. "Yuma is a little wild, but she is a fine saddle-pony. I'm really jealous for Boyar's prestige."

"I was afraid for you to ride her," said Collie.

"I was afraid for you to ride her," said Collie.
"She behaves beautifully."
"Would you take her as a kind of present from me?" he asked.
"Give Yuma to me? I thought you loved

her?"
"I do. That's why I want you to have

"Give Yuma to me? I thought you loved her?"

"I do. That's why I want you to have her."

"He would give you away," said Louise, stroking Yuma's neck. "Give you away just as you're learning to trust him and perhaps even like him a little—and he says he loves you! Let's run away from him, Humming-bird!"

"I think I could stand it if you would just be mean once," said Collie.

"Stand what, Collie?"

He had been watching her shapely hand and supple, rounded wrist as she stroked the pony's neck. Swiftly she turned from the horse and faced him. "What, Collie?"

There was laughter in her eyes, a laughter that challenged more than his serious mood. Her lips were smiling. Her chin was tilted provokingly.

His eyes grew wide with unspoken love, unuttered longing. He delighted in the delicious curve of her cheek, and of her arm resting on the saddle. Her poise had an inexplicable suggestion of royal courage, as though she were battling for more than her lips could utter. In her absence he had adored her. Now he forgot all that he had meant to tell her in the sensous delight of her mere presence. But even that was not enough. He dropped the pony's reins and strode toward her. Louise paled even as he drew near, but he saw nothing but her eyes and her lips, lips that curved wistfully, provoking tenderness and love. For an instant Louise held her heart aloof. "Let me just worship you—a little while," he whispered.

"Only a little while?" she breathed; and the soft rose glowed in her cheeks.

"Just forever," he said.

And Louise Lacharme, more beautiful than the morning, Louise, his most gracious sen-

And Louise Lacharme, more beautiful than the morning, Louise, his most gracious senorita, his Madonna of the Rose, lifted her arms to him. Her lips quivered like a child's, tremulous with longing to tell him silently, as his lips found hers, all that her heart was giving and all the wealth of love it yet should give.

Gently his hands clasped her golden head. His whole being thrilled as he touched her hair, her cheeks, her lips. "Oh, Collie! Collie! Love me always," she whispered. And she drew him down to her breast and caressed his cheek, sighing and murmuring little endearments and sweet, broken words of love.

Moonstone Canon, coldly beautiful, echoed the hoof-beats of the ponies as they walked homeward.

homeward.

Louise turned in the saddle. "Collie," she said with an indescribable gesture of appeal, "you will always take care of me, won't you?"

"My Rose Girl! Why do you say that?"

"I was thinking of my father."

Louise saw his lips stiffen and his chin lift. "Louise, I had no right, just now—I haven't any right—I'm poor. The claim wasn't ours."

haven't any right—I'm poor. The claim wasn't ours,"

"I didn't mean that," she said, smiling wistfully, "But you will always care for me, won't you? I don't care one bit about the claim. It has made trouble and sorrow enough. I can't remember my father. I can hardly think of him as my father. Because it is horrible to think of his dying for water because he cared so much for gold."

"But how did you know?"

for water because he cared so much for gold."

"But how did you know?"

"I know," she answered gravely. "And I know that you are a very, very foolish boy, not to trust your friends more than you do. Did you suppose you would be happler or better in leaving Moonstone Rancho? Did you suppose I would be happler? Collie, you have so much to learn."

"I guess that's so," he sighed. Then his eyes brightened with his old-time mischief. "Couldn't you begin now to teach me a little—like back there in the canon?"

And being of a decisive habit of mind, he rode close to Louise and claimed immediate and delicious instruction.

"But how did you know?" he asked again—"about the claim and your father and me?"

"A secret that I share with Overland," "A secret that I share with Overland," she replied.
"So he told you! When? Not last night. He was asleep when I came away this morning."
"So he is here, then?"
"Louise, you're joking. Didn't Red talk to you?"
"No."
"No."

"No."

"And you know all about it already?"

He looked at her curiously for a moment,
"Did you know that I said I was going to
leave the Moonstone?"

"Why?"

"To Be Concluded.)

(To Be Concluded.)





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Pumping Water to Reservoir

C. E. B., Nemaha County, asks the following questions: "Is it practical to pump water 500 feet with about 40 feet elevation to the reservoir, using an ordinary windmill? I plan a single pipe line from mill to reservoir and will tap this at right angles with laterals

pipe line from mill to reservoir and will tap this at right angles with laterals for distributing water to tanks."

These inquiries are answered as follows by H. B. Walker, drainage and irrigation engines at the Kansas Agricultural College:

"It is logical to pump water 500 feet with a total elevation of 40 feet. I take it from your inquiry that the lift of 40 feet is the difference in elevation of the water in your well and the elevation of the water in the reservoir. A 500-foot pipe line would add considerably to your pumping head due to friction in the pipe line. The amount of this friction will depend upon the quantity of water depend upon the quantity of water pumped and the size of the pipe. For a 1-inch pipe, which I would recommend you to use, you would have 10 feet of friction in the 500-foot pipe line when

friction in the 500-foot pipe line when pumping 5 gallons per minute. If you should use a 3-4 inch pipe you would have nearly 40 feet of friction.

"By using the 1-inch pipe line your total lift would thus be equivalent to 50 to 60 feet, and the ordinary 8-foot back geared windmill operating a 2-12 inch cylinder should be able to pump the water into your reservoir. water into your reservoir.

water into your reservoir.

"By using lateral lines 3-4 inch or less in diameter and arranging so that you can have a gravity flow from your reservoir you should have no difficulty in the operation of your plant. However it would be best to have an air characteristic in the pipe line near the pump is order to overcome the water hammer in the pipe line."

Farm and Home Week6

We have just received a copy of the complete program for Farm and Home Week at the Agricultural College, February 5 to 10. It is the strongest in the history of this annual event, which brings hundreds of persons to Manhat brings hundreds of persons to Manhat-tan, both young and old, and gives them a chance to attend college for a week. The boy wr girl of 16 and the man or woman of 60 are equally welcome. An attendance of between 1,600 and 2,000 persons from the farms of the state is

persons from the farms of the state is expected.

Lectures and demonstrations in agriculture, farm engineering, and home economics will be given throughout the entire week, while such entertainment features as music, readings, get-together meetings and receptions will serve as a means of relevation.

means of relaxation Charles E. Lobdell, of the Federal Farm Loan Board, will be present to discuss "The Federal Farm Loan Act and Its Application," and Dr. Henry J. Waters, president of the Kansas Agricultural College, will speak on "The Landlord and His Tenant."

Special conferences for county agents

Special conferences for county agents, Special conferences for county agents, farm bureau officers, county commissioners, institute officers, and other groups will be held. A Percheron sale will be conducted Friday afternoon, February 9. The State Apple Show, the Glenwood Mother-Daughter Canning Club exhibit, boys' and girls' exhibits of farm and home products, and the exhibition of the Kansas Crop Improvement Association will be features of the week. Association will be features of the week. At all the general assemblies and for the evening meetings music will be provided by the college band, the college orchestra, the Apolio Club, and members of the department of music.

A copy of the program can be obtained by addressing Edw. C. Johnson, Dean of Extension Division, Kansas Agricultural College, Manhattan, Kansas.

Chicks Dying in the Shell

Mrs. Frank Bain, an Idaho reader of KANSAS FARMER, writes of her experience in hatching eggs both with incu-bators and with hens. She says:

"I hear many peo, complain of chicks dyin in the eggs pip. I in the eg find by hygrometer test that we seldom have any moisture to spare. By supply-ing moisture in this way I always succeed in hatching every hatchable egg and I have big, fluffy, lively chicks. Some of my neighbors claimed they could always tell an incubator chick from a henhatched chick and they came over to show me. I had hens come off with

Salahan (400-ana) a madaa a

chicks at the same time the incubator hatch came off, and had divided the chicks into four coops. They tried to guess which were the incubator chicks but were unable to do so.

"When I set hens I also test the eggs on the seventh and the fourteenth days. I can then take out the infertile eggs and by setting several hens at once I can quite often re-set a hen or two and save the time of the hen besides making

a better showing of chicks at hatching

time. In this hot, dry climate I always sprinkle the eggs under the heas and the chicks come out more easily."

J. A. Denslow, Meade, Kansas, keeps from 150 to 200 chickens on a 320-acre farm. Averaged \$10 worth of eggs per week, besides what they keep for their

"Keep as many hens as you can take care of," is the advice which the Colo-

rade Experiment Station gives to new settlers. Investment in poultry yields quick results, and the new settler who follows this advice finds his poultry is one of the biggest items in helping to tide him over until his other live stock and his crops begin to bring in returns.

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EXTRA CHOICE ROSE COMB SILVER Wyandotte cockerels, \$2 each, six for \$10. Mrs. Phillip Schuppert, Arrington, Kansas.

SHUFF'S "BEAUTILITY" SILVER WY-andottes. Cockerels, \$2, \$2.50, \$3, \$4, \$5; hens, \$1.50, \$2. Mrs. Edwin Shuff, Plevna, Kansas. ROSE COMB WHITE WYANDOTTES—Pullets, \$1.50 each; eggs, per fifteen, \$2; flock, fifteen, \$1; 100, \$4.75. Mrs. Effic Acheson, Palco, Kansas.

COLUMBIAN WYANDOTTES—WINNERS at Kansas State Fair, Hutchinson. Choice cockerels. Stock for sale. Eggs in season. Fancy pigeons. John J. Pauls, Hillsboro, Kansas.

EXTRA FINE PURE-BRED PARTRIDGE Wyandotte cockerels, Doolittle-Trolverine strain, for sale, \$2 each. Selected eggs for hatching, \$2 for 24. Orders booked now. R. F. Ayres, Route 5, Box 196, Independence, Missouri.

SILVER LACED WYANDOTTES, WON first, second, third cockerel; first, second, third pullet, first pen, Northwest Missouri Poultry Association. Eggs in season, \$1.25 per fifteen, \$3.50 for fifty, \$6.00 per hundred, postpaid. Mrs. Arthur Wiley, Route 5, Maryville, Mo.

TURKEYS.

FOR SALE—MAMMOTH PURE BRONZE turkeys. Some two-year-olds. Nora Holmes, Fredonia, Kansas.

BOURBON RED TURKEYS, LARGE with splendid color and markings. Mrs. Elmer Nicholson, Route 5, Wellington, Kan.

SARVER'S FAMOUS NARRAGANSETT turkeys, large boned stock, unrelated. Sun-light Poultry Farm, Mt. Moriah, Mo.

BOURBON RED TURKEY EGGS, 30c each, two and three-year-old laying stock. Orders booked now, shipped when wanted. W. H. Oliver, Reger, Mo.

FOR SALE—M. B. TURKEYS, BIG, growthy fellows. Buff Rock cockerels and White Indian Runner drakes. No better blood anywhere. G. W. Perkins, Newton, Kansas.

WHITE HOLLAND TURKEYS, SINGLE Comb White Leghorns, Single Comb Buff Orpington eggs. Baby chicks, Mrs. S. A. Warren, Reger, Mo.

