

KANSAS FARMER

For the improvement of the Farm and Home

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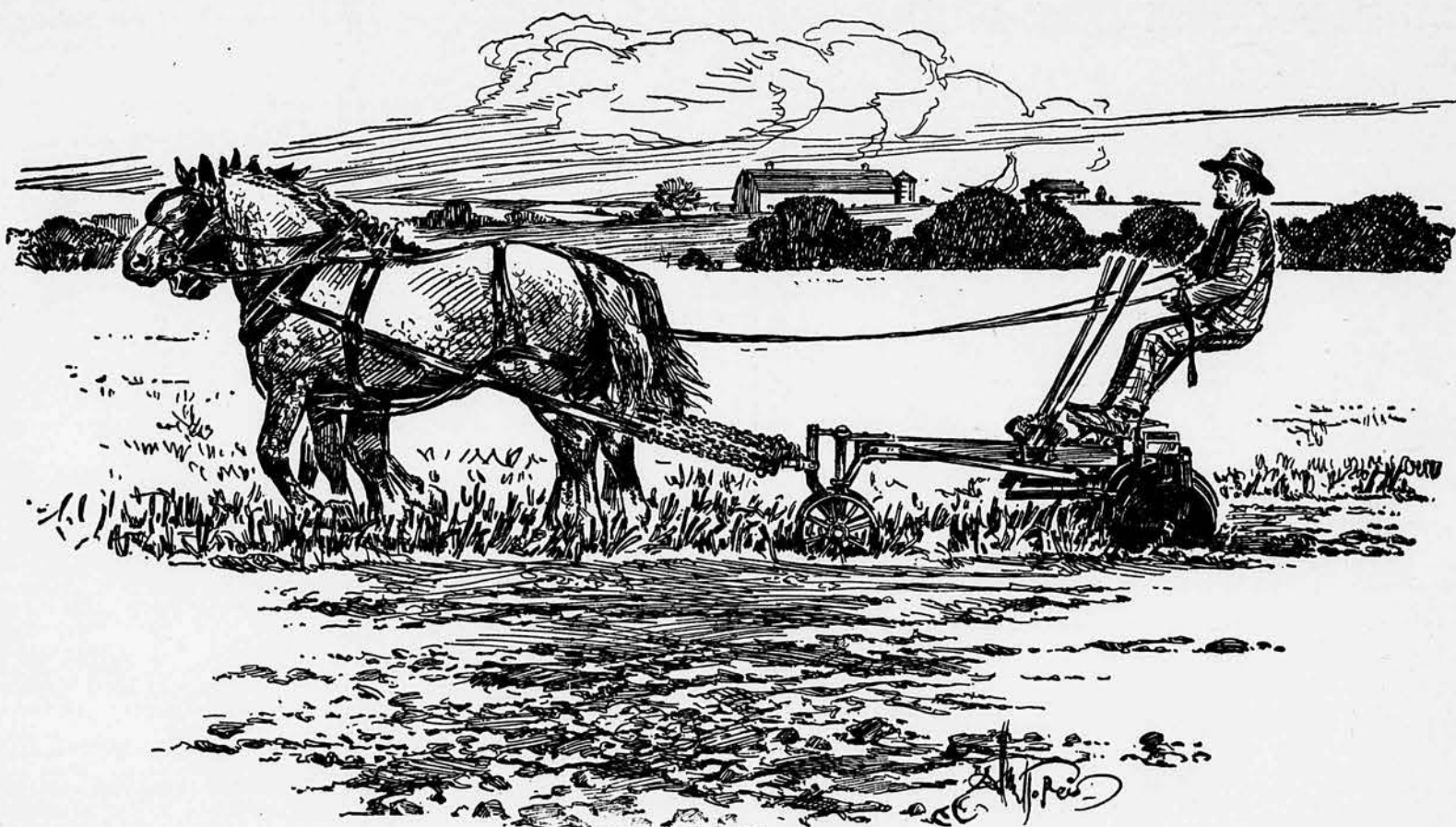
THE supply of available plant food in soil is largely dependent upon the amount of decaying vegetation it contains. Soil without humus is dead and inert.

Soil-building is an essential part of good farming. Fertility is constantly being lost. Man, as a soil-builder, must follow Nature's methods. All dead vegetation should be added to the soil. There is an unusually large amount of this to turn under this Spring.

By cutting up the stalks and other rubbish as early as possible, a large addition can be made to the humus supply. Even the subsoil can be made productive by mingling with it decaying vegetation. To burn this material means to lose the chance to do some soil building.

Besides cutting up the stalks, disking in advance of the plow or lister is an ideal method of preparing the seed bed for corn, kafir, or cane. To be most effective, it should be done as early as the land can be worked.

G. C. W.



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Federal Inspection of Grain

By CHESTER A. LEINBACH

THERE are two bills before the present Congress relative to grain inspection. It is to the interest of the farmer to know what the two are and what each one promises him. Briefly speaking, the Moss bill provides for federal supervision, while the Curtis bill provides for federal inspection.

The Moss bill provided for inspections to be made by the same authority which makes them at the present time. There are eight of the forty-eight states which have state inspectors: Kansas, Illinois, Wisconsin, Minnesota, Oklahoma, Washington, Montana and Missouri. In all other states, grain is graded by Board of Trade or Chamber of Commerce inspectors, and in the eight states just mentioned, the Boards of Trade and Chambers of Commerce have inspectors who inspect and grade interstate shipments, and deals made between members of the Board of Trade. The Moss bill proposes to give these state and Board of Trade inspectors authority to inspect interstate shipments on the government standards, without compensation from the government in any way. Such inspectors would then be performing a dual service; first, that to the state or Board of trade which hires them and pays them; and second, to the federal government, without pay. If any person should be dissatisfied with the grade of an interstate shipment thus made, he could appeal to the supervisor at the nearest point. These supervisors are to be persons appointed by the Secretary of Agriculture. The bill itself does not provide for these, but the persons who framed it state that such is the intention. The bill says that the appeal is to be taken to the Secretary of Agriculture. The supervisor would then inspect the shipment and grade it. The bill does not require that interstate shipments shall be inspected, but simply that if the shipment is shipped on grade it must conform to one of the standard grades; but the shipper may have same inspected by a licensed inspector and ship on the grade thus established, provided there is a licensed inspector at the point of shipment.

If this bill becomes a law, it will not help the farmer or country shipper, because there would be no inspector at the point of shipment and he could not demand inspection at the terminal point since he has not shipped on grade. He cannot ship on grade, for, if his shipment did not conform to grade on inspection at the terminal point, he would be subject to arrest and fine. The terminal grain dealers could continue to buy, sell and ship on sample or on their own inspection. What inspections would be made under this bill would be made by the same authority which makes the inspections and fixes the grades at the present time. It would not be done by federal inspectors, but by state, Board of Trade or Chamber of Commerce inspectors, subject to supervision in case either interested party appealed. In other words, this bill leaves the whole business just where it is now.

The Curtis bill provides for a corps of federal inspectors at terminal points, and at other places where the fees collected would pay the expense of inspection. It requires inspection of all interstate shipments at the point of shipment or at the terminal point, if there is an inspector at one or both places. It requires inspection of all grain loaded out of elevators for interstate shipment, and requires the elevator man to furnish the inspector a statement showing the kind and quality of the grain loaded and whether grain of different grades has been mixed and how much of each grade. It requires the inspector to place a certificate of the inspection inside the car.

This bill, if it becomes a law, will be of the greatest benefit to the farmer and country shipper. Under the present method the grain dealers at terminal points buy the grain from the shipper at a low grade, then raise the grade and sell. In support of this we shall quote from the testimony before the House committee:

"Mr. Moss.—Well, is it true at the principal warehouses that the lower grades do disappear—that is, they buy grain at a low grade which disappears and the grain goes out as higher grades; is that true?"

"Mr. Duvell.—That is true in most cases; yes."

In the report of the House Committee on Agriculture, H. R. 14493, is the testimony of Mr. D. H. Stuhr, of Davenport, Iowa, which tells how the system works. We quote parts as follows:

"Mr. Stuhr.—I have been in the grain business close to forty years. Have handled millions upon millions of bushels of barley and like amounts of oats by grade and by sample, have hedged with option futures against cash holdings, have bought and sold futures pure and simple from a speculative standpoint, have done business all over the United States, have had selling brokers and agents in all the leading markets and buying agents all over the West and Northwestern States, have operated country elevators and bought direct from the farmers, operated transit terminal elevators as well as large terminal elevators at or near the regular terminal markets."

"Mr. Haugen.—Take just one transaction from one end to the other."

"Mr. Stuhr.—I will take one transaction. There is a No. 2 feed car at Waupeton, N. D. For that barley he, the buyer, paid the farmer 40 cents. He bought it as No. 2 feed barley, subject to two pounds dockage."

"Mr. Haugen.—In Waupeton?"

"Mr. Stuhr.—Yes."

"Mr. Haugen.—Who inspected it at Waupeton?"

"Mr. Stuhr.—The grain buyer. This car of barley he bought of a farmer at 40 cents. He bought it at fifty pounds to the bushel; he bought it subject to this dockage. This car was shipped to Minneapolis; the rate of freight, the commission and weighing charges, and inspection charges amounted to about 7½ cents a bushel. This barley was sold at 58 cents a bushel; not by certification, but by sample on its merits."

For the benefit of the reader we will explain that this car was again inspected at Minneapolis, by an inspector, which inspection was reported back to the buyer, so that he might show same to the farmer in case he inquired as to how that car had graded at the terminal market; and the inspection made at Minneapolis was No. 2 feed barley.

"Mr. Haugen.—And it sold at 58 cents?"

"Mr. Stuhr.—Yes."

"Mr. Haugen.—It sold as feed barley?"

"Mr. Stuhr.—No; the certification was No. 2 feed barley, but the barley was sold by sample on its merits at 58 cents."

"Mr. Haugen.—In fact it was malting barley?"

"Mr. Stuhr.—It was malting barley, as shown by the analytical report from the Pabst Brewing Company, which is a matter of record now."

"Mr. Haugen.—It comes in graded feed barley and is graded out as malting barley?"

"Mr. Stuhr.—It goes out as malting barley, not under certification nor of grade, for sales are made by sample on its merits and not by grade. That holds good on all grain."

Now to sum up this matter, the farmer was cheated out of ten cents on each bushel in the car mentioned, which was 25 per cent of the amount he received. If the Moss bill becomes a law, this same system can be continued, for the farmer could not demand an inspection, and the dealer can continue to sell on sample without an inspection being made. Now you will note that Minnesota is one of the states having a state inspection. Under the Moss bill this same inspection will be continued, in fact there would be no change whatever. And it would make no difference whether the farmer sold to the local buyer or shipped his grain. What would be the result if the Curtis bill becomes a law? On arrival at Minneapolis that car would be inspected by a federal inspector, because the inspection is compulsory. If it was unloaded, when loaded out again it would be once more inspected, and a certificate of the inspection placed in the car. Not only that, but the elevator man when he loaded out would be required to give the inspector a statement as to what the contents of the car was. He could still sell by sample, of course, but the grade would go with the car in any event.

Mr. Stuhr gives us another deal from real life which explains a transaction in 100,000 bushels of oats. He contracted for 100,000 bushels of standard oats and they forced him to take 100,000 bushels of No. 4 oats. We quote him:

"On the second and third days of December, the 100,000 bushels of standard oats were all tendered and delivered on track, Chicago. This was a surprise to me, and I said to Robert Kettles, who was a Board of Trade private inspector, 'You go and inspect those oats; this does not look good to me; I have not seen any standard oats come in.' He went and inspected ten or twenty cars

(Continued on Page 13)



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PREPAREDNESS ON THE FARM.

The word "preparedness" has a military sound in the light of present-day discussions. It suggests the idea of being ready for whatever may come. It is a good policy to adopt in the business of farming. The farmer does not know exactly what a season may bring forth, and for this reason must be prepared for a good many possible contingencies. The weeks preceding the active campaign of planting, cultivating, and harvesting, may be the most profitable weeks of the year, if through the careful planning done during this time, suitable means are provided for overcoming unfavorable conditions.

The most successful military campaigns are nearly always the ones having the most carefully worked out plans. We believe this is true in farming. It sometimes seems as though so many unexpected things can happen that it is not worth while to try to foresee them and discount them in advance. There are, however, certain things that can be counted on to happen with considerable regularity. We know that good seed is essential and that this seed must be put into a well prepared seed bed. We know that the condition of the farm implements has much to do with the rapidity and thoroughness of seed bed preparation. We know that during a portion of the year, at least, moisture is a limiting factor, and the plans made must take this into consideration. The weeds will grow every year, and the more of them killed just as they germinate, the fewer there will be to damage the crop later. We know that the earlier in the season we can get the soil stirred, the sooner we can begin our campaign of weed extermination. Early disking will bring up the first crop of weeds so they can be killed easily and quickly by the other operations of seed bed preparation.

Preparedness may well be the motto of the farmer who would accomplish the most satisfactory results in his work. It simply means using the head—the intellect—in directing the labor of the hand, and this head work should be done before the hard manual labor begins. The man who spends long hours in the field, as is so often necessary, is too tired to think clearly when night comes. If the plans have not been carefully made in advance, the work will likely proceed in a most unsystematic manner.

TIME TO BUY BREEDING HOGS.

When hogs are high, breeders find ready sale for surplus stock at good prices. Everyone will be wanting hogs for breeding purposes and this so increases the demand for well bred stock that the breeder can dispose of his surplus at a good profit. Low prices for pork causes the demand to fall off, and breeders are compelled to sell at lower prices and sometimes so low that there is no profit in the business.

This tendency of the crowd to follow prices of market pork results in regular cycles of over and under-production. This was clearly shown in the price charts published in KANSAS FARMER last fall. These charts covered a period dating back as far as 1868. They showed that prices gradually declined for a year or two and then rose gradually for about the same period. The high points have been about every four or five years. The relation between corn prices and hog prices was also made quite apparent. The highest prices for hogs have usually followed the year in which corn was high.

The lesson for the hog grower would be to try to avoid doing what the crowd is doing. In years of high corn, when there is a tendency to get out of hogs, get ready for the period that is likely to follow. The time to expand in the hog business is when pork prices are down rather than when they are up. Of course, if everyone did this conditions would not be as they are, but this is not likely to happen. When the hog market is unsatisfactory and when breeders are offering their surplus at reasonable prices, it is a good time to stock up, whether you are a breeder or only a producer of market pork. Do not wait until everybody wants them—get some good sows now, and be ready to sell when the demand is strong again. We know

this will happen because it has been happening with regularity for a good many years.

NATIONAL BABY WEEK.

March 4-11 will be observed throughout the United States as Better Babies' Week. The Children's Bureau of the Federal Department of Labor is fostering this movement. The Kansas State Board of Health is co-operating in this work, and hopes to enlist many of the people of the state in this cause in which all should be interested.

The percentage of infant deaths and the large number of life invalids, might be greatly lowered if more were known about the needs of the new-born babe. It is really easier to care for the baby in the right way, than wrongly, for thereby much sickness and unnecessary trouble is avoided.

There is nothing in the world so important as protecting the children and giving them the right start in life, which is their most valuable equipment for the vicissitudes ahead.

One of the features of the campaign is a better babies sermon in every church, March 5. Call this matter to the attention of your minister that he may lend his aid and co-operate with the national and state bureaus in this work.

You can gain much of value to yourself and may be able to greatly benefit your community, by writing today to the Child Hygiene Division of the Kansas State Board of Health, Topeka, for printed matter pertaining to the care of babies. This literature is free to all and will be mailed promptly upon request.

TRACTOR EXPERIMENTING.

A prominent tractor man was quoted recently to the effect that in his judgment rich city farmers could render a real service by putting money into tractors and thus help to develop tractor knowledge. He said there are so many tractors made now that it is no trouble to pick out a good one, but if the rich city fellow should make a mistake and get one that could not make good, he could afford to stand it and his experience would be of value to his community.

This is hard on the city farmer. He may be a public-spirited citizen and be anxious to help advance the cause of agriculture in the neighborhood where he is farming, but turning his farm into a tractor experiment station to weed out the inferior tractors, would be an

expensive business and we cannot see how it would promote the profitable use of farm power. It would seem that the best way for this class of farmers to help the cause would be to apply the same sound business principles in taking up the tractor proposition that they would apply to any other new method—weigh it carefully, select a tractor adapted to conditions, and only after it has been thoroughly demonstrated that it is adapted to conditions. Success with tractors demands more tractor knowledge and it most certainly requires the application of sound business management. The city farmer who will give lessons along this line will be helping the cause along. If he rushes into it headlong, his experience will be likely to have the very opposite effect.

HOG CHOLERA SURVEY.

A knowledge of conditions is always of value in considering means for their improvement. It has been variously estimated that hog cholera has caused losses of from two to ten million dollars in Kansas annually. J. C. Mohler, secretary of the State Board of Agriculture, has just announced that he is going to find out just how bad hog cholera is in Kansas. Heretofore the statistics on losses due to animal diseases have simply given the total number of hogs lost each year. This year the assessors' blanks will be prepared to show the cholera losses separate from those due to other diseases.

This disease is a preventable one but it will call for the widest co-operation of all concerned to wipe it out. One county cannot clean up and stay clean if the counties adjoining persist in letting so serious a disease as hog cholera go unchecked. The securing of actual figures as to the losses in various sections should lead to the adoption of uniform rules and regulations for its control.

Some of the farmers who attended the marketing conference in Chicago last fall, felt that such a meeting more largely attended by active farmers would accomplish greater results in getting at the farmers' viewpoint. Such meeting has been called at Kansas City, February 21, 22 and 23, with headquarters at the Hotel Savoy. This meeting is evidently to be a real farmers' meeting, as according to the announcement, no one will be permitted to take part without first qualifying as a farmer through proper credentials.

FEEDERS TOO HIGH.

The big packers had their representatives in attendance at the recent meeting of the Kansas Live Stock Association held in Wichita. This representation of the packers in such a meeting of cattlemen, is most significant. It shows that this end of the meat industry is not ignoring the producer. In other words, the packer has his ear to the ground. At this meeting Edward Morris, Jr., asked for a hearing, and was given an opportunity to present the packers' side. He insisted that cattlemen were misinformed as to the attitude of the packers, and stated that his company was ready and willing to supply any and all information at their command to show how their business is conducted. A Swift representative stated that on an overturn of one and one-half billion dollars in business during 1915, the profit of his company was two and eight-tenths per cent on each dollar's worth of business transacted. This would amount to about one-fourth cent profit a pound. He gave \$68 as the average live weight cost of the cattle handled by his company. The beef brought an average of \$57 a steer, and the profit per steer was \$1.57, this profit being made through the saving and utilization of the by-products.

The cattlemen gave close attention to what was said, but in their official action they endorsed the resolution for investigating the control these big concerns seem to have over the marketing end of the cattle business. The feeding end of the business has been most unprofitable in recent years. There is no getting around this. Feeders must either get more for the stock when finished, or they must be able to get the feeders at lower prices. The high prices of stock and feeding cattle have given big profits to the grower, but the business of meat production must stand as a whole. If the feeders are forced out, what will become of the grower and the packer?

There is a limit to the price people can pay for meat. When it gets too high they simply do not buy as much. It is a vast and complicated business and no one phase of it can continue to reap unusual profits at the expense of the others.

GOOD ROADS INCREASE CREDIT.

A Kansas City banker made the statement that from \$10 to \$25 more an acre could be borrowed on land located on a rock road than on land located on a dirt road. When a loan is to be made on a farm, everything that has to do with its selling value and its capacity for profitable production, is taken into consideration. The road connecting the farm with the market is an important factor in establishing its selling value and likewise its capacity for profit. This statement of the banker is undoubtedly a conservative one. People generally are beginning to see that the road question is one in which all are financially interested. Roads cost money, but money well invested is bringing good returns.

In some communities where a few years ago they would not listen to any discussion of permanent roads, they are now anxiously seeking this information. We met State Highway Engineer Gearhart recently on a train, and he told us of an instance where he had been almost hooted down a few years before because he suggested some advanced ideas in road-building. He had just been to this same place and had been met at the station by a committee and was asked to tell them about making some real roads—the very kind of information he had attempted to give at the time of his previous visit and which they would not consider.

Now that the importance of good roads is being considered from a financial standpoint, we can begin to look for more investment in the making of roads.

HOLSTEIN MEN WILL BANQUET.

W. H. Mott, of Herington, is in charge of the banquet arrangements for the Holstein Breeders' meeting to be held in that city March 1. This will be an important meeting for those interested in this breed of dairy cattle, and Mr. Mott would like to hear at once from those who are planning to attend.

Boys And Girls Of Kansas

Let Us Start You In Business For Yourself

KANSAS FARMER announces a Junior Dairy Club for our subscribers' boys and girls.

In this great undertaking Kansas Farmer has the co-operation of the best business institutions in the state. It is the greatest opportunity ever offered to our boys and girls.

The plans of the Junior Dairy Club will be fully outlined in next week's Kansas Farmer.

There will be hundreds of dollars' worth of prizes.

Watch for this announcement!

Boys' and Girls' Club Work in Kansas

Some of the Members of the Different Clubs tell of Their Experiences the Past Year

THE boys' and girls' club work carried on in our state jointly by the agricultural college and the Federal Department of Agriculture, has scarcely been launched, but an excellent beginning has been made and the work done has borne fruit and will continue to do so indefinitely. Every club member who has experienced the satisfaction of having grown a good crop or a good pig, or whose efforts in any of the lines promoted have been successful, will not stop with one year's work, but will go on and do more and better each year. And these will consciously and unconsciously be the means of adding new members.

So far, the clubs organized cover work in the following lines: Corn growing; sorghums—including kafir, feterita, and milo; pigs; poultry; tomatoes; potatoes; gardening and canning; square-rod garden; cooking; sewing; farm and home handicraft.

In addition to the above, the mother-daughter canning clubs have also made a good beginning. The members join this club in pairs—a mother and daughter enrolling together. Or, if a woman has no daughter, she has the privilege of mothering some other mother's daughter through the club season, and these two enroll together. There is no age requirement for the mothers, but the daughters must be between the ages of ten and eighteen years. The objects of these clubs are several, being to cultivate closer co-operation between mother and daughter in home interests and activities; to teach better methods of home canning and the use of labor-saving devices; to encourage the average family to have a liberal supply of fruits and vegetables for the entire year—a balanced ration for winter months as well as for the summer months; to suggest methods of correlating the home-canning interests with the work of the school as especially related to the subjects of agriculture and home economics; to furnish, through the projects of home canning, an easy approach to the study of other home interests and problems; and others.

One of the liveliest mother-daughter canning clubs in the state is at Glenwood, in Leavenworth County. In their work last summer the members of this club used home-made outfits, wash boilers, lard pails, specially made canners, and steam pressure canners. The work as a whole was a great success. Several of the members canned a thousand quarts last year, one having 75 varieties, and another 88 varieties.

The past year the corn clubs led all others in numbers, with an enrollment of 625. Gardening and canning came second, kafir clubs third, sewing fourth. Lyon County led in membership, there being 182 boys and girls in the four different club projects promoted in that county. Jewell County was second, Edwards third.

One of the club requirements is that there must be at least six boys or girls to organize a club. Taking the state as a whole, there are now something like 210 clubs with a total enrollment of 3,004 according to our last report. That includes the dropping of all of those who have given up their work for various reasons. This makes an average of something like fifteen members to each club. Of course, in some sections there are as many as twenty-five or thirty or even forty, while in other communities the club drops down to the minimum requirement.

In the state contest to which all club members are eligible, not only are results considered, but the stories of the operations have an important part, also. The following story, which helped Laura M. Darr, fourteen years old, of Lyon County, win fifth place in the state pig-raising contest, is interestingly told:

"I wanted to enter the contest, so my father gave me some pigs. He told me I could pick four out of a bunch of pigs, so I picked them out and we carried them in sacks to the pen where I kept them all summer. We had two in a sack

and they weighed about twenty-five pounds apiece.

"When I began feeding them, May 9, they were about two and one-half months old. The first thing I gave them was buttermilk, then I began on regular rations with skim milk, corn, and ground kafir in the morning; at noon ground kafir and fresh water; at night skim milk, ground kafir and corn. I gradually increased the amount of feed. About two months after I began feeding them I ran out of the ground kafir so I began feeding them shorts and tankage. I used one gallon of shorts and one pound and a quarter of tankage, and about two gallons of water. I mixed this in a slop. I gave them the milk soon after separating it and often had a



LAURA DARR, LYON COUNTY, AND THREE OF HER PIGS

lively time, for they always made a wild rush for it.

"The pigs now weigh about 230 pounds on the average, and I am well pleased with the results of my labor, and am looking forward to their place in the contest.

"They have not been on pasture all summer. They were in a tight pen and were always well supplied with mud.

"I sold the largest one about one month ago, receiving \$25 for him. I think I did well to sell him for that price, as I could not get that for him on the market.

"It cost me \$32.77 to feed four pigs seven and one-half months, an average of \$8.19 apiece, excepting the one I sold about one month ago. I fed him only six and one-half months."

It was a grade of 74.3 per cent that gave this young lady fifth place, and the points were credited as follows: Daily gains, 10.3 per cent; total gains, 15 per cent; cost, 13.4 per cent; finish, 18 per cent; records and story, 17.6 per cent. The total received for the four pigs was \$70.17, the expense \$32.77, profit \$37.40. Miss Darr weighed her pigs by fastening a piece of wire to the limb of a tree and using a block and tackle wire stretcher to lift the pigs.

Martha Baird, eleven years old, of Jewell County, won the first prize of \$5 in the state square-rod garden contest. Here is her story:

"My garden was an old chicken yard which had not been used for several years. There are three trees near this spot and the dead leaves also helped to make the ground rich.

"The spring was so late that the ground could not be worked until April 2. On April 21 I planted radishes, onions, beans, peas, cucumbers, lettuce, squash, and beets. I put the onions in the outside rows, lettuce in the next, leaving room for tomatoes. Next came the radishes and five hills of summer squash. I thought this would give us some vegetables to use all the time. The fourth row was also put in radishes and tomatoes, then two rows of peas and two of beans, tomatoes and beets.

