

KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

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THE IOWA STATE FAIR

Iowa is only about two-thirds as large as Kansas but practically every foot of her surface is capable of cultivation. Endowed with a rich soil, a moderate climate and an abundance of rainfall, this state has taken rank among the first in the Union. Her agricultural and live stock products are enormous and her material progress has been measured, as in other agricultural states, by the success of her farmers.

In promoting this prosperity which is enjoyed by her citizens Iowa has found that there has been no more potent influence than her great state fair which has been held each year at her capital city. Her Agricultural College is known far and wide as one of the best, and side by side with it in the educational field, though working in an entirely different way, must be placed her state fair.

Realizing that the state fair is the state itself on exhibition, the show window of its material progress, the management has sought each year to make of this great institution a more broadly useful factor in the education of its citizenship. This fair has so long ranked among the first of its kind in the corn belt states until it has few equals in the Union and its possibilities seem to have no limitation. Each year sees a success that has broken previous records and a growth that is surprising even to her own citizens.

Permanency in buildings and other improvements has characterized each advanced step. The buildings are constructed of brick and steel, the walks of cement, the drives of macadam. The ornamental features have not been neglected, and the Iowa State Fair grounds are a dream spot in beauty.

As showing something of what is contained in this greatest of institutions where the lessons of farm life are taught by objects there were on exhibition this year 1,121 horses, as compared with 992 last year and 765 in 1908. Eight hundred and fifty-eight cattle were shown by 73 exhibitors. About 2,500 head of swine made an interesting exhibit in this department though the number was about 500 short of last year because of adverse conditions at farrowing time. Seven hundred head of sheep and 1,600 birds in the poultry exhibit made up the bulk of the live stock show.

Agricultural displays were larger and better than ever before and were characterized by a new feature which seems to recommend itself most highly to every fair which has for its object the education of the community. Heretofore, in all fairs it has been more or less common to show county exhibits and special attention has been given to these, although the individual exhibitors have never been neglected. The new policy of the Iowa Fair management is to give special stress to individual farm exhibits and of these there were twenty-one this year. These exhibits are intended to cover everything that is grown on the farm in the way of agricultural and horticultural products and the showing was immensely interesting.

Another unusual feature at the Iowa State Fair was the constructing of model farm buildings as a permanent exhibit. Each of these was so

A Potent Influence in the Advancement of the First Agricultural State

arranged that the visitor could see the method of construction while, placed in a conspicuous place, was given a complete bill of cost. These buildings include all of the structures necessary on a practical working farm, and while they are not built as absolute models in the sense that they shall be followed exactly in the construction of other buildings, they are strongly educational and full of suggestions which can be adapted by each farmer to his own need.

Following out this idea it is the plan of Secretary Simpson to construct a model farm on the fair grounds as another permanent exhibit. The amount of land, of course, will be limited but the buildings with all of the conveniences which are now available to the up-to-date farmer and his wife will be shown. These will include sanitary methods of plumbing and sewers, a water supply, furnace heating, lighting by acetylene

and electricity, together with the correct arrangement of the kitchen and other rooms of the house with convenient access to all of the different buildings, necessary for the housing of the live stock, the crops, poultry, machinery, dairy and a summer supply of ice.

Another feature that is proposed to inaugurate in the near future is the abolition of entrance fees at the gates. The plan of this fair is to throw its gates wide open to the public free of charge and give of its treasures to the citizens with no expense to them. The methods by which it is proposed to accomplish this is to depend upon the concessions for the necessary revenue to conduct the fair, but of course this can not be done until all of the necessary buildings are completed. This idea has been behind the policy of the management in their erection of permanent buildings. These are con-

structed in the most substantial manner and each year sees additions to their numbers. When all the necessary buildings are in place, it will then be possible with the enormous number of entries of farm machinery, agricultural products, live stock, textile fabrics, the concessions of various kinds and all of the thousand and one things that go to make up a great fair in the aggregate, to make the revenue from these pay all running expenses and keep up the grounds and buildings. This, however, is only one of the ultimate purposes of the management and may not be accomplished for some time to come.

The Iowa State Fair is the first of its kind in the corn belt region each year. Here is fought out the preliminary battle of the breeds and here is given the first standing of the season to each show herd. From this fair the exhibitors branch out on two great circuits, one of which includes Nebraska, Kansas, Oklahoma, Missouri and the American Royal, and the other one includes Minnesota, Wisconsin, Indiana, Illinois and the American Royal. As Iowa is the beginning of the fair season, so the American Royal at Kansas City is the end and culmination. Premiums awarded at the Iowa State Fair therefore serve to fix the standing of each herd in its circuit until the final battle at Kansas City where the championship for America is determined until the grand round up at the International at Chicago a month later where foreign herds compete.

As Iowa is a great state agriculturally so are the exhibits of all classes at her state fair of the best. The policy of the administration is to make of this fair an Iowa institution for the benefit of Iowa people but in the execution of this plan outsiders are not excluded. Prizes are given in the different classes of exhibits which are open to the world but supplementary prizes are always given for which none can compete but citizens of the state. This serves to explain, in part, why the attendance is always good almost regardless of weather conditions. The fair is attractive to the people. They want to come because they have a good time, renew acquaintances and form new ones, and gain a vast fund of information which is directly useful to them in their business operations of the year. The element of patriotism is a strong factor and people attend the fair because they feel that it is their fair and that it is their duty to support it. Perhaps at no state fair is this patriotism shown in a greater degree than at Des Moines. If the rains prevent the races or prohibit the exhibition of other amusement features, there is never a clamor for the return of gate money by the visitors. All realize that by attendance they are benefiting themselves. The exhibition is so large that the small amount charged for admission fee is returned in value many times, and if one feature fails to appear because of bad conditions there is no adverse criticism.

The Iowa State Fair is a model in its way. It is an evenly balanced fair, in which no feature is allowed to predominate over the others. The speed ring is offered as simply one of the amusement features, and never

(Continued on page 11.)

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Land sales and homestead entries increasing. No cessation in numbers going from United States. Wonderful opportunities remain for those who intend making Canada their home. New districts being opened up for settlement. Many farmers will net, this year, \$10 to \$15 per acre from their wheat crop. All the advantages of old settled countries are there. Good schools, churches, splendid markets, excellent railway facilities. See the grain exhibits at the different State and some of the County fairs. Letters similar to the following are received every day, testifying to satisfactory conditions; other districts are as favorably spoken of:

They Sent for Their Son Maidstone, Sask., Canada, August 5, 1910. My parents came here from Cedar Falls, Iowa, four years ago and were so well pleased with this country they sent to Couer d'Alene for me. I have taken up a homestead near them, and am perfectly satisfied to stop here. LEONARD DOUGLAS.

Wants Settlers' Rate for His Stock Stettler, Alberta, July 31, 1910. Well, I got up here from Forest City, Iowa, last spring in good shape with the stock and everything. Now, I have got two boys back in Iowa yet, and I am going back there now soon to get them and another car up here this fall. What I would like to know is, if there is any chance to get a cheap rate back again, and when we return to Canada I will call at your office for our certificates. Yours truly, H. A. WIK.

Will Make His Home in Canada Brainerd, Minn., August 1, 1910. I am going to Canada a week from today and intend to make my home there. My husband has been there six weeks and is well pleased with the country, so he wants me to come as soon as possible. He filed on a claim near Landis, Sask., and by his description of it it must be a pretty place. My brother-in-law, Mr. Frank J. Zimmer, lives there and it was through him that we decided to locate in Canada. Yours truly, MRS. RICHARD HENRY EBINGER.

Send for literature and ask the local Canadian Government Agents for Excursion Rates, best districts in which to locate, and when to go. Address J. S. Crawford, 125 West 9th St., Kansas City, Mo.

KANSAS FARMER

EDITORIAL

KANSAS FARMER AT THE FAIRS.

Kansas is favored above other states in that she has two state fairs while they can afford but one each. At each of the state fairs to be held at Topeka and Hutchinson during the week beginning Sept. 12, the KANSAS FARMER will maintain headquarters to which all good Kansans are invited. Come in and feel at home. No introduction will be necessary. Courteous attendants will be in charge who will look after your comfort. You will be welcome.

In 1909, the American farmer received three hundred million dollars for his egg crop. The consumer paid five hundred and forty millions for the same eggs. Here is two hundred and forty millions that were pocketed largely by the middlemen. These are expensive chaps but it seems we must have them.