BOURBON TOMS, TOULOUSE GANDERS, Partridge Rock cockerels, Buff Orpington cockerels and drakes. Eggs in season. Mrs. Frank Neel, Beverly, Kansas.

FIFTY MAMMOTH BRONZE TURKEYS.
Toms, \$7.50, \$10, \$15; pullets, \$5, \$10; hens,
\$10, \$15. Bggs—Yard 1, \$1 each; second,
50 cents. Black Langshans, Barred Plymouth Rocks, show record. Order direct
from ad Order early. Jas. W. Anders,
Unionville, Mo.

ORPINGTONS.

S. C. BUFF ORPINGTON COCKERELS \$1, \$2 and \$5. J. W. Falkner, Belvue, Kan

MY BUFF ORPINGTONS STILL WIN, Omaha, December, 1916. Fine cockerels or pullets. H. T. Farrar, Axtell, Kansas.

EXHIBITION BUFF ORPINGTON EGGS, state, county winners. Bourbon Red turkeys. Prices reasonable. Write for catalog. Mrs. Rees Barton, Amoret, Mo.

St. John, Kansas, November 24, 1916.

Please stop my ad, as I am sold out of White Rock cockerels. Kansas

Farmer is certainly a good puller. W. H. Beaver.

JAMESTOWN, KANSAS, January 19, 1917.

Am having wonderful success from the ad I have been running in KANSAS FARMER the past four weeks. Am sending ad for special issue, to be continued until I notify you.

MRS. IVER CHRISTENSON, be continued until I notify you.

LANGSHANS.

BLACK LANGSHANS—EGGS, \$1.25 FOR fifteen. Young hens and cockerels, \$1.50 each J. Medford, Wheatland, Okla.

WHITE LANGSHANS, PRIZE WINNERS. Eggs, \$1.50 per fifteen, \$4 per fifty, \$7.50 per hundred, postpaid. Mrs. Arthur Wiley, Route 5, Maryville, Mo.

BLACK LANGSHAN COCKERELS hatched from my San Francisco winning strain, at bargain prices if taken soon. H. M. Palmer, Florence, Kansas.

BLACK LANGSHANS, BRED FROM Irst prize birds, Iowa and Nebraska State hows. Choice cockerels, \$3: eggs, \$1.50 er fifteen. Mrs. S. D. Marsh, Juanita, Ich.

BABY CHICKS.

BABY CHICKS —REDS, ROCKS, LEG-horns, 12 ½c.. Eggs also. Request circular. McCune Hatchery, Dept. M, Ottawa, Kan.

YOU BUY THE BEST BABY CHICKS for least money at the Colwell Hatchery, Smith Center, Kansas.

SEVERAL BREEDS.

WHITE FAVORELLES, '4 IN 1." EGGS, beef, beauty and fine feathers. Circular free. Today's Poultry Plant, Caney, Kan.

EGGS AND BABY TURKS OF PURE-bred prize winning Bourbon Red turkeys, S. C. Reds, fine laying strain. Eggs and baby chicks. Booking orders now. Mrs. A. G. Friesz, Keytesville, Mo.

FREE-1917 PRICE LIST OF EGGS. ALL leading breeds of chickens, turkeys, ducks, geese and guineas. Monroe Poultry Yards, Monroe, Iowa.

EGGS FOR SALE—BUFF AND WHITE Orpingtons; Buff and Brown Leghorns, all single comb, \$1 per setting. Mammoth Pekin and Fawn and White indian Runner duck eggs. C. C. Haller Poultry Plant, Fremont, Neb.

COCKERELS, \$2; PULLETS, \$1.50 EACH. Can make up some good pens at very reasonable prices. All the leading breeds. Now is the time to order eggs for early spring delivery, \$1.50 per setting, \$6 per hundred. I. L. Keating, Box 357, Kansas City, Mo.

QUALITY EGGS FOR HATCHING FROM the much wanted Imperial 'Minglet' Barred Plymouth Rock. "Goldbank" Mammoth Bronze turkeys; Golden and Chinese Ring-neck Pheasants. Orders booked for small deposit. Thank you. Harper Lake Poultry Farm, Jamestown, Kansas.

FOR SALE, EGGS—EGGS FROM PURE-breds, and cockerels, turkeys, geese, eight kinds of ducks, pearl and white guineas, bantams, Barred, White and Buff Rocks, Rhode Island Reds, Houdans, Hamburgs, Games, Langshans, Minorcas, Brahmas, Cochins, Buff and White Orpingtons, Buff and Silver Laced Wyandottes, Leghorns, Hares, Rabbits, Guinea Pigs, Dogs, Fancy Pigeons. Write wants, Free circular. D. L. Bruen, Platte Center, Neb.

A FEW GOOD BUFF ORPINGTON cockerels for sale. Mrs. C. F. Cooper, Nickerson, Kansas.

BUFF ORPINGTON EGGS FROM PRIZE winners, \$1.25 per fifteen. Mrs. Vail, \$610 Ida, Omaha.

GOOD BUFF ORPINGTON DRAKES FOR sale, \$1.25 to \$2.50 each. John A. Huber, La Crosse, Kansas.

SINGLE COMB BUFF ORPINGTON eggs from silver cup winners. Prices reasonable. Mrs. J. N. McDaniel, Arbela, Mo.

EGGS FROM S. C. WHITE ORPINGTONS reasonable. Write me John Vanamburg, Marysville, Kansas. BUFF ORPINGTONS, EGGS AND CHICKS Bred for eggs 16 years. Circular free. Will Schadt, Box 1055, Goshen, Indiana.

S. C. BUFF ORPINGTON COCKERELS for sale. No. 1 large utility stock, good color and carriage. Herbert Craven, Pierce, Neb.

SINGLE COMB BUFF ORPINGTON eggs from prize winners. Also some choice cockerels left. Mrs. Earle King, Raymore, Missouri.

BUFF ORPINGTONS—SOME GOOD HENS and pullets yet for sale. Eggs from winners, \$1.50 and \$3 per fifteen. L. S. Weller, Salina, Kansas.

LIMITED NUMBER WHITE ORPING-ton cockerels, bred from Aldrich best 1916 mating. Eggs from three fine pens. Satis-faction guaranteed. H. M. Goodrich, 712 Topeka Ave., Topeka, Kansas.

S. C. BUFF ORPINGTON COCKERELS and pullets whose grandsire was first prize winner at Madison Square Garden, New York. Price, \$2 to \$5 Guaranteed to please. Thos. D. Marshall, Sylvia, Kansas.

SINGLE COMB PRIZE WINNING GOL-den Buff Orpingtons, fine layers, won first best pair, sweepstakes cockerel, all breeds competing, at Mountain Grove, Mo., 1916. Eggs, \$4.50 per hundred. Mrs. Mary Knot-well, Norwood, Mo.

DAMON'S ORPINGTONS-MY S. C. BUFF and White Orpingtons win in all classes of competition. Five splendid matings in buffs and whites. Imported blood. Write for mating list. Few white cockerels for sale cheap. J. E. Damon, Caldwell, Kansas.

DUCKS AND GEESE.

ROYAL BLUE STRAIN ROUEN DUCKS, \$1.75 each. James Cassell, Fremont, Neh

GEESE, EMBDEN, TOULOUSE, CHINA; turkeys, ducks. All leading breeds of poul-try. Emma Ahlstedt, Roxbury, Kan.

FAWN INDIAN RUNNER DUCKS BY the hundred, 95c; smaller lots, \$1 each. Mrs. E. C. Wagner, Holton, Kansas

POULTRY WANTED.

PAYING FOR NO. 1 POULTRY—TUR-keys, 24c; hens, 17c; capons, 21c; ducks, 14c; guineas, dozen, \$5. Coops free. The Copes, Topeka.

LEGHORNS.

ROSE COMB BROWN LEGHORNS. MRS. Ida Standiford, Reading, Kansas.

S. C. W. LEGHORN EGGS. STATE WIN-ner. Mrs. W. R. Hildreth, Oswego, Kansas. ROSE COMB LEGHORN COCKERELS— Eggs in season, Mrs. John Holzhey, Ben-dena, Kansas,

PURE-BRED BUFF LEGHORN COCK-erels, \$1; choice, \$1.50. P. A. Wempe, Sen-eca, Kansas.

SINGLE COMB BROWN LEGHORNS—Pullet mating only. Tiff Moore, Osage City, Kansas.

SINGLE COMB WHITE LEGHORN cockerels. Dave Baker, Conway Springs, Kansas.

PURE-BRED S. C. WHITE LEGHORN ockerels, Mrs. D. Christmann, Oswego,

SINGLE COMB WHITE LEGHORNS—Cockerels, \$1. Eggs, chicks. Mrs. C. C. Cole, Levant, Kansas.

281 EGG STRAIN BUFF LEGHORNS— Settings, \$3. Mrs. Charles Hume, Anadarko, Okla

S. C. B. LEGHORN COCKERELS—FINE birds for sale, \$1.50 and \$2. J. J. Stalder, Meade, Kansas.

FOR SALE—SINGLE COMB BROWN Leghorn cockerels, \$1.50 each. Chas. M. Stell, Scribner, Neb.

SINGLE COMB WHITE LEGHORN eggs, \$4 per hundred. Mrs. H. A. Ketter, Seneca, Kansas.

ENGLISH WHITE LEGHORN EGGS, cheap. Write for prices. I. M. Fisher, El Dorado Springs, Mo.

FOR SALE—S. C. W. LEGHORN COCKerels, raised from prize winning stock and extra good laying strain, \$1, \$2 and \$3 each. I. H. Gnagy, Pretty Prairie, Kansas.

PRIZE WINNING SINGLE COMB BUFF Leghorns and Single Comb Reds. Extra winter layers. Eggs for hatching. C. B. Hinchliff, Hamilton, Mo.

S. C. BUFF LEGHORNS, HATCHING eggs. The quality kind from my winners at Omaha and Lincoln. Otto Timm, Bennington, Neb.

ROSE COMB WHITE LEGHORN COCKerels, scored birds. Write for prices. Eggs for hatching, \$5 per hundred. Mrs. Joe Streeter, Route 5, Hamilton, Mo.

S. C. BROWN LEGHORN COCKERELS, strictly pure bred, \$1.50 each, \$1.5 per dozen. Order early before they are gone. Mrs. L. H. Hastings, Thayer, Kansas.

BROWN LEGHORNS—ROSE, SINGLE Comb. Bred to lay strain breeding. Eggs, fifteen, \$2; fifty, \$3; hundred, \$6. Plainview Poultry Farm, Lebo, Kansas.

S. C. BUFF LEGHORN COCKERELS, \$2 to \$5 each. Bred to lay stock. Winners at state show. Eggs in season. Pearl Haines, Rosalia, Kansas.

SINGLE COMB BROWN LEGHORNS— Thirty-one prizes at Kansas State Show, 1917, including eight firsts. W. J. Roof, Maize, Kansas.

SINGLE COMB BROWN LEGHORNS—Pullef line only, forty years with this breed. Eggs, \$1.50 per fifteen, \$7 per 100, prepaid. Tiff Moore, Osage City, Kan.