"The ground was in very good condition and the weather was warm, and the first plants came up on April 26.

"The weeds grew very fast in my garden and it seemed like I had to weed and hoe all the time the first five weeks.

"I covered my beans with papers several times to keep them from frosting.



PART OF THE MEMBERS OF THE MOTHER-DAUGHTER CANNING CLUB AT GLENWOOD, KANSAS.—THE "STRAY" IS COUNTY AGENT BOSS, WHO HELPED IN THE ORGANIZATION OF THE CLUB

When the sun came out after the rainy days I would work fast to get rid of the weeds.

"On May 21 I sold three dozen onions. These were the first vegetables I sold. From the first row of onions I sold eight and one-half dozen. I also sold fourteen and one-half dozen bunches of radishes. The lettuce did not come up early, and I sold only 20 cents' worth.

"The last of April I set out my tomatoes. The cutworms were very bad in the tomatoes and the cucumbers. The turpentine and wood ashes which I used saved the tomatoes but did not help the cucumbers.

"When the first beans were ready on June 15, I sold and used five quarts. A few days later the peas were big enough to use. Thinking that they were dwarf, I did not put sticks by them. There was so much rain and mud and the vines grew so fast that they fell down and I had only about four quarts of them.

"The squash vines began to crowd out the other things. They shaded my tomatoes and ran over the onions that were left and occupied all the vacant places, where the peas and beans had been. When the little squashes began to grow by the dozen I thought my biggest crop would be squash, and so it was.

"On July 22 I sold the first one for 10 cents and sold them at this price all season.

"From one cent's worth of seed seventy to eighty squashes grew. I sold thirty for \$2.95 and have saved the rest for the winter. I have saved seed from one squash for next year.

"On July 7 I planted some turnip seed which cost me 2½ cents.

"I have a dime savings bank which holds three dollars. I filled the bank in one month. I had it opened and put the money in the bank. I started to fill my little bank again and had it opened again, and on September 24 I bought my winter coat with the money I had



ORVILLE CALDWELL, OF LYON COUNTY, AND HIS CONTEST PIG

earned from my garden. I am now filling my bank for the third time.

"The things from my garden which I did not use at home I sold to our neighbors. I always picked out the very best of the vegetables and washed them. They were always nice and fresh when I delivered them.

"I have liked my work in the garden very much and I think it is a very easy way to make money."

The following story written by Hattie McKinley of Lyon County, tells how she became interested in making the one-

piece house or work dress which won first prize in the state contest at Manhattan:

"I did not know anything about this sewing club until one day last spring when Mr. Hall from the Kansas Agricultural College was at the high school which I attended here in Admire. He told us all about the boys' and girls' clubs. I joined four of them, and one was the sewing club. I was the only girl in school who joined it. I had sewed very little before this. It took me four days to make this dress, working two and one-half hours a day.

"I made the dress of gingham. The total cost was 71 cents. I like sewing very much. I exhibited my sewing at Admire and received first prize. I also took it to Emporia for the county institute and won first there, too. I think I shall try again next year."

Miss McKinley designed the one-piece dress she made and it was not only the best but the cheapest one exhibited. In addition to this work, she made four dresses from her own patterns, raised 135 chickens, sold nearly \$15 worth of tomatoes, baked bread and cakes for the family of seven all summer, and canned sixty-four quarts of fruits and vegetables.

Miss Edith Stout of Ford County, who won a trip to Manhattan during Farm and Home Week, is a member of a sewing club and a baking club. She won her trip on her sewing work. Her story follows:

"In 1914 we had a sewing club at our school and I became interested in sewing. I learned to embroider, crochet, and tat. The teacher wished me to make an apron for the contest, which I was delighted to do, and won first prize in Ford County.

"I heard about the contest this year and decided to try again. I attended a meeting at Wilroads, and Mr. Hall, of Manhattan, gave a lecture interesting the boys and girls in club work. After that our county superintendent, Miss Nevins, sent us instructions about the baking and sewing. I enrolled for both contests, that I might have two chances to earn the trip. I began immediately to bake bread and keep a record of it.

"It was several days before I could go to town and purchase material for my apron, but I selected some gingham and made one apron so I could find out how I wished to make the one for the contest. It was all to be made by hand, therefore it took some time to make it and go to school, too. This apron was a one-piece house apron and I bought more material and began my final work. I worked on it before and after school, and completed it and the stories of sewing and baking just in time to reach the county superintendent for the contest. The judges allowed me the trip to Manhattan on my work in sewing."

We have some very good stories of boys' achievements, too, and these will be printed later. Surely this is work of the most practical kind and of lasting value. If as men and women, the boys and girls are to make their homes on the farm, the earlier in life they begin mastering the fundamental principles of their life work, the better. The contest work should be considered seriously by the older members of the family and the children should be encouraged and made to feel that all are interested in their accomplishments.

The simple records kept and the stories written by them about their operations, are no less valuable than the work itself, for these things have a part in increasing earning capacity.

GENERAL FARM INQUIRIES

Something For Every Farm—Overflow Items From Other Departments

SUBSCRIBER B. F. E., Sedgwick County, asks how many pounds of Sudan grass seed to sow, and the best way and time to seed it for pasture, also whether or not it is a safe pasture for cows, calves and horses.

Sudan grass is an annual, and ordinarily would not be considered a pasture crop. It is a sorghum and resembles very closely, Johnson grass. It has been grown principally as a forage or hay crop, and has been used as a pasture crop to a limited extent only. A good many have pastured down the fall growth just as cane or kafir is pastured, and report favorably.

Twenty pounds of seed to the acre seems to have given the best forage yield. Being a sorghum, it should not be planted until the ground is thoroughly warm. The most favorable time in the part of the state where our correspondent is located would be from the middle of April to the middle of May. It might be planted later, but the possibility of a second crop would be lessened. The seed bed should be carefully prepared and should be rather firm. A common grain drill can be used, putting the seed in the ground from one-half to an inch deep.

No reports have been made of prussic acid poisoning from pasturing Sudan grass, but since it belongs to the sorghum family, it is to be assumed that there is danger from this source.

The seed is very much like that of Johnson grass and it hybridizes with this grass, and for this reason seed should be purchased that is known to be pure. It is always safer to buy northern-grown seed.

Starting Tame Pasture.

D. L., Jefferson County, asks for advice on sowing some corn ground for pasture. He wants to use this pasture this summer. He also asks: "Can one sow oats with the grass and begin pasturing the same after the oats have a good start? If so, what grass seed would be best to use, in what proportions, and how much oats should be seeded? How should the ground be prepared, and what would be the best time?"

If our correspondent is planning to start a permanent pasture, he cannot expect to get much feed from it this season. Pasture grasses must have time to become well established before they can be grazed. If pasture of some sort must be provided for this season, some annual crop, such as oats or sowed cane must be depended upon. The kind of stock for which this pasture is desired would make some difference. For hogs, the best pasture would be alfalfa. This is not a safe pasture crop, however, for cattle.

If a permanent grass pasture is desired, a mixture of several kinds of grasses will give better results than will one alone. A combination of Kentucky bluegrass and white clover is very commonly used in the eastern part of the state, but it takes some time for the bluegrass to become well established. This mixture should be seeded at the rate of about twenty-four pounds of the bluegrass and four pounds of the white clover, to the acre. Another good mixture for Eastern Kansas, is meadow fescue or English bluegrass ten pounds, orchard grass ten pounds, bromus inermis eight pounds, red clover six pounds, and Alsike clover four pounds, to the acre. On land that is inclined to be wet, a mixture of English bluegrass ten pounds, timothy six pounds, redtop six pounds, and Alsike clover four pounds, to the acre, might be used.

In preparing the seed bed on corn ground, it would not be necessary or advisable to plow. It would be almost impossible to get the seed bed well settled by seeding time, and a great deal of weed seed would be brought to the surface and would immediately start and interfere with the grass. A good, thorough use of the disk and harrow on corn

ground will give the most satisfactory seed bed for sowing grass this spring. The work should be done as early as possible, and the seed should be sown as early as the ground can be put in the right condition. There is some danger to clover or alfalfa from frost, but it is usually better to risk this danger than to sow late and have them crowded out by the weeds. If oats are sown as a nurse crop, the seeding should be somewhat lighter, say about a bushel to a bushel and a half to the acre, and the oats should be harvested as a hay crop, and not permitted to go to full maturity. Where allowed to mature there is always considerable danger that the grass will be destroyed by the hot weather which is likely to prevail at the time of harvest. If a good catch of grass is secured it may be pastured later in the season, but new seedlings should never be pastured heavily.

Dehorning Calves.

A. B., Cherokee County, asks how to dehorn young calves.

The simplest method is by the use of caustic potash. This can be bought in stick form of the druggist. When the calf is a week or ten days old, a button or slight thickening of the skin shows where the horn is starting to grow. The hair should be clipped from around this button and the spot rubbed with the caustic potash until it has a raw appearance. If this is done before the horn has gone too far in its development, it will stop its growth and a perfectly smooth head will result. The calves should not be allowed out in the rain for a day or so after the caustic is applied, as it will be washed off and will run down the side of the head and perhaps get into the eyes.

The potash should be kept in wide-mouthed bottles in which are placed pieces of blotting paper to absorb surplus moisture. The sticks of potash should not be handled with the bare hand in making the application.

Feeding Hereford Heifers.

W. L. M., Hodgeman County, writes that he has sixty head of coming two-year-old Hereford heifers that are due to calve in April. He has been wintering them on cane hay and wheat straw. He wants to feed them a little grain from now on, and asks what would be the best to use in connection with the roughage they are getting, and how much they should have. He asks if corn at sixty cents a bushel, is as cheap as cottonseed cake at \$33 a ton.

In our opinion, it would have paid to have fed these heifers some cottonseed cake all winter. Heifers of this age that are to bring calves cannot make the growth they should on roughage alone, and especially when the roughage is so deficient in protein as cane hay and straw are. Even mature cows fed on this kind of roughage should have at least a pound of cottonseed cake daily through the winter season.

We would hardly expect that these

heifers would consume more than about 25 pounds of the cane hay and perhaps 10 pounds of wheat straw daily, per head. The digestible nutrients contained in these amounts are as follows: Protein, .77 of a pound; carbohydrates, 14.7; fats, .55. Such heifers should have a ration containing at least one and one-half pound of digestible protein. They simply cannot grow and develop the unborn calf without this protein.

On the basis of total nutrients contained, the corn is cheaper at the price quoted than is the cottonseed cake, but the corn does not supply the necessary protein. A pound of the cake will contain approximately five times as much digestible protein as will a pound of corn. Because of its richness in protein it would be better to use the cottonseed cake than the corn, even though the corn is cheaper by the pound. The addition of two pounds of the cottonseed cake daily to ration, would supply .74 pound digestible protein. We would advise that these heifers be fed at least two pounds daily, and unless they appear to be in good condition they might be fed even more. Young heifers cannot develop into good-sized cows unless they are fed liberally on such feeds as will produce growth.

Preparation for Oats.

B. L. R., Brown County, asks if oats do better on spring plowed or fall plowed ground.

Oats are usually planted following some cultivated crop such as corn. Better results will be secured on fall plowed land, as a rule, but the principal reason is that it is possible to get the land in seed bed condition earlier in the season. Early seeding of oats is always desirable and if the land has not been plowed in the fall, a good seed bed can usually be prepared earlier and much more quickly with a disk than by plowing. Corn stalk land is nearly always in condition to work with a disk before it is in condition to plow. A good double disking and one harrowing with an ordinary spike-tooth harrow, will put such land in good shape for the seeding of oats. A seed bed can be prepared in this manner much more cheaply than by plowing, and this is another advantage of using the disk in place of plowing.

The most important point is that the seed bed be prepared at the earliest possible date.

Silage for Swine.

E. S. M., Harper County, asks if silage is good for hogs and if there is any danger in feeding them the spoiled or moldy silage that is hauled out from the silo.

While hogs are not ruminants, they will eat some bulky feed, and it is always an advantage to give them some succulent feed like silage during the season of the year when there is no pasture. They will not eat large quantities and if too much is fed they will simply pick it over, eating the grain and more tender portions. Moldy or spoiled

silage is not good for any kind of stock, but there is probably no danger in letting hogs work over such silage providing they are being supplied with other feed. It would not be a good plan to haul out a lot of spoiled silage and then stop feeding the hogs their regular feed while the silage lasted.

Evergreens for Kansas.

F. C. S., Rice County, wants to plant some evergreens this spring but is uncertain as to what kinds are most likely to succeed in his locality. The soil is sandy upland. The top soil is about twelve inches deep, below which comes a layer of yellow sand, varying in thickness from 12 to 18 inches, underlaid with a blue clay. He is specially interested in the evergreens for windbreak purposes.

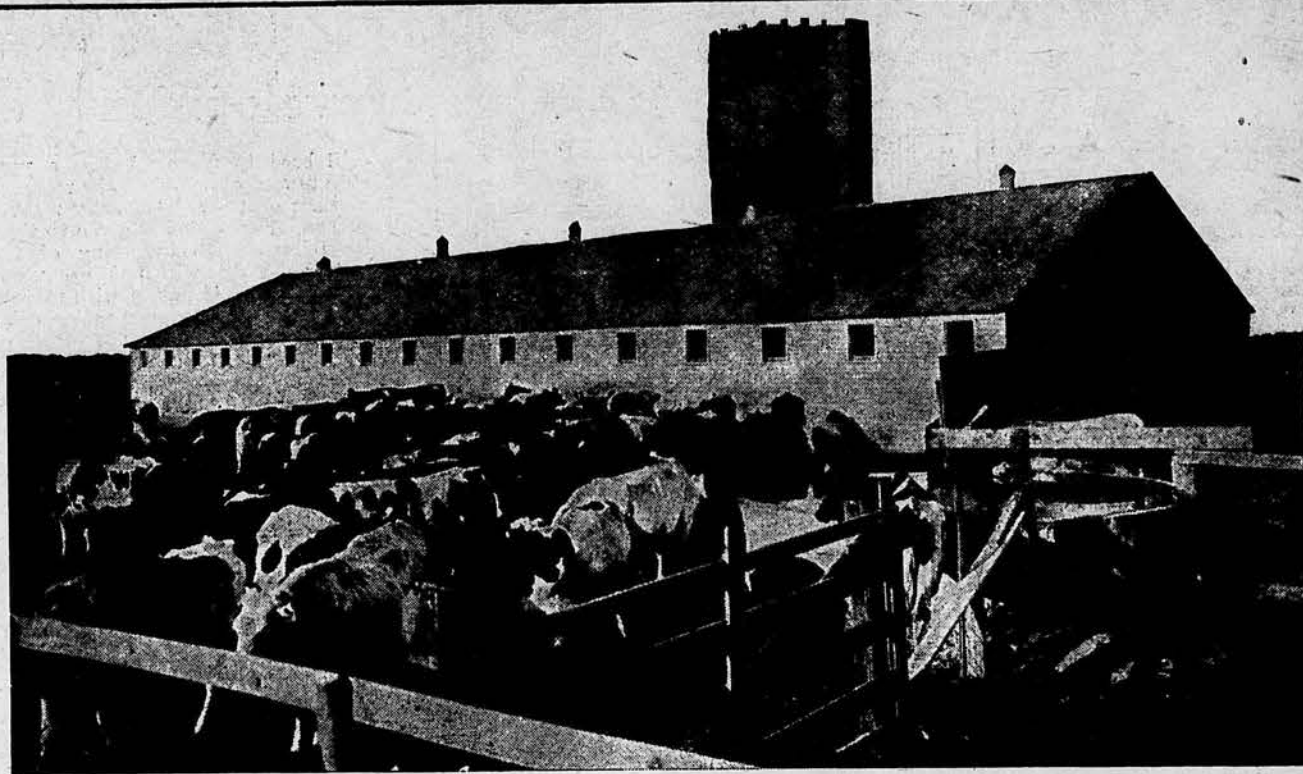
This inquiry has been answered by Professor C. A. Scott, state forester, as follows:

"There are a number of evergreens that are entirely adapted to growing in sandy soil, and fortunately a number of these grow successfully in regions of light rainfall. The trees for your locality are the red cedar, Austrian pine, Scotch pine, and Chinese arbor vitae. For windbreak planting, the use of eighteen to twenty-four inch, transplanted stock will give the best results. Three rows of trees will make a very efficient windbreak. The rows should be about twelve feet apart, and the trees from ten to twelve feet apart in the rows. The trees of one row should be directly opposite the spaces between the trees of the adjacent row. In this way the trees ultimately dovetail in such a manner as to make a complete barrier to the wind.

"The ground where trees are to be planted should have been in a thorough state of cultivation for at least a year before the trees are set. They should be planted during the latter part of March or early in April, and should be set in holes that are dug deep enough and wide enough to receive the roots in natural position. Tramp the soil firmly over the roots and give the trees sufficient cultivation throughout the summer to keep down all weeds and grass and to maintain a soil mulch. In handling your evergreens, be especially careful to protect the roots from exposure to the air. Lack of care in this regard is the principal cause of evergreen trees not growing."

"During the last three years the reports received from people throughout the state, who have planted evergreen trees sent out from the state nursery, show that during the seasons of 1913 and 1914, in spite of the adverse conditions, over sixty per cent of the trees survived transplanting and were growing thriftily in October when reported. Ninety-one per cent of the evergreens sent out in 1915 were reported growing in October of last fall."

We would suggest that quotations be secured from nurseries advertising evergreens in KANSAS FARMER.



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He has had no previous experience in handling sheep.

It would be unwise for a man without experience with sheep to put too much expense into his breeding flock in the start. We would advise the beginner to get a few good western ewes, preferably those from the Northwest. These range bred ewes are good mothers and many of them will produce twin lambs. Mated with pure bred rams of mutton type, these range ewes will produce good lambs for the market. By selecting and saving the best of the ewes, the flock can be gradually improved. It is best in buying these ewes to secure the assistance of someone who understands sheep. Frequently the ewes offered are culls and would not be satisfactory in starting the small farm flock. They should be selected carefully, noting especially their ages, since old ewes may have such poor teeth that they cannot eat well and their udders may be injured so that the lambs cannot be suckled.

Stray dogs are a constant source of danger and to be on the safe side the flock should be put in a yard at night. This trouble from dogs is one of the discouragements in connection with keeping sheep on the farm. When they get to be more generally kept it will be possible to bring about more co-operation in controlling the stray dog problem.

We would warn our correspondent and others contemplating starting with a few sheep, against considering them merely as scavengers. It is true they will save a lot of waste feed about the farm, but they should be given suitable care or they will not be found a source of profit any more than will any other animal that is neglected.

Not Good Plan to Change Breeds.

Stock farmers should consider most carefully before changing from one breed of stock to another. It is surprising to observe how many have been inclined, after having bred grade cattle for a considerable number of years, to use upon the cows a cross of some other breed. Frank D. Tomson, who is especially familiar with the Shorthorn breed, states that he has known a number of instances of herds having been graded up in Shorthorn blood for a period of ten to twenty-five years and then all of these years' efforts abandoned by the introduction of a sire of another breed. In some cases, the first cross on such a foundation give the best of results, but the later crosses are less reliable and in a large percentage of cases, prove a disappointment.

It takes years to grade up a herd, and when this is done by the continuous use of registered sires of any breed the results show a steady improvement, assuming the sires used, to be a higher standard than the foundation females. After a few such crosses are made, the herd becomes, for all practical purposes, as useful as a full blood herd; but when a cross of another breed is introduced, further improvement becomes uncertain. It opposes an established law of heredity, and that breeder is doomed to disappointment who runs counter to this law.

It is unfortunate that this practice has been more or less frequent. Yet experience teaches that the breeder of grade herds who expects to make progress has only one practical course open, and that is the use of sires of one breed and of meritorious ancestry and individuality. Mr. Tomson calls attention to the remarkable results that have been obtained in the British isles, where many high grade herds of Shorthorns are maintained both for dairy and beef purposes that compare favorably in individual excellence with the standard of the registered herds. This has been accomplished by the careful and continuous selection of pure bred sires and the gradual elimination of undesirable qualities.

Some Shorthorn Records.

Admirers of Shorthorn cattle may well feel proud of the records that have been made during the past year by their favorites.

At three of the leading beef cattle shows held in 1915, where all breeds, grades and cross-breeds competed, viz.: Smithfield, London, Palermo, Buenos Aires and Portland, Oregon, the grand championships were won by Shorthorn steers. At the Western Live Stock Show held at Denver, Colo., in 1916, the grand champion carload of fat steers were two-year-old Shorthorns.

The milking qualities of Shorthorns also came in for comment. In England, where dairy strains have been developed, the British Dairy Shorthorn Society reports the placing of twenty-eight Shorthorn cows on the honor roll as a result of the 1915 tests. The yields ranging from 10,006 pounds of milk produced in 256 days to 13,000 pounds produced in 365 days.

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a—4-14 inch gang plow, 5 to 7 inches in sod, 7 to 9 inches in stubble.

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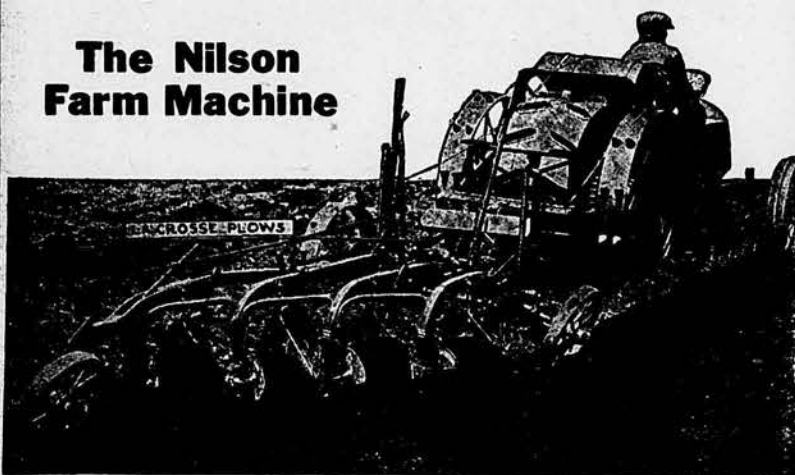
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VALUE OF SKIM MILK

SKIM milk is an ideal feed for hogs and especially brood sows and growing pigs. On the dairy farm the calves must also be raised on skim milk. It is especially important that the heifer calves be properly developed, as the keeping up of the herd depends upon the dairy farmer's ability to properly raise the calves. This by-product is one of the most important sources of revenue on the dairy farm, and those who are not making the most of it are failing in making the profit they should from the milking of cows.

In supplementing such carbonaceous feeds as corn, skim milk can be classed as a nitrogenous concentrate. Feeds rich in muscle-making nutrients must frequently be purchased and they are always higher in price than the carbonaceous or fat-making feeds. In the process of separation of the milk, nothing has been removed but the butter fat. All the protein remains and it is in a more digestible form than that found in any commercial feed. There are plenty of substitutes for fat that are a great deal cheaper than butter fat.

To get the best results from skim milk it should never be fed alone. In combination with corn it will produce as good gains on pigs as corn supplemented with tankage, linseed meal, or other commercial feeds rich in protein. A proper amount of skim milk used with farm-grown carbonaceous feeds will return a much higher money value than the feeding of large quantities of skim milk without so combining it with other feeds. There seems to be considerable difference of opinion as to the money value that should be credited to skim milk. This will depend largely upon the skill and knowledge of the feeder in using it in such proportions as will make ideal combinations with these other feeds.

In an experiment in which pigs were fed skim milk alone as compared with others fed skim milk and grain, the skim-milk pigs gained but three-quarters of a pound daily, consuming twenty-seven pounds of skim milk to every pound of gain. In a lot fed one pound of grain to every four pounds of skim milk, the average daily gain was one and four-tenths pounds, and it required only two and one-third pounds of grain and nine and one-third pounds of skim milk for each pound of increase. When combined with grain, five or six pounds of the skim milk has a feeding value equal to a pound of gain.

While skim milk does not have an actual market value, it can be credited with a cash return based on the prices of the other feeds with which it is combined. If corn is worth 50 cents a bushel, skim milk can be made to return a value of 25 to 30 cents per hundred pounds in the feeding of pigs. This estimate is based on combining the skim milk and corn in the proportions to give a properly balanced ration. This, in pig feeding, would be at the rate of about three or four pounds of the milk to each pound of corn. If eight or nine pounds of milk should be fed to each pound of corn, the skim milk would not return more than 15 or 16 cents a hundred. The market price of the pork produced also enters into the value of the skim milk. A good rule for calculating the value that should be returned from 100 pounds of skim milk in pig feeding, is to multiply the price of pork per pound on the market, by five. Another rule that has been used is to estimate 100 pounds of skim milk to be worth half the price of a bushel of corn. Since the price of pork and the price of corn usually rise and fall together, either one of these rules will give approximate values for the skim milk.

Skim milk is too valuable a feed for calves and pigs to be carelessly handled. To get the best results it should be fed as soon as possible after separation and should under no circumstances be kept in dirty vessels. Fermentation will begin to take place at once and not only will food value be lost, but the effect upon the animals may be most serious. Since the skim milk is so valuable for both calves and pigs, it is a good plan to arrange to have the most of the calf-feeding take place at a time of the year when there are no little pigs to feed. If most of the calves are dropped in the fall they will be old enough to get along without milk by the time the

brood sows and pigs need the milk in the spring.

Cost of Raising Dairy Heifers.

On Wisconsin farms it costs \$39.52 to raise a dairy heifer calf up to one year of age, and \$61.41 up to two years of age. These figures have been obtained by the Federal Department of Agriculture in studying the raising of 117 calves from birth to the time they entered the dairy herd.

There are about 22 million dairy cows in the United States at the present time and these cows must of necessity be replaced every few years. The cost of producing the dairy heifers necessary is quite an item in keeping down the profits of dairying.