RETURN SOIL FERTILITY.

The farmer who sows and reaps and uses his profits in buying more land in, in the central West, nearing the end of his string. Increased acres are difficult to obtain and land refuses to produce year after year without the return of fertility. Conservative live stock farming is the following step. At this point the farmer must employ his ingenuity and intelligence. He must build up herds, acquire knowledge of principles of breeding and feeding, study composition of soils and learn how to restore fertility, etc. Fortunately, science stands ready to aid in the change. The quicker farm conditions are pointed toward live stock the better off will be the farmer and community.

A prominent farmer in a nearby county who has been a constant reader of the Kansas Farmer for many years remarked the other day that he had no trouble in keeping the boys on the farm. "I have never made any special effort to keep the boys on the farm. Just gave them stock for their own and allowed them the use of land for the raising of crops for their own benefit and now I could hardly drive them away." Perhaps this may not be considered a special effort, but who could have devised a better plan? This farmer realizes that the big successes as well as the big money of the future in the West will be found on the farm and, while he prefers that his sons should remain there, he realizes that not every one is mentally and physically equipped for making the greatest use of his powers on the farm and he did not want to handicap them. Make farm life profitable to the boy and it will be attractive.

Electricity on the farm is no longer an iridescent dream. At least one Kansas farmer has harnessed the little stream which runs through his farm and compelled it to work for him by running a dynamo from which he derives all his power for farm purposes and by means of which he lights his buildings. Another Kansas farmer in a different section has installed a gasoline-electric plant for the same purposes. Still another has secured current from the main lines of a nearby trolley. This power is the steadiest, most uniform and most economical that has yet been discovered and is available for all sorts of purposes where power is needed and for lighting as well.

The American National Live Stock Association has wielded an enormous power for the good of the live stock interests of the entire country but more especially of the West, where the bulk of our meat producing animals are raised and fattened. The executive board of this association recently held a session in Denver for the discussion of live stock sanitation, the proposed advance in live stock rates on railroads, federal legislation affecting live stock interests and the fixing of the time for the annual meeting. No special antagonism was developed against the railroads because of the proposed advance in rates, but an equitable adjustment of these rates was urged so that the interests of the shipper, the railroads and the markets may all be conserved.

With which is combined FARMER'S ADVOCATE, established 1877.
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NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.
Entered at the Topeka, Kansas, postoffice as second class matter.

SUBSCRIPTION PRICE—\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished upon application.

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KANSAS FARMER COMPANY, TOPEKA, KANSAS.

THE IRRIGATION CONGRESS.

The National Irrigation Congress, which has to its credit more of general good to the agriculture interests of the West than most National associations can claim, will hold its 18th annual session at Pueblo, Colo., on September 26 to 30. The program for this meeting is a full one and many men of national reputation as well as many representatives of foreign governments will be present and give addresses.

Great preparations have been made by the civic authorities for the comfort of visitors and the splendid exhibit of irrigation products and machinery will double the value of the meeting to each. This great association has for its secretary Mr. Ralph H. Faxon of Garden City, Kan., who now has his official residence in Pueblo until after the meeting.

The farmer who does not study his business, attend the Grange meetings and farmers' institutes, follow the work of the experiment stations and read the farm papers is not only a loser himself, but is a drawback to his brother farmers. The man who does these things and profits by them not only increases his old yield but his bank roll as well. The energetic farmer cannot materially increase the aggregate yield of the country unless he equals or exceeds in numbers the indifferent one. A pull all together brings big results for all.

The discing of alfalfa has been for years urged as beneficial. Now we see that the Nebraska experiment station advises strongly against discing. The year following shows a decided falling off in the vigor of the plants where the disk is used, it is stated. What is the experience of Kansas growers? Let Kansas farmers hear from you on the subject.

The World's Panama Exposition is the subject of much thought and considerable advertising, on the part of the enterprising citizens of several important cities. New Orleans and San Francisco are both active contestants for the honor of being the chosen one.

A professor of horticulture made the statement in a lecture, referring to the importance of perfect fertilization, that any farmer who was raising alfalfa for seed could well afford to keep ten colonies of bees, even though he did not get a pound of honey.

The "back to the farm" movement gets into its third speed about the middle of summer, especially if the city folks have relatives in the country.

An optimist is a person who has to live with a pessimist.

HOG CHOLERA SERUM.

As an illustration of the benefit derived from an active and practically managed department of an agricultural college, the work of the veterinary department of the Kansas State Agricultural College furnishes a shining example. Since the establishment of this department thousands of dollars' worth of live stock has been saved to the state by its help. Dr. Schoenleber, who is head of the department and also state veterinarian, reports a new outbreak of hog cholera over the state. The anti-hog cholera serum is being rushed to the infected localities and the department reports that it is checking the cholera in the infected herds, except in chronic cases. So far the reports show that from 60 to 100 per cent of the hogs vaccinated in infected herds are saved, the average being over 90 per cent when the herd is treated in the early stages of the disease.

This year the National Corn Exposition will find a new home in Columbus, O. After having been born and having spent the very vigorous years of its early existence in Omaha, which is near the center of the great corn belt, its sponsors have seen fit to move it to a new home on the eastern edge. The dates fixed are Jan. 30 to Feb. 11, 1911. Corn that wins at the state fair or at the state corn show at Manhattan this winter will be eligible to enter in the National show.

An anti-hog cholera serum exhibit and demonstration will be made each day of the State Fair at Topeka by the veterinary department of the State Agricultural College. This department is one of those most directly valuable to the farmer and this demonstration will prove of immense value to all farmers and breeders. There will be no disease on the grounds and every care will be taken against the danger of any. The demonstration will be educational entirely.

Forty-eight Kansas counties sent no prisoners to the state penitentiary during the last fiscal year, and with one-half of the counties of the state with no inmates for the poor houses, it seems that Kansas is well able to take care of herself.

The farmer can expect a poor year occasionally sandwiched between the good years. It is possible to make the poor years good and the good years better by just a little better farming. Every year plenty of work is done, but too often that work is poorly directed.

The attractiveness of the farm is determined by the farm parents. If the boy or girl elects to leave the farm it is this editor's belief that the parents are to be blamed.

SUGAR BEETS FOR HOGS.

Sugar beets have long been highly valued as a feed for cattle and especially for milk cows, but it has lately been demonstrated that they have a high feeding value for hogs as well. One farmer in the sugar beet regions of Utah states that by feeding sugar beets alone he made his hogs gain 50 pounds each in one month. Figured at the existing prices for hogs on foot this made the beets bring him \$10.50 per ton.

Another farmer bought three tons of sugar beets for \$12.45; he fattened eight hogs, which, for a little over two months' feeding, gave him a profit of \$43. In this instance the beets were cooked before being fed to the hogs. In both of these cases beets only were used, while by adding a small amount of grain these profits may still be increased.

FARMERS' NATIONAL CONGRESS.

The 30th annual session of the Farmers' National Congress will be held in Lincoln, Neb., beginning Oct. 6.

The Congress has been a strong factor in securing a national department of agriculture, the interstate commerce commission, rural mail delivery, oleomargarine legislation, freeing denatured alcohol from taxation, postal savings banks, increased appropriations for agricultural education.

The Congress now stands for extension of the parcels post, national aid for good roads, improving inland water ways, conserving natural resources, especially soil fertility and forests, federal aid to secondary agricultural schools, federal aid to agricultural college extension work.

The fair season is upon us and it behooves each good citizen to lend a hand, as an exhibitor where possible, but as a visitor always. The fair is yours. It is your home state on exhibition to the world and when the world and his wife are invited to see it you are disposed to feel a pride in its success. This success will depend upon the citizens who respond by exhibiting their live stock, farm and domestic products and who attend in person. Large sums of money have been expended by private parties in Kansas to make creditable fairs and thus overcome, in part, the handicaps placed on the state by the Legislature in its failure to provide a state fair, and these men are entitled to encouragement and support. The results of their labors and the big benefits to be derived from attendance at the fairs is always yours.

Progress and accomplishment in the breeding and feeding of live stock in America are indexed by her great National live stock shows. Of these the International at Chicago on Nov. 26 to Dec. 3 is the greatest as it is the culmination of the show season. The battles of the show rings have been fought at the various state fairs and the other National expositions and the final contest for supremacy is held at Chicago. The great show herds that have won honor at other places are here brought together and championships of America are determined. With the opening of this show next winter it will enter upon its second decade of success and indications now show that the exposition of 1910 will be the greatest ever held.