POSTPAID, EGGS—PRIZE WINNING stock. Young and Tom Barron strains. Single Comb White Leghorns, \$5 per hundred, \$1 per setting. Maple Hill Farm, Thos. Gaston, Prop., Bosworth, Mo.

RUSSELL'S FAMOUS BROWN LEG-horns, single comb, prize winners, heavy layers, Write for catalog, Satisfaction guaranteed. Mrs. Geo. Russell, Chilhowge, Missouri.

S. C. WHITE LEGHORNS. I AGAIN have state show prize winners, exhibition and utility cockerels for sale. Eggs. Eggs. Eggs. Mrs. Terry Junkins, Osawatomle, Kansas.

PRIZE WINNING S. C. WHITE LEG-horns at two state shows. Eggs, \$2, \$8 and \$5 per fifteen. Eggs from flock, \$5 per 100. Chicks. Send for free mating list. C. G. Cook, Box F, Lyons, Kansas.

SINGLE COMB WHITE LEGHORNS, Columbian Wyandottes, Muscovy ducks, fancy pigeons. Catalog. Southdown sheep, Berkshire swine. J. A. Leland, Springfield, Illinois.

SINGLE COMB BROWN LEGHORNS— Fine winter laying utility and beauty strain. Eggs from trap nests. Pullets in Leaven-worth contest. Eggs, per hundred, \$4.50 and \$6; baby chicks, 12½ cents aplece. Para-dise Poultry Farm, Carona, Kansas.

SINGLE COMB WHITE LEGHORN EGGS
—Pen, \$10 per hundred; free range, \$5. Japanese Pekin drakes, \$4 each. Toulouse gananese Pekin grakes, 34 each. Toulouse ganders, \$4. Turkeys, bronze toms, \$15, \$8, \$5. Hens, \$5. Mrs. Mabel Sullivan, Route 7, Abilene, Kansas.

S. C. W. LEGHORN COCKERELS FROM hens with records over two hundred eggs; one, two. three dollars each. Baby chicks, 12½ cach. Eggs, \$5 per hundred. Hype-rion White Leghorn Farm, Route 1, Des Molnes, Lowa. Moines, Iowa.

YOU WANT GOOD LAYERS. MOORE'S strain of S. C. Brown Leghorns are prize winners and winter layers. Eggs, \$1 for fifteen and \$4 for 100 postpaid. John W. Moore, R. R. No. 1, Poplar Bluff, Mo., formerly of Hendrickson, Mo.

S. C. W. LEGHORNS, BRED TO LAY. Hens, \$1.50 to \$2 each; pullets, \$1 to \$1.50 each; less by the dozen. A few cockerels for sale. Also White Embden Geese, either sex, \$2.50 to \$3 each. I. P. Myers, Box 26, Haysville, Kan.

(Continued on Next Page)

RHODE ISLAND REDS.

CHOICE ROSE COMB RHODE ISLAND

QUALITY SINGLE COMB REDS—BAR-gains if ordered soon. Mrs. Elmer Nicholson, Route 5, Wellington, Kansas.

DARK RED ROSE COMB RHODE ISL-and Red cockerels, \$3 and \$4 each. Mrs. F. A. McGuire, Paradise, Kansas.

COCKERELS, S. C. R. I. REDS, GOOD size, good color. Price \$1.50. Mrs. Joseph Greene, Bernard, Iowa.

EGGS FROM PRIZE WINNING ROSE Comb Rhode Island Reds. Catalog free. M. L. Puckett, Puxico, Mo.

ROSE COMB RHODE ISLAND RED cocks and cockerels, \$1.50, \$3 and \$5. Mrs. W. A. Gill, Larned, Kansas.

R. C. RHODE ISLAND RED COCKER-els, extra fine, \$3 each, two for \$5; eggs, \$5 per hundred. Redview, Irving, Kansas.

FINE ROSE COMB RED COCKERELS, \$2. Baby chicks, 10 cents. Order now. Lily Robb, Neal, Kansas.

S. C. R. I. RED MALE BIRDS—WIN-nings for last three years, 12 firsts, 8 sec-onds, 5 thirds, 4 fourths, and 7 specials. James Sisters, Olathe, Kansas.

ROSE COMB RHODE ISLAND REDS— Eggs, \$2 per setting. Kansas state show vinners. Mating list. L. E. Castle, Wich-

S. C. RHODE ISLAND RED COCKERELS and cocks, all excellent breeders. Deep red in color and large. \$5 to \$10 each. H. J. Booth, Park Ridge, Illinois.

S. C. REDS—BLUE RIBBON WINNERS; few choice cockerels and eggs for sale. Price reasonable. Finch's Rhode Island Red Farm, Springfield, Mo. S. C. REDS—CONTINUOUS WINNERS at the big shows. Eggs now from winter layers. Exhibition matings, settings \$3. Sumerwell's Hillside Farm, 3218 North 28th, Kansas City, Kansas.

SINGLE COMB RHODE ISLAND RED cockerels, large husky dark red fellows that will improve your flock, \$3 to \$15 each. Write for price on hatching eggs. Nels W. Peterson, Mason City, Neb.

EGGS FOR SALE—S. C. R. I. REDS.— Sreeder for twelve years. \$1.50 per setting of fifteen; \$5 a hundred. Mrs. Jno. G. chmidt, Route 1, Box 135, Edgewood, Lex-

ONE HUNDRED ROSE COMB RHODE Island Red cocks and cockerels, sired by roosters costing \$15 to \$35—\$2, \$3.50, \$5 and \$7.50 each. A few higher. Order at once. They will go fast. Our pens mated for 1917 are the best we ever had. W. R. Huston, Red Specialist, Americus, Kansas.

BRAHMAS.

LIGHT BRAHMAS—EGGS FOR HATCH-ing after February 1. Geo. W. Craig, 2031 N. Water St., Wichita, Kansas.

LIGHT BRAHMA COCKERELS — 100 good heavy birds, have won prizes at leading shows. Can surely furnish you quality. Schreiber Farm, Sibley, Iowa.

LIGHT BRAHMAS, FELCH STRAIN— Twelve premiums, fourteen entries in Kan-sas State Show; stock and eggs. Satisfac-tion or-money back. Mrs. J. R. Kenworthy, Wichita, Kansas.

RHODE ISLAND WHITES.

ROSE COMB RHODE ISLAND WHITES, prize winning stock, size of Reds, mature earlier, better layers. Eggs, 100, \$8; 50, \$4; 15, \$1.50; cockerels, \$2, \$3 and \$5. Catalog. Col. Warren Russell, Route 4, Winfield, Kansas. earlier, be 15, \$1.50; Col. W

ANCONAS.

ANCONA EGGS, SIXTEEN, \$1; 100, \$5. W. G. Shaw, Cherokee, Okla.

SINGLE COMB ANCONA COCKERELS for sale, \$1.50 each. Louella Blosser, Route 7, Independence, Kansas.

MOTTLED ANCONA COCKERELS, \$2; three, \$5. Eggs in season. Mrs. Mary Bates, Dighton, Kansas.

SINGLE COMB ANCONAS—EGGS, FIF-teen for \$1.25 or \$6 per hundred delivered. Write for printed matter. C. K. Whitney, Route 9, Wichita, Kan.

ANCONA EGGS FROM HEALTHY FARM range birds. Prices reasonable, A few cocksistels left. Mrs. Will Torgeson, White City, Kansas.

ANCONA WINNERS KANSAS CITY shows, 1916 and 1917, Orders taken. Send for photos. Dr. Ferdinand Schreiman & Son, Concordia, Mo.

CORNISH FOWLS

DARK CORNISH CHICKENS. SUNNY-slope Farm, Stillwater, Okla.

PIGEONS.

DARK CORNISH FANTAIL PIGEONS— See them at the shows. Dr. Weed Tibbits & sons, Richland, Kansas.

FARM AND HERD.

Catalogs are out for Fred B. Caldwell's Poland China bred sow sale to be held at Howard, Kansas. Forty head of choice sows have been catalogued for this sale, Thirty-five of the lot are either sired by or bred to Caldwell's Big Bob, the sensational boar weighing 1,065 pounds at nineteen months of age. Among the lot catalogued are daughters of some of the most noted Poland China boars bred to Caldwell's Big Bob.

W. W. Finney, of Emporia, Kansas, recently purchased ten choice pure-bred cows and helfers from one of the good northern herds. His purchase included six daughters of Leo Altje. One of them recently made a seven-day butter record of 25.76 pounds as a three-year-old. His purchase includes daughters of White Oak Ormsby and Sir

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BE A GOVERNMENT FARMER. GOOD pay; steady, interesting job. Write Central Institute, 44-F, St. Louis.

FARM HAND FOR THE SUMMER. House, wood and garden. Give wages wanted. F. G. Houghton, Dunlap, Kan.

GOOD MAN TO TAKE ORDERS, GET own clothes free, make big money. Knicker-bocker Tailoring Co., Dept. 594, Chicago.

MAN OR WOMAN TO TRAVEL FOR old established firm. No canvassing; \$1,170 first year, payable weekly, pursuant to contract. Expenses advanced. G. G. Nichols, Philadelphia, Pa., Pepper Bldg.

FARMERS 18 OR OVER—GET GOVERN-ment jobs, \$75 to \$150 month. Vacations with full pay. Spring examinations every-where. Education unnecessary. Sample questions free. Write immediately. Frank-im Institute, Dept. W-82, Rochester, N. Y.

AGENTS WANTED.

WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 671, Springfield, Ill.

REAL ESTATE.

TRADES EVERYWHERE — EXCHANGE book free. Bersie Agency, El Dorado, Kan.

CHOICE IMPROVED QUARTER, 100 cultivated. Close to town, church, school. E. Hillyer, Republican City, Neb.

GEORGIA, \$7.00 ACRE UP, RICH SOIL, ranches, farms. Investigate. H. Lee Davis, Alken, S. C.

WANTED-TO HEAR FROM OWNER OF good farm for sale. Send cash price and description. D. F. Bush, Minneapolis, Minn.

IF YOU WANT TO SELL OR EX-change your property, write me. John J. Black, Desk C, Chippewa Falls, Wis.

FOUR HUNDRED ACRES IMPROVED anch, Elk County, Kansas; \$800 rent; immediate possession. Write owner, 407 Jackson Ave., Kansas City, Mo.

WANTED — TO RENT A FARM FUR-nished with stock and implements. Will share with landlord as pay or will accept position as manager on share basis. Dairy-ing preferred. References furnished. Ad-dress Kansas Farmer or John W. Judah, Hiattville, Kan.

SUCCEED IN FLORIDA. GET BIG prices for winter vegetables, oranges, grape-fruit. Staple crops yield enormously. Live stock cheap to raise, brings fine prices. Rich sandy loam, clay subsoil. Delightful year-round climate on our lands. Good community. Close to transportation. Abundant artesian water, ample drainage. Capable men with reasonable funds to start can make big money rapidly. Write for free book. Swope Land Company, Oviedo, Fia.