Kansas dairymen should be interested in this question from the fact that at the present time the demand is so great for dairy cows that large numbers of them are being purchased and shipped into our state. The demand is increasing in all of the newer states of the West. The items entering into this cost are of special interest. In raising the heifer to the age of one year, the government found on these Wisconsin farms that the feed cost alone had been \$24.87. The labor was \$4.45, and other miscellaneous items \$6.36. To this was added an initial value of \$7.04, and a credit of \$3 was allowed for manure. The items for the two-year-old heifer include a feed bill of \$40.83, a labor charge of \$7.81, and \$13.73 for other expenses. The two-year-old was credited \$8 for manure. Two-thirds of the cost of raising a two-year-old heifer on these Wisconsin farms is chargeable to feed. Here in Kansas where we have an abundance of alfalfa and can grow cheaply large quantities of corn and the sorghums, this feed bill could be greatly reduced.

It is evident the Wisconsin dairymen are raising these heifers and selling them at a profit even though their feed bills are much higher than they would be in our state. There is an opportunity open in the production of dairy stock and more of our farmers should be taking advantage of it. There is no reason why we should continue to go outside of our own state for our dairy stock. It may be necessarily temporarily, but as soon as we get enough foundation stock our dairymen should be producing not only heifers to replace the discarded cows in their own herds, but a surplus. Practically all the feeds that are required are grown on the farm and the raising of dairy heifers furnishes a home market for these feeds.

Cream Separator Care.

The hand separator is indispensable on farms where cows are milked. No one now questions the profitability of the separator as an investment. It will pay for itself in a comparatively short time in the cream saved. According to the figures of our State Board of Agriculture there are over 70,000 separators owned in Kansas, or one to every thirteen cows milked.

In order to get the very best results from the use of the separator it should have the right kind of care. The following rules briefly state what this care should be:

Put the separator in a bright dairy room that can be easily cleaned and that is always free from odors of all kinds.

Set the machine perfectly level and bolt it to a solid foundation, preferably concrete.

Oil thoroughly each time it is used.

Be sure that the parts are properly assembled, then start the machine gently and slowly.

Maintain the proper speed and keep an even pressure on the handle at all times.

When separation is completed, flush the bowl with a quart of skim milk or warm water.

Having set the cream into cold water and disposed of the skim milk, take the bowl apart and rinse with lukewarm water.

Using hot water, washing powder and brushes, scrub all parts that come into contact with the milk.

Rinse with hot water, then place in boiling water for a few minutes and hang up to dry.

Wipe frame of separator and clean the room.

The necessity for thoroughly cleaning



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It's Strong
It's Durable
It's Sanitary
It's Comfortable
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You can raise calves at half cost by using "Brooks Best" Calf Meal as hundreds of others are doing. This is guaranteed perfect milk substitute, and costs less than other calf meals where freight rates are so high. Fifty pounds, \$1.75; 100 pounds, \$3.25; 500 pounds, \$15.00. Free directions.

BROOKS WHOLESALE CO.
Ft. Scott, Kansas.



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ing and scalding the separator every time it is used can not be too greatly emphasized. Cream from an unclean separator has very poor keeping qualities, soon develops a decided "off flavor" and becomes second grade. Cream of this kind brings financial loss to the purchaser whether he is selling it on quality basis or not. Poor cream makes poor butter and poor butter returns a low price to the producer, whether the creamery is co-operative or otherwise.

The financial loss caused by unclean separators is frequently not fully appreciated, because it is indirect; it is, however, none the less real. Good business management of the dairy demands therefore that the separator be thoroughly cleaned each time it is used.

Value of Proven Sire.

George C. Tredick, a Kingman County dairyman, has come to the conclusion that the biggest opportunity for progress along dairy lines lies in the improvement by breeding. In a recent letter he says that dairying seems to be almost the only hope of the farmer at the present time. It is impossible to buy feeding cattle low enough or sell them high enough when fattened, to make even market prices from the feeds. The wheat grower with an average yield finds that the cost of raising and the market price are so near each other that there is little profit in wheat growing as the sole farm business.

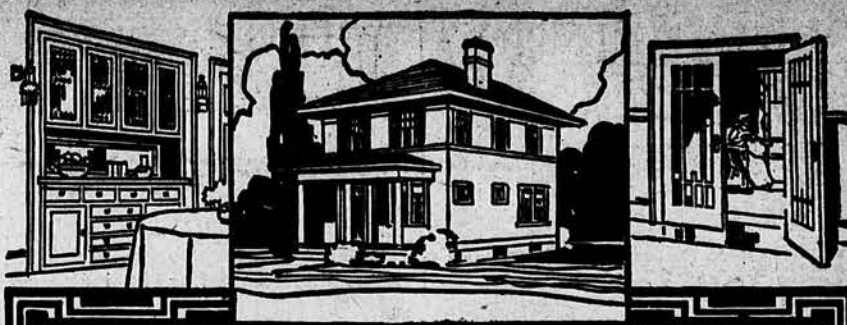
"Dairying," says Mr. Tredick, "divides itself into feeding, breeding and marketing the product. It seems that marketing the whole milk is one of the pitfalls for the average dairyman because it takes away the opportunity for accomplishing anything along breeding lines. It also necessitates conducting a complicated business in making the retail deliveries. To me, feeding seems to be the most simple of the elements of success in dairying. We aim to feed according to what a cow will produce, but here we find feeding closely associated with good breeding. We must have good cows to feed and a large per cent of those purchased do not come up to the requirements. It seems to me that the success or failure of dairying is closely associated with the right kind of breeding.

"The first thing that confronted me in my efforts to make improvement was the matter of securing a sire that had proven himself a transmitter of dairy qualities. I found that to buy such would require an investment of several thousand dollars, and I could not afford to make so heavy an investment. I decided that the next best thing would be to buy a young bull sired by a proven sire out of a record dam having a proven sire. I made such purchase and it has turned out most fortunately. This young bull was well worth the money I paid for him and the time it has taken to prove him out in my herd."

Cow Testing Association Report.

Here is given a record of the cows in the Dickinson County Cow Testing Association which produced more than forty pounds of butter in the thirty-day period ending January 31, 1916. "H" stands for Holstein; "S. H." for Short-horn; "J" for Jersey.

Owner—	Pounds Milk	Per Cent Fat	Pounds Butter
A. B. Wilcox, H.....	1,521	4.76	90.50
A. B. Wilcox, H.....	1,722	3.79	81.57
A. B. Wilcox, H.....	1,599	3.3	65.95
A. B. Wilcox, H.....	1,353	3.86	55.28
A. B. Wilcox, H.....	1,290	4.0	64.50
A. B. Wilcox, H.....	1,443	3.1	55.92
A. B. Wilcox, H.....	1,179	3.6	53.05
E. S. Engle & Son, H.....	1,221	3.8	57.99
E. S. Engle & Son, H.....	1,080	4.0	54.00
E. S. Engle & Son, H.....	1,092	3.6	49.14
E. S. Engle & Son, H.....	1,293	2.8	45.38
E. S. Engle & Son, H.....	918	3.6	41.31
E. S. Engle & Son, H.....	1,035	3.5	45.28
E. S. Engle & Son, H.....	900	3.6	40.50
E. S. Engle & Son, H.....	864	3.7	40.00
E. S. Engle & Son, H.....	975	3.9	47.53
E. S. Engle & Son, H.....	1,176	3.1	45.67
E. S. Engle & Son, H.....	801	4.9	44.67
E. S. Engle & Son, H.....	968	3.7	44.67
E. S. Engle & Son, H.....	1,125	3.2	45.00
E. S. Engle & Son, H.....	1,170	3.0	43.87
George Lenhart, H.....	1,458	3.1	56.50
George Lenhart, H.....	1,239	3.13	48.47
George Lenhart, H.....	987	3.5	43.18
George Lenhart, H.....	870	3.77	40.99
D. S. Engle, H.....	1,041	3.6	46.84
D. S. Engle, H.....	978	3.6	44.01
Acme Stock Farm, H.....	1,101	4.5	61.93
Acme Stock Farm, H.....	1,140	3.8	54.15
Acme Stock Farm, H.....	1,137	3.2	45.48
Acme Stock Farm, H.....	1,071	3.2	42.84
Acme Stock Farm, S.H.....	735	5.2	47.77
Ralph Sterling, J.....	1,095	4.4	56.92
Ralph Sterling, J.....	890	5.1	43.98
Ralph Sterling, J.....	585	5.9	43.14
Ralph Sterling, J.....	765	6.2	59.29
Ralph Sterling, J.....	615	5.6	43.05
Ralph Sterling, J.....	711	6.1	54.21
Ralph Sterling, J.....	951	5.0	59.44
Will House, J.....	750	4.4	41.25
Will House, J.....	723	4.6	41.57
E. N. Fahrman, H.....	903	3.8	42.89
E. N. Fahrman, H.....	990	4.0	49.50
E. N. Fahrman, S.H.....	657	5.0	41.08
E. N. Fahrman, J.....	690	5.0	42.62
A. H. Diehl, S. H.....	909	4.0	49.93
A. H. Diehl, S. H.....	1,017	3.7	47.04
A. H. Diehl, S. H.....	675	4.8	40.50
A. H. Diehl, S. H.....	1,350	3.2	54.00
E. S. Engle & Son, H.....	2,007	2.88	72.25
J. F. Eisenhower, J.....	684	5.2	44.47
J. F. Eisenhower, J.....	777	5.1	49.53
J. F. Eisenhower, J.....	546	6.9	47.09
J. F. Eisenhower, J.....	924	4.7	54.28



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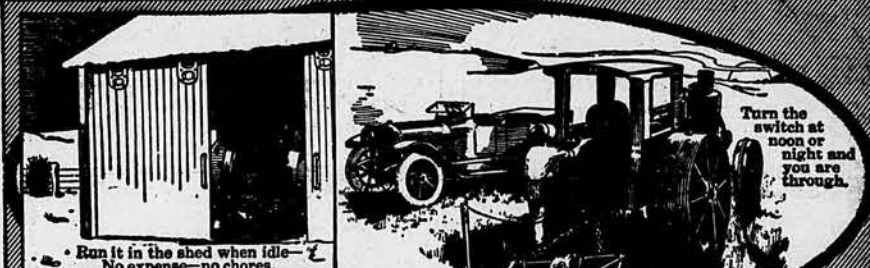
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Turn the switch at noon or night and you are through.

Run it in the shed when idle—No expense—no chores.

Turn the Switch, Stops Expense, No Chores

THINK of all the things Tractor Farming would mean to you and everyone in the family. At noon or night—just turn the switch and you are through. No unhitching, watering, unharnessing, feeding or bedding, as with horses. In the morning it will only take you about as much time to oil up and get started as to care for one horse. And there are no chores when the tractor is idle. But a horse has to be taken care of every day whether idle or working. Caring for surplus horses takes a lot of good time that could be used for more profitable work or in enjoying life better.

And it's not only the chores that keep right on when horses are idle, but the expense of feeding, too. You can't turn a switch and stop a horse eating. But a tractor costs nothing for fuel when not working. Start farming this year with power that stops eating when it stops work. A tractor will also enable you to raise bigger crops by plowing deeper and preparing your seed bed at just the right time and in the right way. The expense you save and the bigger crops you raise with a tractor will mean much to you and your family.

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You can get a size Avery Tractor to exactly fit your size farm. Sold at low prices: 3-plow tractor, \$760 cash; 4-plow, \$1,120 cash; 5-plow, \$1,680; 6-plow, \$2,145; 8-10-plow, \$2,475. Burn gasoline or kerosene. Also a size Avery Flow and Grain Thresher to fit each of the above size tractors. We also build a special smaller sized tractor for \$295 cash. All built and backed by an established company owning a large factory and many branch houses which insure prompt and permanent service. Write for new 1916 Avery Tractor, Plow and Thresher Catalog—get all facts about power farming and threshing with an Avery Outfit.

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Return Organic Matter to Soil

ORGANIC matter is indispensable in maintaining soil fertility. From it comes the nitrogen necessary for plant growth, and in addition the presence of decaying vegetable material is necessary to keep soil in good physical condition.

Last year there was an unusually heavy growth of vegetation. We suggested during the latter part of the season that advantage should be taken of these favorable conditions, to harvest a crop of humus for the soil. Some took advantage of this opportunity and grew green manure crops for the special purpose of turning them under and thus adding a large amount of humus to the soil.

There is more than the ordinary amount of stalks, rubbish and other crop residue to dispose of the coming spring. On many farms this is considered a handicap. It really is looked upon as something to be disposed of in the easiest and quickest way possible. It is easier to work the land in getting it ready for corn or other crops, after the rubbish has all been burned. This, however, is a short-sighted view. If this policy of destroying such material is continued year after year, the soil will gradually become so poor physically, that it will be very hard to work. This is what has happened on a good many farms that have been tilled for thirty or forty years. Even the freezing of winter does not lighten such soil. It has lost its life and nothing will bring it back but replenishing the supply of decaying vegetation.

Those who have realized the importance of this matter plowed all the land they could last fall so that the vegetation would be partially decomposed before time to plant another crop. The same policy should be followed in spring preparation. Cornstalks, weeds, straw, and all such material should be cut up as much as possible by the use of the disk and turned under, thus helping to keep up the humus supply.

Manure Wheat Field.

Getting out the manure is a job that should be attended to before the spring work comes on. The best time to haul manure is as it is made, but it is not always possible to do this. It will accumulate even where the general plan is to haul it out through the winter. On most farms a special effort is made to haul out all the accumulated manure before beginning the field work in the spring. If this is not done a large per cent of its fertilizing value will be lost by the leaching of the rains of the spring and summer season. The soluble part of the manure is the valuable part, and it does not take this long to get away if it is left exposed where drainage can take place. Average barnyard manure that has not been leached by rains, is easily worth \$2.50 a ton. Material having such a value is well worth hauling out and spreading on the fields.

A light top dressing on the wheat will be an advantage, especially on old land. In Eastern and Northeastern Kansas clover and grass are commonly sown on wheat in the spring. A light dressing of barnyard manure will help insure a good stand of grass. It will supply some quickly available plant food on the surface and the grass and clover will make a vigorous early growth and be far less likely to perish later in the season. To get the best results it should be put on with a spreader, and it should be set in the lowest notch. A thin coating over a large acreage will be better than a heavy coating over a small area. The alfalfa field is another place where a light top dressing of barnyard manure will give most profitable returns.

Soil Losses Through Washing.

A great deal is said about selling crops from the farm and thus losing soil fertility, but one of the big losses is that due to soil washing. There is hardly a farm in Kansas that does not stand a heavy loss each year from this cause.

In Eastern Kansas, where the land is more rolling and the rainfall is heavier, many farms have gotten into a serious condition. The top soil contains the plant food that is ready for use, and if this washes away it is certain to reduce the producing power. It is a problem that must be dealt with, and every precaution possible should be taken to prevent soil fertility being lost in this way.

The plowing of the fields should be planned in such manner as to prevent water courses forming. Where bad ditches are started they can sometimes be checked by the use of brush or straw.

On some farms a great deal of soil is being held by the building of dams across draws where bad washes are occurring. Such dams, in some instances, are arranged with a tile overflow pipe to take care of flood water. By this arrangement the most of the soil will settle back of the dam and be held.

Soil that is kept full of humus will not wash as easily as soil devoid of humus.

Grading Seed Oats.

A good many have the idea that oats "run out" or degenerate and new seed must be secured every few years. This conclusion is not justified by the facts. There is no reason why a well adapted variety of oats should not be just as good in twenty years from now as at the present time, providing they are kept pure and the seed carefully graded each year.

If oats are sown just as they come from the threshing machine, the plump, well filled kernels and the small, immature ones will all have an equal chance to reproduce. It would be just as reasonable to expect a herd of cattle to keep up to a high standard without any selection being made of breeding animals. Even though oats seem to be of good quality, it will pay to run them through a fanning mill at least once. This will remove the small kernels and also take out the weed seed. If very poor oats must be used for seed they should be run through a second time. It would be far better to fan out two-thirds of the seed and plant only good, plump kernels. The small, immature grains will not make as strong, vigorous plants as the larger grains. The planting of ungraded seed also tends to perpetuate the lack of uniformity in maturity, since the slower maturing grains tend to perpetuate that character.

If it is absolutely necessary to purchase seed, it would be better to get this from points east or west than from too far to the north or south. Varieties that are known to be well adapted to the locality should be selected. As a rule, it would be much better to secure some carefully cleaned seed that had been grown in the same county or at no great distance, than to ship in seed from some distant state.

Plan for Year's Feed.

The live stock farmer should now be making his plans for the growing of such feeds as he will need to feed the various animals through the year. Live stock is kept primarily to furnish a market for farm-grown feeds. If, through neglect to plan properly, feed must be purchased, part of the profits of handling live stock are lost.

The Kansas farmer has a great variety of crops to select from, and while we cannot always be sure of big grain crops, there is seldom any excuse for a failure to have enough rough feed to carry stock through in good condition. Where pasture is scarce, plans should be made to grow such forage crops as will be ready for use early in the season.

There is hardly a farm in the corn-growing part of Kansas where a small path of 90-day corn could not be profitably grown to supply early feed. While these varieties will not make the large yields that the larger varieties will make, they mature so early that fresh feed is ready for the stock at a time when pastures may be short and farm animals seriously in need of feed. Such fields of corn can be most profitably harvested by the hogs. This saves a great deal of labor in feeding at a time of the year when there is always a scarcity of labor on the average farm. A bunch of hogs running on alfalfa or other pasture, with a field of corn to run to, will take care of themselves. In some sections feterita might be planted for the same purpose because of its quick maturity. It is a difficult crop to harvest satisfactorily, and the "hogging down" method solves the problem most economically.

Those who plan to milk cows through the summer season should by all means arrange to have some early maturing crop close to the barnyard. Cows almost never have all the pasture they need dur-

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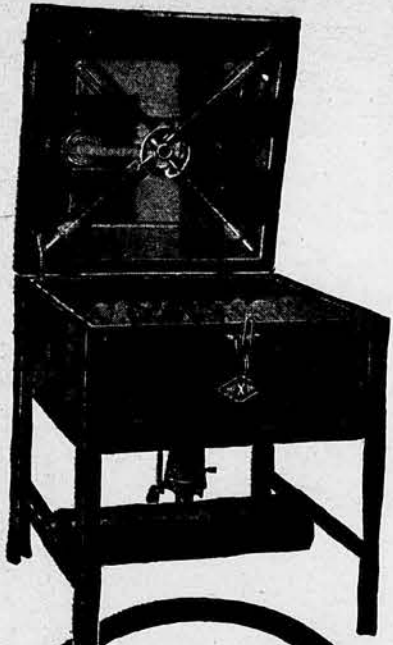
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20 Days FREE TRIAL Grinds more corn or small grain, with less power, than any other mill. Doesn't warm the feed. Lath-centred burrs may be changed in three minutes. Try it 20 days free. Write to-day for booklet.

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Different from all others. Grind Corn with shucks. Kaffir in the head and all kinds of small grain, 4 and 8 horse size. (Also make 10 sizes of belt mills) FREE—Folder on "Feed and its importance" C.N.P. Bowser Co., South Bend, Ind. Patterson Machinery Co., 1225 W. 11th St., Kansas City, Mo.



X-RAY

Uses 4 to 5 Times
Less Oil Than Any Other
Incubator
One Gallon—One Filling

ALL the bother and almost all the expense cut out. Fill the X-Ray tank when you put in the eggs—then forget it. The X-Ray duplex heater, squarely underneath where it ought to be, does all the work. The X-Ray automatic trip does the remembering. Too much heat—it lowers the flame; not enough heat—it increases the flame. X-Ray is the answer to

Biggest Hatches Least Trouble Minimum Expense

The X-Ray vapor generator supplies the exact amount of moisture. The X-Ray ventilator provides the exact amount of pure fresh air. The X-Ray perfectly level egg tray leaves the entire space available for eggs. The X-Ray hinged glass top permits reading the thermometer and watching the hatch without lifting the lid.

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JAPANESE ROSE BUSHES

Five for 10 Cts.

The Wonder of the World. Rose bushes with roses on them in 8 weeks from the time the seed was planted. It may not seem possible but we guarantee it to be so. They will bloom every ten weeks. Winter or Summer, and when 3 years old will have 5 or 6 hundred roses on each bush. Will grow in the house in the winter as well as in the ground in summer. Roses All The Year Around. Package of seed with our guarantee by mail, only Ten Cents. Japan Seed Co. Box 44 South Norwalk, Conn.

Buy Trees At Wholesale

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Apple trees \$5.00 per 100; Peach \$5.00 per 100; Cherries \$14.00 per 100; Concord Grapes \$2.00 per 100; Dunlap Strawberries \$2.25 per 1000; Everbearing Strawberries \$2.00 per 100. Everything in Fruit trees, Plants and Ornamentals. Send for our Free Catalog.
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BIGGEST MONEY-MAKER KNOWN—INVESTIGATE
The greatest forage plant that grows. Superior to all as a fertilizer. Equal to Alfalfa for hay. Excels for pasture. Builds up worn-out soil quickly and produces immense crops, worth from \$50 to \$125 per acre. Easy to start, grows everywhere, on all soils. Don't delay writing for our Big 100-page free catalog and circular giving full particulars. We can save you money on best tested, guaranteed, scarified seed. Sample Free. Write today.
A. A. BERRY SEED CO., BOX 967 CLARINDA, IOWA

Home-Made Brooders

Brooders with warm dirt floors save incubator chicks. Any brooder can be changed to this kind. Send us five to eight names of friends who use incubators and we will tell you just how to change your old brooder or to build these from an ordinary box. We will also tell you why chicks die in the shell. **ABSOLUTELY FREE FOR THE NAMES.** THIS WILL SAVE YOU \$100.00 THIS SUMMER. SEND NAMES TODAY.
BAISALL REMEDY CO., Blackwell, Okla.

White Plymouth Rocks

Hard to beat as all-purpose fowls. Excellent layers with yellow legs and yellow skin. Eggs \$2 per 15, \$5 per 45, express or postage prepaid. Have bred them exclusively for twenty-four years.
THOMAS OWEN, Route 7, TOPEKA, KAN.



POULTRY NOTES

It is well to feed your poultry enough to keep them in good condition, so that they may be ready to lay when warmer weather comes.

If you stint your fowls in feed at this time, it will take a lot more time to get them to laying than if they were in prime condition.

The cold weather, we hope, will not last much longer, and we shall hear no more of the scarcity of eggs for a long while.

A reader inquires why so many incubator chicks are crippled. Probably it is caused by the eggs not being turned often enough. When left in one position too long, a leg or a wing is apt to be deformed by the heat which comes from the top of the incubator, drawing it to one spot, whereas if it were turned oftener, this would not occur. Frequent shifting of the eggs, and cooling them often, will avoid many crippled chicks being formed while in the incubator.

When the ground is covered with snow, as it has been for some weeks, breeders of poultry should remember that there is very poor picking for any chickens that may be out of doors. It is better that the hens should be penned up, for while the snow lasts, they are helpless to provide anything for their sustenance out of doors. The breeders therefore should be particular to provide what the hens are deprived of while shut up in their houses, and especially should they have plenty of grit, charcoal and pure water, in addition to their daily rations of grain.

A continued spell of cold weather sends the prices of fresh eggs soaring. February 10, fresh eggs at Topeka sold at 35 cents a dozen. Three weeks earlier during a warm spell they sold for 25 cents a dozen, but the cold spell came and, of course, the hens quit laying, and the price had to go up. If farmers had the right kind of houses for their laying hens, their supply of fresh eggs would not be cut off with every cold blast that comes, and they could count on a continued income from their hens during the severest weather.

Possibly the failures in poultry raising are not dwelt upon as much as the successes. One must avoid the rocks as much as they would strive for the open sea of success, where everything goes along swimmingly. Overcrowding fowls on the roosts or in the poultry houses must always be counted as one of the worst rocks on which poultrymen steer with more or less disaster. Fifty hens in an overcrowded house will not lay as many as twenty-five hens that are not crowded, yet they will eat twice as much. Where is the sense in keeping those extra hens, only in being able to say you have fifty hens rather than twenty-five? It's a rock of disaster. Steer clear of it.

Eggs always hatch best when the hens have free range, or a good sized run, and are made to hunt for their feed. As the earliest clutches of eggs are very often infertile, it is well to do all that can possibly be done to help out in this matter. When the hens are confined to a very small yard, the eggs are often infertile, or at least a large proportion of them are. If it is impossible to give your hens large runs or free range, then plenty of exercise will help out in the matter of fertile eggs. Wheat, kafir or other small grain, thrown among the leaves, chaff or litter, keeps them scratching and furnishes exercise. Overfeeding is not conducive to fertile eggs. Corn alone is too fattening. Wheat, kafir, buckwheat, barley and oats are all good in moderate quantities.

A correspondent writes that the wattles on some of his cockerels are swollen to the size of hen's eggs, and asks for the cause and a remedy. At this time of year such a swelling of the wattles is generally caused by the birds getting them wet, then getting them frozen. It is acute inflammation, and anything that will reduce that inflammation will help to cure it. Rubbing the wattles with cold water or snow will help in the early

stages, then anoint with carbolic salve or kerosene oil. Sometimes the swelling breaks and causes a running sore, holding out for some time, and destroys the bird's usefulness for the season. To remedy the first cause, you must have poultry houses so warm that water will not freeze in them, or have drinking fountains that allow only the beak of the fowl to get into the water. Most poultry raisers cannot afford to get such fountains for large numbers of fowls, but they all can have houses so warm that the drinking water will not freeze on the fowl's wattles when he takes a drink.

The need of a scratching shed in connection with a poultry house is more in evidence when snow is on the ground and when we have a long-continued spell of cold weather. The flocks of hens that are kept busy scratching do not contract the vices peculiar to those fowls that have nothing to do, and they keep lively and in good health. The bright red comb, clean plumage, and plenty of exercise on the part of the hens, indicate that stimulants are unnecessary to keep up egg production. But if the hens are kept in small, crowded houses, there is no room for them to run around and scratch and keep busy. They will mope around or huddle together until disease and death come and take them away. In connection with every well appointed poultry house there should be a scratching shed for the fowls to wallow in if they desire, or for them to hunt for their food among the litter of the shed. All the feeding in the world will do no good if the hens are overcrowded in small, damp houses. But give them a good, roomy, scratching shed, apart from their roosting place, and they will soon pay for it in the extra eggs they will furnish the proprietor. The hens can stand a lot of cold provided the shed is dry and there is lots of litter for them to scratch in.