Of the many politicians who assembled in Topeka last week to attend the several party conferences, a large proportion were farmers, or men who are directly interested in farming. Being politicians they are all shrewd observers and realize that their interests as well as every other interest in Kansas depends very largely upon crop conditions in this state. Conversation with these bright, shrewd men from all parts of the state developed the fact that Kansas crop conditions are excellent and that in most localities the harvest will be a heavy one. Wheat and other small grains were of "bumper" proportions in most of the wheat belt and the corn prospect is so good that Board of Trade operators at Kansas City are offering wagers that the yield will greatly exceed that of last year. Thus has the crop killer received another solar plexus blow.

Making Money Out of Sunshine

"Grass is the forgiveness of Nature." It is also the foundation of all proper and permanent agriculture. It not only enriches the earth by its own growth, but furnishes a most nutritious food supply to our domestic animals, without which there can be no true or lasting agriculture.

Continuous cropping in grains is mining and not farming. Continuous feeding of farm animals without soil cultivation is speculation and not agriculture. A combination of the two in judicious rotation of crops, with their manufacture into the condensed products of beef, butter, pork or poultry, insures a present prosperity and a future fertility.

The farmer chooses for himself. His highest object is to live as a man among men, a good citizen, a good neighbor, a good friend. He may have other objects that are special or incidental, but he can have none higher.

To accomplish any object for which he may strive he must live, and to do so he must have money or its equivalent. "Making money" is the expression of this necessity, and the purpose for which he strives while attaining his higher ambitions, and hence, the problem of ways and means deserves and receives much of his earnest thought.

To those who are qualified and who love their work, dairying is the most profitable branch of farming. The dairy farmer knows that his market can never be glutted and that there will always be a demand for his products, provided they are sweet and good. He knows that he is not robbing his soil so that his children will inherit nothing but barren acres. He knows that his products are finished articles made from the sunshine and the rainfall and that nothing can be grown upon the farm which will sell for as much per pound as will his cream and butter. He further knows that his business brings in a steady daily, weekly and monthly income impossible to any other farm operation.

The first advantage to be gained by dairy farming lies in the fact that it takes less fertility from the soil than any other farming method. A ton of wheat will take from the soil \$7 worth of fertility and will sell for about \$30. A ton of butter takes only 50 cents' worth of fertility from the soil and sells for about \$500. When the wheat is disposed of just that much of the farm is sold from under our feet as it leaves nothing behind it. When the butter is sold the returns are practically all profit made directly from the sun and rain and the farm is richer for the manure left behind.

To illustrate the truth of these statements and to show that dairying is not drudgery a nearby dairy farm is cited as an example.

Park View Farm is a gently rolling tract of 120 acres which is not naturally richer than adjacent farms, but which is under much better care and cultivation than many. Its largest acreage is in alfalfa, grass and corn. It supports a cattle population of 25 milk cows with their calves and other young animals. These milk cows return their owner an income of \$250 per month or \$10 per head. They are all high grade Holsteins and the herd header is always a pure bred animal. The owner has for years made a practice of reserving the best heifers from the best cows for development into milk producers. He raises all his own cattle. The calves are fed by hand on whole milk for a few days, and then on skim milk to which a little grain is added to supply the fat that has been removed by the separator. The calves

A Dairy Cow Manufactures Wealth From Grass Produced by Rain and Sun

have access to good pasture in season and to alfalfa hay the year around.

As the milk furnished by this herd is supplied to city customers especial pains is taken with the sanitary condition about the farm. The barn is floored with cement concrete, over which, in the stalls, is laid a board floor for the added comfort of the cows. The drop is of cement and the watering trough, which runs the whole length of the stable, is also of the same material. This is so contrived that the whole herd can be watered at one time or it can be used as a feeding trough after the animals are in their hurdles. The barn is thoroughly cleansed and swept every day

of woven wire fence about this concrete water tank and planting vines the owner has added to its picturesque appearance. The tank is covered entirely except a small hole at the top necessary for ventilating purposes, and the owner has the satisfaction of being able to supply an abundance of cool and pure water to his house, his barns, his feed lots and his pastures.

Some time ago the experiment was made on this farm of storing uncut alfalfa in an old ice house for the purpose of converting it into ensilage. The heat developed was so great that the owner feared for the safety of his buildings, but the silage cured in good shape, al-

quent profits of the owner that he is a great enthusiast in behalf of the silo and ensilage. Moreover, he believes that ensilage made of one-half corn and one-half alfalfa, placed in alternate layers, makes the best possible feed for dairy cattle. Certain it is that his returns were better than anything he has ever had before in his long experience in winter dairying.

While the test of dairying with ensilage on this farm has only been conducted for one season, if the first experimental attempt is not counted, it has been so thoroughly satisfactory that the owner already feels paid for the expenditure he made in the purchase of this stave silo and of the ensilage cutter which goes with it. He is a careful man who investigated various kinds of silos, including the reinforced concrete, the brick, the terra cotta and the stave, and finally decided to order an Indiana stave silo and feels that his experience has proved the wisdom of his choice. With this silo he bought a Silver ensilage cutter which has given perfect satisfaction. The power is furnished by a steam engine which has long been on the place.

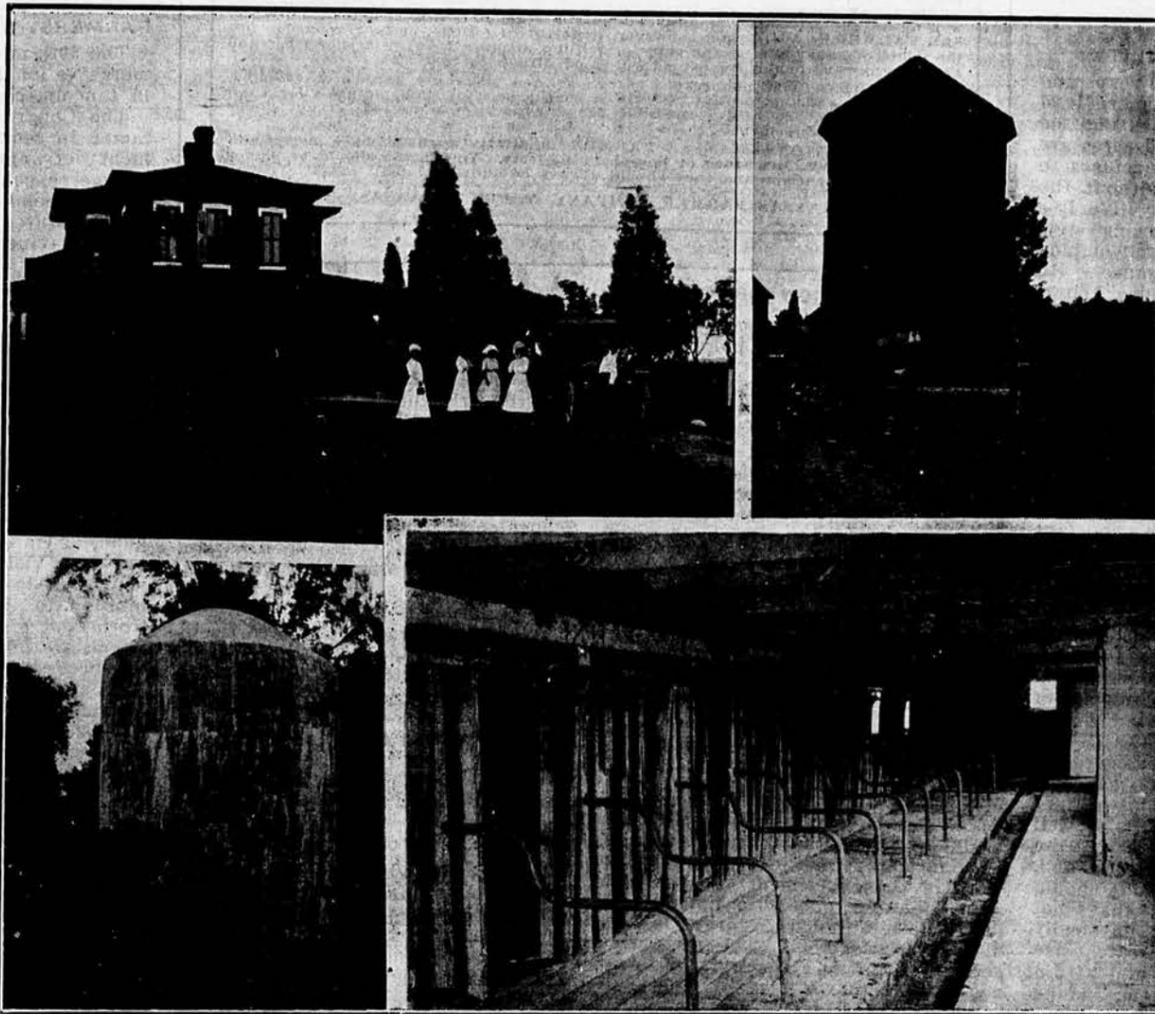
As will be seen by the photograph the farm is equipped with the Loudon litter carrier. This is mounted so as to deliver the manure from the cattle stable at a considerable distance from the milking stalls and directly into the manure spreader. The picture shows the carrier inverted just in front of the silo, which happens to be near the place of loading the manure spreaders.