YOUR CHANCE IS IN CANADA.—RICH lands and business opportunities offer you independence. Farm lands, \$11 to \$30 acre; irrigated lands, \$35 to \$50; twenty years to pay; \$2,000 loan in improvements, or ready made farms. Loan of live stock; taxes average under 20 cents an acre; no taxes on improvements, personal property, or live stock (Good markets, churches, schools, roads, telephones; excellent climate — crops and live stock prove it. Special homeseckers' fare certificates. Write for free booklets. Allan Cameron, General Superintendent Land Branch, Canadian Pacific Ry., 234 Ninth Ave., Calgary, Alberta.

NEW FARM OPPORTUNITY IN ONE OF the greatest states in the Union. A new line of the Santa Fe is tapping a rich and fertile prairie section of Northwest Texas, where already many farmers have made good in a big way with wheat, hogs and live stock. Here, if you act now, you can get first choice—get in on the ground floor of a great opportunity. You can get in ahead of the railway—ahead of the people whom the railway—ahead of the people whom the railway—will bring—ahead of those who act more slowly than you do. This is the chance of a lifetime for a man of moderate means. A certain number of thrifty, far-seeing farmers can acquire good land at an astonishingly low figure and on long, easy terms. If you have confidence that a great railroad, like the Santa Fe, would only recommend what it considers a good thing, and because it wants to see new territory developed and wants newcomers to prosper and produce—then write me today for particulars about this district. Mild climate, social advantages, schools, churches, telephones, good roads. Everything there but enough men with their families. Will you be one of the fortunate first comers to reap the advantages of a section that has been minutely inspected by a Santa Fe agricultural agent and pronounced right? Write me now and let me send you a copy of the special illustrated circular we are getting out. C. L. Seagraves, Industrial Commissioner, A. T. & S. F. Ry., 931 Rail-way Exchange, Chicago.

Korndyke Hengerveld DeKol.

H. E. Anderson, owner of Clover Valley Holstein farm, Whitewater, Wis., writes that his herd is making a good record this winter and that the demand for choice reglistered and high grade Holsteins is very heavy. Clover Valley Farm is the home of one of Wisconsin's great Holstein herds. There are now 150 head in the herd, headed by one of the good sires in service. His dam has a record of over 100 pounds milk per day for thirty days, and a seven-day butter record of 35.43 pounds.

butter record of 35,43 pounds.

S. Y. Thornton, of Blackwater, Mo., reports his great herds of Durocs doing well. This is one of the oldest herds of Durocs in existence. It was founded by A. F. Collins before the American Duroc Record Association was organized, and Mr. Collins was one of the charter members of the association. The herd was purchased by Mr. Thornton in 1887 and he has built up a herd of the popular, easy-feeding and profitable type. He keeps his herd immune at all times and the result is that he always has a healthy lot of hogs. This year he has bred a large number of outstanding spring glits for March and April farrow.

FOR SALE CHEAP, RUG FACTORY outfit. J. F. Thomas, Webber, Kan.

YOU CAN MAKE A GOOD LIVING IN your back yard raising Beigian hares. Full particulars and price list of all breeds, 10c. W. G. Thorson, Aurora, Colo.

FOR SALE—16-HORSEPOWER GASO-line engine on steel trucks; good as new. Double seated carriage, rubber tires, good as new, cost \$489, or will trade either of the above. Make me an offer. H. W. McAfee, Route \$, Topeka, Kansas.

WANTED—MEN AND WOMEN, CAN have furnished them brief of the laws of their state, explained in manuscript, compiled by expert attorney, explaining provisions which interest life, business and estate. You may also ask questions. Price \$1.00. Charles Vance, Attorney, 301 Farmers Trust, South Bend, Indiana.

BUSINESS CHANCES

FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine, "Investing for Profit," It is worth \$10 a copy to any one who has not acquired sufficient money to provide necessities and comforts for self and loved ones. It shows how to become richer quickly and honestly. Investing for Profit is the only progressive financial journal and has the largest circulation in America. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 431,28 W. Jackson Boulevard, Chicago.

TREES, SEEDS AND PLANTS.

SEED CORN—BOONE COUNTY WHITE. Carefully selected. \$2.50 per bushel, shelled. J. W. Taylor, Edwardsville, Kansas.

ALFALFA SEED, CHOICE, RECLEANED new crop at \$8 per bushel. Write for sam-ples. C. Markley, Belle Plaine, Kansas,

DAIRYMEN—WE HAVE SEVERAL CARS No. 1 second cutting alfalfa for sale. Shi-mer & Son, 1815 Kansas Ave., Topeka.

RHUBARB ROOTS, \$1.75 HUNDRED. Large variety; other plants. Price list. Fayetteville Plant Co., Fayetteville, Ark.

PURE GRADED FETERITA SEED, \$4.00 per 100 pounds, Fred Hothan, Scranton, Kansas.

BLACK-HULLED WHITE KAFIR SEED, \$2.25 for 70 pounds in head. H. W. Chest-nut, Kincaid, Kansas. SWEET CLOVER WANTED. GIVE quality and lowest price. Best propositions accepted. Standard Seed Co., Eureka, Kan.

BOW CREEK FARM SEEDS—ALFALFA, feterita, kafir, Sudan grass, corn. (Sudan, sweet clover wanted.) Logan, Kansas.

TEN ELBERTA AND FIVE CHAMPION peach trees, postpaid, \$1. Send now. Wellington Nurseries, Dept. C, Wellington, Kan.

TIMOTHY SEED—FANCY, NEW CROP, recleaned timothy seed at \$2.50 per bushel. Write today for samples, Watson Bros., Seed Merchants, Milán, Mo.

SEED CORN—DIAMOND JOE WHITE, excellent drouth resister, and Reid's Yellow Dent. Graded, \$2.50 bushel. D. D. Denver, Milford, Kansas.

NO. 1 WHITE SWEET CLOVER SEED for sale. New crop, hulled, recleaned and graded Forty bushels. Write for samples and prices. J. J. Getz, Atlanta, Kan.

IOWA GOLD MINE AND BOONE CO. White seed corn, selected, shelled, graded, \$2 per. Choice aifaira seed, \$7.50 per. Sam-ples free. J. F. Feigley, Enterprise, Kan.

REID'S YELLOW DENT, BOONE COUNTY White seed corn. Genuine Red Texas seed oats, clover, timothy and alfalfa seed. S. G. Trent, Hiawatha, Kansas. SEED CORN—JOHNSON CO. WHITE, Boone County White, Reid's Yellow Dent, Hiawatha Yellow Dent. Won first and sweepstakes at state show. Write George R. Manville, Faucett, Mo.

RED TEXAS RUST-PROOF SEED OATS, recleaned and carefully graded. You buy nothing but oats. Grown here one year, They are fine. Let me send you a sample and price. Warren Watts, Clay Center, Kan.

KAFIR SEED — WE HAVE TWO CARS fine white kafir seed testing over 90 per cent germination, which we will sell while it last in 2-bushel sacks at \$1.85 per bushel. Sacks free. It is going to be hard to find good kafir like this this year. If you will need kafir, better order quick. Brooks Wholesale Co., Ft. Scott, Kan.

When Writing to Advertisers, Please Mention Kansas Farmer

DOGS.

FOX, WOLF AND COON HOUNDS; rabbit dogs. Reasonable. J. P. Tindall, Lees Summit, Mo.

FOR SALE—PAIR GUARANTEED COON ounds. Send 2 cents for prices. John cash, Centerville, Kansas.

AIRDALE — THE GREAT TWENTIETH century dog. Collies that are bred workers. We breed the best. Send for list. W. R. Watson, Box 128, Oakland, Iowa.

WISCONSIN LAND FOR SALE

LANDOLOGY, A MAGAZINE GIVING the facts in regard to the land situation. Three months' subscription free. If for a home or as an investment you are thinking of buying good farm lands, simply write me a letter and say, 'Mail me Landology and all particulars free," Address Editor Landology, Skidmore Land Co., 301 Skidmore Bldg., Marinette, Wis.

GOATS

FOR SALE—MILCH GOATS. BURR Fleming, Eminence, Kansas.

HONEY.

PURE ALFALFA HONET, DELICIOUS flavor; two 60-pound cans, \$12.75. Wesley Foster, Producer, Boulder, Cole.

PURE HONEY-TWO 60-POUND CANS, 0.50, f. o. b. Las Animas, Colorado. W. P.

WANTED-TO BUY.

WANTED, A GOOD DOG TO KEEP bums away. O. A. Wiley, Route 1, Florence, Kansas.

SITUATION WANTED.

WANTED—EXPERIENCED MAN WANTS work on farm. Good references. James Wood, 2215 S. 61st ave., Benson, Neb.

MARRIED MAN WANTS JOB ON FARM. House furnished. Small family. R. C. Samuels, Garnett, Hansas.

SITUATIONS WANTED BY TWO YOUNG experienced Germans. General farm hands. If you appreciate a reliable man, address G, care Kansas Farmer.

THE STRAY LIST.

TAKEN UP ON THE TOTH DAY OF May, 1916, by A. L. Jasper, Santa Fe, Haskell County, Kansas, one red helfer calf, no brands. A. R. Henage, County Clerk,

TAKEN UP BY H. R. ERDMAN, NORTH Fifth Street, Kansas City, Kansas, on Jan-uary 8, 1917, one red steer, weight \$00 lbs., cross on hip. Appraised at \$40. William Beggs, County Clerk, Wyandotte County.

TAKEN UP—BY OWEN O'NEIL, OF Windom, McPherson County, Kansas, on the twentieth day of December, 1916, one heifer coming two years old, color deep red, no marks or brands W. E. Rostine, County Clerk, McPherson, Kansas.

NOTICE IS HEREBY GIVEN THAT ON December 28, 1915, one red steer with horns, three years old, was taken up by -W. E. Kimel in Ninnescah Township in Bedgwick County, Kansas. Said animal was appraised December 28, 1916, at \$60. H. M. Barrett, County Clerk, Wichita, Kansas.

TAKEN UP—ON THE 15TH DAY OF March, 1916, by C. S. Heath, whose residence is eight miles north and 3½ miles east of Leoti, East Edwards Township, Wichita County, one mare pony about 4½ feet high, weight 756 pounds, color sorrel, age nine years, brand "C" on left hip, white stripe in face, appraised at \$30. Dean Trueblood, County Clerk, Wichita.

HORSES AND MULES.

FOR SALE CHEAP—TWELVE JENNETS good breeding. Geo. S. Stullken, Bazine Kansas.

SALE OR TRADE FOR YOUNG STOCK, 15-16th Belgian stallion 9 years old, weight 2,000 pounds; 65 per cent breeder. W. G. Shideler, Silver Lake, Kansas.

WANTED — TO TRADE 1,000-POUND registered blue ribbon jack, 7 years old, black, for good draft stallion. J. E. Itschner, Box 122, Sayre, Okla.

ONE REGISTERED PERCHERON STAL-lion, 4 years old, weight 1,950 pounds, black with small star, Reg. No. 89169. One road stallion, "Ben Weaver," track record 2:18. One mammoth black jack, 4 years old, heavy boned, 14 hands, All good breeders and colts to show. Emern H. Stedd, County Clerk, Lyons, Kansas.