As an egg is more than nine-tenths water, the importance of supplying the hens with all the water they require cannot be too strongly urged. And especially is this true when the hens are confined to their houses, where they have no chance whatever to get anything to drink except what is given to them. Water not only enters into the composition of the egg as the leading substance, but it fulfills other purposes. It is essential to the bird as a solvent to the food when hard grains are fed, as the gizzard that grinds the grain to powder, and the water is thus necessary to assist the digestion and to convert the food into blood. It is sometimes supposed that chickens are not partial to clean water, and will drink from filthy pools in preference to pure water. But the fact is that the hen is rather fastidious as to what she drinks and will always prefer pure water and pure food when they are accessible to her. If there is no clean water in sight, she is compelled to drink what she can get. A laying hen needs more water than food; in fact, unless she has plenty of water she cannot manufacture the eggs. In winter time one often gives the hens water in the morning, which freezes in a few moments, and then the hen has to go without a drink for the balance of the day. If she fails under such conditions to supply you with eggs, don't blame the hen. You are expecting an impossibility when you require a hen to give you eggs without being provided with water.

It is not good policy to over-praise any breed. If a breed of fowls cannot stand on its merits, without being over-boomed, it is bound to be a failure. These thoughts were engendered on reading some very extravagant praises of certain breeds of fowls in a prominent eastern poultry journal. One breed, a new one by the way, was praised up to the skies as the very best egg-layers that ever lived or ever would live. Now, we had just been reading the reports of the egg-laying contests at Mountain Grove, Mo., and at Storrs, Conn., and the record of this particular breed of fowls for egg-laying was the lowest of all the breeds in competition. In fact they did not lay half as many eggs as the winners. Why this over-booming of their

Everything favors the farmer



"Everything favors the farmer here. No soil on earth can produce a greater variety of crops," writes J. P. Conners, of Canadian,

Eastern Oklahoma on the M., K. & T. Ry.

No farmer need have a "hard luck story" after a few years in this section. Lands are surprisingly cheap; and the soil is as rich and adaptable as any in America. The climate is so mild that the farmer can do crop work nearly the entire year; the growing season being much longer than in Kansas, Nebraska, and Iowa districts. The mild winters allow grazing nearly the entire year and make stock shelters practically unnecessary—this makes expenses less and profits more. Rain-fall is about as it is in Iowa, 40 to 45 inches, well distributed throughout the growing season. All in all, Eastern Oklahoma is "Exceptionally favorable for agriculture." Geo. W. Booker, of Durant, knows the truth of this statement: "Ten years ago, with only \$1000, I began farming in Bryan County. I now own several farms, including one of 140 acres adjoining Durant, worth \$12,500—and 300 head of cattle."

Send for free booklets

published by the Eastern Oklahoma Farm Bureau, composed of bankers and business men who have no land to sell but are interested solely in inducing practical, substantial farmers to settle and develop the fine farm lands there—lands at \$10 to \$60 per acre, which will raise as high as 80 bu. of wheat, 75 bu. of corn, 80 bu. of oats and 6 tons of alfalfa a season. Write for these booklets now!



R. W. Heckaday,
Colonization Agent, M., K. & T. Ry.
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Wonderful Cherry-Plum

This is a cross between the Sand Cherry and the Miner Plum. Fruit is nearly an inch in diameter, bright red and sweet and juicy. Unsurpassed for canning. You will like it. Heavy bearing and wonderfully early. Will do well anywhere in U.S. We advise our customers to plant them. They will bear heavily when other fruits fail. See catalog for prices.

R. Thompson, De Soto, Ia., writes: "Compass Cherry-Plums I bought from you one year ago last spring were loaded with fruit this summer. Trees and seeds at wholesale prices. Apple Trees, 6 cents. Small fruits, Shrubs, Garden Seeds, Alfalfa, Clovers and Grass Seeds. Seed and Nursery book free. German Nurseries and Seed House, 60 Court Street, Beatrice, Neb."

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Ten or more persons in each town or township to try our pure tested seeds. To every one who answers this ad and orders from our new, different and original seed book, we will include some free seed, some of our new novelties. We want 100,000 more new customers this year. These ten or more new customers will multiply next year. That's the way our pure tested seed business grows, and you too will become an enthusiastic booster for the "Live Seed House."

We also have a full line of fruit trees, vines, shrubs, etc. Drop us a postal sure today.

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Don't forget to drop in and see us when in Kansas City. Offices and showrooms across street from the Stockyards Exchange.

GOOD SEEDS

**GOOD AS CAN BE GROWN
Prices Below All Others**

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

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.
R. H. SHUMWAY, Rockford, Ill.

Tells why chicks die

E. J. Reefer, the poultry expert, "633 Farmer Bldg., Kansas City, Mo., is giving away free a valuable book entitled, "White Diarrhea and How to Cure It." This book contains scientific facts on white diarrhea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. All poultry raisers should certainly write Mr. Reefer for one of these valuable FREE books.

HATCHING EGGS

SINGLE COMB REDS
"Garnet," a large, dark, red-to-the-skin son of "Caesar the Great," heads Pen 1. Second pen headed by "Jumbo," cock bird (F. E. Harrison blood). Females noted for laying quantities. Eggs, \$3.50 and \$2 per 15.
H. C. WOODBURY, Box 85, Weldon, Iowa.

60 BREEDS Valuable Poultry Book Free—New 100-page 22nd Annual Edition. Fine purebred chickens, ducks, geese and turkeys—Northern raised, hardy, beautiful. Fowls, Eggs and Incubators, low prices. America's greatest poultry farm. Write today for free book.
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Every Week on Chickens. Write me for details showing how beginners with Belle City outfits make \$10 to \$25 a week on day-old chicks. Get the facts! Any man, woman, boy or girl can do it by following my plan and using my

25 TIMES
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"In 25 World's Greatest Matches Belle City Won With Perfect Hatches" 402,000 in use. Get the whole wonderful story told by the championship winners themselves in my big Free Book, "Hatching Facts"

On Practical Chicken Raising With book comes full description and illustration of my incubator and brooder in actual colors—the kind used by U. S. Government and leading Agricultural Colleges—that won the "Tycoo" Cup—that will win big success and cash profits for you—

My 10-Year Money-Back Guaranty—My Low Prices

—same as last year. Freight prepaid. My 1-2-3 months' Home Test—all facts, proofs, particulars—100 photographs of prize winning hatches—also my

\$1300 Gold Offers

Conditions so easy anyone may receive biggest pay. Biggest chance anyone ever had to make extra money with a hatching outfit.

Learn how I paid one Belle City user \$156.25, another \$50, many from \$45 down. Everything comes with free book. Write me today. Jim Rohan, Pres. Belle City Incubator Co., Box 18, Racine, Wis.

Close to Nature

The principles in the Radio-Round are those used by the setting hen. It has no corners to get cold. Radio built-in Moisture System and Triple Center Heater duplicate the mild, moist heat of the hen's body.

Round Like a Hen's Nest

Hatches on one gallon oil, one filling of tank. Labor saving egg tray. Hinged cover with double glass panels. Only three minutes care daily. Beautiful imitation Sycamore wood finish on steel plate. Handsome enough for the parlor. Strong and durable, but light. We pay the freight.

Write for free Book No. 87
RADIO-ROUND INCUBATOR CO., Drawer 8 Wayne, Neb.

Mild Moist Heat

Get Bigger Hatches

ON 1 GALLON OIL—1 FILLING

Beginners can hatch like experts right from the start—and experts get bigger average hatches than ever before, with this remarkably simple, efficient

Rayo INCUBATOR

That's because lamp under the center gives evenest heat; because special automatic devices produce constant supply of fresh, warmed, moist air. Makes a hatch on one gallon of oil and one filling of oil tank. Regulates on flame—no heat-wasting dampers. Has glass top—no stooping necessary. Get our free catalog and money-making book, also free sample of Rayo Patent Hatching Chart sent for 10 cents. Hygrometer offered—all free RAYO INC. CO., U. S. D. 24, 4454 Omaha, Neb.

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My world-famous high-quality incubators and brooders and my 20 Free Poultry Lessons make success easy and sure for you! Lessons given free to every purchaser of a

"SUCCESSFUL" Incubator or Brooder

Backed by 21 years of big successes and strongest guaranty ever written. Write me a postal for book and prices. "Proper Care and Feeding of Chickens, Ducks and Turkeys" sent for 10 cents. "Successful" Grain Sprinklers furnished green food—make hens lay in winter. Ask about my high-grade poultry—all leading varieties.

J. S. Giffert, Pres. DES MOINES INCUBATOR CO. 85 Second St., Des Moines, Ia. \$675 and up

ROUP starts as a cold in the head, caused by a damp poultry house or by great changes in temperature between day and night. The symptoms are watery eyes and nostrils, dirty beak, coughing or wheezing, slimy deposit under the wing. Often accompanied by "canker" in mouth and throat—similar to croup or diphtheria. The outcome is death from starvation or strangulation. The remedy is easy and very certain—Germozone. Generally a little in the drink suffices in early stages. Later, individual treatment may be necessary, but Germozone is easy to use, quickly effective, no long "doctoring." Sold by one dealer at most every town. Liquid form, 12 oz., 50¢; 32 oz., \$1.00. Tablet form, one size only, 50¢ postpaid. GEO. H. LEE CO., 203 Lee Bldg., Omaha, Neb.

egg-laying qualities in face of their poor records? It looks to an outsider as if their owners were trying to bolster up the very characteristics that they were deficient in. We will not name this breed, for fear of humiliating some who may have bought them under a misapprehension of their laying qualities. One writer says: "The White Plymouth Rocks are today the best breed for the farmer, the fancier, the city man with the back lot, the broiler and the egg-producer—in fact, the best breed for all classes." We don't believe it, and we say it, in spite of the fact that we are a breeder of White Rocks ourselves, and have been for twenty-four years. They are a breed of great merit or we would not have stuck to them so long, but we don't believe they are "the best breed for all classes." They are not a desirable breed for the city man with a back lot. White chickens in a city soon get dirty and dingy-looking, and of all things, a dirty-looking white chicken is the limit. A white chicken needs a fine green lawn to show off its beauty. Another writer in the same journal states: "I will endeavor to make clear my statement why the White Rocks are the ideal fowl. First, they have the size of the Brahmas; second, the compact bodies of the Orpingtons and Wyandottes; third, length and back of the Reds; fourth, the gracefulness of the Leghorns; fifth, but not least, the color which denotes purity. They are really the only chicken with all good points combined." How clear this man's statement may be to others we do not know, but to us it is a regular muddle. From the standpoint of a White Rock breeder we can disprove every one of the five propositions. First, if these White Rocks have the size of Brahmas, they are altogether out of proportion as Plymouth Rocks, for the standard requires them to weigh between two and three pounds less than Brahmas. Second, if they have the compact bodies of the Orpingtons and Wyandottes, they have not the true Rock shape, for Rocks are longer-bodied than either of these breeds. Third, if they have the length and back of Reds, then they are Rhode Island Whites, and not White Plymouth Rocks. Fourth, if they have the gracefulness of a Leghorn, they have the gracefulness of a breed that does not belong to them, and lack the gracefulness that belongs to a beautiful White Rock. Fifth, the white color of a white breed does not denote more purity than the black color of a black breed, or the buff color of a buff breed. So much for his propositions. But the White Rocks do not need such propositions to stand upon. They have merit enough to stand upon without any false foundations. What puzzles us is that the editors of poultry journals allow such statements to appear in their reading columns. Sometimes a man makes an extravagant statement in an advertisement that the editor might pass over, but the reading matter should not be so polluted.

FEDERAL INSPECTION OF GRAIN.

(Continued from Page 2)

of the delivery, he brought his samples in and graded them No. 4 white oats. Well, the oats were there, all loaded out as standard oats on standard certification. Of course, I would not take the oats. Finley Barrell said, "Take it to the appeals committee." I took it to the appeals committee, which I said this morning is a part of the silent, invisible influence. They passed on the oats as standard oats, and I had to take them.

"Now I had those oats switched around to the Hawkeye elevator, at West Hammond, Ill., and they were inspected and graded, under the same inspection department that first inspected them for standards, and which the appeals committee upheld—that very inspection department inspected and graded every car into the Hawkeye elevator as No. 4 white oats."

As you see, under the present system the grain dealer can take and does take the grain from the shipper on one grade and then sell by sample; or, grade it again and sell on a higher grade. So long as this continues, the farmer cannot expect to get the real market price for his grain, and in order to reach interstate shipments, and give him the protection required, there must be federal inspection, and an inspection which, when once made, cannot be changed. It would appear that the Curtis bill comes nearer to this than does the Moss bill.

A new fraud is going the rounds in other cities. A faker is selling watches with the names of well known makers on the dial, but buyers discover that the name has been put on with a rubber stamp. Time to watch out!

Use Old Ben Big Lump

The Cleanest, Brightest Coal for the Farm

Ask your dealer for it. Glad to send you an attractive, useful, practical Almanac Calendar. Write for it to Old Ben Mining Corporation 1114 McCormick Bldg., Chicago

Ironclad Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use! Why not own an Ironclad—the incubator that has for two years in succession won in the greatest hatching contests ever held. In the last contest conducted by Missouri Valley farmer and Nebraska Farm Journal, 2000 machines were entered, including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid, for only \$10, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in this last contest.

Both for \$10 Freight Paid East of Rockies

30 DAYS' FREE TRIAL Money back if not satisfied.

MADE OF CALIFORNIA REDWOOD

140 Chick Brooder

IRONCLAD INCUBATOR COMPANY, Box 151, RACINE, WIS.

HIDES and FURS PRICES HIGHER TRAPPING WORTH WHILE

We will pay you the highest prices on your hides and furs. We build our business by giving every man a square deal. We charge no commission, we send you a check the same day shipment is received. We treat you right. The house that has been successful for fifty years could not stand if it did not satisfy its shippers. Try us and see. Write for full list and tags.

JAS C. SMITH HIDE CO.

Third and Kansas Avenue, TOPEKA, KANSAS.
St. Joseph, Mo. Wichita, Kan. Grand Island, Neb.



Joplin, Mo. Dallas, Texas.

New Mankato Incubator

Let us send you the story of the greatest incubator and brooder offer ever made. Get prices and description of Mankato machines. Genuine California redwood. Triple walls with heavy asbestos lining. Heavy pure copper hot-water heating system. Thousands in use. Metal safety lamp. Tested egg tray. High nursery. Tested thermometer. Egg tester and everything you need.

\$7.25 Starts You Right Quick delivery

Get the new catalog of the biggest incubator factory of the northwest. Quick delivery and instant attention to your needs. Twenty years of success behind every Mankato. Just send name and address for big free book. A postal card will do.

Mankato Incubator Co. Box 729, Mankato, Minn.

"Royalblue" Barred Plymouth Rocks.

"Hyperion" R. C. Rhode Island Reds.

Are bred to perfection in every section, and win admiration and approval everywhere. A few extra fine Cockerels, Young Hens and Pullets for sale. Eggs for hatching. If interested, write for descriptive booklet and mating list.

T. E. LEFTWICH - - - Winfield, Kansas

MENTION KANSAS FARMER WHEN YOU WRITE.

FARM LANDS FOR SALE

THIS WILL INTEREST YOU

Do you want to move to Topeka to educate your children? If you do, this modern five-room home near Washburn College will just suit you. New, only occupied ten months. A choice location. Must sell quick. \$3,200 takes it. Address S. CARE KANSAS FARMER, TOPEKA.

LISTEN!

A section of land, level, first class soil, near the booming town of Amarillo, Texas, population 18,000. Land all fenced, 400 acres under cultivation. Warranty deed, best of terms. Will sell at a sacrifice. Address JOHN SCHMOCKER - COLUMBUS, NEB.

TWO BIG LAND BARGAINS

160-Acre Well Improved Farm—80 acres cultivated, balance pasture and meadow; 1 1/2 miles good high school town; good soil; big snap. Worth \$75. Priced at \$45 per acre for quick sale.

210-Acre Alfalfa Creek Bottom Farm—60 acres now in alfalfa. Some fine walnut timber. 160 acres as good soil as there is in Kansas. Price only \$60 per acre. Come at once and see these farms.

M. T. SPONG - FREDONIA, KANSAS

320 Acres Fine Unimproved Wheat Land in Scott Co.

This half section is every foot smooth land, only eight miles from Grigsby. This is school land. \$1,400 can run for twenty years at 6 per cent interest. Price, \$10 per acre.

D. F. CARTER - LEOTI, KANSAS

A BEAUTIFUL HOME

One of the finest locations in Kansas; 160 acres, six miles from State House, four miles from Washburn College. Good dairy farm; on gravel road, R. F. D., phone and milk route. Finely improved; eleven-room house, bath, toilet, hot and cold soft water; two barns, other buildings; well fenced; woven wire; abundance water; fruit. No incumbency. Not able to work farm. Terms.

E. P. LEVAN, ROUTE 8, TOPEKA, KAN.

FINE WHEAT FARM.

640 Acres Level Land, eight miles from Moscow, Kan., on new Santa Fe Railroad southwest from Dodge City. Daily R. F. D. route passes the land. Black soil, the very best of wheat land. Price, \$10,000; \$6,000 cash, balance five years at 8 per cent. One crop will pay for the land. No trades.

E. W. JOSLIN - HUGOTON, KANSAS

For Immediate Sale I offer my east 1/4 of the S. W. 1/4 and the S. W. 1/4 of the S. W. quarter of Section 13, Township 16, Range 24, Miami Co., Kan., 120 acres partly improved small buildings for \$4,000 spot cash.

E. W. Jones, Owner, Crookston, Minn.

GENUINE BARGAIN—Quarter section 3 1/2 miles from market, no buildings, 120 acres in wheat; average rental for three years over \$360. Surrounding lands, \$40 an acre. This goes for \$30 for quick sale. Terms. No trade.

JAS. H. LITTLE, LA CROSSE, KANSAS

FOR SALE

The best farm and buildings in Lyon County, consisting of 250 acres. Either as a whole or in 40-acre tracts. 1 1/2 mile west of the city limits of Emporia. Address H. D. NUTTING - EMPORIA, KANSAS

EXCHANGE

240 Acres, Franklin County; 8-room dwelling, ideal stock, grain. Want 40, 80.

BUCKEYE AGENCY - OTTAWA, KANSAS

NO FLOODS, NO DROUTH

Sure crops. 320 acres highly improved, irrigated Colorado ranch, at bargain.

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Home Investment Company, Chanute, Kan.

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Forty miles south of Kansas City. I have choice farms for sale at real bargains. Send for description.

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EIGHTY ACRES, JACKSON CO., KANSAS Seventy cult. Good house, barn and granary. Three good wells. Three miles to Hoyt, 14 miles to Topeka. \$85 per acre.

J. F. RANDOLPH - CLYDE, KANSAS

Advertisers in Kansas Farmer are reliable and sell dependable merchandise. Tell them where you saw their ad.



Little Talks to Housekeepers

Helpful Hints Here for the Women Folks of the Farm

Slow pass our days in childhood, and the hours of light are long. Betwixt the morn and eve; with swifter lapse They glide in manhood, and in age they fly; Till days and seasons fit before the mind As fit the snow-flakes in a winter storm, Seen rather than distinguished. —Bryant.

To prevent roasted meat that is to be served cold, from drying out and losing its flavor, wrap it in cheesecloth while it is still hot.

If your granite utensils have become burned and discolored, clean them by rubbing with sand-paper, after which scour with a cleaning powder. The result will be a new looking article without injury to the enamel.

To prepare a new iron skillet or kettle so that it will not rust, first fill it with potato peelings covered with water and boil for about an hour. Then empty it, wash with hot water, dry well and rub inside with lard. It will be as satisfactory as an old one with no danger of its rusting.

In buying furniture, a definite plan of the completely furnished house should be kept in mind, that each piece bought

may blend with the others. If the furniture is well selected with reference to style and durability, it will give much greater and more satisfactory service.

Nothing, in the way of equipment, is too good for the housewife and she should have as many conveniences as can be afforded. It is necessary to be able to choose between the useful and the worthless in furnishing the kitchen, for many so-called conveniences are not worth the space they occupy. But the piece that does the work claimed for it, is not a luxury but a time and strength saver.

Dampening the broom in hot soapsuds before sweeping, is a good practice. It not only helps to keep dust from rising in the room, but it serves to prolong the life of the broom. If treated in this way the straws are not so brittle and they will not break off so easily every time the broom is used.

When applying stove polish, whether of the liquid or paste kind, use a small paint brush for the purpose. This method will not only save the hands but it is so much easier to reach all the

FASHION DEPARTMENT—ALL PATTERNS TEN CENTS

This department is prepared especially in New York City, for Kansas Farmer. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering, all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want, and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Special offer: To anyone ordering a pattern we will send the latest issue of our fashion book, "Every Woman Her Own Dressmaker," for only 2 cents; send 12 cents for pattern and book. Price of book if ordered without pattern, 5 cents. Address all orders for patterns or books to Kansas Farmer, Topeka, Kansas.



No. 7543—Children's Dress: Cut in sizes 2, 4 and 6 years. Any of the pretty checked wash or woolen materials can be used to make this dress. The dress closes at the front underneath a box plait. Long or short sleeves may be used. No. 7552—Ladies' Waist: Cut in sizes 34 to 42 inches bust measure. This plain waist may be used for soft materials, such as silk, charmeuse and crepe de chine. Linen, madras or taffeta are also suitable for the waist. The collar may be buttoned high or rolled low. No. 7540—Girls' Apron: Cut in sizes 2, 4, 6, 8, 10 and 12 years. Linen, gingham or calico can be used to make this serviceable apron. It closes at the back and can be made with either the plain or bishop sleeves. The collar and bands around the sleeves are finished with edging. No. 7534—Ladies' Dress: Cut in sizes 34 to 42 inches bust measure. This simple frock is suitable for home or street wear. The closing is at the front and the three-gored skirt may have high or regulation waistline. Such materials as serge, cheviot and gabardine are liked for these dresses, with the collar of contrasting material. No. 7542—Ladies' Skirt: Cut in sizes 22 to 32 inches waist measure. Serge, broadcloth or gabardine can be used to make this skirt. The skirt is cut in two gores and is perfectly plain. There is a small belt at the waistline in the back. No. 7565—Ladies' Apron: Cut in one size. Any of the pretty flowered wash materials can be used for this apron. The apron can be worn with or without a dress and slips on over the head. The short sleeves end just above the elbow.

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cracks and corners of the stove that are usually hard to get to. When the brush is not in use, it should be kept in a cupful of water to prevent hardening.

White table-cloths are much more easily washed than are colored ones, and we think all will agree their effect is more appetizing. For every-day use the white crepe paper napkins are a good substitute for the linen ones. The paper napkins can be bought for ten cents a hundred.

No flower garden is complete without a row of sweet peas, but plant part of the peas in a row that can be seen from the kitchen window so that their beauty and fragrance can be enjoyed during the busy hours and without making a trip to the garden. Or, better still, have all the flowers planted near the house. But there are few flowers that have a more cheering effect than do sweet peas when the different colors are mixed in the row.

One way in which the housewife can save work is by carefully folding the sheets, dish towels, and Turkish towels when taken from the line, and putting them away without ironing. They should be thoroughly dry when folded.



MISSSES JESSIE BALL AND LELA BOWERSOX, LIVING NEAR BELLEVILLE.—MEMBERS OF A SEWING CLUB.—THEY MADE THE DRESSES WORN FOR THE PICTURE, AND WON TRIPS TO MANHATTAN

"Be Neighborly."

These words are the link which binds together the women of a community club about which we recently read. The club has no officers, no dues, no constitution. All the women of the community are welcomed, and the only requirement is that they promise to be good neighbors.

Strange as it may seem, it was a man who first felt the need for this organization at Simeon, Neb., a town which is more than twenty miles from a railroad. The husband of one of the present members reasoned that it would be as helpful to the women of the neighborhood to meet together frequently, as for the men, who had become well acquainted at business gatherings.

The result of this man's suggestion is a live women's club which meets as often as the leisure time of these busy housewives will permit. They have all-day sessions and the programs are varied. The way the time shall be spent is planned ahead. Sometimes it is a day's sewing for their hostess, sometimes helping her in other ways. The field of possibilities for a club of this kind is unlimited.

Attention, Boys and Girls.

Did you work in a corn, kafir, pig, sewing, garden, or cooking club last year? If you did not, you do not know what you missed. It is such a lot of fun to know you are doing the same thing many other boys and girls are doing. It almost makes you feel you know them—or at least you would like to—even though part of them do live as far away as possible and still be in Kansas.

If you did not belong to a club last year, you should join one this spring. Besides the pleasure of doing the club work, there are county and state prizes to be won, and you have the same op-

portunity to win these as do all the others. Don't think for a minute that it is of no use for you to join because you know some of the other boys and girls will get all the prizes. No one knows who will get the prizes until the work is all done and the results have been carefully checked. It is good, careful work, and the carrying out of the few simple rules furnished by the club leader, that will help you to stand at the top of the list.

On page four of this paper is a story about this club work. Read the stories told by these club members and then decide to join a club and see what results you can get this year. By writing Otis E. Hall, Kansas Agricultural College, Manhattan, you can learn all about the different clubs and what it would be necessary for you to do to become a member.

If you were a club member last year we would be glad to hear from you, telling about the work you did. We have had a number of such letters the past few weeks and these will be printed in our paper. Send your letter to the editor of KANSAS FARMER.

Letter-Writing.

Don't weary in helping the little folks to correct their letters before mailing. The habit of being careless about letter-writing is easily formed. But an appeal to the pride in this matter will in most cases be of lasting value. For instance, if the child is told that it is only by the neatness of his letters and the correctly spelled words, that far-away Grandma can know how much he has grown since she saw him last, this is quite apt to have a stimulating effect. Letter-writing is something we should do throughout life, and the ease with which we write later, depends upon our start.

In many of these matters most of us have but to remember our own early experiences to solve these same little problems today.