The beautiful home and lawn is shown in another section of the picture and this is equipped with every modern appliance that is available in a country home. As before mentioned water is supplied under pressure from the concrete tank, the house is heated with a combination furnace and the lights are furnished by the new and highly efficient Winters' automatic acetylene gas plant. The photograph shows the owner and some friends about to start on a few minutes' trip to the city in their Buick touring car. The place is one of beauty and has the merit of being just as attractive in the back yard as it is on the lawn.

A beautiful sod is maintained on the spacious lawn and ornamental plantations serve to enhance the charm which naturally belongs to the place. These are interspersed with flower beds, each of which is surrounded by an ornamental wire fence as a protection against the pure bred poultry which otherwise has free range.

All this has not been accomplished by the lavish expenditure of money at once, but has been a matter of growth. The place when secured by its present owner was in a very dilapidated condition. He has built it up until it is not only a delightful residence but a profit making business enterprise as well. While he buys some of the grain that he finds necessary to feed in the balancing of his rations, he sells more than double its value in products from the farm, so that the grain purchased does not cost any outlay.

As a typical example of what may be accomplished on an ordinary piece of land by the use of good judgment and the proper handling of pure bred milk cattle, Park View Farm can perhaps not be excelled in its locality, if indeed it can in the state. It is exemplary of the doctrine of proper rotation of crops combined with careful methods in dairy farming, which has been so long advocated by the Kansas Farmer and so carefully practiced at Park View.



Parkview Dairy Farm, showing residence, tank, silo and interior of cow stable.

and sprinkled with lime. There are absolutely no bad odors in connection with it.

The water supply is furnished by a wind pump. This feeds the home-made cement water tank shown in the picture. This tank was built of reinforced concrete by the ordinary farm labor. It has been so located that it becomes a picturesque part of the farm instead of the unsightly object so often seen on farms whose only redeeming feature lies in its utilitarian aspect. By stretching a length

though it was very brown and uninviting in appearance. The cattle ate of it greedily and the test was so satisfactory that the owner bought a stave silo one year ago and erected it, as shown in the picture. Last fall he filled the silo by putting through the cutter alternate loads of the fourth crop of alfalfa and of field corn which had just begun to glaze. This packed and kept perfectly and during the winter the cattle were fed on a succulent ration which added so much to the milk flow and conse-

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KANSAS FARMER will be 49 years old on January 1st, 1912. As a special 49th anniversary subscription offer, we will mark your subscription paid to that date, and also send KANSAS FARMER for the same length of time to a new subscriber whose name you may send us—the two subscriptions to January, 1912, for only \$1.50. Here is an opportunity to benefit yourself, your neighbor and Kansas Farmer, all at the same time. The sooner you order, the more issues you will receive. This offer is good during this September only.

THE FARM



The shelter available and feed obtainable should determine the increase in all kinds of farm stock.

If roughage is scarce, stack well the wheat straw. Bright wheat straw will go a long way toward filling out a season of short roughage crops.

"An animal well summered is half wintered." The old saying works out in practice. If you starve the cattle early this fall because pastures are short you'll have to supply more feed next winter than if the animals went into the winter thrifty and strong. It pays to feed well early in the feeding season, too.

Clean the seed wheat. Clean seed and the big, plump berries will increase next season's yield. It helps to have clean and good seed, even if sown in dirty ground. The weed seed removed from the seed wheat keeps that many weeds off the ground, and the plump, strong berry produces a plant which will fight a harder battle with the weeds in the ground. A good fanning mill properly used is a valuable farm implement.

To Prevent Wheat Smut.

A subscriber in another state asks for a method of treating seed wheat to prevent smut. One of the best and cheapest ways is to mix 1 pound of formalin in 50 gallons of water. Put the wheat in burlap sacks and immerse for 10 minutes. Spread the seed to dry and it is ready to sow. Another way is to dissolve 1 pound of blue stone or copper sulphate in 24 gallons of water. Place the seed in burlap bags as before and immerse for 12 hours and then immerse in a solution of lime water made by slaking 1 pound of lime in 10 gallons of water. Leave in the lime water a few minutes and then dry as before.

I want to know what crops should alternate to retain the fertility of the soil. I have cow-peas in my orchard; what shall I plant on the same ground? Should I plow under the cow-peas this fall preliminary to a crop in the spring? Can I not raise two or three crops on the same ground the same season? I have bulletins on the subject of crop rotation but do not find a concise statement of what I require.—J. E. Burbank, Malden, Mass.

I am mailing you "Farm Management" pamphlet in which you will find some information regarding the rotation of crops. You may plow the cow-peas under and sow a cover crop of oats to protect the orchard during the winter, following with potatoes or some other intertilled crop next season. It is possible to raise several crops on the same ground in one season, but if such crops are removed from the soil heavy fertilizing should be practiced in order to maintain the soil fertility. This may be accomplished by manuring with stable manure, or a combination of chemical fertilizers and manure may often be advantageously used. It is practicable to raise two or more crops on the same ground in a season, using one as a cover crop and fertilizer by plowing under for a green manure. Crops which may be used in rotation and for the purpose named above, vary for the different states and different parts of the country. For names of crops to use in profitable rotation in your section of the state, I refer you to the State Experiment Station at Emherst, Mass.—Prof. A. M. TenEyck, Hays.

Improved Winter Emmer.

"The improved winter emmer produced by Prof. B. C. Buffum on his seed-breeding farm near Worland, Wyo., gives promise of great things for the intermountain country and bids fair to take a place in grain production along with alfalfa as a forage crop," says a writer in the Twentieth Century Farmer. "Heretofore many of the farmers in the central states

have hesitated to move into the mountain states because the nights were so cool that they could not successfully raise corn, and all successful farmers realize the necessity of having such grain as corn to finish the stock that are taken off of the ranges before sending them to market as beef, pork or mutton. The new grain brought out by Professor Buffum is stated by him to contain 70 per cent of the ingredients of corn, and he claims for it a place alongside of corn as a stock food grain. It is apparent that under irrigation from 80 to 125 bushels per acre of this grain can be grown if the ground is properly prepared and the crop given proper care. If the additional 30 per cent did not contain any value, which, of course, is not the case, it will be observed that 100 bushels of this winter emmer would be equal to seventy bushels of corn as a stock-fattening food. Professor Buffum claims for this grain a larger yield per acre than any other emmer grown heretofore, and that it also contains larger per cent of fattening matter.

"People who are posted on the matter of stock foods in the intermountain country predict that this new grain will to a certain extent revolutionize the stock industry in the intermountain states and give the farmers an opportunity by the use of this grain, together with alfalfa, to ship direct from their farms the very best quality of fat stock, instead of selling the stock as heretofore for feeders to be shipped into the corn country and fed from two to four months before being sent to the packing houses for market."

Corn Suckers.

Editor Kansas Farmer:—As I am a subscriber to your valuable paper, I wish you would answer my questions in the same. A year ago I bought 4 acres of land just outside the city limits of Lindsborg. This land was then in alfalfa, and had been so for 12 years or more. I broke it this spring and listed it to corn. Now it has been awful dry for nearly a month with 108 to 110 degrees in the shade, and some days hot winds, and this corn is fast drying up, because so many suckers are on almost every stalk. Can I get any seed next spring that will not grow so many suckers? I intended to plant half of this land in Kafir corn but about the time it is ripe, and before, here are millions of blackbirds who clean out every such little field, but they can not do so much damage to Indian corn.—Nils Larson, Lindsborg, Kan.