CATTLE.

FOR SALE—TWO REGISTERED SHORT-horn bulls. Write for breeding. R. C. Watson, Altoona, Kansas.

POLLED JERSEYS—BREEDERS' NAMES of Chas. S. Hatfield, Secy., Box 40, Routs 4, Springfield, Ohio.

FOR SALE — REGISTERED GUERNSEY bull, serviceable age; May Rose-Glenwood breeding. For description and price write W. E. Evans, Jewell, Kansas,

300HEAD OF REGISTERED AND HIGH grade cows and helfers for sale, headed by the great 40-pound bull, Johanna King Segis. Neal Houslett, Oxford, Wis. FOR SALE — AN EXCELLENT REGIS-tered Shorthorn bull, of serviceable age, Red in color. C. W. Merriam, Columbian Building, Topeka, Kansas.

FOR SALE—FOUR REGISTERED JER-ey buil calves, Financial breeding, good nough for any herd. Priced cheap. Must ell. Earl Eager, Beaver Crossing, Neb.

FOR SALE—SIX PURE-BRED SHORT-horn bulls from six to ten months old. Good lusty calves at the right price. Warren Watts, Clay Center, Kansas.

HOLSTEINS FOR SALE — ONE PURE-bred heifer calf and four grades, nicely marked and colored, Arthur Findlay, White-water, Wis.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16ths pure, crated and delivered to any station by express, charges all paid, for \$20 apiece. Frank M. Hawes, Whitewater, Wis.

FOR SALE — REGISTERED GUERNSEY females, all ages; also a few males and grade cows, guaranteed right in every particular. Address Clovernook Farm, White-fish Bay, Wis.

FOR SALE—REGISTERED HOLSTEIN male, five months old. His dam produced under official test, 16½ pounds of butter in seven days. Largely black but splendid individual. Price, crated, \$100. Also fulblood male not registered, ten months old, nicely marked and from good producing dam. Large enough for light service. Price, crated, \$50. F. E. Proctor, Oswego, Kan.

PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS

TRACTOR

Union Station Plaza Kansas City, February 12th to 17th

Greatest display ever made. Seventy different models of Tractors; Tractor attachments for Automobiles, Power Cul-tivators, Power-Lift Plows, Special Binder Hitches and ail kinds of new power-lift machinery. Beautiful decorations. Fine Orchestra. Show given under direction of the Kansas City Tractor Club.

SAME WEEK AS AUTOMOBILE SHOW Come and Select Your Tractor During This Show.

THE MILLER HEREFORDS **Are Ready for Their** ANNUAL

In the New Sale Pavilion at

Alma, Kansas, February 9-10

SIXTY PROMISING YOUNG FEMALES THIRTY-FIVE PRIME YOUNG HERD BULLS Two Carloads Coming Two-Year-Old Range Bulls

Good railway facilities. Outstanding hotel accommodations. Extra large offering of cattle that will give you a pleasant surprise when you see them, and a sale to be held in the new \$4,000 heated sale pavilion at Alma, Kansas, on February 9 and 10, right in the heart of the Hereford community of the world, including Kansas.

You are cordially invited. Don't forget the date. Write for

CARL M!LLER,

catalog today.

BELVUE, KANS.

Erhart & Sons' Poland China Sale

Hutchinson State Fair Pavilion Hutchinson, Kansas, Thursday, February 22

63 Head - The Greatest Lot of Large-Type Hogs I Ever Offered.

Every Sow and Gilt Bred to Our Great Herd Boars.

Fifteen tried sows, twenty fall yearling gilts, twenty-five spring gilts, three boars—herd headers. Included will be a large part of our last season's show herd. Five of these fall gilts are the best we ever raised; a number of our best sows also go in this sale.

They are sired by or bred to such sires as the grand champion Big Hadley Jr., Orphan Big Gun, Young Orphan, King Price Wonder, Big Bob Jr., and other sires of like large-type note. If you want larger and better Poland and other sires of like large-type note. However, the sale However interpretable and Wighten are Wighten Chinas you cannot afford to miss this sale. Hourly interurban cars Wichita to Hutchinson and return. Write today for catalog. Address

A. J. Erhart & Sons, **Ness City, Kansas**

Auctioneers-Snyder, Price, Burger, Groff. 0. W. Devine will represent Kansas Farmer at this sale.

FARM AND HERD.

C. M. Howard, of Hammond, Kansas, is one of the very successful breeders of purebred Polled Durham catle. His herd was established twenty years ago and he has always used the best sires he could buy. He now has a herd of sixty head, headed by Forest Sultan by Sultan's Creed, a noted

bull of the breed which sold for \$2,200 at public auction. A feature of his herd at this time is the choice lot of young stock, including a fine lot of young bulls sired by Milton, one of the big high-class sires of the breed and a great breeder.

PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS

POLAND CHINA BRED SOW SALE



The above are fair samples of the many attractive things to be sold in the J. S. Turner Sale to be held at

FAIRFAX, MISSOURI, SATURDAY, FEB. 10 THIRTY-SIX HEAD

Twelve Tried Sows and Twenty-four Head of Yearlings and Spring Gilts, including daughters of King Alexander, Orange Wonder, Trusty King, B. Wonder, Jumbo Prospect, Big Bob Wonder 2d, and Missouri King.

Aside from the ones mentioned above, breeders will find attractive buys in a spring gilt by Fesey's Timm out of a GIANT WONDER DAM, second dam by BIG JOE. This gilt sold in the Head sale for \$110 and is selling as an attraction in this auction. A fine yearling daughter of TRUSTY KING, one of the top sows in the W. B. WALLACE August sale, sells bred to KING ALEXANDER and is worthy of consideration.

OFFERING IS IMMUNE AND IS BRED AND SAFE TO

King Alexander

Model Big Bob Jr.

By King's Equal out of an Expansion-Tecumseh bred dam. Senior Bob out of a dam by Long Jumbo 2d, boar in this herd and a proven sire.

By Head and Leonard's Model Big Bob out of a dam by Long Jumbo 2d, a line of breeding second to none.

Robinette

By Robidoux and a litter brother to Robin Hood, a prize winner last year wherever shown, including the National Swine Show.

THOS. F. STRICKLER, CRAIG, MISSOURI, will consign ten head of top sows to this sale, equal in every way to the offering listed above.

The catalogs are ready and will be sent upon application by mentioning Kansas Farmer. Send today for catalog and arrange to come to my sale. Sale right in town, under cover.

J. S. TURNER,

FAIRFAX, MISSOURI

20 Head - JACKS & JENNETS 20 Head AT McCUNE, KAN., THURSDAY, FEB. 22



12 HEAD OF JACKS

From two years to aged jacks; 14 to 15½ hands high, Black with white points. Good bone, body, head and ears. These jacks are my own raising. Sired by Bradley's Sunlight and Kentucky Yelberton, both big Kentucky jacks, Kentucky Yelberton's dam took fourth premium at the St. Louis world's fair in a bunch of thirty and his sire took first premium at the Lexington, Kentucky, state fair for the best jack, and first premium for best jack with three colts, and his grand sire sired the champion yearling jack at the St. Louis world's fair.

8 HEAD OF JENNETS

Eight head of jennets from yearlings up to aged jennets. Aged jennets from 14 to 15 hands. Black with white points,

Will sell two driving mares and two good ponies. Will offer for sale one registered cheron mare coming four years old; registered Percheron stud colt coming two years an extra good one.

TERMS: Cash or 12 months' time on bankable notes drawing 6% interest from date.

G. W. OVERLEY, McCUNE, KANS.

HOLSTEIN CONSIGNMENT SALE

UNION STOCK YARDS SALE PAVILION South Omaha, February 21, 1917, by the

Nebraska Holstein Breeders' Consignment Sales Company THIS IS A QUALITY SALE

HEAD of pure-bred registered Holsteins from the breder's own herds, chosen to please the purchaser who desires to buy good breeding and quality. Seventy-one females, nine bulls. Among them are:

Forty-seven cows and helfers bred to 30 to 35-pound bulls; 10 daughters of 30-pound sires; 20 cows with advanced registry official milk and butter records; 3 cows with yearly records of over 16,000 lbs. mik; a 27-b. cow; a 26-b. cow; a 24-b. cow, and a 23-b. 3-year-old.

BULLS—King Segis Lyons, one of the greatest proven sires in the West, and who will have over 30 A. R. O. daughters in 1917; a 5-months-old son of Rag Apple Korndyke Boon (a 35-pound bull), from a 31.33-pound dam; a son of that wonderful producing cow, Katy Gerben, consigned by the University of Nobraska.

Everything over 6 months old tested by reliable veterinarians.

The consignors are: University of Nebraska. Lincoin; S. B. Davis, Superintendent Indian School, Seward; J. F. Bunte, Cortiand; B. B. Davis, Superintendent Indian School, Seward; J. F. Bunte, Cortiand; B. B. Davis, Omaha; Nelson Bros., Stromeburg; W. M. Condon, Humphrey; Badger & Frost, Central City; Little & Little, Clarks; C. J. Furry, Franklin; Dwight III Interested, write for Sale Catalog.

DWIGHT WILLIAMS
Sales Manager

103 Bee Building.

OMAHA, NEB.

GUERNSEY CATTLE.

GUERNSEY CATTLE.

IMPROVE YOUR GRADE HERD Use a Guernsey Bull

GUERNSEY DAIRY PRODUCTS are the most in demand in every market. They are noted for HIGHEST NATURAL COLOR, and PLEASING FLAVOR.

Write for our Booklets THE AMERICAN GUERNSEY CATTLE CLUB Box R-K Peterbore, N. H.



Grandsons of Imp. Masher's Sequel A. R. out of first class cows. Tuberculin tested.

R. C. KRUEGER - - BURLINGTON, KANSAS

HEREFORD CATTLE.

HEREFORD CATTLE.

WALNUT BREEDING



Hereford Cattle, Shropshire and Cotsweld Sheep, Berkshire Hogs.
Thirty-five grandsons and granddaughters of Beau Brummel 10th
for sale. Some extra herd headers at reasonable prices, breeding considered. Come and see my herd. Satisfaction guaranteed.

LEON A. WAITE,

WINFIELD, KANSAS



HEREFORD CATTLE FOR SALE 25 BULLS, 10 MONTHS TO 2 YEARS OLD.

Best breeding families. Bred to an Imported Bridisher buil. Come and see me. Sale barns right in town.

T. I. WOODDALL,

HOWARD, KANSAS

STAR BREEDING FARM --- HEREFORD PLACE



FOR SALE -- 100 BULLS 50 EARLY BULL CALVES 20 COMING 2-YEAR-OLDS 20 COMING 3-YEAR-OLDS

Herd headers and range bulls. Ten yearling heifers, twenty heifer alves and a carload of good cows. The very best breeding reprented. Come and see me.

SAMUEL DRYBREAD,

ELK CITY, KANSAS

HEREFORD CATTLE

150 Head in Herd. A few cows and heifers for sale. Also a lot of farm and range bulls. Priced reasonable. B. M. BROWN, FALL RIVER, KANSAS

JERSEY CAPTLE.