And in writing letters to children special care should be given the appearance of the sheet and the construction of the message. None of us will ever forget the flood of aspirations that took possession of us when in childhood some older person whom we respected highly, took special care to be courteous to us or showed us the attention too often accorded only grown-ups. Let us by precept and example teach the youth those things which as the years go by will become more valuable and which will help them to fit naturally into their surroundings.

Graham Pudding.

- 1/2 Cupful molasses
- 1/2 Cupful butter
- 1/2 Cupful sweet milk
- 1 Cupful raisins
- 1 Egg
- 1 Teaspoonful soda
- 1 1/2 Cupfuls graham flour.

To this add any spice desired, and steam the mixture two and one-half hours.

Good Waffles.

- 2 Eggs, beaten light
- 1/2 Teaspoonful sugar
- 1 Teaspoonful melted butter
- 1 Cupful milk
- 2 Teaspoonfuls baking powder
- Flour enough to make thin batter.

Whole Wheat Bread.

Make sponge as for white bread and let rise over night. Add one-half cupful sugar, and salt to taste, and mix with whole wheat flour as stiff as for white bread. Let rise once, then mold into loaves. When light, bake one hour.


Reading Aloud.

There is no better way to learn to read well than by reading aloud. For this reason children should be encouraged in it and should have the attention of some older person during the reading. There are things more interesting to do, but if the value to the child is remembered, it will not be so hard to be patient.

Quarterly Fashion Book, 10 Cents.

As owing to the large number of departments, it is not possible for us to illustrate the very many new designs that come out each month, we have made arrangements to supply our readers with a quarterly fashion catalog illustrating nearly 400 practical styles for ladies, misses and children, illustrating garments all of which can be very easily made at home. We will send the latest issue of this quarterly fashion book to any address in the United States, postage prepaid and safe delivery guaranteed, upon receipt of 10 cents.

The school year is drawing to a close. You should make at least one more visit to the school before the end of the term. Perhaps while there during a session you will be able to see needs in the way of improvements which can be made during the summer vacation, and which might not be noted in the empty room.



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Solid construction and good style give to Honorbilt Shoes their well earned reputation for quality. For comfort and wear they have no equal no matter what you pay.

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STRAWBERRY PLANTS FREE If you will report as to your success with them. Will bear loads of big, red, berries from June to November. We have counted 400 berries, blossoms and buds on a single plant. A postal will bring the plants, also enough seed of the new GERALD FETTER to plant a rod square of ground. Also a set of perennial ORIENTAL POPPY seed. Send 10 cts for mailing expense or not, as you please. Write today and get acquainted with THE GARDNER NURSERY COMPANY Box 766 Osgo, Iowa.

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Lot No. 000 ED-49. 28 gauge painted reclaimed and refinished stock, 2 1/2 in. corrugated only, sheets approximately 2 ft. wide by 2 1/2 to 3 ft. long. Coated with a good grade of heavy asphalt paint. Price per square, \$1.33.
Lot No. 000 ED-49. Galvanized Roofing, full 28 gauge heavy weight 2 1/2 in. corrugated sheets, 4 and 4 1/2 ft. long only. This material, although used, has been reclaimed and refinished and in addition to being galvanized, will be painted red, free of charge. Price per square, \$2.25.
Lot No. 000 ED-49. Red and green slate roofing, 108 sq. ft. to the roll, two to three pieces to the roll, complete with nails and cement, high grade covering, full weight and extra heavy. State color wanted. Per roll of 108 sq. ft., \$1.05.

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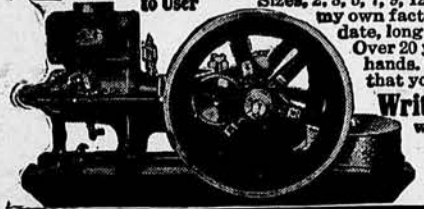
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GENERAL FARM ITEMS

It always is more difficult to keep stock cattle in good condition toward the end of the wintering period than earlier. The fodder has lost its feeding value to some extent and is less palatable. An amount that would have been sufficient earlier, will not be enough along toward spring. The animals will not clean it up as well and what they do eat is lacking in strength. This is always more noticeable where the stock have been wintered largely on dry fodder. Where alfalfa and silage can be fed there is not this tendency for stock to lose in flesh at the end of the feeding season. Many do not have silos as yet, and on such farms these rough feeds that have deteriorated as a result of the exposure, should be supplemented with some strong concentrate in order to keep the stock from running down. It would pay in most cases to feed some concentrate to stock cows and heifers all winter if the roughage is very poor.

The temptation under these circumstances is to think that since it is not very long until the pasture season will open the cattle can get along and make up for it after they go on the grass. It is really poor policy to do this, and especially in the case of the cows and heifers that are to drop calves the coming season. These should by all means be fed some cottonseed cake and perhaps a little corn or kafir during the closing weeks of the feeding period.

It never pays to let cows and heifers come out of the winter skin-poor. Their calves will be weak and the per cent of losses high. The heifer will be in no condition to nourish the calves properly and it will take all summer on good pasture to get them back in condition. The young heifers that bring calves under such treatment will never grow out into good-sized cows. They will have received a stunt that they cannot overcome. This is one reason why breeding cows in the herds in the western part of our state have a tendency to become smaller in size than is the standard for the breed. This developing of the young heifers is one of the weak points in the growing of cattle, and every precaution possible should be taken to see that they are so fed that they will not be stunted at this most trying period of the year.

Watch Sows at Farrowing Time.

It is important to save the early litters. Every pig lost lessens the chance for profit. To be on the safe side an attendant should always be present at farrowing time, but should not interfere with the sow unless necessity calls for his assistance. The raiser should always cultivate the confidence of his animals by quiet and humane handling; this care and attention in times of necessity will pay big returns. The pigs upon arrival should be rubbed dry with a gunny sack and quietly removed to a place of safety. For this purpose it is well to provide a covered basket or box containing gunny sacks. In cold, damp weather it may be well to warm a brick, wrap it in a gunny sack, and place it in the basket to warm up the new arrivals. If the sow is very long in farrowing it may be well after two or three hours to place the little pigs carefully and quietly where they can get some nourishment and then replace them in the basket until the mother is through.

For twelve hours before farrowing and for twenty-four hours afterwards, the

sow should have no feed. During this period all the fresh, clean water that she may desire should be accessible. The water should have the chill taken off. The first feed after farrowing should be very light, preferably a bran mash. The best indicator of the amount of feed necessary for a sow and her pigs is her condition and the condition of the youngsters themselves. The sow should receive enough to keep her and her pigs in a fair condition, and yet she should not be overfed. Overfeeding of the sow often causes scours in the pigs.

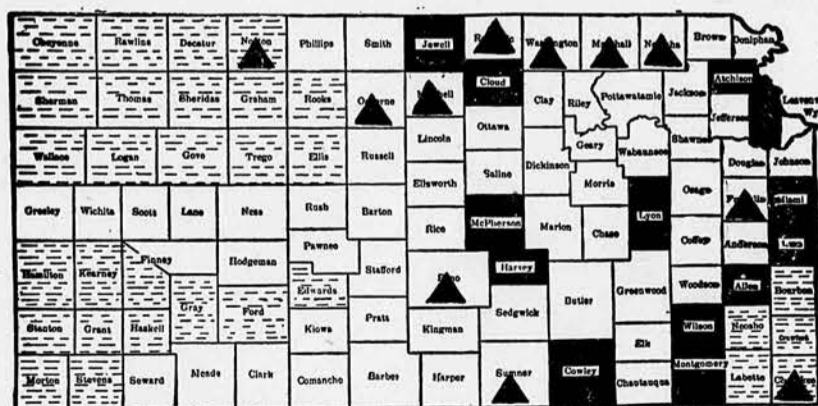
Marketing Ducks' Eggs.

The demand for ducks' eggs at a good price is limited and not nearly as general as the demand for hens' eggs. The quality of ducks' eggs on the average market was poor until people began to keep Indian Runner ducks and to build up a trade in first-class eggs. A good demand for ducks' eggs exists about Easter time at prices usually several cents higher than for hens' eggs, but during the balance of the year the average price for ducks' eggs has been about the same as for hens' eggs. Most buyers make no quotations for ducks' eggs except early in the spring. Since three ducks' eggs weigh about the same as four hens' eggs, ducks do not appear to be as profitable for the production of market eggs as fowls. A trade is gradually being established in some markets for fancy near-by ducks' eggs which bring higher prices than hens' eggs, and the demand seems to be increasing. Pure white eggs are preferred and usually bring the highest price. These eggs should be marketed frequently, as they depreciate in quality more rapidly than hens' eggs, especially during hot weather. The market for eggs should be carefully investigated by those who intend to raise breeds of the egg-laying type of ducks, such as the Indian Runner.—Farmers' Bulletin, U. S. Department of Agriculture.

Value of Dairy Cow.

Dairymen of Kansas who have been trying to buy dairy cows, know that it is not possible to buy much of a cow for \$50. The latest figures from the federal government, however, give as the average value of the 22 million dairy cows in the United States, \$53.90. If this is a correct average value of this great herd of cows kept for milk production, there must be a good many of them that are not returning much profit. All over the country there is an increased interest in the improvement of the production powers of dairy cattle and this federal value shows an increase of \$20 a head over that given for 1910. With this increase in the producing capacity of our milk cows, must go increased ability to properly feed and handle good cows. If real dairy feeding and handling could be given to all the cows milked, there would be a tremendous increase in the production of dairy products. It is perhaps even harder to bring about improvements in dairy methods than it is to bring about improvement in dairy cows.

The National Dairy Show, which has for several years been held in Chicago, is to go East this year. The date has been announced as October 12 to 21, and it will be held in Springfield, Massachusetts.



THIS map shows the progress the farm bureau idea has made in Kansas. Counties in black have organized farm bureaus and have county agents at work, except McPherson and Wilson counties, which have just completed organization and will have agents employed by March 1. Counties with parallel dashes have district agents sent out by the Agricultural College and the Federal Department of Agriculture. Only a small part of the agent's time is given to each county. In Southwest Kansas the Santa Fe Railroad co-operates in the work. The counties with triangles have active committees organizing farm bureaus.

RELIABLE POULTRY BREEDERS

LEGHORNS.

LEGHORNS—SETTING EGGS, BUFF, \$4, 100. Jessie Crites, Florence, Kan.

SINGLE COMB WHITE LEGHORN cockerels of quality, \$1. Will Tonn, Haven, Kan.

FULL BLOOD ROSE COMB WHITE LEGHORN cockerels, \$1 each. N. C. Dewey, Stafford, Kan.

PURE-BRED SINGLE COMB WHITE Leghorn, White Wyandotte cockerels, \$1.00 each. A. F. Hutley, Maple Hill, Kan.

CLASSY S. C. W. LEGHORN COCKERELS, \$1 each. Shetland Pony Farm, Coffeyville, Kan.

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

S. C. WHITE LEGHORNS FOR SALE—Cockerels, \$1.50 to \$3; hens, \$1 to \$1.50. Mrs. M. Kitterling, Route 4, Wichita, Kan.

ROSE COMB BROWN LEGHORNS—Kulps strain. Prize winners, \$1 and up. Otto Borth, Plains, Kan.

EGGS—SINGLE COMB WHITE LEGHORNS exclusively. Keep playing strain. Thol R. Wolfe, Conway Springs, Kan.

CHOICE S. C. BROWN LEGHORN HENS, \$10 dozen. Mrs. L. H. Hastings, Thayer, Kan.

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WINTERLAY S. C. WHITE LEGHORNS—Bred for egg production exclusively. Day-old chicks. Hatching eggs. Barlow & Sons, Kinsley, Kan.

SINGLE COMB WHITE LEGHORNS—Official egg records, Missouri Experiment Station. Harmon, 400 1/2 South X, Springfield, Mo.

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SCHOOLEY'S LEGHORN FARM (SINGLE Comb White exclusively). We specialize in fancy table eggs and farm raised breeding stock, trapnested, selected and bred for egg production. Book your order now for guaranteed eggs for hatching. Box 87C, Lawrence, Kan.

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CAREY STRAIN WHITE ORPINGTONS—Prize winners. Settings, \$2 to \$5. Mrs. Helen Lill, Mt. Hope, Kan.

FINE S. C. B. ORPINGTONS—HENS, free range at \$1 each. Martha Brown, Parkerville, Kan.

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S. C. BUFF ORPINGTONS—THE KIND that win, lay and pay. Good buff color, shape and size. Eggs, \$1.50 per fifteen. A. L. Beall, Green Castle, Mo.

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QUALITY WHITE ORPINGTONS—HENS, pullets, cockerels and eggs. High quality, right prices. R. Bowman, Pawnee Rock, Kan.

WHITE AND BUFF ORPINGTONS—Prices reasonable on stock and eggs. Trios and pens from State Show winners. 230-egg Cornell Incubator for sale. Mrs. Barracough, 137 South Fern, Wichita, Kan.

BABY CHICKS.

YOU BUY THE BEST BABY CHICKS, guaranteed, at Colwell's Hatchery, Smith Center, Kan.

BABY CHICKS—FIRELESS HOT WATER brooder—can't freeze water fountain. Get our circular. Kansas Poultry Company, Norton, Kan.

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FAWN INDIAN RUNNER DRAKES, \$1, \$1.25. Mrs. E. C. Wagner, Holton, Kan.

WHITE INDIAN RUNNERS, PURE-bred. Drakes, \$1. Bertha Louk, Michigan Valley, Kan.

SIXTY VARIETIES PRIZE WINNING geese, ducks, chickens, peafowls, guineas. Stock eggs cheap. Write wants. F. J. Damann, Farmington, Minn.

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HOUDANS DEPENDABLE—LINE BRED cockerels, yearling hens and pullets, utility and exhibition. Prices reasonable. Eggs in season, \$2 per fifteen; satisfaction assured. Elm Park Place, Lawrence, Kan. W. L. Bullene.

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CHOICE BARRED PLYMOUTH ROCK cockerels, \$1.50 to \$3.00 each. E. Leighton, Effingham, Kan.

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THIRTY-ONE YEARS A BARRED ROCK breeder. Beautiful catalog free. O. E. Skinner, Columbus, Kan.

IVORY STRAIN WHITE ROCKS—LARGE white cocks, cockerels, females. Grace Dolson, Neal, Kan.

BUFF ROCK PULLETS—A BARGAIN IF taken soon. Eggs for hatching. Prices reasonable. E. D. Small, Wilson, Kan.

WHITE PLYMOUTH ROCK COCKERELS—Large birds. Eggs, \$2 per fifteen. W. W. Pressly, Meade, Kan.

DUFF'S BIG-TYPE BARRED ROCK eggs. Federation medal winners. A. H. Duff, Larned, Kan.

BARRED ROCKS—COCKS, COCKERELS. Toulouse geese, \$1 to \$3. A. G. Hammond, Vinland, Kan.

RINGLET BARRED ROCKS—BEST blood lines. Satisfaction guaranteed. T. J. Embury, Baxter Springs, Kan.

CHOICE BARRED PLYMOUTH ROCK cockerels, Bradley strain, Parks 200 egg strain, \$2 to \$5. Gem Poultry Farm, Haven, Kan.

BARRED ROCKS—EGGS FROM LARGE vigorous range birds, heavy laying strain, setting, \$1; hundred, \$5. S. R. Blackwelder, Isabel, Kan.

PURE-BRED BARRED ROCK ROOSTERS, pullets and hens. Fine individuals at moderate prices. Thomas D. Hubbard, Kimball, Kan.

BUFF ROCK COCKERELS BRED FROM Frisco World's Fair champions, \$5 each; elegant breeders. C. R. Baker, Box F, Abilene, Kan.

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WHITE ROCK EGGS—STATE SHOW winners, only \$1.00 fifteen, \$5.00 hundred. Baby chicks, 10c. Mating list with records free. Nellie McDowell, Route 1, Garnett, Kan.

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BARRED ROCKS, STRAIN STEEL GRAY, won first six state and poultry shows. Grange, farm raised. Eggs, Thompson and O'Gara sell for \$2, \$5, fifteen, I sell for \$1.75. John W. Ijams, Oskaloosa, Kan.

MY BUFF ROCKS, AS USUAL, WON most of the honors in their class at State Poultry Show. First cockerel, first pullet, first hen and first pen, besides other premiums. Eggs from best matings, \$5 per setting. A. J. Waddell, Wichita, Kan.

WHITE PLYMOUTH ROCKS STILL hold their popularity. Barring one, they were the largest class at the World's Fair at San Francisco. Good to lay, good to eat and good to look at. I have bred them exclusively for twenty-four years and they are one of the best breeds extant. Eggs from first-class birds, the same kind I hatch myself, \$2 per 15, \$5 per 45, and I prepay express or postage to any part of the Union. Thomas Owen, Route 7, Topeka, Kan.

LANIER'S BRED-TO-LAY BARRED Plymouth Rocks of superlative quality. (Pittsfield and J. W. Parks strains.) They are standard-bred, every one of them. The males that head our pens are pedigree, whose dams with records of 210 eggs or better. We have females that are bred from high record hens. If interested in filling the egg basket, we can supply you in eggs for hatching, four and eight-week-old chicks. Write for prices today to DeWitt Lanier, Barred Rock Specialist, Cardwell, Mo.

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S. C. BLACK MINORCAS—COCKERELS, \$2.50; eggs, \$1.50; \$6 hundred. J. M. Johnson, Bolivar, Mo.

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PARTRIDGE COCHINS—ALL FULL-blooded stock, prize winners. Fifteen eggs, \$3. Hens or pullets, \$2 each; cockerels, \$4 each. Nicholas Bach, Hays, Kan.

When Writing to Advertisers, Please Mention Kansas Farmer.

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EGGS FOR HATCHING.—SEND FOR free egg circular; it tells of the West's best birds. All eggs, \$1.50 per fifteen. Forty mated yards. Modlin's Poultry Farm, Route 7, Topeka, Kan.

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BIG HUSKY FARM-RAISED LIGHT Brahmas. Eggs from St. Louis, Kansas City and Chicago winners, \$3 to \$5 per fifteen. Fine stock for sale. Mrs. W. G. Robinson, Bowling Green, Mo.

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EXHIBITION AND UTILITY LANGSHAN cockerels from high scoring stock, \$1 to \$5 each. J. A. Lovette, Poultry Judge, Mullinville, Kan.

BLACK LANGSHAN EGGS—ONE SETTING, \$2; three settings, \$5, prepaid. Also stock. Mating list free. Curtis Mullen, Mountain View, Mo.

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GUINEAS—WHITE AFRICAN, \$5 TRIO. Pearls, \$2. The Copes, Topeka.

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DARK ROSE COMB RED COCKERELS—Prices right. Louis G. Roth, Holyrood, Kan.

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RHODE ISLAND REDS—EGGS FROM fine matings. Mrs. F. A. Fulton, El Dorado, Kan.

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SINGLE COMB REDS—THREE EXTRA fine matings, \$1, \$2 and \$4, fifteen eggs. Few good cockerels. C. E. Florence, El Dorado, Kan.

RHODE ISLAND REDS—FIFTEEN EGGS \$3; hens or pullets, \$2 each; cockerels, \$2 to \$15; cocks, \$4. All good ones. Nicholas Bach, Hays, Kan.

100 ROSE COMB RED COCKS AND cockerels, sired by roosters costing \$15 to \$75. \$1.50, \$3, \$5, \$7.50 each. A few higher. 1916 pens best ever. W. R. Huston, Americus, Kan.

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EGGS FOR SALE—FROM MAC'S RIVERSIDE S. C. R. I. Reds. State show winners, three excellent matings. Price, \$3 per fifteen, \$5 per thirty, \$12.50 per hundred. W. C. McPherson, 1233 Forest Ave., Wichita, Kan.

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GUARANTEED FERTILITY, SAFE DELIVERY of low priced hatching eggs, from big boned, good colored, heavy laying strain, both combs, Rhode Island Reds. Mating list free. H. A. Sibley, Lawrence, Kan.

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GOOD PURE-BRED MAMMOTH BRONZE turkeys. Sadie Litton, Peabody, Kan.

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SOME EXTRA CHOICE MAMMOTH Bronze turkey toms for sale. Mrs. Harry Keene, Cuba, Kan.

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LADY OR GENTLEMAN TO TRAVEL for old established firm. No canvassing. Stable line. Salary, \$18 weekly, pursuant to contract. Expenses advanced. Address G. M. Nichols, Pepper Bldg., Philadelphia, Pa.

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OZARKS OF MISSOURI, FARMS AND timber lands, from \$5 to \$40 per acre. Write for list. Avery & Stephens, Mansfield, Mo.

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IMPROVED FARMS FOR SALE ON terms same as rent; low rate of interest. Netherow-Reid Realty Co., Eldorado Springs, Mo.

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FOR SALE—A MODERN HOME IN Topeka, located on a good street, near school and business district; two lots, modern seven-room house, barn, a choice location. Will sell at a bargain. No trades. Address Z, care Kansas Farmer.

FOR SALE—160 ACRES DEEDED HOME-stead; 95 cultivated, 65 in wheat; one-third crop with sale. Good soil, shipping and school facilities. \$30 per acre for quick sale. Address owner for details. Mrs. Edwin Jesse, Roundup, Mont.

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IN THE WORLD'S BEST CLIMATE—The Immigration office of the Elephant Butte Water Users' Association, Las Cruces, N. M., invites the homeseeker's attention to the unexcelled opportunities for dairying and general farming on Uncle Sam's greatest irrigation project. Only 45 cloudy days and 8.82 inches rainfall per annum. Associations shows lands, supervises sales, protects purchaser's interests, helps him to succeed. Write us.

160 ACRES—130 ACRES IN CULTIVA-tion, 30 acres pasture, good water, 1/4 mile from school, 3 miles from town and railway; good black soil with clay subsoil; buildings and improvements; 8-room house, one barn nearly new, 30x40, and all other outbuildings necessary to make a complete stock and grain farm. Land fenced and cross-fenced; in good condition. Principal crops are corn, oats and wheat. \$55 per acre, with \$75. Address W. P. Dorman, Girard, Kan.

LUMBER.

LUMBER—WHERE AND HOW TO BUY it cheap. Send material list to Box 1502, Tacoma, Wash.

MISCELLANEOUS.

FERRETS, FERRETS, RABBITS, GUINEA Pigs, Toulouse Geese. (Jewell), Spencer, O.

BELGIAN HARES, ALL VARIETIES, for sale. J. W. Wampler, Garden City, Kan.

2,000 FERRETS FOR SALE. T. BRE-man Co., Danville, Ill.

MONEY TO LOAN ON IMPROVED KAN-sas farm lands. All negotiations quickly closed. No delays. A. T. Reid, Topeka, Kan.

\$25 FOR STRAWBERRY NAME. OTHER big prizes given. For conditions write R. Thomas, Shenandoah, Iowa.

DRINK AND DRUG HABIT PAINLESS-ly and permanently cured in ten to fifteen days. You take no chances, pay only when cured. Hill Sanitarium, Ardmore, Okla.

NOTICE TO WHOM IT MAY CONCERN: The Perfection Metal Silo Company, a Kansas corporation, having its principal office in Topeka, Kansas, by resolution of its stockholders, duly adopted at a meeting held on January 11, 1916, changed its name to The Perfection Metal Products Company.

FOR SALE—LATEST PLAT BOOK OF Shawnee County, 44 pages, size 14x19 inches. Shows each township in the county, with name of each property owner on his land, also rural routes, school houses, railroads and complete alphabetical list of taxpayers in county outside Topeka and Oakland. Satisfaction guaranteed. Cloth binding, \$5.00. To close out remaining Bristol board binding will sell a year's subscription to Kansas Farmer and Plat Book for only \$1.50. Last previous county map sold for \$10. Send all orders to Kansas Farmer, Topeka, Kan.

HEDGE POSTS.

HEDGE POSTS FOR SALE—CAR LOTS. H. W. Porth, Winfield, Kan.

HORSES AND MULES.

SHETLAND PONIES, GELDINGS, MARES and colts, all colors. C. H. Clark, Leocompton, Kan.

11-WORTH COUNTY JACK FARM—Twenty head of Jacks and Jennets, big boned and wide out. Corson Bros., Potter, Kan.

HIGH GRADE SHIRE STALLION, TWO years old, sired by imported horse. Sale or trade for registered Percheron mare. Woestmeyer & Shuyler, Bethel, Kan.

TREES, SEEDS AND PLANTS.

GOOD SEED CORN FOR SALE—WRITE Baker Bros., Farragut, Iowa.

SEED CORN—FRED LAPTAD, LAW-rence, Kan.

SEED CORN FOR SALE—WHITE ELE-phant, largest yielding early corn grown. G. Manville, Fayette, Mo.

GARDEN SEEDS—BEST VARIETIES. Send postal for illustrated catalog. I. N. Simon & Sons, Philadelphia, Pa.

ALFALFA, SUDAN GRASS, CORN, other seeds. Free samples. F. D. DeShon, Route 4, Logan, Kan.

PURE ST. CHARLES SEED CORN, \$1.25 per bushel. Frank Crosby, Route 2, Belvue, Kan.

PURE GOLD MINE AND BOONE COUNTY white seed corn, \$1.50 per bushel. Samples free. J. F. Feigley, Enterprise, Kan.

TREES AT WHOLESALE. CATALOG free. Agents wanted. Peyton Nurseries, Boonville, Mo.

ST. CHARLES WHITE SEED CORN FOR sale, \$1.40, tipped and sacked. Peter Rucker, Route 2, Carbondale, Kan.

HULLED WHITE SWEET CLOVER SEED 18c pound. Clover honey, 10c. Wesley Foster, Boulder, Colo.

YELLOW BLOSSOM UNHULLED SWEET clover seed, 10c pound. Far ahead white variety for pasture or bees. Sam Wilkinson, Hewins, Kan.

RED TEXAS SEED OATS, DIRECT FROM Texas. Recleaned, graded and sacked, 50 cents per bushel f. o. b. Hiawatha, Kansas. Brown County Seed House, Hiawatha, Kan.

EVERBEARING STRAWBERRIES, RASPB-berries, all kinds berries, hardy flowers, trees, shrubs and bulbs. Best of stock. Price list free. W. L. Lux, Route 7, Topeka, Kan.