It is probable that the weather and the mechanical condition of the soil had more to do with the drying up of the corn than did the suckers. It is also probable that these conditions had more to do with the growth of the suckers on the corn than did the variety of corn planted. Plowing under the old alfalfa field under the conditions which prevailed this season probably left the soil very loose, with large air spaces which helped to dry it out more quickly and more thoroughly than would have been the case had the field been plowed in the fall and had time to compact itself and store a greater amount of moisture. Under these conditions the struggle of the corn plant for a bare existence may have induced the throwing out of the numerous suckers. Apparently the trouble is not with the corn plant nor the variety of seed used but with the physical condition of the soil.

Select some good variety of seed corn that you like and have confidence in and then give attention to the condition of the soil. Any variety of corn will send out suckers if the conditions are right but not every soil will produce good ears no matter how rich it may be or how pure the seed. The soil must be put in condition and it is probably safe to predict that this same field will yield an excellent corn crop next season if rightly handled.

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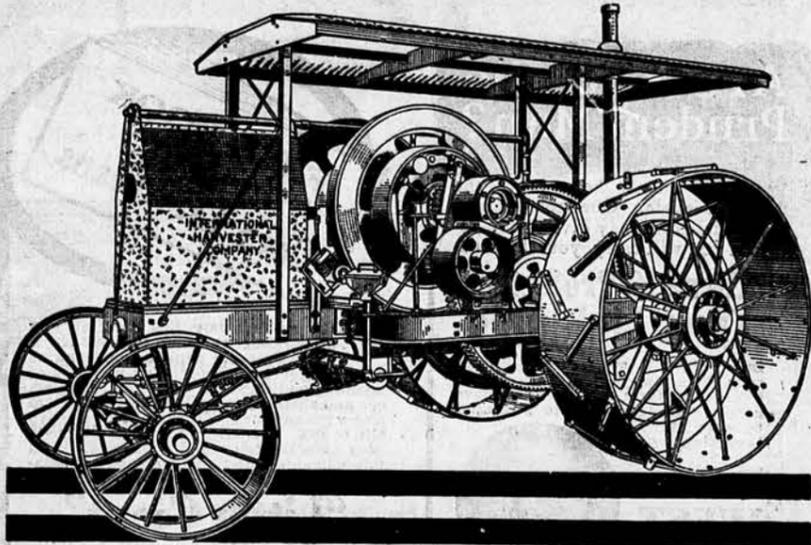
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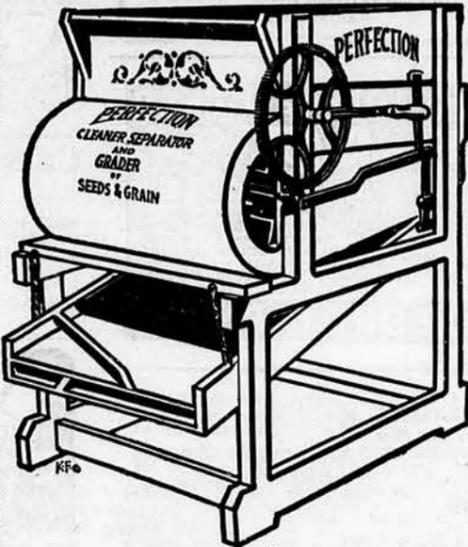
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How to Stop Drouth and Check Disease.

Having been in the farming business this season and in the hot bed of the drouth, I can say that if there is anything that can be done to check the beginning of hot winds and drouth, we ought to cheerfully lend all assistance possible to check it. It is compulsory that we mow the weeds in public highways and to keep the hedges trimmed and the obnoxious weeds in our fields if the trustees in our township do their duty. I might say right here that it seems that some of our trustees do not seem to know that this is a law. "That we are compelled to mow such weeds."

My plan is nothing more than this: That as soon as the farmers get their wheat in the stack they should go to work and burn off the stubble and thereby change the surface of the field from a golden yellow color to a black surface which will not produce so much heat, or the stubble may be plowed or disked. If they will get a hustle on them and do this at once after the wheat is in the stack and properly protected from fire by plowing round them or possibly by back setting the stubble around the stacks. When you think about it you must certainly say there is not much wonder that we have such terrible heat in July, August and September. Kansas is a wheat raising state. The wheat acreage is enormous. If we can check the beginning of a dry spell by so doing we can save our pastures from adding to it by the heat that would be produced by them. This has never been tried but we may do wonders by following these methods. In the eastern part of this state and all eastern states they sow some kind of greens among their wheat in the spring such as clover and timothy, which of course is a non-conductor of heat and makes it a great deal better. Another thing that we should do is to try and retain as much of the rainfall as possible on our farms by making dams across ravines and by cutting channels in such manner as to retain the moisture that we do get. Get your ground thoroughly pulverized before your crop is put into the ground, so that it will take in and hold the rain. Allow no other crop to grow (that is, weeds and grass) before you plant your crop. I know that is true from experience; for instance, I put a 90 acre field into corn. My hired man forgot to disk a small point of a land that was left without being stirred before listing. The result was that we could not get a stand of corn there and what did grow was worse than none, but we did have a crop of lambsquarter and that sapped all the moisture.

So you see all these things have a tendency to retain moisture in the ground. Our house is situated on a little higher ground than that a little farther away. We have a mulberry hedge around the house and quite a good many trees in the yard. Well we got a rain after waiting five or six weeks for it and when it was raining at its best I simply thought it would be a good plan to keep as much of that water up here on the hill as possible, and having endured the hot and dry weather so long thought that a rain bath would not come amiss so I grabbed a long handled shovel and got to work. I saw plenty to do when once at work. The first thing I noticed was the water running down a toepath. I cut a small ditch across it and sent the water down the hedge row and by digging lateral ditches ran them around the small trees. I went around the house and forthwith stopped all the water from running away. Then going farther away from the house I noticed the water running down the lane at a pretty good rate. I dug a ditch across the lane and ran the water over on the young alfalfa. I want to be honest with you and I want you to be with me. Don't you think, brother farmer, that if we all work along these lines that we can help matters greatly? And I would put this a little stronger. I would like the governor of our state to push this idea of burning off the stubble of our wheat fields or turning them under with plow or some similar farming tool. In fact, I would like to see it made compulsory to do this. As I said before, Dr. Crumrine says that this dreaded disease known to the world as infantile paralysis is caused or follows drouth. So you see it is a serious affair. It affects our general welfare both financially and promotion of our health is concerned. Now

do not be obstinate, brother farmer. Let us work together and see what we can do to help to change the present condition of affairs.

The above should apply to Oklahoma and western Kansas. I hope Governor Stubbs will prevail on Governor Haskell of Oklahoma to have their people work along these lines.
—F. E. Taylor, Edmund, Kan.

Farmers of the Hard Wheat Section Should Beware of "Ironclad" Wheat.

For several years a variety of wheat known as "Ironclad" has been grown in Oklahoma and several counties on the southern border of Kansas. One of the inducements for growing this wheat was the statement that it resisted attacks of the Hessian fly. Owing to the fact that a few seasons were favorable to soft wheat this variety gave some very good yields and increased in popularity among the farmers, gradually spreading north and west into the state.

Soon it began to arrive on the market in considerable quantity and then the trouble began. It did not give satisfactory milling results and the flour made from it did not possess sufficient strength. Millers did not want to buy it even at a discount and elevators could not readily use it for mixing purposes on account of the large, long kernels that could be easily detected.

This Ironclad is really a soft red winter wheat of the Mediterranean or Fulcaster type, but when grown under the drier conditions of the hard wheat section takes on a somewhat harder character until it is neither a true soft nor a true hard wheat. Also much of it has been grown in the hard wheat section until it has become mixed with the hard Turkey wheat. This mixture is much less desirable than either variety when pure.

Our Kansas mills must always be able to meet the competition of the Northwest spring wheat mills. To do this they must have a good quality of genuine hard red winter wheat of the "Turkey type." Furthermore, long years of experience have shown that, in a series of years, no wheat has given the farmers of this state better results as to yield and quality than this "Turkey type."

There is a limited area in the eastern and southeastern sections of Kansas where the hard wheats do not retain their flinty character well and where soft wheats give very good results. Outside of this limited area the Kansas farmers should stick to the hard wheat.