HEREFORDS AND PERCHERONS

Choice 2-year-old bull, weight 1,600 lbs.; extra good bull calves. One May calf, weight 600 lbs., outstanding herd header prospect. Two choice yearling Percheron stallions. Priced to sell.

M. E. GIDEON - EMMETT, KANSAS

JERSEY CATTLE.



SEVENTY HEAD REGISTERED JERSEYS

FORTY COWS AND THIRTY HEIFERS FOR SALE.

Nothing over five years old. Richly bred Fox Signal and Fern Lad nilies. All bred to choice registered herd buil. Must reduce herd.

N. L. DUCHESNE

- GREAT BEND, KANSAS

120 Jersey Cows and Heifers

Pure-bred and high grade. Forty bred yearlings, superior individuals, all from profitable dams, now for sale.

J. W. BERRY & SON, Jewell City, Kansas



She's The Money Cow

She makes use of every ounce of feed. Her milk is the richest of all the breeds in butter fat and solids. She is rugged and vigorous — will thrive in any climate. She milks steadily. She is beautiful and gentle. She's the mortgage lifter. She's the cow for the everyday farmer, yet she's the rich man's pride, too.
And she's the cow for the family.

Our free book, "About Jersey Cattle," proves these things. Send for it now-a postal will do —it's interesting and instructive.

The American Jersey Cattle Club 875 West 23rd Street - New York City

DORNWOOD FARM JERSEYS

Fine young bulls from Register of Merit and imported cows: descendants of Fon-taine's Eminent, Pogis 80th of Hood Farm, and Golden Fern's Lad.

DORNWOOD FARM, Route 1, Topeka, Kan.

Registered Jersey Bulls, butter-bred, from high producing cows. Photo furnished. Max-well's Jersey Dairy, Route 2, Topeka, Kan.

REDHURST JERSEYS

Grandsons of Golden Jolly and Noble of Oaklands for sale. Also a few fancy cows and helfers of same breeding. Write. REDMAN & SON - TIPTON, MISSOURI

Bargains in Jersey Cows

From one to a carload of good, young, registered Jersey cows, mostly fresh or soon due. Offered at sacrifice prices because short of feed and cannot winter. Also a few open heifers and young bulls. Write your wants or come and see this stock.

The Ennis Stock & Dairy Farm, Horine, Mo. (Just South of St. Louis.)

LINSCOTT JERSEYS



Kansas First Register of Merit, Estab. 1878.
If interested in getting the best blood of the Jersey breed, write me for descriptive list. Most attractive pedigree.
R. J. LINSCOTT - HOLTON, KANSAS

\$50 Nobie Stockwell's Torono \$50

Sire, Noble Stockwell. Dam, granddaughter of Hood Farm Torono. She milked 32½ pounds milk daily, 2 years old.
BISONTE FARM - LAWRENCE, KANSAS

FARM AND HERD.

E. E. Carver & Son, of Guilford, Mo., held a very successful Poland China sale on Jan-uary 16. The twenty-six head of Polands averaged \$46.63. The top price of \$77.50 was paid for No 1 sow by Fred B. Cald-well, Howard, Kansas. The average was very satisfactory to Garver & Son.

Atteberry & Son, Lancaster, Mo., owners of one of the choice herds of pure-bred Hampshire hogs, report a heavy demand for breeding stock. A feature of their herd at present is the outstanding lot of well grown July boars.

The date of the 1917 National Swine Show has been set, and it will be held at Omaha from Wednesday, October 3, to Wednesday, October 10, inclusive. The arrangements for the show are similar to those of the 1916 show. The same buildings will house it in 1917 as were used in 1916, with such additional room as is necessary to properly care for the exhibits. Extra show ring facilities will be provided and everything possible will be done looking toward the proper handling of the exhibition.

NNUAL BRED SOW SA

THE KANSAS STATE AGRICULTURAL COLLEGE will sell Poland Chinas and Durod Jerseys, Friday, February 16, Manhattan, Kansas, WRITE FOR CATALOG.

FARM AND HERD **NEWS NOTES**

G. C. Wheeler, Live Stock Editor W. J. Cody, Manager Stock Adver-tising. O.W. Devine, Representative

Address All Communications to Kansas Farmer, and Not to Individuals

Personal mail may have to be held for several days, or be delayed in forwarding, and Kansas Farmer cannot assume any responsibility for mistakes occurring thereby

CLAIM SALE DATES.

Feb. 9—Breeders' Combination Sale, Man-hattan, Kan. C. W. McCampbell, Mgr.

Jacks and Jennets.
Feb. 22, 1917—W. H. Roller & Son, Circleville, Kan., and Bruce Saunders, Holton, March 15—L. M. Monsees & Sons, Smithten, Mo. Sale at State Fair Grounds, Sedalla, Missouri.
March 19—G. C. Roan, La Plata, Mo.

Feb. 22—G. W. Overley, McCune, Kansas. March 13—H. T. Hineman & Sons, Dighton, Kansas.

March 8-F. J. Scherman, Topeka, Kansas. Holsteins.
Feb. 6—H. C. Glissman, Omaha, Neb.
Feb. 21—Dwight Williams, Omaha, Neb.

March 30, 1917 — Combination Sale, South Omaha, Neb. H. C. McKelvie, Lincoln, Neb. Manager.

April 4-5, 1917—Central Shorthorn Association at Stock Yards Pavilion, Kansas City, Mo.

Hereford Cattle.

Feb. 9-10—Carl Miller, Belvue, Kansas. Sale in new sale pavilion, Alma, Kansas. Feb. 26—Combination sale at Hays, Kan. Prof. W. A. Cochel, Manhattan, Mgr. March 3—W. A. Cochel, Manhattan, Kansas. March 6—Moses Bros. & Clayton, Great Bend, Kansas. Combination sale.

March 29, 1917 — Combination sale, South Omaha, Neb. H. C. McKelvie, Lincoln, Neb., Manager.

Poland Chinas.

Feb. 1—P. M. Anderson, Lathrop, Mo. Feb. 6—H. B. Walter & Son, Effingham, Kansas.

Feb. 7—W. B. Wallace, Bunceton, Mo. Feb. 20—Fred B. Caldwell, Howard, Kan. Feb. 22—A. J. Erhart & Son, Ness City, Kan. Sale at Hutchinson, Kan. Feb. 28—F. Olivier & Sons, Danville, Kan. Feb. 28—Clarence Dean, Weston, Mo. Sale at Dearborn, Mo.

Durocs and Polands.

April 25—Fred G. Laptad, Lawrence, Kan.

Polands and Durocs.
Feb. 16—Kansas State Agricultural College,
Manhattan, Kansas.

Feb. 10—W. W. Jones, Clay Center, Kan. March 6—Richard Rothgeb, Pleasant Green, Mo. March 15-W. T. McBride, Parker, Kan.

March 8-F. J. Scherman, Topeka, Kansas.

A. H. Seymour, of Great Bend, Kansas, is one of the live workers for better draft horses in Kansas. His specialty is high-class Percherons of the real draft horse type, the kind that will be profitable on any farm.

A. S. Neale, Manhattan, Kansas, has a Holstein heifer in his herd with her second calf that is completing her yearly semi-official record. When fully completed her record will be practically 15,500 pounds of milk and 510 pounds fat. Her butter fat record for January, the eleventh month, will be practically 40 pounds. This record was made on dry feed, no pasture, and most of the year she was milked only twice a day. Mr. Neale is breeding Holsteins for production. The record of this heifer is proof of his success, and demonstrates that breeding backed by records results in profit producers instead of boarders.

John D. Henry, of Lecompton, Kansas, owner of one of the choice herds of bigtype Polands in Kansas, reports his herd doing fine. This herd is headed by Mammoth Orange, one of the great sires now in service. A feature of Mr. Henry's herd at this time is the fine lot of big growthy fall pigs sired by Mammoth Orange.

We have just received a catalog of the Poland Chin abred sow offering of F. Olivier & Sons, to be sold at Danville, Kansas, February 23. They have catalogued a very useful offering of the type that are profitable feeders. Most of their offering is bred to the great sires, A Wonderful King and Logan Price. A Wonderful King was grand champion at Kansas State Fair, Hutchinson, and at Dallas and Muskogee, and first in aged boar class at Topeka, 1916. Logan Price was third in class at the Topeka State Fair and second to A Wonderful King at Dallas and Muskogee.

G. W. Overley, of McCune, Kansas, announces February 22 for a public sale of jacks and jennets. Mr. Overley has rented his farm and will move to town and will sell most all of his jack stock, including a number of young jacks and jennets. One registered Percheron, a four-year-old mare, and one two-year-old Percheron stud will be offered at this sale. Also a number of grade horses and mules.

AYRSHIRE CATTLE.



The late JAMES J. HILL was an en-thusiastic friend of AYRSHIRES.

He meintained a large herd on his stock farm at Gladstone, Minn., and to encourage the breeding of PROFITABLE DAIRY CATTLE, he gave many bulls to farmers along his railroad lines. If a man of his ability saw the PROFIT in AYRSHIRES, isn't the breed at least worth your investigation?

AYRSHIRE BREEDERS' ASSOCIATION

C. M. Winslow, Sec'y 33 Park St., Brandon, Vt.

SHORTHORN CATTLE.

Barber Shorthorns

For Sale—Twenty coming yearling bulls, 20 yearling bulls, 40 cows and heifers, Scotch and Scotch topped. We have what you want. Come and see our cattle. Three hundred head in herd.

F. C. Barber & Sons SKIDMORE - - - - MISSOURI

OUR HERD BULL

Abbotsford Lad 2d 395841, pure Scotch, deep red and a good breder, three years old, priced to sell quick. We are keeping every helfer calf sired by him, also some young bulls six to ten months, CHESTER A. CHAPMAN, Ellsworth, Kan.

Sycamore Springs Shorthorns
Master of Dale by the great Avondale
heads herd. A few young Scotch bulls and
bred heifers for sale.

H. M. HILL - LAFONTAINE, KANSAS

CEDAR HEIGHTS SHORTHORMS

For Sale—One Lavender bull, 14 months old; one Orange Blossom, 10 months old; one Golden Drop, 10 months old.
HARRY T. FORBES
Bell Phone 59 N-1, Route 8, Topeka, Kansas

Lowemont Shorthorns — Bulls, including white 2-yr.-o'd; 18 cows and heigers; priced right. E. E. Heacock & Son, Hartford, Kansas.

RED POLLED CATTLE.

Red Polled Catt

A few 1916 fall bull calves for sale. Also a few cows and heifers.

AULD BROS. - FRANKFORT, KANSAS

POLLED BULLS

FORTY yearling bulls, big rugged fellows, sired by ton sires; all registered and priced reasonably. Will sell a few females. E. E. FRIZELL, Frizell, Pawnee Co., Kansas

AUCTIONEERS.

Live Stock and Farm Auctioneer Write or wire for date. I can please you. LAFE BURGER, WELLINGTON, KANSAS

FRANK J. ZAUN Live Stock Auctioneer. Write or wire for date. Independence, Missouri

LESTER R. HAMILTON
Live Stock Auctioneer
Write for terms and date. Clarksdale, Mo.