SENATOR DUNLAP STRAWBERRY plants, \$2.50 per 1,000. Famous Progressive fall-bearing, quality a guarantee. Send for catalog. M. C. Buteyn & Sons, Route 2, St. Joseph, Mo.

SUDAN SEED—PURE, RECLEANED, clear of Johnson grass, 15c per pound. In lots of 100 pounds or more, 10c per pound. Money to accompany orders. Book of instructions furnished with each order. F. M. Grundy, Lubbock, Texas.

TEN GREAT J. H. HALE PEACH, 4 feet, \$2.50. Currants, best 2-year, 10c each, \$7 hundred. Ten Genuine Delicious trees, 5 feet, \$1.50. Money back if not satisfied. No agents. Ten Peach, 4 feet up, your choice, \$1. Sunny Slope Nursery, Hannibal, Mo.

PATENTS.

PATENTS PROCURED. INQUIRE ABOUT our \$100 cash prize. Free advice. Free search. Free official drawings. Capital Patent Co., Dept. E, Washington, D. C.

HONEY.

HONEY—FANCY WHITE EXTRACTED, two 60-pound cans, \$11; light amber, \$10; amber, \$8.50. Bert W. Hopper, Rocky Ford, Colo.

BUSINESS CHANCES.

FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine, "Investing for Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real earning power of money, and shows how anyone, no matter how poor, can acquire riches. Investing for Profit is the only progressive financial journal published. 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 Blvd., Chicago.

TOBACCO.

FINE CHEWING AND SMOKING TO-bacco. Three years old. Send stamps for samples. W. L. Parks Tobacco Co., Adams, Tenn.

NURSERY STOCK.

TREES AT WHOLESALE PRICES—True to name. Packed with care. Fruit book free. Wellington Nurseries, Dept. G, Wellington, Kan.

THE BRODBECK SWEET CHERRY, twice the size of Early Richmond. Only one failure in past twenty years. Trees for sale. Write for its history. S. S. Brodbeck, Galatin, Mo.

LET ME SAVE YOU 40 PER CENT agents' commissions on trees this spring. Get my direct-to-you money-saving prices. Fruit book free. W. F. Schell, proprietor Wichita Nurseries, Box 1, Wichita, Kan.

BLACK HILLS EVERGREEN TREES that will grow. Prices are half and over half lower than others. Send for circulars and price list. M. J. Anderson, Box 462, Rapid City, S. Dak.

PEANUT BUTTER

BLACK WALNUTS, 80 CENTS BUSHEL. Nice fresh walnuts, packed and delivered at express or freight office, only 80c per bushel. Pecans, 10c pound. Best shelled Rice Pop Corn, pops fine, 10 pounds 50c. Finest pure Peanut Butter, one pound 20c, 2 1/2 pounds 40c, 4 1/2 pounds 70c, 9 pounds \$1.25, 55 pounds \$6.60. In air-tight tin cans. Write today for circular. Henry Jefferies, Ottawa, Kansas.

HOGS.

DUROC SWINE—THREE BRED SOWS, twelve summer and fall shoats; two Red Polled bull calves. Two registered saddle stallions, one and two years respectively. Pedigrees given with every animal. J. B. Davis, White City, Kan.

SITUATION WANTED.

WANTED—A POSITION ON FARM BY single man of good habits, experienced, age 18. C. F. Osborn, Madison, Kan.

YOUNG MAN WANTS SITUATION ON A farm by the month. Will work all summer. Wages no object. J. J. Camel, Newton, Kan.

WANTED—STEADY WORK ON FARM; age 18. My home is in Virginia. Write R. L. Snead, Greenville, Texas.

MARRIED MAN WANTS WORK BY month on farm. No family. Chester DeWalt, Vilets, Kan.

MARRIED MAN WANTS JOB ON FARM where house and garden is furnished. Have had experience and can give good references. G. I. Bardwell, Arno, Mo.

SINGLE MAN, 19, WANTS A JOB ON farm. Have had experience and not afraid of work. Wants to begin March 1. A. D. Hagee, Arno, Mo.

ANYONE WANTING A TRUSTY FARM hand, please write me. Am 19 and single. Want to begin March 1. Etcyl Hagee, Arno, Mo.

IF YOU WANT A STEADY, RELIABLE, experienced, strictly sober, married, farm or ranch hand, address at once, C. M. Bruner, Route 2, Dorrance, Kan.

EXPERIENCED FARM HAND, SINGLE, no bad habits, wants work on farm, wheat belt preferred. Harry M. Harpster, Council Grove, Kan.

WANTED—A JOB BY THE MONTH, OR to rent a farm with everything furnished but labor and brains. Luke Griffiths, Route 1, Geneseo, Kan.

MARRIED MAN WITH TWO CHILDREN wants farm or dairy work by month or year. Work on shares considered. Can give references. P. M. Stewart, Route 5, Osborne, Kan.

YOUNG MAN, SMALL FAMILY, WANTS 80 or 160 on salary or shares if you back me. Experienced, some scientific training. Address E. J., care Kansas Farmer, Topeka, Kan.

CATTLE.

REGISTERED JERSEY BULL PERCY Lill, Mt. Hope, Kan.

GALLOWAY BULLS FOR SALE. REG-istered. J. W. Priestley, Bolcourt, Kan.

RED POLLED. WILKIE BLAIR, GIR-ard, Kan.

FOR SALE—THREE REGISTERED HOL-stein bull calves. W. H. Surber, Peabody, Kan.

HOLSTEIN CALVES—CHOICE HIGH-grades, crated. Heifers, \$20.00; bulls, \$15.00. L. D. Arnold, Manhattan, Kan.

FOR SALE CHEAP—HIGHLY-BRED registered Guernsey bull. For pedigree copy address S. C. Wiley, Eureka, Kan.

FOR SALE—HIGH-GRADE HOLSTEIN cows and heifers, all ages. R. N. Martin, Blue Mounds, Wis.

FOR SALE—HIGH-GRADE HOLSTEIN heifer calves, \$15 each, crated. Edward Yohn, Watertown, Wis.

REGISTERED HOLSTEIN BULL CALF—Fine individual, nearly white. Dam, two grandams, nearly white. \$60. O. S. Andrews, Greeley, Kan.

ALYSDALE SHORTHORNS FOR SALE—Six good registered Shorthorn bulls of serviceable age, red in color, prices very reasonable. Write or call upon C. W. Merriam, Columbian Bldg., Topeka, Kan.

CHOICE HOLSTEIN GRADE COWS AND heifers, mostly springers. The best obtainable. Save time, money and long shipments. Car loads a specialty. State requirements. Paul E. Johnson, Olathe, Kan.

DOGS.

FOR SALE—CHOICE PURE-BRED COL-lie pups from well trained parents, at let live prices. L. A. Whitten, Fairmont, Neb.

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.

COLLIE PUPS FROM GENUINE STOCK dogs that drive from the heel. Best of breeding. E. L. Dolan, Route 2, Platte City, Mo.

BERMUDA GRASS.

BERMUDA GRASS—HARDY, RANK growing variety. Stands floods, drouths, hot winds and severe freezing. Best and hardest pasture grass. Great milk producer. Write today for leaflet telling how to get started. Henry Jefferies, Ottawa, Kan.

POULTRY WANTED.

PAYING 13c FOR HENS; TURKEYS, 17c; guineas, dozen, \$4. Coops loaned free. The Copes, Topeka.

BABY CHICK FEED.

FINE QUALITY BABY CHICK FEED, \$1.75 cwt. f. o. b. Ft. Scott, Kan. "Brooks Best" Calf Meal, \$3.25 cwt. Brooks Wholesale Co.

THE STRAY LIST

TAKEN UP, ON THE 10TH DAY OF January, 1916, by Frank Schibler, of Delphos, Logan Township, Ottawa County, Kansas, one heifer calf, color dark red, white underneath body, no brands; appraised at \$25. C. C. Davis, County Clerk.

TAKEN UP—BY E. T. BURTON, IN Lake Township, Harvey County, P. O. address Burrton, Kansas, R. 2, on the first day of October, 1915, one red steer calf coming yearling, weight about 350 pounds, crop in right ear, appraised at \$25.00. C. A. Young, County Clerk.

FARM AND HERD

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

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CLAIM SALE DATES.

Percherons.
Feb. 24—Breeders' Sale, Hutchinson, Kan. C. B. Warkentin, Newton, Kan., Manager.

Jacks and Jennets.
Feb. 22—J. E. Park, Cameron, Mo.
Feb. 22—G. W. Overley, McCune, Kan.
Feb. 28—I. N. Green, Kiowa, Kan.
March 8—G. M. Scott, Rea, Mo.
March 6, 1916—W. J. Finley, Higginsville, Mo.
March 7 and 8—L. M. Monsees & Son, Smith-ton, Mo.
March 15—Bradley Bros., Warrensburg, Mo.
March 20—G. C. Roan, LaPlata, Mo.

Shorthorns.
April 5 and 6, 1916—Central Shorthorn Sale, Independence, Mo.

Hereford Cattle.
March 4—Northwest Missouri Hereford Breeders' Association. Sale at South St. Joseph, Mo. Jesse Engle, Sheridan, Mo., sales Mgr. H. D. Cornish, Osborne, Mo., Secretary.
March 3—Kansas Hereford Breeders, Manhattan, Kan. Prof. W. A. Cochel, Mgr.

Holsteins.
Feb. 23—Nebraska Holstein Breeders' Sale Co., sale at South Omaha. E. M. Little, Clarks, Neb., Manager.
Feb. 26—A. B. Hall, Creston, Iowa.
March 2—C. M. Branson & Son, Lincoln, Neb.
April 25—J. R. Smith, Newton, Kan.

Guernseys.
Feb. 29—C. W. Danford, Hutchinson, Kan.

Foland Chinas.
Feb. 23—U. S. Byrne, Saxton, Mo. Sale at St. Joseph Stock Yards.
Feb. 26—A. J. Erhart & Sons, Ness City, Kan.
March 1—Clarence Dean, Weston Mo. Sale at Dearborn, Mo.

We have just received Volume 86 of the American Shorthorn book, containing pedigrees of animals calved prior to February 10, 1915, pedigrees of bulls from No. 412001 to 421000, and cows from No. 182001 to 193000.

E. E. Heacock & Son, of Hartford, Kan., owners of one of the good herds of Shorthorn cattle in this state, write that their herd is doing well and that the young stock is making a good gain. A feature of their herd at this time is the useful lot of cows and heifers. Many of their cows now have calves a foot and a lot of them will be fresh soon. They have a nice lot of heifers by the good Shorthorn sire, Brawith Heir 351808.

If the strawberries were not mulched in the fall, it should be done at once—before the ground begins to thaw. Straw, hay, fine fodder, or light, trashy stable manure may be used. This should not be removed in the spring more than is necessary to allow the plants to get through. The surplus can be left between the rows. It is not a good plan to use for mulching material anything that contains grain or weed seeds. These will germinate later and cause considerable trouble.

SHORTHORN CATTLE.**CEDAR LAWN SHORTHORNS**

For Sale—A number of choice bull calves from 8 to 16 months old, by Secret's Sultan 363833 by Missie's Sultan by Glenbrook Sultan by Whitehall Sultan and out of West-lawn Secret 2d, weight 2,200 in breeding condition. Description guaranteed.

S. B. AMCOATS - CLAY CENTER, KAN.

SPINGDALE SHORTHORNS

For Sale—Ten choice Scotch topped bulls from 8 to 16 months old. They have size and quality. My price is right. Try me.

A. A. TENNYSON - LAMAR, KANSAS

Tenneholm Shorthorns

For Sale—A number of good bulls 8 to 18 months old. Some Scotch, others Scotch-topped. Some herd headers among them. Two outstanding ones. Can spare a few females. Farm one mile from town.

E. S. MYERS - CHANUTE, KANSAS

PEARL HERD SHORTHORNS

Valiant 346162 and Marengo's Pearl 391-962 in service. Young bulls up to 10 months old for sale. Reds and roans. In good thrifty condition and the making of good useful animals. Inspection invited.

C. W. TAYLOR, Abilene, Kans.

SHORTHORN BULLS.

Twelve head bulls, breeding age, all sired by a pure Scotch bull. Reds, whites and roans. Herd headed by Scottish Monarch by New Goods, by Choice Goods, out of Morning Glory, a granddaughter of Imported Lady Star. Will sell a few females.

KELLY BROS. - GAEDNER, KANSAS

HILL'S SHORTHORNS

Two choice Shorthorn bulls. One red, ten months old, sired by Bettie's Albion 399451. One white, eight months old. Extra fine and priced to sell.

C. E. HILL - TORONTO, KANSAS

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' Shorthorns

Eight head of pure Scotch and Scotch-topped bulls for sale, ten to sixteen months old. Reds and roans. Phone 59-N-1.

HARRY T. FORBES, Route 8, Topeka, Kan.

RIVERSIDE SHORTHORNS

For Sale—Fifteen pure Scotch and Scotch-topped cows and heifers. Five pure Scotch and Scotch topped young bulls. Prices reasonable. Come and see them.

H. H. HOLMES - GREAT BEND, KANSAS

SHORTHORN COWS AND HEIFERS

Thirty head of good registered Shorthorn cows and heifers. Cows with calves at foot, others to calve soon, open heifers by Braith Heir 351808. Priced to sell.

E. E. HEACOCK & SON, HARTFORD, KAN.

Breeders' Directory**PERCHERON HORSES.**

M. E. Gleason, Emmett, Kan.

ANGUS CATTLE.

Geo. McAdam, Holton, Kan.

SHORTHORNS.

E. E. Heacock & Sons, Hartford, Kan.

C. H. White, Burlington, Kan.

HOLSTEINS.

C. E. Bean, Garnett, Kansas.

JERSEY CATTLE.

J. B. Porter & Son, Mayetta, Kan.

DORSET-HORN SHEEP.

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

HORSES AND MULES.**JACKS AND JENNETS**

10 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned. Special prices for fall and winter sales. A few good jennets for sale. Come and see me.

PHIL WALKER, Melrose, Elk County, Kansas.

HEREFORD CATTLE.**STAR BREEDING FARM**

FOR SALE—Herefords and Durocs: 65 yearling and two-year-old bulls by Topphon 4th, Hessold, Anxiety, March On and other good sires. 25 females, some have calves at foot and bred again. 10 head heifer calves. 30 head of registered Duroc girls sired by a son of Ohio Chief and son of Buddy K 4th, out of sows by grand champions. Come and see me.

SAM DRYBREAD - ELK CITY, KANSAS

GALLOWAY CATTLE.**GALLOWAY BULLS**

FORTY yearling and two-year-old bulls, strong and rugged; farmer bulls, have been range-grown. Will price a few cows and heifers.

E. E. FRIZELL, Frisell, Pawnee Co., Kan.

When writing to KANSAS FARMER live stock advertisers, please mention this paper.

HORSES AND MULES.**Home of the Giants****Fifty Head of Jacks and Jennets**

At Public Auction

MARCH 15.

Catalogs out Feb. 10

BRADLEY BROS.

Warrensburg - Mo.

Belgians and Percherons

A few extra good Belgian and Percheron Stallions and Mares from two to six years old. All priced reasonably. Come and see them.

W. H. BAYLESS & SONS

Blue Mound, Kan.

FAIRVIEW STOCK FARM

Home of World's Grand Champion Jack, Kansas Chief 9194

More registered Jacks and jennets than any farm in the West. Jacks to 1,240 pounds. Prices and terms reasonable. Written guarantee with every Jack. Car fare refunded if stock is not as represented. Young jennets bred to Kansas Chief. Reference, any bank in Dighton.

H. T. HINEMAN & SONS

Dighton - Kansas

PRAIRIE VIEW STOCK FARM

Has 40 big, black Mammoth Jacks and jennets. Every Jack my own raising; two to six years old, 15 to 16 hands high, extra heavy bone, big bodies. I can sell you a better Jack for \$500 to \$800 than most speculators can for a thousand. Come and see for yourself. They must sell.

E. BOEN, LAWSON, MO.

33 MI. N. E. of K. C. on C. M. & St. P.

49 MI. S. W. of St. Joe, on Santa Fe

Riverside Stock Farm

Offers one Belgian stallion; 5 years old next May; dark bay; weight 1,950; gentle; broke single and double; sure breeder; good style, action and looker. Also one stallion, 2 years in May, weight 1,400. Both from imported sires and dams. If interested, write

W. J. FITZGERALD & SONS,

Dodge City, Kansas.

Jacks for Sale

I have three good young Jacks for sale and worth the money. Also a few very fine jennets.

JOHN A. EDWARDS

Englewood - Kansas

Percherons For Sale

Two Percheron stallions coming two years old, from imported mares and sired by Ilmen, grand champion K. C. Royal 1912. At 21 months their weights were 1,870 and 1,900 pounds, and the right conformation to match.

J. H. MAPES, ROUTE 3, SALINA, KANSAS

PERCHERON STALLION AND JACK.

For Sale—Black registered Percheron stallion, weight 1,900, sound in every way. Also 1,100-pound Missouri Jack, black with white points, well broke and good performer. They are priced to sell.

M. Reser, Jr., Route 13, Rossville, Kansas.

Imported Percheron Stallion

For Sale—Three years old, black, all O. K. Insurance company values him at \$1,000. Will take less.

ED SCHUPPEL - SALINA, KANSAS

JACKS FOR SALE.

Seven head of big mammoth Jacks, from two to seven years old. Would take some White-Face heifers in exchange. Jacks guaranteed as represented.

PHIL HANNUM, JR. - CARTHAGE, MO.

Home Phone 817 Black.

Reg. Percheron Stallions—Twenty-nine black ton and 2,200-pound 4 and 5-year-olds. 44 black coming 3's. 41 black coming 2's. 29 registered mares for sale. 19 Belgian stallions. Just above Kansas City.

FRED CHANDLER PERCHERON FARM

Route 7, Chariton, Iowa

HARRIS BROS.

90 PERCHERONS 90

Sturdy Mares and Fillies.

Fifty Stallions, from

washings to five years old

At live and let live prices.

Route 6,

GREAT BEND, KANSAS.

Imported Percheron, Belgian and Coach

Stallions. Good Jacks, \$450 up. ILLINOIS

HORSE CO., Good Black, Des Moines, Iowa.

HORSES AND MULES.**58 Head Registered Stallions and Mares 58**

Percherons, Belgians and French Drafts, from Yearlings to Seven Years Old.

I have rented my farm and am quitting farming. Must sell all my horses by March 1. Nothing reserved. All priced reasonably—the first buyer to come will get a bargain. I mean business and must sell my entire herd. Come and see me.

J. M. NOLAN - - - - - PAOLA, KANSAS

**The Champion Breeder—Missouri Chief 8365**

Sire of the World's Grand Champion Jack, Kansas City 8748 In public service at our ranch south of Ellinwood. Excellent facilities for handling any number of healthy jennets.

Write Us for List of Winnings of His Get.

Most liberal terms and other information about this sire possessing excellent size, quality, bone, finish, and unexcelled style and action. Winner first as sire at Kansas State Fair, Hutchinson, 1915.

M. E. RICHARDSON - - - - - STERLING, KANSAS

JACK, STALLION, AND MULE SALE

AT SAVANNAH, MISSOURI, MARCH 9, 1916

Twenty-six Large Registered Black Jacks; Three Good Percheron

Stallions; Twenty Mules.

Be sure to write for illustrated catalog and watch for next week's ad.

G. M. SCOTT, REA, MISSOURI

**ROBISON'S PERCHERONS**

Forty young stallions from two to six years old. A few young mares for sale.

J. C. ROBISON, Towanda, Kans.

LAMER'S PERCHERONS

Have just received a new shipment. Also have a barn full of my own raising. A choice lot to select from.

WRITE, WIRE OR PHONE.

C. W. LAMER, SALINA, KANSAS

OFFICE, LAMER HOTEL.

**REGISTERED PERCHERON STUDS**

We have them, BIG FELLOWS, 1, 2, 3 and 4 years old. Real drafters, BIG BONE, lots of quality and action. Grown right, will go out and make good both as to sires and foal getters. You lose money if you don't look at BISHOP BROS.' STUDS before buying. Twenty miles east of Wichita, on Mo. Pacific Ry.

BISHOP BROS., BOX E, TOWANDA, KANSAS

**HORSES AND JACKS**

FOR SALE—Six coming two-year-old fillies, big growthy fillies, dark steel greys; one black mare, three years old in April; stud colt, two years old; all extra good; all out of imported sire and dams; Percheron Society of America. Twenty-two head two-year-old Jacks; all raised on the farm; all priced to sell, cash or time. You can see the sire and dams of all this stuff. These are the blacks with meaty noses, the color that all breeders raise. I am now breeding white-faced Jacks that will produce white-faced mules, and in a few years the breeding of white-faced Jacks, alone, will be continued on this farm. Since running my advertisement every man who came to the farm found what he wanted and bought.

OAKLAND STOCK FARM, Box 207, CHILLICOTHE, MO.

PERCHERON and BELGIAN STALLIONS

Twenty head, imported and home-bred. I give a gilt-edge two-year guarantee with every horse sold. Come and see them. Priced to sell quick. Barn four blocks from Santa Fe depot.

W. H. RICHARDS, Emporia, Kans.

THE SAUNDERS JACK COMPANY

W. G. Saunders, of Lexington, Ky., and Bruce Saunders, of Holton, Kan., have shipped a carload of registered Mammoth Jacks from Lexington, Ky., to Holton, Kan. Two to six years old, 15 to 16 hands high. Come to Holton and see as good a load of Jacks as ever left Kentucky. Write your wants to BRUCE SAUNDERS, HOLTON, KANSAS. PHONE 589

MAMMOTH JACKS AND PERCHERONS

Forty big, black, mammoth Jacks, 15 to 16 hands standard. Young, black. Percheron stallions and mares, extra quality. Also jennets in foal. Mares in foal to 2,400-pound horse. Reference, banks of Lawrence.

AL E. SMITH, R. B. 1, LAWRENCE, KANSAS. Forty Miles West of Kansas City.

EWING BROTHERS

Stallions from 2 to 5 years old, good ones, the kind that make top horses. Mares in foal and few yearling fillies. Young bulls, 6 months to 2 years old, some top notchers. A few good cows and heifers for sale. A few Shetland ponies for the children. All priced to sell at let live prices. Come and see us before you buy.

EWING BROTHERS - - - - - PAWNEE ROCK, KANSAS

REGISTERED**JACKS and PERCHERONS**

A few tried imported black Percheron ton stallions; Brilliant blood, good enough for herd headers. Twelve big black registered Jacks, two to five years old, 14½ to 16 hands high, well broke and quick performers. Good herd of registered jennets headed by large Spanish Jack.

J. P. & M. H. MALONE, CHASE, KANSAS

Rice County.

HIGH CLASS JACKS

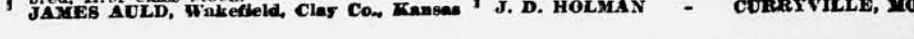
We offer 25 head to select from. Herd headed by Mo. Chief's Boy 6815. One imported gray Percheron stallion, first prize at Kansas State Fair. Write or phone us.

LOUIS MILLS & SON, Alden, Kan.

SHIRE STALLIONS—Registered, well

bred, first class stock

JAMES AULD, Wakefield, Clay Co., Kansas

**DUNHAMS' PERCHERONS**

For Fifty Years the Best.

Send for fine photographic

catalog.

DUNHAMS

Wayne, Dupage Co., Ill.

ONE HUNDRED

Registered Percheron, French Draft, Belgian

and Shire stallions and mares for sale cheap.

A. LATIMER WILSON, CRESTON, IOWA.

THIRTY HEAD MAMMOTH JACKS

And Jennets for sale. The big kind. Priced

to sell.

J. D. HOLMAN - CURRYVILLE, MO.

POLAND CHINAS.

Henry's Big-Type Polands

March gilts, sired by Big Bob Wonder, Big Bone Jr., and Grand Orange. Bred or open. Also fall pigs, not related. Write me.
JOHN D. HENRY - LECOMPTON, KAN.

POLAND CHINA BOARS AND GILTS

A few serviceable boars and bred gilts for sale. Send for my bred sow sale catalog. Sale will be held March 1 at Dearborn, Mo., on electric line out of St. Joseph. Write.
CLARENCE DEAN, R. D., WESTON, MO.

LONE CEDAR POLANDS

Cholera immune. Up-to-date large-type breeding. Some good March and April boars. Gilts bred or open. Also young tried sows bred. Bargain prices.
A. A. MEYER - McLOUTH, KAN.

ARKELL'S POLANDS.

Choice Fall Yearlings and Spring Gilts. Yearlings by Longfellow Again, bred to Chief Big Bone. Spring gilts by Chief Big Bone, bred to Longfellow Again. Priced for quick sale.
JAMES ARKELL, R. 4, Junction City, Kan.

SPOTTED POLAND CHINAS

June and July farrow. Pairs or trios. Not akin. Recorded pedigree with each hog.
GEO. HENRY, JAMESTOWN, IND.

LANGFORD'S SPOTTED POLANDS.

Choice fall boars. Also boars for service. Must sell.
T. T. Langford & Sons, Jamesport, Mo.

POLLED DURHAM CATTLE.

The Profitable Breed

For Sale—Double Standard Polled Durham Cattle. Write for description, breeding and prices.
C. M. ALBRIGHT, OVERBROOK, KANSAS

SHROPSHIRE SHEEP

SHROPSHIRE EWES

Bred to the very best bucks obtainable, for sale in lots to suit purchaser. All stock recorded.
L. M. HARTLEY

PINE RIDGE FARM - SALEM, IOWA

BRED EWES.

Registered Shropshires to lamb March and April. Bred to son of imported Ludlow King, sire of state fair champions. Also rams. Eighty miles north St. Joseph, Mo.
C. W. CHANDLER, Kellerton, Ia.

MISCELLANEOUS.

YOU CAN BUY THEM HERE

Registered Percheron Stallions and Mares. Registered Mammoth Jacks and Jennets. Registered Holstein Bulls, Cows and Heifers.
M. G. BIGHAM & SONS, OZAWKIE, KAN.
20 Miles Northeast of Topeka.

TAMWORTH HOGS.