This Ironclad wheat has been advertised as "Imported Russian Ironclad" and the statement made that it was a "hard red winter wheat." Both of these statements are incorrect. Before sowing any Ironclad wheat send sample to some of your local mills and to leading grain firms in Wichita, Hutchinson or Kansas City. Ask them for grades and prices on it in comparison with Turkey. You will find a discount in price varying from 4 cents to 10 cents per bushel.

Don't buy an unknown or an untried wheat simply because an agent asks you a fancy price for the seed.

VETERINARY.

I have a horse that is wind broken. He is a good driver, 7 years old, and in good health. His ration is shelled oats and grass pasture.—C. E. Berry, Fairmont, Okla.

Nothing short of an operation is successful in the case of a horse with broken wind. About 90 per cent of these are successful.

I have an 11 year old horse which is troubled with something like a cold only that it does not leave him. There seems to be some phlegm in the head and when he breathes it makes a crackling noise. He coughs some and does not breathe freely. At times there is a slight discharge from the nose.—J. L. Haney, Scandia, Kan.

Ans.—Feed good fresh prairie hay of a limited amount. Water before feeding and not for two or three hours after feeding. Scald oats and bran one feed ahead for him and salt well. Give the following: Tincture of nux vomica, Fowler's Solution, and simple syrup, each eight ounces. Mix, and give a tablespoonful back on the tongue with a dose syringe four times a day.

LIVE STOCK



The Beef Cattle Outlook.

Recent years have witnessed a decline in meat production in the United States. There has been a tendency among farmers in all sections of the country to abandon stock raising for grain growing. Unsettled conditions have favored the change. We can not expect, however, that these conditions will continue. In fact, we are already in the transition stage, and no field of agricultural endeavor promises greater remuneration than that of intelligent animal husbandry. Economic conditions in every department of industrial life demand safe and conservative development; land speculation and wildcat schemes of all kinds are being discouraged as never before; conservation of resources and intelligent investment are being written into the fabric of our national life. The practical conservation and highest development of a nation's resources are dependent upon live stock, and there is no work today so important as that of educating the farmers to systems of agricultural practice which combine meat production with the growing of corn, wheat, cotton and other products of the farm. The importance of this educational work is now well recognized by all business interests. The problems of the farmer are the problems of the nation, and the trend of public opinion toward a higher appreciation of the possibilities of agriculture presages the beginning of a new era in the development of the American Continent.

Some doubt exists regarding a shortage of beef supplies, but denial of a shortage is usually based upon a study of local conditions and market receipts. Although a shortage has been predicted for a number of years market receipts have continued such as to give an impression of increasing rather than diminishing supplies. It should be borne in mind, however, that market receipts are always swelled above the normal during periods of heavy liquidation. A closer study of market conditions than a mere comparison of numerical receipts reveals a wide-spread tendency among stockmen to get out of business. Abnormal receipts of breeding cattle and heavy marketing of calves from the range country are factors that have more than a numerical significance. Weight is also a factor. Steers are marketed younger, and the individual carcass does not figure so extensively in the output of beef as in former years. Even with the heavy marketing of recent years meat production has fallen behind consumption. Demonstration of this is found in present market conditions. So limited is the supply that butchers are buying light cattle at prices which are considered prohibitive by cattle feeders. A world-wide shortage of meat supplies and a rapidly increasing population justify the prediction that extreme low values for live stock are a thing of the past.

Government statistics are not always taken seriously. They, nevertheless, portray comparative conditions as existing in different periods of time. Recent reports issued by the Department of Agriculture show a decrease of 5,000,000 in the number of meat producing animals in the United States during the last ten years, while our population during the same period has increased about 12,000,000. The greatest decrease in beef animals has been within the last three years. The report shows that since 1907 there has been a decrease of 4,287,000 in the number of beef cattle. These are figures that should be seriously studied by every stockman before dispersing a herd of breeding cattle.

The principal factor standing in the way of immediate wide-spread revival of interest in cattle breeding is the prevailing impression that land values are too high for the profitable production of beef. The problem, however, lies more in an adaptation of animal husbandry to present day conditions than in the high price of land. Exclusive stock raising, made possible

by cheap grazing lands, preceded the straight grain raising policy of today. Either extreme is undesirable. The country is now in a process of agricultural readjustment, and when the production of meat animals becomes a supplementary factor in farm practice with the production of grain, we may look for still further advances in the price of land.

While there will always be periods of depression—and this is true of every industry—it is safe to say that never again will live stock breeding experience such unfavorable conditions for its development as during the last ten or fifteen years. During this period of time, however, many farmers in every section of the corn belt demonstrated that intelligent beef production is more profitable than exclusive grain growing. An Illinois farmer, in a recent conversation with the writer, made the following statement: "My farm, which I purchased about eight years ago, had been for several years previous to purchase under a system of tenant farming, and was considerably run down when it came into my possession. I brought with me to the farm a herd of pure-bred Galloway cattle. My neighbors insisted that the land was too valuable for cattle raising, but I have persistently maintained a system of crop rotation which included pasturage for my breeding herd. The productiveness of the farm has increased from year to year; I now raise more grain on 120 acres than my neighbors do on 160; the 40 acres devoted to pasture represent additional profit, for I practically winter my cattle on what ordinarily goes to waste on the average farm." This is only one of many concrete examples that may be cited to show that the live stock production when combined in an intelligent and practical way with grain growing is the secret of successful farming. A straight grain raising policy tends toward soil impoverishment. We are not raising too much grain, but we are devoting too many acres to its production. The total output of grain has increased in recent years, but there has been an alarming decrease in the yield per acre, and unless we increase the number of farm animals there will be a further decrease in the per-acre yield until it is insufficient to meet the cost of production, even though present grain values continue. It must be borne in mind, however, that any considerable reduction in the number of farm animals will tend toward a depreciation of grain values below cost of production. This fact is more readily appreciated when it is known that about 80 per cent of our corn is consumed by live stock. Systems which combine live stock with grain farming are the only systems that prevent soil impoverishment, and they are the only systems that maintain an equilibrium between prices of grain and farm animals. Better blood, better pastures, and an abundant variety of cheap winter forage are the underlying elements of economical beef production.

The decline in beef production has been especially noticeable to those who have been connected with the pure-bred cattle industry. There has been a decreasing demand from the old-time cattle raising sections of the country for pure-bred bulls; thousands of head of registered cattle have figured in the receipts of the various markets; and many of the larger and older herds have long since been dispersed. A writer, in an article which recently appeared in one of the farm papers, made the statement that in a study of the herd books of one of the larger pedigree record associations he found that less than ten per cent of the breeders who were recording cattle eight years ago have remained in the business. This continual change in ownership of registered herds is not indicative of a healthy condition, nor does it tend toward the general improvement of a breed. There has been little incentive in re-

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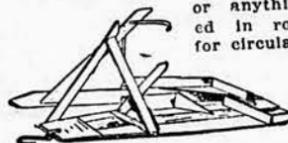
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See Field Note in this issue.

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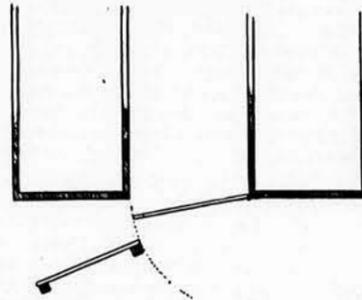
bred cattle to devote time and study cent years for the breeder of pure to the business, but the breeder who has striven from year to year to improve his herd is soon to reap his reward. Agricultural papers and experiment stations are educating our people to a higher appreciation of pure-bred stock on the farm. The beef supply of the future must come from small herds, and the demand for pure-bred bulls of the beef breeds will become more and more a factor in the agricultural development of the country.

It is a matter of dispute as to whether dairying or beef production is the more profitable. No one denies the right of the dairy industry to a high place in American agriculture, but it is altogether misleading to claim that the dairy herds must become the base of supply for the beef output of the United States. There will always be a wide demand for beef that can be produced only in herds maintained and developed strictly for that purpose. The many kinds of live stock and the many ways of combining animal husbandry with grain growing permit an endless number of systems of farm management. There is no BEST system, just as there is no BEST breed of stock. The choice is with the farmer, and he must be governed by his own inclinations and an intelligent knowledge of conditions, local and universal. The highest development of our agricultural life is dependent upon a multiplicity of systems which shall meet the demands of local conditions and variable markets. There is no immediate prospect of over supply in any product of the field or farm, and the opportunities of farm life were never so abundant as now.