P. M. GROSS MACON. MISSOURI LIVE STOCK AUCTIONEER Pure Bred Sales a Specialty "Twelve Years on the

Sales Made Anywhere

Breeders' Directory

ANGUS CATTLE.

Geo. M. McAdam, Holton, Kan.
Geo. A. Deitrich, Carbondale, Kan.
D. J. White, Clements, Kan. RED POLLED CATTLE, Mahlon Groenmiller, Pomona, Kansas.

C. E. Bean, Garnett, Kansas.

DORSET-HORN SHEEP.

H. C. LaTourette, Route 2. Oberlin, Kan.

JERSEY CATTLE. J. B. Porter & Son, Mayetta, Kan. HORSES AND MULES.

HORSES AND MULES.

PIONEER STUD FARM-Established 1870

FIFTY REGISTERED STALLIONS AND MARES

JUST ARRIVED—A new shipment of stallions and mares. If you are in the market for a good Percheron stallion or mare, now is the time. We can show you more bone, size, action and conformation than you will find elsewhere. Write or come today.

C. W. LAMER & SON

SALINA, KANSAS

PRAIRIE VIEW STOCK FARM



MARES AND FILLIES **ABOUT ALL SOLD**

A few good ones left. Fifty head of stal-lions and mares. Thirty head of stallions, including Percherons, Belgians and Coach stallions, 2 to 6 years old. All for sale at hard times prices. Come and see me. J. M. NOLAN - PAOLA, KANSAS

40 Head Percheron Staffions 40

Two to six years old, heavy bone, right in every way. Imported Spanish jack, weight 1,200 pounds, at head of jennet herd. Come and see us. We mean business. Prices reasonable.

J. P. & M. H. MALONE

KANSAS

SIX BREEDS DRAFT STALLIONS Pedigree and guarantee with each, \$450 and I. LITTLE, Good Block, Des Moines, Ia.

POLAND CHINAS

Poland China Boars and Gilts

Twenty-five early spring boars and twenty-five glits. Sired by I Am King of Wonder and Watt's King. WM. WATT & SON - GREEN CITY, MO.

TOWA KING BRED SOW SALE FEB. I Will Sell 46 Head of Tops. Am offering now some choice herd boar prospects, June and July pigs. All immune. Send for cat-alog of sow sale and price on boars. P. M. ANDERSON, LATHBOP, MISSOURI

Henry's Big-Type Polands
Fall pigs, either sex, sired by Mammoth Orange. Special price of \$15 each to make room for spring litters.

TOWNVIEW FARM Big-Type Poland Chinas. For Sale—25 summer and fall gilts, sired by Miller's Bloux Chief and out of Lady Longfellow. Bred for late spring litters, Also 25 summer boars. Come and see my herd. C. E. GREENE - PEABODY, KANSAS

BIG-BONED IMMUNE POLANDS Both sexes, July and August farrow. Best big-type breeding. Choice individuals. Also bred gilts. All sired by that great boar, Chief Miami. Dams 600 to 700 pounds. Remember this is the home of largest boned boar of the breed. WALTER B. BROWN, PERRY, KANSAS.

Size and Quality Polands

Five big-type gilts, weight 150 pounds each, bred for February, March and April farrow. \$35 each. Two good tried sows, priced to sell. Choice lot of summer sow pigs, weight 150 pounds and over, \$18 each or two for \$35. Fail pigs, \$15 each, two for \$25, sired by 1,000-pound boars, out of extra large sows.

OTTO PLAGAMANN, EUREKA, MISSOURI

ARKELL'S BIG POLANDS April and March bred sits by Longfellow Again and Chief Big Bone, weight 225 to 275 pounds. They are bred to Arkell's Big Timm. Also a few bred sows. Priced right JAS. ARKELL, JUNCTION CITY, KANSAS

OLD OBIGINAL SPOTTED POLANDS Stock of all ages, sired by seven of the very best boars of the East and West. Priced right. Write your wants to the CEDAR EOW STOCK FARM A. S. Alexander, Prop. Burlington, Kansas

Lone Cedar Poland China Herd Good spring boars by Meyer's Orange and out of mature sows, at farmer's prices for thirty days; also fail and spring gits, bred or open. Weanling pigs cheap. All immune.

McLOUTH, KANSAS A. A. MEYER -LANGFORD'S SPOTTED POLANDS
Boars — Serviceable age, guaranteed to
lease. Breeding stock, both sexes. T. T. LANGFORD & SONS, Jamesport, Mo.

Home-Bred Draft Stallions, your choice \$500 with the exception of two. Also mares for sale. A. Latimer Wilson, Creston, Iowa

PERCHERONS-BELGIANS Imported and home-grown 4 and 5 yr. eld stallions, ton and heavier, 5 yr. olds, 2 yr. olds, yearlings. Produce of 52 imported mares and noted prize winning imported mares and noted prize winning imported mares are Farmers prices. Frest Chassier, R.7, Chariton, lows. (Above Kansas City.)

PERCHERONS FOR SALE

Five head pure-bred Percherons - Two mares, one 2-year-old stallion, two last spring colts. All good ones. Low price to the man that takes all. J. W. BARNHART, BUTLER, MISSOURI

FOUR BIG JACKS FOR SALE



JACKS AND JENNETS 15 Large Mammoth Black
Jacks for sale, ages from
2 to 6 years; large, heavyboned. Special prices for fail
and winter sales. Fifteen good
jennets for sale. Come and
see me.
PHIL WALKER,
Moline, Elk County, Kansas

Barn Full of Percheron Stalliens and Mares. Twenty-five mature and aged jacks, Priced to sell. AL, E. SMITH, Lawrence, Kansas.

REGISTERED PERCHERON STALLIONS r sale at their actual cash value. Barn in town. A. H. SEYMOUR, GREAT BEND, KANSAS

DUROC JERSEYS.

TWENTY FIVE SPRING BOARS

Sired by Crimson Wonder Again Jr., first prize boar at Topeka Fair, 1916, and G. M.'s Grimson Wonder. Big rugged fellows reads for service. Immunized and priced to sell. G. M. SHEPHERD - LYONS, KANSAS

QUARANTEED DUROC BRED GILTS

Immune Duroc glits with size, bone and stretch. Guaranteed in farrow. Shipped to you before you pay. F. C. CEOCKER, BOX K, FILLEY, NEB.

For Sale—Thirty spring gitts bred for March and April farrow; fen boars for service; a few fall pigs. All immune, eligible to record. Out of prolific sows and by boars of state fair prize blood. S. Y. THORNTON, Blackwater, Missouri, on Missouri Pacific Ry.

GALLOWAY CATTLE.

GALLOWAY BULLS

SIXTY yearling and two-year-old bulls, strong and rugged; farmer bulls, have been range-grown. Will price a few cows and helfers. E. E. FRIZELL, Frizell, Pawnee Co., Kansas

HAMPSHIRE HOGS

ATTEBEBRY'S HAMPSHIRE HOGS Choice July boars, best breeding, \$12.50 each. They are bargains. ATTEBERRY & SONS Lancaster - Missouri

POLLED DURHAM CATTLE.

POLLED DURHAM BULLS

Choice bull calves out of Belle's Hero, he by Roan Hero. Reds and roans, Also a few helfers and cows bred to this same bull. C. M. ALBRIGHT, OVERBROOK, KANSAS DOUBLE STANDARD POLLED DURHAMS Bulls for sale. "Forest Sultan" at head of herd. C. M. HOWARD, Hammond, Kansas,

ANGUS CATTLE

EDGEWOOD FARM

ABERDEEN-ANGUS CATTLE
Twenty-five young bulls, also some good
cows and heifers for sale. All registered.
D. J. WHITE CLEMENTS WANGAG.

Main line of A. T. & S. F. Ry., 145 Miles of Kaneas City.

Buy Big-Type Mulefoot Hogs from Amerchampion herd. Low cash prices. Big catalog free. Jno. Dunlap, Williamsport, O.

We will not hold a spring sale. Our show herd will be at Wichita, Kansas, Oklahoma City, and Fort Worth, Texas. We have for sale forty bred sows and gilts bred to our four herd boars, also 125 high class fall pigs, boars and gilts.

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H. O. SHELDEN, HERDSMAN THE DEMING RANCH,

A CONTRACTOR OF THE PROPERTY O

OSWEGO, KANSAS

HOLSTEIN CATTLE.

HOLSTEIN CATTLE.

AURER'S HOLSTEIN FA

Offers a number of pure-bred cows and helfers from noted sires with high record A. R. O. dams; a number of nicely marked helfer and bull calves also having high record A. R. O. dams and well known sires, and high grade helfers and cows, all at reasonable prices, Before you buy, write, wire or call.

T. R. MAURER & COMPANY,

EMPORIA, KANSAS

F. W. ROBISON, Cashler Towards State Bank CLYDE GIROD, At the Farm HOLSTEIN-FRIESIAN FARM, TOWANDA, KANSAS

Breeders of pure-bred Holsteins. Special attractions in choice young bulls ready for service, with fashionable breeding. Write for pedigrees and prices. We maintain a breeding herd of pure-bred females and offer a grand lot of young springing helders and cows, a number with A. R. O. records at prices within reason. IT WILL PAY YOU TO SEE OUR OFFERING
Of choice extra high grade young cows and helfers, all springers in calf to pure-bred sires; large developed females, good udders, well marked and the right dairy type at prices that will challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone.

GIROD & ROBISON



This splendid registered Holstein bull calf for sale. His individuality is practically faultless and his breeding just as good. Priced right.
A. S. NEALE - MANHATTAN, KANSAS

Bonnie View Stock Farm Durec Jerseys and Holsteins

PUBLIC SALE FEBRUARY 19. 20 Holsteins and 15 bred sows. Write for sale bill.

Searle & Cottle, . Berryton, Kansas

Braeburn Holsteins A. B. O. BULL. H. B. Cowles, 608 Kansas Av., Topeka, Kan.

Real Estate For Sale

TO CLOSE ESTATE

One hundred acres rich Kaw Valley farm, no waste, one-half mile to station, two miles to good town and high school; fine improvements. Write or telephone.

B. L. FOWLER, Executor, PERRY, KAN.

40 ACRES, 5 miles McAlester, city 15,000. 23 acres fine bottom, cult.; fair improvements. \$26 per acre. Terms. SOUTHERN REALTY CO., McAlester, Okla.

Virginia Farms and Homes Free Catalogue of Splendid Bargains. R. B. CHAFFIN & CO., Inc., Richmond, Va.

280-ACRE FARM located 2 miles good town, Franklin County, in proven oil field; fair improvements, 30 acres tame grass, 140 acres native meadow and pasture, remainder in cultivation; good orchard, well watered. A big bargain for immediate sale at \$50 per acre. Possession at once. Write for full description of this or any size farm you may want. Mansfield Land Co., Ottawa, Kansas.