TAMWORTH PIGS
Of summer birth, from massive, natural immune parents. Sent in pairs not akin. Write Q. I. SIMPSON, Palmer, Illinois.

HAMPSHIRE HOGS

ATTEBERRY'S HAMPSHIRE
Choice breeding. Bred sows and gilts. Outstanding boars. Priced to sell quick.
ATTEBERRY & SON - LANCASTER, MO.

AUCTIONEERS.

Live Stock and Real Estate Auctioneer

Authorized state agent of Kansas Rural Credit Association. Write me your wants.
H. M. JUSTICE - PAOLA, KANSAS

GUERNSEY CATTLE

TEN GUERNSEY COWS AVERAGE 947 lbs. FAT
Large and Economical production is the key to larger profits. The Guernsey Cow is a sure way to increased profit.
Shall we send literature?
Guernsey Cattle Club,
Box K, Peterboro, N.H.

GUERNSEY HERD BULLS

For Sale—Four-year-old registered Guernsey herd bull, gentle. Also one nine months and one three months old. Glenwood breeding. Cheap.
JOHN PERRENOUD, HUMBOLDT, KAN.

ANGUS CATTLE

CHOICE ANGUS BULLS

Eight registered Angus bulls, yearlings and calves, choice individuals, best breeding. Also a few choice cows. Prices reasonable. On Santa Fe, 18 miles south of Topeka.
GEO. A. DIETRICH, CARBONDALE, KAN.

BERKSHIRE HOGS.

BIG-TYPE BERKSHIRES FOR SALE

Sired by grand champion boars of Illinois and Missouri State Fairs. Also S. C. Black Minorca chickens.
J. V. FISH, Route 7, Bolivar, Mo.

FARM AND HERD.

The catalogs are out for the H. C. Graner Poland China sale to be held February 17. The catalog shows a richly bred, useful offering.

A very successful Hereford sale was held by Perry Bros. and Southard at Council Grove February 5. Thirty bulls sold at an average of \$212.34, forty cows and heifers sold at an average of \$174.37 per head. The seventy head sold, averaged \$190.64 per head.

Catalogs are out for the big type Poland China sow sale to be held February 14 by Herman Groninger & Sons at Benona, Kan. They have cataloged forty head of choice sows selected from their large herd and will have a very useful offering.

H. B. Walters, of Effingham, Kan., one of the leading Poland China breeders in the corn belt, has cataloged a select offering for his annual sale to be held February 18. A large number of the sows and gilts in this sale will be bred to the great boar, Big Bob Wonder.

Catalogs are out for the jack and jennet sale to be held by W. J. Finley, of Higginsville, Mo., to be held March 6. Mr. Finley has cataloged twenty mature jacks, three yearlings and seven jack colts for this sale. A number of them sired by the noted jack, Dr. McCord. The offering will include thirty jennets, many of them sired by Dr. McCord, and others by noted sires. All of them are bred to Mr. Finley's fine herd jack, Great Eastern, and Dr. McCord.

G. M. Scott, of Rea, Mo., the well known breeder of high class jacks and jennets, has claimed March 9 as the date of his annual sale of jacks and stallions. Mr. Scott will catalog twenty-six choice registered, black jacks and three Percheron stallions for this sale.

C. M. Branson & Son, of Lincoln, Neb., have claimed March 2 as the date of their sale of choice registered and high grade Holsteins. This will be a closing out sale, and seventy-five head of richly bred and useful Holsteins are cataloged for this offering. The class of Holsteins that will be sold in this sale are the kind that are profitable, and if given ordinary care there will be no boarders among them.

G. Reiger & Sons, of Whitewater, Kan., owners of one of the producing herds of Holstein cattle, report a good demand for high class Holsteins. Among the recent sales reported by this firm are a fine bull to Fred Harvey, two choice bulls to parties at Minneola and two to go to the herd at the State penitentiary at Lansing. They have at this time a choice lot of young stock, including A. R. O. bulls.

I. N. Green, of Kiowa, Kan., claims February 28 as the date of his big annual sale of jacks, stallions, mares and mules. This year his offering will consist of twelve jacks, three stallions, five registered Percheron mares, twenty-five head of big mares from three to six years old, most of them in foal to jack, fifteen geldings and thirty head of big, high class work mules, including some extra good matched teams.

Inquiries for catalogs indicate that the sale of big type Poland China sows to be held February 28 by W. J. Finley, of Saxton, Mo., will be one of the sale events of the season that will attract Poland China breeders from a number of states. Forty-five head of bred sows and gilts have been cataloged for this sale. The offering includes tried sows and thirty-five extra good fall yearling gilts sired by the great boar B. Wonder and bred to Long Jumbo 2d for early litters.

C. W. Danford, of Hutchinson, Kan., one of the successful dairy cattle breeders, has announced a sale of Guernseys and Jerseys to be held at Hutchinson, Kan., February 29. A few years ago Mr. Danford went to the best Guernsey herds in Wisconsin and purchased a very high class lot of grade two-year-old heifers and one of the best purebred bulls that he could buy at that time. With this foundation stock he has built up one of the heavy producing herds in this state. His is one of the herds that have been profitable right from the start. His offering in this sale will consist of sixty-five head of cows, heifers and calves. Most of them are Guernseys. There will be a few good red cows. Many of them are in milk; some of them just fresh, and a lot of springers.

The combination Hereford sale to be held at the State Agricultural College at Manhattan, Kan., March 3, under the management of Prof. W. A. Cochran, of the Animal Husbandry Department, will be one of the sale events of the season in Hereford circles. Fifty-seven head of well bred Herefords have been selected for this sale, and the offering will consist of twenty-five bulls, old enough for service, thirty-two cows, some with calf at food and rebred, heifers bred to good bulls and open heifers. The offering is from the following herds: Wm. Acker, Vernal, Kan.; W. J. Brown, Fall River, Kan.; C. G. Cochran & Sons, Plainville; Drennan Bros., Blue Rapids; Henderson Bros., Alma; Howell Bros., Herkimer; the Agricultural College herd; Carl Miller, Belvue; C. F. Peterson, Parker; W. H. Rhodes, Manhattan; Jas. F. Sedlacek, Blue Rapids; J. E. Shields, Lost Springs; Albert E. Smith, Potwin; C. G. Steels, Barnes; and S. W. Tilley, Irving.

Sanders & Maggard, of Poplar Plains, Ky., are among the oldest breeders of high class jacks and jennets in that state. Many of the best jacks in service in Kansas and the Southwest are from this herd. Every year for the past fifteen years this firm has shipped one or more carloads of select jacks to some central point in Kansas. The arrival of their shipment is always an event of interest to jack breeders. This year they have selected Newton, Kan., as their distributing point.

Kelly Bros., of Gardner, Kan., are among the progressive farmers of Kansas. They had one field of wheat last year that averaged thirty-six bushel per acre, and they have grown eighty to eighty-five bushels of corn per acre, but they have more faith in good Shorthorn cattle than any other stock. They have twenty-five registered cows headed by a pure Scotch bull, Scottish Monarch No. 423243 by New Goods by Choice Goods and out of Morning Glory, a grandmother of imported Lady Star. They have a fine lot of young stock, including a number of good young bulls.

The catalogs are out announcing the Poland China bred sow sale of E. M. Wayde at Burlington, Kan., on February 29. In this offering there are twenty-three tried sows sired by Master Hadley 2, Orange Wonder and Major Look. Also several fall yearlings and spring gilts sired by these two hogs will go in the sale bred to Big Tecumseh, a boar that is one of the promising herd boars in Kansas. He has the length and stretch with quality to spare. The sale will be held in a new, heated sale pavilion.

HOLSTEIN CATTLE.

HOLSTEIN CATTLE.

REGISTERED HOLSTEINS

Young bulls, heifers and bred cows. We have a number of young bulls from the best blood of the breed.
Dams: A. R. O. cows of unsurpassed individuality and breeding.
Sires: Sir Julian Grace De Kol and King Hengerveld Model Fayne.
Sir Julian Grace De Kol's dam made record of 924 pounds of butter and 22,087 pounds milk in one year. His sire's dam was the World's Champion 3-year-old butter cow until last spring, making 1,021 pounds of butter in one year.
King Hengerveld Model Fayne's dam was Bloomingdale Hengerveld Model, the world's champion 30 days butter cow in her time. His sire's dam was the second 36-pound cow of the breed. His four nearest sires have produced twenty-five 30-pound cows, and his 7 nearest sires have seventy-three 30-pound granddaughters.
This herd deserves your careful consideration. Prices right, herd free from tuberculosis, and a guarantee goes with each animal.

ALBECHAR HOLSTEIN FARM

SHULTHIS, ROBINSON & SHULTZ, OWNERS, INDEPENDENCE, KANSAS

CLYDE GIROD—At the Farm.

F. W. ROBISON—At Towanda State Bank.

HOLSTEIN FRESIAN FARM

PURE-BRED AND HIGH-GRADE HOLSTEINS, ALL AGES.

We offer a number of grand young bulls, serviceable age, all registered, from A. R. O. dams and sires. Choice pure-bred heifers, some with official records under three years of age. Two hundred excellent, high-grade, heavy springing cows and heifers, well marked, in calf to pure-bred bulls, to freshen before April 1. Fresh cows on hand, heavy milkers. Heavy calves six to ten weeks old, \$25. Bargains. Send draft for number wanted and we will express to you. Wire, write, or phone us. We can please you.

GIROD & ROBISON, Towanda, Kansas

260 - HOLSTEIN COWS AND HEIFERS - 260

If you want Holstein cows, springers or bred heifers, see my herd. I have them. They are very large, good markings, out of the best milking strains, bred to pure-bred bulls of the very best blood. Special prices on carload lots. Want to reduce my herd and will make bargain prices for thirty days.
J. C. ROBISON - TOWANDA, KANSAS



TORREY'S HOLSTEIN HEIFERS

High-grade Holstein heifers in single lots or car loads. Prices reasonable. Write, wire or phone.
O. E. TORREY - TOWANDA, KANSAS

Regier's Holsteins

Holstein-Friesian A. R. O. bulls ready for service. World's record blood flows in their veins.
G. REGIER & SONS, WHITEWATER, KAN.

IN MISSOURI

Eight bulls, 2 to 8 months, \$100 to \$175 each. Always have a few good cows and bred heifers for sale. Nothing but registered Holsteins.
S. W. COOKE & SON, MAYSVILLE, MO.

SUNFLOWER HERD

Prince Artie Pontiac Abbecker No. 136382 Heads Sunflower Herd. Only 30-pound bull in Kansas. Buy where the best breeding, best producers come from.
F. J. SEARLE, OSAKA, OOSKA, KANSAS.
(Several bulls ready for service.)

BUTTER BRED HOLSTEINS

Registered bull calves. Prices reasonable. Write today. These bargains will not last long.
J. P. MAST, SCRANTON, KAN.

REGISTERED HOLSTEINS

For Sale—Choice young bulls, also a few females. Have bred Holsteins 35 years on the same farm. Come and see our herd.
M. E. MOORE & CO., CAMERON, MO.

Bonnie Brae Holsteins

Ninety head of high-grade heifers and young cows. Some fresh now. Many heavy springers. Heifer calves. Registered bulls from 7 to 14 months of age.
IRA ROMIG, STATION B, TOPEKA, KAN.

Golden Belt Holstein Herd

Canary Butter Boy King No. 70508 in Service.
Herd has won more prizes from Holstein-Friesian Association for yearly production than any herd in Kansas. Young bulls for sale from heavy producing cows.
W. E. BENTLEY, MANHATTAN, KANSAS

CORYDALE FARM HERD

Jewel Paul Butter Boy No. 94245 One of the best bred bulls in the state. We offer three bulls ready for service out of good producing dams.
L. F. CORY & SON, Belleville, Kansas.

FOR QUICK SALE

Fifty head of highly-bred registered Holstein-Friesian cows and heifers; good ages and good producers. Several bulls from calves up to yearlings. Ready for service.
HIGGINBOTHAM BROS., Rossville, Kansas

CHOICE HOLSTEIN BULLS

Four registered bulls, out of A. R. O. cows. Two ready for service. Best breeding. Choice individuals.
BEN SCHNEIDER, NORTONVILLE, KAN.

M. E. Richardson, of Sterling, Kan., is one of the progressive breeders of high class jacks. Mr. Richardson is the owner of the great jack, Missouri Chief 8365, a prize winner and a noted sire of prize winners. He is the sire of Kansas Chief, grand champion at the Panama-Pacific Exposition. His get has won at the Kansas State Fair at Hutchinson: First for yearling jack 1911; first for jennet colt 1911; first for jack colt 1911; first for 3-year-old jack 1913; first for 2-year-old jack 1914; first for 3-year-old jack 1914; first for aged jack 1914, championship for jack 1914, first for 3-year-old jack 1915, and first for jack colt 1915.

H. B. Cowles, owner of Braeburn Herd of Holsteins, reports the sale of two choice cows, two extra good heifers and a richly-bred bull calf to the East Oklahoma Hospital located at Vinita, Okla. The selection from Braeburn Herd was made after an inspection of a number of good herds.

Purebred Registered HOLSTEIN CATTLE

The Holstein-Friesian bull possesses a strong constitution, superior to that of any other dairy breed. Hence his value for grading up ordinary herds. A Cornell bulletin describes results secured in grading up its herd of twenty cows. The cow, Freddie, three-quarters Holstein, in forty-five weeks produced 11,693.4 pounds of milk, containing 413 pounds of butterfat, or 3.53 per cent. Ruby, three-quarters Holstein, produced in forty-eight weeks, 13,574 pounds of milk, containing 430 pounds of butterfat, or 3.17 per cent. This shows that a purebred Holstein bull will do. Investigate the big "Black-and-Whites."

Send for FREE Illustrated Descriptive Booklets. The Holstein-Friesian Association of America F. L. Houghton, Sec'y Box 114, Brattleboro, Vt.

HOME FARM HOLSTEINS

OFFER HEIFER CALVES

Five months up to 15 months; granddaughters of De Kol Burke, Forbes Tritonia Mutual De Kol and Walker Korn-dyke Segs. Official record and untested dams. Prices, \$95 to \$325.
W. B. BARNEY & SONS, Chapin, Iowa.

CEDARLANE HERD HOLSTEIN-FRIESIANS

T. M. Ewing, Prop., Independence, Kan. Herd headed by a grandson of Pontiac Korndyke. The average record of his dam and sire's dam, 7 days, 29.4 pounds butter; 30 days, 117.3 pounds.
Several bull calves for sale sired by the above bull and from cows that produce as much as 80 pounds milk per day.
Better buy now while you can get choice.

23 - HOLSTEIN-FRIESIAN BULLS - 23

Best of sires. A. R. O. dams, fourteen over 20 pounds. Seven of the others from heifers with records of 14.89 to 19.2 pounds. The kind you want. We have only two cows in the herd with mature records less than 20 pounds.
Breeder for Thirty Years.

McKAY BROS., Waterloo, Iowa

Registered Holsteins

For Sale—Fancy young Holstein bull ready for service; King Segs DeKol breeding, high producing dam. Also females.
B. R. GOSNEY - MULVANE, KANSAS

BRAEBURN HOLSTEINS

A 15-months bull, mostly white; dam has a 30-pound sister and sire a 24-pound junior 2 sister; \$200. Younger ones less.
H. B. Cowles, 608 Kansas Ave., Topeka, Kan.

We are breeding Iowans De Cola Walker on daughters of Sir Johanna Fayne, King Pieter Lyons and Spring Brook Pearl. What a mistake we must be making!!!

TREDICO FARM

Route 44 Kingman, Kansas
Holsteins for Sale High bred registered N. S. AMSPACKER, JAMESTOWN, KAN.

FINE HOLSTEIN CALVES from heavy milkers, \$20 each. Registered yearling bull \$55. Edgewood Farm, E. S. Whitewater, Wis.

HOLSTEIN BULLS, "REGISTERED" Two ready for service. Smith & Hughes, Breeders, Route 2, Topeka, Kansas.

REGISTERED HOLSTEIN BULL CALVES My herd bull grandson Old King Segs, fine animal. E. VIOLETT, Altoona, Kansas.

MENTION KANSAS FARMER WHEN WRITING ADVERTISERS

DANFORD'S

GREAT DAIRY CATTLE SALE

At Hutchinson, Kansas, February 29, 1916

65 - Head Choice Guernseys & Jerseys - 65

This offering will consist mostly of high grade Guernseys. The foundation stock is from the best herds in Wisconsin. They are producers. A few choice Jerseys and a few extra good red cows are included in the offering. Many of them are in milk, some of them just fresh, some springers.

A Lot of Choice Heifers and Calves

This will be one of the best lots of dairy cows and heifers that will be sold this year. If you want profit producers you cannot afford to miss this sale. For catalog or further information, write

C. W. DANFORD, Hutchinson, Kansas

POLAND CHINA

BRED SOW SALE

At Dearborn, Mo., Wed., March 1

ON ELECTRIC LINE FROM ST. JOE and KANSAS CITY

FIFTY BRED SOWS—And in order to make this offering attractive, I have listed many of my best producing herd sows, such as Lady Wonder 6th by Mastodon Price. This sow farrowed sixty-three pigs in five litters and always raised from nine to eleven at a litter. She sells without a fault. A number of other good sows by Mastodon Price go in the sale. Lady Mastodon 67 has farrowed thirty-four pigs in three litters. She is by Columbia Wonder and her dam is Lady Mastodon 66th. Lady Wonder 5th and others as good will go in the sale. Several sows of A. Wonder breeding go in the sale. All the sows in the sale are bred to a son of Black Big Bone by Smooth Big Bone, a 1,000-pound hog, and Big Bone Model by Long Big Bone out of a Big Bob dam. All my herd is Cholera Immune and sold with an absolute guarantee. Please send for my catalog today, to

CLARENCE DEAN, Weston, Mo
REMEMBER, SALE WILL BE HELD AT DEARBORN.

CLOSING OUT SALE

65 - HEAD OF PURE BRED AND GRADE HOLSTEINS - 65

AT CRESTON, IOWA, SATURDAY, FEBRUARY 26, 1916

THE OFFERING CONSISTS OF THE FOLLOWING:

Eighteen Head of Pure-Bred Holstein Heifers, coming 3 years old; most of them fresh now; all are fine milkers and out of the best families of the breed.

Nine Pure-Bred Heifers and Nine Pure-Bred Bulls, all coming 1 year old. Sixteen Pure-Bred Young Calves, half heifers, half bulls, all sired by De Kol Paul Korndyke, my imported herd bull, registered in both the American and Canadian herd books. This bull will be sold at sale.

Five High Grade 3-Year-Old Heifers, all extra heavy milkers.

Five Grade Calves.

These cattle will be sold at the sale pavilion at Creston, Iowa, on February 26, 1916. Sale to commence at 10:30 o'clock. Send for catalog.

A. B. HALL, - - - - - CRESTON, IOWA

PERCHERON STALLION AND MARE SALE

At State Fair Grounds Pavilion, Hutchinson, Kan.

Hutchinson, Kansas, Thursday, Feb. 24

(Hourly Interurban Cars from Wichita and Newton to Hutchinson and return.)

37 HEAD of Strictly High-Class Fashionably-Bred Percherons

Fourteen Stallions, Twenty-three Mares and Fillies

Nine Stallions of Serviceable Age

Fifteen Mares of Breeding Age, and Most All Showing

Safe in Foal.

Included will be choice yearlings and weanlings, both sexes.

THREE EXCELLENT HERD STALLIONS of unusual merit are included and to which the above mares are in foal. One, the imported Jacquemont 80287 (83797); Rex by Bosco II, a 2,175-pound six-year-old stallion out of a daughter of Casino, and Klondyke, a show type son of the great Casino.

Strong in the Blood of Casino

Not only do these two herd stallions—one a son, the other a grandson of Casino—sell, but two daughters and several grandsons and granddaughters of this noted World's Fair winner also go in the sale.

Included will be show prospects, big handsome broad mares, including matched mare teams and a fine assortment of stallions from which to select.

The War Has Stopped Importation

War-ridden Belgium and France will need horses instead of having them to export. It will be up to America to do the exporting. With no further importation to this country for at least a long time, the demands for good Percherons cannot help but grow. This offering is made up from the Percheron herds of C. B. Warkentin, Charles Molzen and A. C. Tangeman, Newton, Harvey County, Kansas. Write today for catalog. Address

C. B. WARKENTIN - - - - - NEWTON, KANSAS
AUCTIONEERS—J. D. SNYDER, BOYD NEWCOM, FLOYD YOCUM, AND JOE WEAR
A. J. Erhart & Son's Hog Sale Feb. 26. Kansas Breeders' Hereford Sale Feb. 25, at Hutchinson.

FRANK IAMS'

"Mr. Horseman," 1916 is the "Get Rich Quick" year for "up-to-snuff" Horse Breeders. Get into the "Easy Money-Making Game." Don't wait. Do it in 1916. No horses will be imported in ten years. "Big Horse Family" 500 horses exported daily. "Mr. and Gray Boys" are known "world over" as Top-Notchers at Bargain Prices. Try IAMS.

Big, Nifty, Classy "New Horses" are "Town Talk." His 34 years of success in Importing, Breeding and Selling, 6,640 registered horses—his "50 trips" across the ocean—make Iams a safe man to buy stallions from. His "old customers" are "best Page advertisers," his Breeding Guarantee backed by "Half Million Dollars." Iams' Imported and Home-bred horses are "classy, model big drafters" of large bone, fine form, quality, finish and flash movers. Several European

"Gold Medal and State Prizewinners"

"Iams' kind," and in the "Pink of Condition."

Bought at "bargain prices" and must be sold. "Iams sells horses on honor." A lady can buy as cheap as a man. Iams is not in the "stallion trust," and is selling more pounds of "model draft horse" for the money than any competitor. Iams is cutting the middle out of high prices on his

40 PERCHERON AND BELGIAN STALLIONS AND MARES

2 to 6 years old, weight 1,700 to 2,410 lbs., all "Branded," "Approved," "Registered and Inspected" by governments of France and U. S. and certificates "stamped" O. K. All "inspected" by a Nebr. Deputy State Veterinarian and certificates of "Health and Soundness" are given with each horse. Iams sells

IMPORTED STALLIONS AT \$1,000 AND \$1,400

(few higher). "Home-Breds" come cheapest. Registered 1,800 to 2,100-lb. mares at \$700 to \$1,000. Terms cash, or one year's time at 7 per cent; land security at 6 per cent; \$100 less price for cash than time. Iams pays freight and buyer's fare; gives 60 per cent breeding guarantee. Can place \$1,500 insurance. Iams backs up his ads. with a \$500 guarantee that you find the horses as represented. Write for Horse Catalog. It has a "Big Bargain" on each page. References: First National and Omaha National Banks, Omaha, Neb.; Citizens' State and St. Paul Banks, St. Paul, Neb.

ST. PAUL, NEB.

I. N. Green's Big Annual Public Sale

93 - Head of Fine Jacks, Stallions, Mares and Mules - 93

At the Star Barn, in the City of

KIOWA, KANSAS, MONDAY, FEBRUARY 28, 1916

Beginning at 10 o'clock sharp

Twelve Jacks—All of them good, some of them extra good. These jacks are all of them just right and as good as will be found most anywhere. You are certain to find some great bargains among the lot. Coming 3-year-olds to aged jacks.

Three Stallions—Two of them registered Percherons and one grade Percheron; one 6 years old, two 4 years old.

Five Registered Percheron Mares. These mares are extra good ones, three of them in foal by imported Percheron horse.

Twenty-five Head Good Big Mares 3 to 6 years old, all nicely broke; most of them in foal to jack.

Fifteen Good Geldings, from 4 to 6 years old, all of them broke, weighing from 1,300 to 1,500 each.

Three Nice Ponies—All of them well broke.

Thirty Head of Big, Nice Work Mules, all broke. Most of these are mare mules, extra good, and matched teams.

I. N. GREEN, Owner,

KIOWA, KANSAS

AUCTIONEERS—Col. Pete Powelson, Kiowa, Kansas; Col. R. L. Harriman, Bunceton, Missouri; Col. W. W. Campbell, Alva, Oklahoma.

J. E. Holmes, Clerk.

POLAND CHINA BRED SOW SALE

HUTCHINSON, KANSAS

SATURDAY, FEB. 26

TWENTY TRIED SOWS BRED TO BIG HADLEY JR.
The Grand Champion Poland China Boar of Kansas, 1915, and First in Class Wherever Shown.

Fifteen Head of Fall Yearling Gilts
Twenty Head of Large Spring Gilts

A number are sired by Big Hadley Jr., a number of the fall gilts are out of full sisters to Big Hadley. Will be bred to Columbus Defender, second in class and second in futurity at Nebraska State Fair, 1915.

This is positively the best offering we have ever sold and we guarantee them in every way. Come to our sale and you will not be disappointed. Catalogs are ready to mail out. Send for one today to

A. J. ERHART & SONS, NESS CITY, KAN
SALE AT HUTCHINSON, KANSAS

AUCTIONEERS—Col. J. W. Sparks, Col. John D. Snyder, Col. Lafe Burger
COMBINATION HEREFORD SALE AT HUTCHINSON, FEBRUARY 25

READ KANSAS FARMER'S CLASSIFIED
ADVERTISING PAGE FOR READY BARGAINS

Kansas Herefords

TO BE SOLD AT

Manhattan, Kans., March 3, 1916

25 Bulls 22 Heifers 10 Cows



CONSIGNED BY

Wm. Acker, Vermillion.
W. J. Brown, Fall River.
C. G. Cochran & Sons, Plainville.
Fred R. Cottrell, Irving.
Drennan Bros., Blue Rapids.
Henderson Bros., Alma.
Howell Bros., Herkimer.
Kansas State Agricultural College.

Carl Miller, Belvue.
C. F. Peterson, Parker.
W. H. Rhodes, Manhattan.
Jos. F. Sedlacek, Blue Rapids.
J. B. Shields, Lost Springs.
Albert E. Smith, Potwin.
C. G. Steele, Barnes.
S. W. Tilley, Irving.

The animals in this sale have been carefully selected and are in good, thrifty condition. So many good herds have contributed that practically all the popular blood lines are represented.