The revival of interest in live stock presents new opportunities to breeders of Galloway cattle. Farmers are seeking practical and definite information in regard to the most economical methods of beef production. The Galloway as an economical producer of beef is unexcelled. The hardiness and the adaptability of the breed to make excellent use of the cheaper and coarser feeds are assets of which no other breed can boast. The Galloway breed has a permanent place in the field of beef production, but the permanency of its position depends in a large measure upon the practical, intelligent work of the individual breeder. There is room for the development of all the beef breeds, and if there ever was a time when breeders were justified in discontinuing stock raising, that time has passed.

R. W. Brown, Secretary American Galloway Association.

Herewith is a drawing showing the handy way by which Mr. D. W. Evans of Fairview, Kan., handles his hogs in transferring them from one lot to another. The drawing is intended to show the barn, on one side of which is arranged the stalls for the live stock and on the other the grain bins with a passageway between the two. In the rear of this barn he has a number of swine pens and at the right of the front of it his hog house. As shown by the drawing, he has built a chute in front of the barn which connects with the hog house and which



is opened or closed by the barn door. Only two posts are shown in the chute, as this is enough to show the idea. The curved line is intended to show the swing of the door. When the chute is in use for the transferring of the hogs from the hog house to the feed lots in the rear of the main barn, or for transferring brood sows from the field to the farrowing pens, the barn gate is attached to the posts at the end of the chute by a chain, which is provided with a simple attachment for fastening. If it is desired to drive a team through the barn, the door is swung clear and the chute is not in the way of any ordinary vehicle. This is one of those little conveniences which add so much to the efficiency and comfort of farm

life and which may always be had by simply taking thought and doing a little work. By setting the first post so that the gate will strike it, this same idea may be applied in pasture gates all over the farm, where it is desirable for persons to pass without allowing stock to get through. Such a gate will need no latch as it will strike against the post on either side and admit of the passage of any one without allowing even a pig to get by.

Pasturing sorghum, Kafr corn or Johnson grass is very dangerous, particularly during or following a dry season. All these are varieties of sorghum and this family of plants seems to have the power to secrete Prussic acid, which is one of the most deadly poisons known. The second growth of these plants is especially dangerous and the poison acts so quickly that there is no known remedy. In curing sorghum hay the poison seems to be eliminated and no danger need be anticipated from feeding it when thoroughly cured.

HORTICULTURE

The Hardy Catalpa.

Catalpa speciosa, or hardy catalpa, is the only variety of catalpa recommended for Kansas planting. Catalpa catalpa, or Southern catalpa, and hybrid species do not succeed well in this climate. They are slower in rate of growth and more inclined to be shrublike and branching than Catalpa speciosa.

Catalpa seed should be sown in the spring, in a seed bed of finely pulverized soil, prepared as for garden purposes, and should be lightly covered, say from a depth of one-half inch to one inch. It is advisable to sow at the rate of about 25 seeds to the foot, in shallow drill rows run about three feet apart, to permit horse cultivation. Grass and weeds must be rigorously kept down, and the rows cultivated with the hoe until the fourth or fifth leaf appears on the young seedlings, when the cultivator may be used for the remainder of the season. After the leaves have dropped in the fall, the trees, which should have reached a minimum height of from 18 to 24 inches, should be dug, tied in bundles of about 100 trees each, and "heeled in" for the winter in dry, fine earth, closely packed, so as entirely to cover the bundles. Care must be taken that the location be such as not to permit the accumulation of standing water about the roots.

At the end of one year the seedlings may be transplanted to the permanent plantation. Yearling stock is considered most successful and few nurseries handle any other. The land for the permanent forest should have been under cultivation for at least one year. Prairie sod turned under early in the season, and allowed to remain until the following spring, will answer the purpose if put into a good state of cultivation. If land previously in cultivation be used, it should be thoroughly and deeply plowed the preceding fall, and well harrowed just before time for planting.

In the catalpa plantation at the Hays Branch Experiment Station, the seedlings were set five feet by six feet apart, which is a very good distance unless it is desired to use two-horse tools in cultivation, when four feet by seven feet will be found a better distance. Cultivation should be continued until about the last of August, to retain the soil moisture and keep down the weeds. Any weeds that appear after August will be caught by the frost before they go to seed. It must be remembered that a forest plantation requires in its early stages the same care and cultivation as a corn crop, and this care in the case of catalpa must extend over the first three or four years of the tree's life in the forest. During the first two years intermediate crops, such as corn, cowpeas, soy beans, etc., may be grown between the rows, thus paying for the cost of cultivation. After two years in the permanent plantation the trees may be cut back to the ground. From the stumps strong, vigorous, straight shoots will spring up. Of these the best are allowed to grow for the future posts or poles.

Catalpas are not adapted to high, dry uplands, but require fairly rich, moist soil. Good corn land is considered best for catalpas, and thorough cultivation and care are required for best success.—Prof. Albert Dickens, Horticultural Department, State Agricultural College.

DAIRY



Fertility can be built up faster upon the dairy farm than upon any other kind of a farm.

With the dairy farmer it should not be a question of building one silo, but whether or not two should be built.

When buying cows for the dairy select those having every indication of being milk producers, but determine this positively by the use of the Babcock test, and the scale.

Director Webster is temporarily in charge of the dairy department of the Kansas State Agricultural College while the department is without a permanent head. Prof. Kendall resigned to go to New Hampshire.

The average cow produces approximately 150 pounds of butter fat per year. With proper care, proper feeding and proper selection, she is capable of producing from 275 to 300 pounds of butter fat per year, which means an additional net revenue of from \$25 to \$40 per cow each year. What kind of cows are yours?

The centrifugal hand separator is a farm necessity. Whether butter is made on the farm or cream sold the creamery the use of the separator is necessary to obtain the greatest profit from the dairy. The separator produces a product of highest value, it doubles the value of the skim milk for feeding and saves more butter fat than by any other method of separating the cream.

Fall fresh cows yield the greatest profit. If the cow is about to come fresh feed her well. A feed of green roughage night and morning a month before freshing will pay, provided of course that the pastures are not good, as they are likely not to be in the fall. After freshening feed to get the largest milk flow and to sustain that flow during the winter. A milk flow lost is difficult to regain.

A very important part of dairying is to make it profitable all the year around. In order to be successful you must imitate in winter what nature provides in summer, such as permitting plenty of sunlight to enter in the stables, as sunlight destroys germs, warm quarters with plenty of fresh air, clean water with the chill taken from it, succulent feed, such as ensilage, clover or alfalfa hay, and a reasonable amount of other grains that can be grown on the farm.

A big demand is being made on the dairy cow to supply the sweet cream necessary for the rapidly increasing consumption of ice cream. Within the last few years the consumption of ice cream has increased in Kansas 100 per cent. There has also been a corresponding increase in the consumption of milk and cream on the table. Dairy products will increase in their use year after year. They furnish nutrition at less cost than beef, pork, etc. There is no danger of overdoing the production of milk.

Governor Hoard on the color question. "If grass had produced green butter, the oleomargarine people would be coloring their product green. It has been said where substitution is possible, fair competition is impossible. The dairy interests of the country do not object to the selling of oleomargarine as oleomargarine; it is not jealous of its competition, but coloring the stuff yellow permits fraud; does away with competition. Dairymen are not trying to annihilate oleomargarine but the fraud it has created."

Wisconsin has a law prohibiting the placing of a hand separator in the barn. There is justice in case that separators are operated in the open barn, or not placed in a room which can be kept sanitary and preventing the cream from taking up the dust of the barn. Dairying has been much abused by the careless handling of

the cream separator. There is no excuse for being less careful in the degree of cleanliness observed in the operation of the separator than in the making of butter. No housewife would set milk in the barn while the cream was raising, or would do the churning in the barn. The operation of the cream separator in the open barn is a rare occurrence.

The Advantage of Silage Over Other Feeds.

There are several points which every cow owner would do well to consider if he is to get the best milk yield and reap the greatest profits from his herd. In the first place, a cheap ration must be provided, one that can be raised upon the farm; secondly, it must be well adapted to milk production and fed liberally.