160 ACRES, 6 miles Adrian, Mo. All smooth land, 25 acres in wheat, 40 acres in tame hay, remainder cultivation; 95 acres fenced hog-tight; fair improvements. Price right, easy terms for immediate sale.
MANSTIELD LAND CO., Ottawa, Kansas.

FARM AND HERD.

Catalogs are out for the J. S. Turner Poland China bred sow sale to be held at Fairfax, Mo., February 10, 1917. This year Mr. Turner has catalogued thirty-six head, twelve tried sows and twenty-four fall-year-ling gilts bred for March and April litters. The sows and gilts will be bred to the three great boars, King Alexander by King's Equal and out of an Expansion-Tecumseh bred dam; Model Big Bob Jr. by Head & Leonard's Model Big Bob Jr. by Head & Leonard's Model Big Bob and out of a dam by Long Jumbo 2d, now at head of U. S. Byrne's herd; Robinette by Robidoux, a litter brother to Robin Hood, is also used in the herd. The offering is a very useful lot and the kind that is profitable to farmers and breeders.

Catalogs are out for A. J. Erhart & Son's Poland China bred sow sale to be held at Hutchinson, Kansas, February 22. This year they have catalogued sixty-three head of sows and gilts by such boars as the grand champion Big Hadley Jr., Orphan Big Gun, Young Orphan, King Price Wonder, and Big Bob Jr. They are all bred to the great herd boars of the Erhart herd.

T. R. Maurer, of Maurer's Holstein Farm, Emporia, Kansas, reports his herd doig well. Mr. Maurer has a two-year-old heifer in his herd that is a niece of the new world's record cow, Segis Fayne Johannah, and a five-weeks-old bull calf that is a nephew of the champion.

F. J. Searle, of Oskaloosa, Kansas, owner of the famous Sunflower Herd of Holsteins, announces that he will hold his fifth annual sale some time during the coming spring, probably in April. He expects to have an offering that will surpass any ever sold in his sales, and it will include thirty-five and forty-pound breeding and a number of A. R. O. cows. He expects to catalog 150 head of cows, helfers and bulls.

Purebred Registered HOLSTEIN

The underlative facts that the Holstein-Friesian Association of America is the largest and most presperous dairy cattle association in America, that its membership is over 7,950 more than the combined memberships of the other dairy cattle associations, and that it increased its membership by 1,260 during the fiscal year ending April 30, 1816, are primarily a fitting testimonial to the superior merits of the pure-bred Heistein-Friesian cow, that yields more milk for a day, for a year, for a life-time and for profit than any other cow. There is big money in the big "Black and White" Holsteins.

and for FREE Dissertated Descriptive Booklet The Heistein-Friecian Association of America F. L. Houghton, Sec'y. | Best 114, Brattlebere, Vt.

REGISTERED HOLSTEINS

We want to cut down our herd. Will sell ten or twelve choice cows, most of them young, also a tew helfers.

M. E. MOORE & CO. - CAMERON, MO.

HOLSTEIN COWS

Holstein cows, springers or bred heifers. Very large, good markings, out of best milk-ing strains, bred to pure-bred bulls of the very best blood. Special prices on carload lots. J. C. ROBISON, TOWANDA, KANSAS

CORYDALE FARM HERD

Offers for sale four bull calves two to four months, sired by Jewel Paul Butter Boy 94245. These calves are all nicely marked and from good milkers.

L. F. CORY & SON, BELLEVILLE, KAN.

Sunflower Hord Heisteins

Watch for Date of Big Public Sale.

150 head bred for production. Get catalog early.

F. J. SEARLE - OSKALOOSA, KANSAS

Butter Bred Holsteins Buy your next buil calf from a herd that won the butter test over all breeds. J. P. MAST - SCRANTON, KANSAS

The Cedar Lane Holstein Herd We are now offering some exceptionally good bulls of serviceable ages at very attractive prices. These caives are sired by our 23.4-pound grandson of Pontiac Korndyke.

T. M. EWING, INDEPENDENCE, KANSAS

Wichita Helstein Herd

High grade and registered cows, some heifers and heifer calves at reasonable prices. Buil calves at \$19 and up. Wichite Helstein Herd, B. 4, Wichite, Kan.

BONNIE BRAE HOLSTEINS Registered bulls from calves to 5 months old. Best breeding and good individuals. IBA ROMIG - TOPEKA, KANSAS

LILAC DAIRY FARM

Route No. 2. Topeka, Kansas. BREEDERS OF PURE-BRED HOLSTEINS Bulls from A. R. O. cows, all ages, for sale.

GOLDEN BELT HOLSTEIN HERD
Herd headed by Sir Korndyke Bess Heilo
No. 165946, the long distance sire. His dam,
grand dam and dam's two sisters average
better than 1,200 pounds butter in one year.
Young bulls of serviceable are for sale. Young buils of serviceable age for eale. W. E. BENTLEY, MANHATTAN, KANSAS

Holstein-Friesian A. R. O. bulls ready for service. World's record blood flows in their veins.

G. REGIER & SONS, WHITEWATER, KAN.

HOLSTEIN CALVES—Ten heifers and two bulls, 15-16ths pure, beautifully marked, 5 weeks old, from heavy neithers. \$29 each, crated for shipment anywhere, Write EDGEWOOD FASM, Whitewater, Wis.

TREDICO BULLS G. C. T. Kingman, Kansas

HOLSTEIN CALVES.

Very high grade heifer calves, five weeks old, nicely marked, \$20 each delivered to your station. We can supply you with registered or high grade. Holsteins, any age or number, at reasonable prices. Clover Valley Holstein Farm, Whitewater, Wis.

Poland China Bred Sow Sale



CALDWELL'S BIG BOB 76436—WORLD'S CHAMPION SENIOR YEARLING AND SENSATION OF 1916 SHOWS

Is the Topliner in the First Sale of the Southern Kansas Circuit at

Howard, Kansas, Tuesday, February 20, 1917
40 Head - 25 Sowe and 67th Bred to Him--- 15 Head of Gills Sired by Him - 40 Head

Daughters of Caldwell's Big Bob are bred to Expansion Bud 82486, an outstanding spring prospect by Expansion Sure.

FRED B. CALDWELL, - HOWARD, KANSAS

EVERYTHING IMMUNE. — Watch for further announcements—Send for the catalog. Attend this sale if possible.

O. W. Devine will represent Kansas Farmer.

Poland China Bred Sow Sale

At Danville, Kansas, Friday, February 23, 1917

A SUPERB OFFERING OF SIXTY HEAD OF TRIED SOWS, YEARLINGS AND SPRING GILTS
Right as to individuality and breeding. All immune. Offering bred to A Wonderful King, Logan Price, and Smooth
Jumbo by Quality Hutch.

OUR 1916 WINNINGS:

TOPEKA.

First and third aged boars; second senior yearling boar; third junior yearling boar; third junior boar pig; first and third senior yearling sow; first on aged herd and aged herd bred by exhibitor.

KANSAS FUTURITY.

Third spring boar; third and fourth fall boars; seventh spring sows; fifth and sixth fall sows; sixth and seventh spring litters.

MUSKOGEE.

Grand champion boar; first and second aged boars; second senior yearling boar; first junior yearling boar; second and third senior boar pigs; fourth senior yearling sow;

second aged herd and aged herd bred by exhibitor; third young herd and young herd bred by exhibitor.

HUTCHINSON.

Grand champion boar; junior champion boar; first and second aged boars; first senior yearling boar; first junior yearling boar; first and second senior yearling sows; first aged herd; second young herd; second on produce of sow.

DALLAS.

Grand champion boar; first and second aged boars; first, second and third junior yearling boars; second senior boar pig; third aged sow; second, third and fourth senior yearling sows; third and fourth junior yearling sows; first and junior champion on senior sow pig; first on aged herd and aged herd bred by exhibitor; first on get of boar.

We Breed the Kind That Win the Ribbons

And make money for the farmers. Grow quick and fatten easy. Remember our sale. Send in your name for the catalog, and plan to attend this sale.

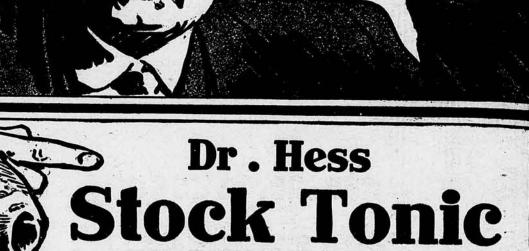
FRANCOIS OLIVIER & SONS, DANVILLE, KANS,

Mention Kansas Farmer and write today for catalog.

O. W. Devine will represent Kansas Farmer at sale.



When Your Animals Get "Off Feed" and Do Not Thrive



Gets Rid of Worms Makes Stock Healthy

We are now in the dead of winter. Animals are closely stabled and on dry feed. You are crowding them. You want them to eat well and turn their feed to good account. Remember, your animals are not out on pasture. It is up to you to supply the laxatives and tonics and blood purifiers. Dr. Hess Stock Tonic will

Condition Your Animals

It cleans out the worms and improves the appetite. They will then eat their feed with a relish because worms will not be distressing them. They will be free to digest, assimilate and get the good out of their feed. Dr. Hess Stock Tonic is not a secret preparation. Here are some of the ingredients and what they do—the same for animals as for the human family. Ask any doctor, consult any medical work:

Nux Vomica, nerve tonic, aids digestion.
Quassia, tonic and worm expeller.
Sulphate of Iron, blood builder, worm expeller.
Charcoal, prevents unhealthy fermentation.

Your Veter-Inary Bills

When you have a sick or injured a nimal, write me, telling symptoms. Enclose

> Salphate of Soda, a laxative and liver tonic. Epsom Salts, a laxative. Nitrate of Potash, acts on the kidneys. Focaugreek, a flavor.

You will be well repaid for this special care of your live stock. Horses will be in condition for spring work, cows for heavy milking, sheep will fatten up, hogs will be free from worms and make larger growth.

Why Pay the Peddler Twice My Price?

My Stock Tonic is never peddled. It is sold only by reputable dealers — 28,000 dealers in the United States and Canada. You buy it from the dealer in your town, a man with whom you trade every week, at rock-bottom prices.

25-lb. pail, \$2.00; 100-lb. drum, \$6.50

Smaller packages as low as 50c (except in Canada and the far West and the South).

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

Dr. Hess Poultry Pan-a-ce-a

This is just the time you should be giving your poultry this splendid tonic. It will put them in fine condition, make your hens lay, insure fertile hatching eggs and strong, vigorous chicks. Very economical—a penny's worth is enough for 30 fowl per day. Sold only by reliable dealers—1½ lbs. 25c; 5 lbs. 60c; 12 lbs. \$1.25; 25-lb. pail, \$2.50 (except in Canada and the far West). Guaranteed.

Dr. Hess Instant Louse Killer

Kills lice on poultry and farm stock. Provide your hens with a dust bath, to which add Dr. Hess Instant Louse Killer occasionally. The hens will do the rest. For lice on stock, with one hand rub against the halr and with the other sift the Louse Killer. Rub thoroughly into the skin, I lb. 25c; 3 lbs. 60c (except in Canada).

96-page Veterinary Book free for the asking

DR. HESS & CLARK, Ashland, Ohio