Prof. W. A. Cochel, Sale Manager, Manhattan, Kansas.
Auctioneers—Col. Fred Reppert, Col. L. R. Brady.

Hereford Cattle Sale

South St. Joseph, Mo., Saturday, March 4

UNDER THE AUSPICES OF THE NORTHWESTERN MISSOURI HEREFORD BREEDERS' ASSOCIATION.

75 - Sons and Daughters of the Following Sires - 75

Lucius 362320, Beau Andrew 3d 289639, Sir Donald 12th, Perfect, Donald, Baxter 367170, Good Cross, Beau Andrew 4th 392761, Iron Clad, Rosecrans, Paragon 36th, Paymaster, Gay Donald, Beau Gomez, Move On 43d, Beau Blanchard, Beau Perfect, Columbus Regent 324141, Donald, Polled Addition (4770), Ambition, Governor 2d, Beau Of All 419212, Jolly (1061) 361673, Beau Of Shadland 10th, Horace, Alfonso, Onward A 8th, Gaylad 14th, St. Elmo, Rex Onward, Master Sunny, Sir Albany 9th, Beau Blanchard Jr., Douglas.

There will be thirteen young bulls 8 to 11 months old; twenty-three bull calves from 12 to 18 months, ready for reasonable service. Ten bulls are two years and over. Sixteen young cows and nearly as many 2-year-old heifers, some open, some bred, and some with calves at foot. The cows are all safe in calf. All females of breeding age are bred to these good bulls: Disturber 4th, Bonny Beau, Beau Perfect, Morris Fairfax, Bond Lad 22d, Beau Gudgell, Onward A 8th, Rex Onward.

For catalogs address

JESSE ENGLE, Sales Mgr., Sheridan, Mo.
COL. FRED REPERT, AUCTIONEER.

OHIO IMPROVED CHESTERS

Murray's O. I. C. Chesters

A few choice boars. Forty choice gilts bred for March farrow; thirty for April farrow. All bred to silver cup winner. They are priced low.

CHAS. H. MURRAY, FRIEND, NEBRASKA

CEDARDALE CHESTER WHITES

Choice gilts bred for March and April farrow. Bred to W. P. Sweepstakes by Wildwood Prince for March and April farrow. Some show prospects. Priced right.

J. S. KENNEDY - BLOCKTON, IOWA

O. I. C. PIGS

Pure-bred O. I. C. pigs, 3½ months old. Seven boars, one gilt, \$10 each. They are good ones. One pure-bred Jersey bull 27 months old, weight 1,100, \$65.00.

JOE FOX, GREELEY, KANSAS.

O. I. C. HOGS
Guaranteed cholera immune. Long, smooth, good bone. Boars ready for service, gilts bred or open, \$17.50 to \$25. Pedigrees furnished.

CEDAR VIEW STOCK FARM, Bolivar, Mo.
Dr. C. E. Ackerman, Sec'y.

RICKETTS' O. I. C's
Extra good gilts bred for March farrow. Also choice males. All priced reasonable.

C. W. RICKETTS - HANNON, MO.

When writing advertisers, please mention KANSAS FARMER.

RED POLLED CATTLE.

RED POLLED BULLS

TWENTY 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., Kan.

Coburn Herd Red Polled Cattle

AND PERCHERON HORSES.
A few choice bulls. Eight extra good two-year-old stallions for sale at reasonable prices.

MAHLON GROENMILLER, Pomona, Kan.

RED POLLED CATTLE

FOR SALE—1915 bull calves by Rose's Grand Champion 17998, a 2,400-pound bull; also a few good cows and heifers.

AULD BROTHERS, FRANKFORT, KAN.

RED POLLED CATTLE.
For Sale—Eight choice young bulls from 7 to 11 months old.

L. W. FOULTON - MEDORA, KANSAS

RED POLLED CATTLE

A few choice young bulls for sale. Priced reasonably.

T. A. HAWKINS, Hill City, Kan.

If on the market for pure-bred stock, read KANSAS FARMER live stock advertisements. You will find what you want.

FARM AND HERD.

We have received the catalog of the offering of big type Poland China sows that will go in A. J. Erhart & Sons' sale to be held in Hutchinson, February 26. Among the sows cataloged and bred to Big Hadley Jr. grand champion boar at Kansas State Fair 1915, Columbus Defender and Big Robidoux, are the following good ones: White Face Queen by Blain's Wonder. This noted sow was the mother of the great 1911 American Royal show herd which was headed by Major B. Hadley; Mayflower Queen 2d by King Ex 3d out of Mayflower Queen 2d by Expansion John, bred to Big Hadley Jr. Mother of show sows including the two senior yearlings in 1915 show herd; Miss Mayflower 3d and Miss Mayflower by Major B. Hadley out of Mayflower Daisy 2d. Both bred to Big Hadley Jr.; Expansion Maid by Major B. Hadley out of Big Expansion by Big Missouri Chief. Bred to Big Hadley Jr.; Maid of the Mist by Young Hadley out of Tecumseh Girl by Major B. Hadley, a little sister to Big Hadley Jr. Bred to Columbus Defender; 20 fall yearlings by Missouri King, Robidoux and Orphan Gig Gun, out of dams by Major B. Hadley; 20 spring gilts by Orphan Big Gun, Big Hadley Jr. and Jumbo Hadley, out of Hadley, Expansion and Tecumseh bred dams.

J. H. Mapes, of Salina, is one of the consistent workers for better draft horses on Kansas farms, and is raising some good ones. Among his young Percherons are two coming two-year-old stallions, sired by Ilman, grand champion at Royal Stock Show, Kansas City, 1912. At twenty-one months of age one of these youngsters weighed 1,870 pounds and the other 1,900 pounds.

E. S. Myers, of Chanute, Kan., owner of Tenneholt Shorthorn Herd, writes that the numerous inquiries received for high class Shorthorn bulls, indicate a strong demand and that he has recently made some good sales. Mr. Myers feeds for good growth, and has a fine lot of useful youngsters, among them Bampton Knight 2d, an outstanding youngster. He is out of Bampton's Joy, the dam of Bampton Knight, one of the great sires of prize winners. This chief is much like Bampton Knight, and is a choice individual.

At the annual meeting of the directors of the American Royal Live Stock Show recently held in Kansas City, Robert Hazlett, of El Dorado, Kan., was elected president. R. L. Gentry, of Sedalia, Mo., was chosen vice-president. W. H. Weeks, assistant general manager of the Kansas City stock yards, was named secretary, and H. C. Duncan of Osborne, Mo., treasurer. A. M. Thompson of Nashua, Mo., former secretary and manager of the Royal, was elected as a director to succeed J. C. Ewing of Youngstown, Ohio, a former president of the Royal. Mr. Thompson will represent the Galloway interests in the show. The dates for the American Royal this year are October 2 to 7. While the directors have not yet decided definitely, developments at their meeting yesterday indicated that the show probably will be held at Convention Hall again this year. Owing to pending improvements, the officers of the Kansas City Stock Yards Company expressed doubt as to their ability to house the Royal at the yards.

Catalogs are out for the big sale of Hereford cattle to be held at South St. Joseph, Mo., March 4, by the Northwestern Missouri Hereford Breeders' Association. The sale will be under the management of Jesse Engle, of Sheridan, Mo., and seventy-five head of choice bulls, cows and heifers have been cataloged. The cattle are consigned by Bell & Sidwell, Queen City, Mo.; H. D. Cornish, Osborn, Mo.; W. R. Hukill, Graham, Mo.; C. V. Hull, Platte City, Mo.; Warren Landers, Savannah, Mo.; Henry Hagedorn, Bolckow, Mo.; S. Hootman & Sons, Woodburn, Iowa; James B. McNeerney, Colo. Iowa; J. E. Roberts, Mayville, Mo.; C. D. Wallace, M. D., St. Joseph, Mo.; O. F. Wilson & Son, Burlington Junction, Mo.; S. A. Wain, St. Catherine, Mo.; J. C. Allen, Bedford, Iowa; J. A. Sisk, Grant City, Mo.; Jesse Engle & Sons, Sheridan, Mo.; Bert Dowis, Sheridan, Mo.; and Sanders Bros., Sheridan, Mo. Sons and daughters of the greatest bulls of the breed will be in this sale and they are the type of cattle that will be profitable on every farm.

The Poland China bred sow sale of L. V. O'Keefe, Stillwell, and George Wedd & Son, Spring Hill, Kan., was held as advertised. The offering was a good one but the local support was not strong. Forty-two head of sows and gilts sold for an average of \$33.50. They were deserving of better prices for this class of bred sows and bred gilts.

At the recent meeting of the Kansas Live Stock Association held at Wichita, Kan., the following officers were elected for the ensuing year: J. Tod, Maple Hill, president; George E. Tucker, Eureka, vice-president; James R. Plumb, Emporia, treasurer, and J. H. Mercer, Cottonwood Falls, secretary.

Two new bulletins have been prepared for distribution to farmers who request them by the Soil Improvement Committee of the National Fertilizer Association. Postal Telegraph building, Chicago. They are "Crop Feeding Pays," written by Prof. Henry G. Bell, chief agronomist, and "Facts on Fertility," by Professor Bell and Clyde A. Waugh, manager of the editorial department.

J. R. Smith, Newton, Kan., has claimed April 25 for a closing out sale of his registered and high grade Holstein cows and heifers. Mr. Smith has been breeding Holsteins for a number of years and has sold a number of cows that have gone out and made good. Mr. Smith feeds and handles his cattle in a way that insures their future usefulness to the purchaser.

Ewing Bros., of Pawnee Rock, Kan., are among the progressive pure-bred stock breeders of Kansas. They have good herds of pure-bred Percheron horses and cattle. Their Percheron herd consists of fifty head. They have a very fine lot of young stallions and fillies. Their Shorthorn herd consists of seventy-five head of richly-bred cattle and they have a good lot of young stock in the herd, including some good young bulls.

The annual bred sow sale held on February 9 by H. L. Faulkner, Jamesport, Mo., well known breeder of Spotted Poland Chinas, was largely attended by breeders from a number of states. The offering was one of the best ever sold by Mr. Faulkner. The forty-three head sold for an average of \$83.17 per head. The top of the sale was \$203, the second highest being \$170.

T. A. Hawkins, Hill City, Kan., is one of the progressive breeders of pure-bred stock. His specialty is Red Polled cattle and he has one of the good herds of that popular dual-purpose breed. He has found Red Polls to be very profitable, and at this time has a choice lot of young stock in his herd, including some good young bulls.

JERSEY CATTLE.

JERSEY CATTLE AND CHESTER WHITE HOGS

Two registered Jersey bulls ready for service. Richly bred.

DORNWOOD FARM, Route 1, Topeka, Kan.

SMITH'S JERSEYS

BLUE BOY BARON 99018

Five years old, solid light fawn, blue ribbon winner. Must change. Keeping his heifers. His sire, half brother to Noble of Oaklands, sold for \$15,000. His first five dams on his dam's side made 102 lbs. butter in seven days. Also four of his sons, serviceable age, and a few females. Will sell very cheap.

S. S. SMITH, CLAY CENTER, KANSAS.

SUNSET "CORRECT TYPE" JERSEYS

The famous Blue Belle-Golden Rosebay breeding. A few bred heifers and young bulls for sale, singly, pair or trio. Send for circular giving description of herd, breeding, production, etc., and mention your wants.

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

JERSEY BULLS

For Sale—A few great young bulls, ready for light service. Splendid individuals of most popular breeding, sired by Blue Belle's Owl 79641 and H. F. Golden Fern's Lad 9th 101728, all out of great dams. Only bulls from our very best cows, raised and offered for sale. You must buy a good one if you buy here. Address

ROLLA OLIVER, Box 701, St. Joseph, Mo.

CHOICE JERSEY BULL

Yearling Jersey bull for sale, from dam that gave 1,260 pounds of 5 per cent milk in thirty days. Also a bred heifer and a five-months-old heifer calf.

D. A. KRAMER, WASHINGTON, KANSAS

LINSCOTT JERSEYS.

First Register of Merit herd in Kansas—Established 1878.

Oakland Sultan, first Register of Merit sire in Kansas, is dead. Last chance to get one of his daughters. \$100.

E. J. LINSKOTT - HOLTON, KANSAS.

JERSEY BULL CALVES—Two fine bred ones, 6 months and 1 month of age. Priced to sell. For description and price write

A. W. Nickols, 603 North D St., Indianapolis, Ia.

DUROC JERSEYS.

Sisco's Duroc Jerseys

PRIZE WINNING BLOOD

Big, growthy, richly-bred gilts, bred to a choice son of the great boar, A. Critic, for spring farrow. Outstanding spring boars. Also a choice herd boar. Prices right.

A. E. SISCO, Route 2, TOPEKA, KS.

DUROC JERSEY HERD GILTS

Twenty spring yearling bred gilts sired by Klondyke and bred to a grandson of B. & C's Col. for May farrow. Price, \$30. First check gets choice. I guarantee satisfaction or money back. Write today, they will sell quick.

H. D. PLUMMER - LONGTON, KANSAS

Bred Sows and Gilts

By the great Duroc Jersey boars, Country Gentleman, Gold Medal and Long Wonder 2d. Bred to Country Gentleman and Gold Medal. All immune. Prize winning blood. We price them right.

W. R. HUSTON - AMERICUS, KANSAS

BIG-TYPE HEAVY-BONED DUROCS

Bred sows and gilts by Blue Ribbon Model, first prize winner at Iowa, Minnesota and South Dakota, 1911. Bred to Illustrators Jr. and Col. Gano Again.

CHAS. CHRISTIANSON, AKRON, IOWA.

DUROC BOARS AND BRED GILTS

Large, smooth, easy-feeding type. From champions Long Wonder, Defender, Superba and Golden Model breeding. Also fall pigs. Everything immune.

JOHN A. REED - LYONS, KANSAS

BOARS! BOARS! BRED GILTS!

Eighteen big husky boars, thirty bred gilts, a few tried sows. Crimson Wonder, Illustrators II, Colonel, Good Enuff, Defender breeding. Either by or bred to sons of the greatest champions of the breed. Priced for quick sale. Immune.

G. M. SHEPHERD - LYONS, KANSAS

GUARANTEED IMMUNE DUROC BRED GILTS

Pedigreed Duroc gilts, prize winning blood, guaranteed immune and in farrow. Shipped to purchaser on approval before he pays for them. Prices reasonable. Address

F. C. CROCKER - FILLIEY, NEBRASKA

SUNNYSIDE FARM DUROCS.

Durocs of the most approved type and breeding. Bred gilts, open gilts, and pigs, either sex. Prices reasonable.

FRANK J. HUETTENMEYER, Lohman, Mo.

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SIX TWENTY FIVE JACKSON STREET Topeka, Kans.

JACK AND JENNET SALE

AT MY FARM NEAR
HIGGINSVILLE, MO. MARCH 6



TWENTY MATURE JACKS, three yearling jacks, seven jack colts, a number sired by Dr. McCord.

THIRTY JENNETS—A number of these jennets are sired by Dr. McCord and bred to my herd jack, Great Eastern, and Dr. McCord 3d, the best jack Dr. McCord ever sired. This is the best lot I have ever offered for sale.

Send for catalog and come to sale. Remember the date is Monday, March 6.

W. J. FINLEY **Higginsville, Mo.**

(Forty-five miles east of Kansas City on C. & A. and Missouri Pacific Rys.)

KENTUCKY JACKS AT PRIVATE SALE

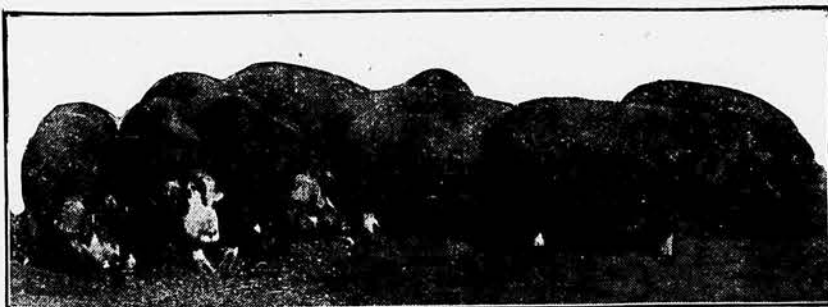


THE firm of Saunders & Maggard, Poplar Plains, Ky., has shipped twenty head of jacks to Newton, Kansas, and they will be for sale privately at Welsh's Transfer Barn. This is a well bred load of jacks, including one imported jack, and they range in age from coming three to matured aged jacks; height from 14 to 16 hands. We will make prices reasonable, as we want to close them out in the next thirty days. Anyone wanting a good jack will do well to call and see them. Barn two blocks from Santa Fe Depot, one block from Interurban. Come and see us.

SAUNDERS & MAGGARD, Newton, Kan.

E. M. Wayde's Poland China BRED SOW SALE

AT FARM NEAR
Burlington, Kansas, Tuesday, Feb. 29
40 - Head Bred Sows & Bred Gilts - 40



Bred for early March and April farrow to my herd boars, Orange Wonder by Big Orange, and Big Tecumseh, two extra large boars with size and quality. All large type breeding from the very best families.

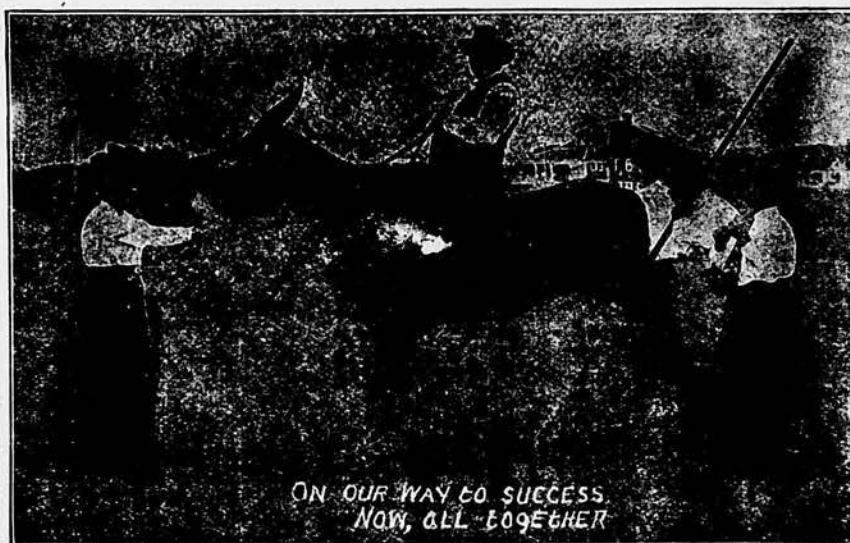
Ten Fall Boars Ready For Service

Send for catalog and come to my sale. I guarantee a good offering of large Poland China bred sows and bred gilts. O. W. Devine will represent Kansas Farmer at sale.

E. M. WAYDE, Burlington, Kan.
Auctioneer—Jas. W. Sparks.

37th AUCTION SALE AT LIMESTONE VALLEY FARM Two Days' Big Sale, Tues. and Wed., March 7-8

ONE HUNDRED HEAD OF HIGH-CLASS REGISTERED MAMMOTH
JACKS AND JENNETS



Including most of our Panama-Pacific Exposition show herd. Prize-winning champion, grand champions, and herd headers, and jennets bred to the World's Fair grand champion, Orphan Boy 696, and Limestone Monarch 3254, Missouri State Fair grand champion and Panama-Pacific Exposition reserve champion, the two greatest show and breeding jacks in the world.

We guarantee this the best offering of the year from any firm, breeder or company.

Nothing priced or sold privately after catalogued, January 1, 1916. Every animal guaranteed as represented. Sale under cover with comfortable seats. Special train from Sedalia to Smithton and return on each day of sale. Free conveyance from Smithton to sale.

If interested, please write for fine illustrated catalog, as we can send catalogs only to those who write for them.

Six miles east of Sedalia and two miles north of Smithton, Pettis Co., Mo.

L. M. MONSEES & SONS, Smithton, Mo.

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Look at the bargains on this page. Every one is a big money saver. You couldn't begin to buy elsewhere, paint and roofing, or a gasoline engine, an incubator, brooder or cream separator of the Hartman high quality at anywhere near the low prices we ask, even were you to pay all cash. On the Hartman Plan you see and test the quality of your purchase before you decide to buy and, if goods are satisfactory, you have practically your own time to pay.

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Send no money—not a cent in advance. Hartman will ship the goods promptly—no deposit required. We give you free, wide-open credit in the literal meaning of the word. Everything is strictly confidential. You run absolutely no risk.

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Lowest price ever made on a strictly high grade Separator. Learn from your own experience that here, at last, in the Majestic is a perfect separator—a masterpiece of mechanical skill and ingenuity. Test it on warm or cold milk and find out by actual results how the Majestic skims down to the last drop—note the condition of cream—note how quickly it skims.

The Majestic Cream Separator has all the latest improvements including remarkable inside oiling device that keeps gearing perfectly lubricated and absolutely prevents a drop of oil coming in contact with cream. Improved separable disc bowl. Simplest to clean—all parts readily accessible—no nooks or corners to gather dirt.

Order Direct From This Advertisement. Just state size you want. We will ship it promptly. If not satisfactory after 30 days trial, return at our freight expense both ways. If you decide to keep it, make first small payment in three months; balance in 3, 6 and 9 months thereafter. No interest to pay.

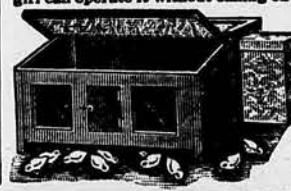
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Just pick out a Majestic Incubator or Brooder of the size you need and we will ship it right out to you without one cent of advance payment. The Majestic is a Hot Water Incubator so simple that any woman or girl can operate it without calling on the men folks and so constructed as to give perfect service for many years. Each one is the best that a great up-to-date perfectly equipped Incubator Factory can produce—thousands are in use—giving perfect satisfaction. Look at these prices. Order any size you want direct from this advertisement. Send no money in advance.



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No. MK193. 80 chicks size.....\$6.95 No. MK198. 200 chick size.....\$19.95
No. MK194. 150 chicks size.....\$14.75
No. MK195. 250 chicks size.....\$24.95

FREE INCUBATOR BOOK Fully describes these machines and the certainty of Majestic results. Mail coupon now.



Metal Covered Incubators
No. MK210. 120 eggs \$11.75
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No. MK212. 240 eggs 15.95

No Money In Advance

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Hercules Never-Leak, Flint-Surfaced Roofing Is Absolutely Guaranteed "All-Kind-of-Weather-Proof"—Greatest Money-Saving Roofing Offer Ever Made.

Order all the roofing you need direct from this advertisement. You run no risk because you are not required to send a cent with your order, make a deposit with anyone or even promise to buy.

Why have a leaky roof on any building when you can buy absolutely guaranteed roofing at such low prices and on such unheard of liberal terms? No matter where you live, you will find that Hercules Roofing will remain unchanged and unharmed under all climatic conditions.

Made from highest quality long fibre wool felt, thoroughly saturated with pure asphalt. Both sides are thickly coated with very fine sharp particles of crystal which are firmly imbedded under enormous pressure.

Each roll is complete—32 in. wide, contains 108 sq. ft. (enough to cover 100 sq. ft.) Nails and cement included. No skill required to lay.

No. MK207. 1-ply, 55 lbs. per roll.....\$1.29 guaranteed 5 years, per roll.
No. MK208. 2-ply, 65 lbs. per roll.....\$1.78 guaranteed 8 years, per roll.
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Free Samples

Your name and address on the coupon below or on a postal card will bring them by return mail.

We realize that farm dwellers everywhere prefer to pay their obligations at crop and stock selling times. It is more convenient for them to do so. We have devised our credit terms accordingly—to suit your convenience. And it is the most liberal credit ever offered by any concern.

Pay In 3, 6, 9 and 12 Months

Not only will we send you anything you want for farm or home—engine, separator, paint, roofing, incubator, brooder, furniture, rugs, carpets, stoves, ranges, dishes, silverware, etc., without a cent of advance payment, but you have 30 days' free use of the goods before you even decide to keep them. If you decide not to keep them, return them at our freight expense both ways. If you keep what you order, you can take 3 whole months before making even the first small payment—balance in 3, 6 and 9 months thereafter, giving you a full year to pay without a cent of interest. No other concern in the world has such confidence in the quality of its merchandise as to send out goods on such wide open terms as these. With \$12,000,000 capital and resources, 1,500,000 satisfied customers and an organization that has grown for over 60 years to its present gigantic proportions Hartman's can well afford to accommodate the farm dwellers of this country.

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Made of the best and purest ingredients. Guaranteed against peeling, blistering, chalking or rubbing off, and to cover more surface, make a better finish, and last longer than any other paint. Mixed by machinery—pigments and oil ground together until every particle is thoroughly impregnated with and absorbed by the others. This insures greater spreading qualities and more uniform color.

Don't confuse this paint with cheap paints you see advertised, and don't let a painter tell you that any paint mixed by hand is better, or even as good as our Rex-Kote Ready-Mixed House Paint. It is not. It can't be.

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No. MK155. Ready Mixed House Paint as low per gallon as \$1.27

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Here is the engine offer that eclipses all others. Think of it—not one cent to pay for three months.

Don't send us a cent of your money until, from your own experience on your own work, you are absolutely sure it is the engine you want. If it isn't, send it back at our expense. If it is, you may use it for three whole months before you make even the first small payment and then pay the balance in 3, 6 and 9 months thereafter without interest.

The Great Majestic Gasoline, Kerosene, Naphtha and Gas Engines

are such amazing triumphs of engine construction that we will gladly send any size to suit your needs so that you, by testing it on your own place, may prove our claims at our risk. The Majestic is the "happy medium"—neither too heavy or too light. Has fewer number of parts—a marvel of simplicity. Perfectly balanced—no excessive friction—most powerful for its H. P. rating, the most economical to operate.

Big improvements in all vital parts—and the most wonderful automatic mixer ever put on a gasoline engine.

Horizontal, 4-cycle type, open jacket, hopper cooled. No over-heating of parts or sticking of valves. Very little water needed for cooling.

Sizes 2, 3, 5, 7, 9 and 14 H. P. Stationary, Hand Portable and Horse Portable Styles.

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