As a rule, the greater portion of the feed can be raised at home which always lessens the cost of production. For that reason, corn silage has come to be recognized by nearly all stockmen as the most economical feed the farmer can raise. To show this more clearly we will figure the actual cost of feeding an average herd of ten cows from the time the pastures fall in the fall until grass comes in the spring, or a period of some 240 days.

The amount of silage necessary for 10 cows for the given period, allowing an average feed of 40 pounds to each cow per day would require 48 tons. The average yield of green corn per acre in North Dakota is close to 8 tons. At this rate, 6 acres of corn would furnish a sufficient amount. The United States Department of Agriculture estimates the average cost of raising an acre of corn to be \$11.07, and reliable authorities figure the cost of putting corn in the silo to average about 75 cents per ton. Then we may arrive at the actual cost of the feed as follows:

Cost of raising 6 acres of corn.	\$66.42
Cost of harvesting 6 acres of corn.	36.00
Total.	\$102.42
Cost of silage for 10 cows 240 days.	\$102.42
Cost of silage for 1 cow 240 days.	\$10.24
Cost of silage for 1 cow one day.	4 1/4 cents.

According to the best authorities on animal feeding the leaves and the stalks contain about 37 per cent of the food value in the corn plant which is practically a total loss if the ears only are fed. A 100 pounds of silage contains 13 per cent or 13 pounds of food material, at which rate 48 tons would contain close to 11,480 pounds. If this amount of food material were furnished in the form of:

Prairie hay, would require 11 tons, at \$12 would cost \$132.
 Timothy hay would require 12 tons, at \$18 would cost \$216.
 Oats hay, would require 11 tons, at \$15 would cost \$165.

The economy of feeding ensilage is even more striking when we compare the cost of a ration made up largely of grain and one where a part of the oats, corn and bran are replaced by corn silage.

GRAIN RATION.		
	Pounds food material used.	Cost per day.
10 lbs. prairie hay	4.7	.06
2 lbs. oats hay	1.2	.03
6 lbs. bran	3.3	.06
4 lbs. corn	3.2	.05
1 lb. linseed meal	6.9	.02
23	19.3	.22
SILAGE RATION.		
40 lbs. silage	5.2	.04
10 lbs. prairie hay	4.7	.06
4 lbs. bran	2.2	.04
1 lb. linseed meal	6.9	.02
55	19.0	.16

The above rations are figured for the average dairy cow and each contains practically the same amount of food material. It is noted that there is an actual saving of 6 cents per cow per day. With a herd of 10 cows, this represents a saving of 60 cents per day or for 8 months, the average time a dairy cow would be fed would mean a saving of \$144 in cost of grain or \$14.40 per cow.—Prof. G. L. Martin, North Dakota Agricultural College.



TWO KINDS OF CHEAP CREAM SEPARATORS

There are two kinds of cheap cream separators. One is the SEEMINGLY cheap kind, cheap in first cost, cheap in design, cheap in construction, cheap in efficiency, cheap in durability, and cheap in everything but merit.

The other is the REALLY cheap kind, cheapest in proportion to actual capacity, original in design, ideal in construction, perfect in efficiency, lasting for twenty years, and barely beginning where the other kind leaves off.

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which compared with other cream separators is simply in a class by itself.

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You can't afford to overlook the LOUDEN Hay Carrier—that is if you want a carrier that will never break down; that you do not send away for repairs every now and then. Years of hard usage by thousands of farmers have proven this to such an extent that they will not buy any hay tools, forks, slings, tracks without the name LOUDEN on them. Never any bind-

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Include in your list every single article you need to build or improve. It makes no difference whether you need a full carload or not, we will save you money. Our stock includes everything used in building, and it is good material too, nothing better made. Every dollar's worth is covered by a binding guarantee. Thousands of satisfied customers everywhere. Our Capital Stock and Surplus is over \$1,000,000. We have a complete stock of Plumbing Material, Heating Apparatus, Hardware, Fencing, Furniture, Carpets, Rugs, Office Furniture, Pipe, Culverts, Structural Iron, Machinery, Dry Goods, Clothing, Groceries, Shoes, etc., etc. WRITE FOR OUR FREE 1000 PAGE ILLUSTRATED CATALOG No. L. H. 61 CHICAGO HOUSE WRECKING Co., 35th and Iron Sts., CHICAGO.

Stem blight is a new alfalfa disease which has been affecting the alfalfa fields of Colorado and other western states and which has proved to be most serious in its effects. This disease is fully described in Bulletin No. 159 of the Colorado Experiment Station, Fort Collins, from whom it may be had.

Indemnity for Tuberculous Cattle.

The question of a proper and satisfactory indemnity for tuberculous cattle which have been destroyed by the state veterinarian is a vexed one. As such cattle are destroyed for the public good and as the public will benefit by their destruction to a greater extent than will the owner it does not seem right or just that the owner should suffer the entire loss when the animals are killed by officers.

On the other hand, it is a difficult matter to get an accurate and equitable estimate of their value and the consequent amount of the owner's loss. Many men will place a higher

value upon such condemned animals for which the state is to pay than the facts would seem to warrant, and in solution of this question Dr. Burton Rogers, secretary of the Kansas State Veterinary Association, suggests that every tuberculous cow that may be thus officially destroyed should be replaced by one of equal value and productive ability as shown by tests. This would involve, of course, the purchase by the state of a large number of cows of the different breeds and their crosses and grades. It would involve the keeping of these cows at some central point under control of the proper officers and the cost of their maintenance at public expense. It would therefore seem, in view of our well known antagonism against the creation of new public offices and the increase of taxes, that this suggested method should be further elaborated before its serious consideration.

Anyone not now a subscriber can secure Kansas Farmer on trial the balance of 1910 for the special introductory price of 25 cents. Stamps will be accepted.

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See our Mastiff show stuff at the Topeka, Kan., State Fair. This stuff is fully competent to reflect the high character of Mastiff Breeding Farm sale stuff. It is the rent-paying and dividend-producing kind. 50 very choice pigs out of richly bred matured sows for our

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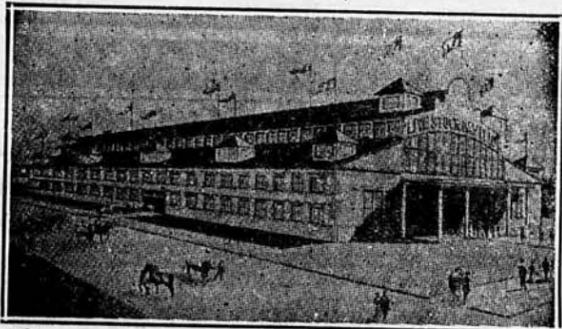
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Directory of Seed Wheat Growers

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Buy Your Seed Wheat From These Advertisers and Be Assured of Quality and Fair Dealing

County.	Name.	Address.	Variety.	Bushels for sale.
Ellis.....	H. J. Penny.....	Hays.....	Kharkof.....	4,000
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For 13 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price, \$2.00 per 15, or \$5.00 per 45, and I prepay expressage to any point in the United States.

THOMAS OWEN,

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for used stamps and money dated before 1890. Catalog of prices paid for old coins 10c; used stamps 10c. Both 15c. Many fortunes found in used stamps and coins. A. B. Kraus, 413 Chestnut St., Milwaukee, Wis.

POULTRY RANCH FOR SALE.

One of the best poultry ranches in the state. Two acres adjoining Washburn college Campus, 9 room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades.

POULTRYMAN, Kansas Farmer Office.

D. W. YOUNG STRAIN

of S. C. White Leghorns, prize winners at three state shows. Eggs, \$1.50 for 15; \$5 per 100. Banded Rocks, "Ringlet" strain, \$2 for 15. Eggs packed with care.

C. H. McALLISTER, Carmen, Okla.

FARM INQUIRIES



ANSWERED BY
Prof. A.M. Ten Eyck

I tried the sowing of winter wheat this spring and wrote you about it; it never jointed; only stooled itself to death. If fall wheat must freeze or pass through that "cycle" in order to joint and before it joints; tell me why farmers in Oklahoma and southern Kansas pasture wheat in the fall to keep it from jointing; and others refrain from sowing early on account of fearing it will "joint." According to our experience they could sow in August and it only would stool and nothing more; is that theory a mistake?—D. E. Reber, Morrill, Kan.

I expected the result which you describe from sowing the winter wheat in the spring. Wheat may make too much growth in the fall. If it joints it is apt to winter kill. You have doubtless observed wheat destroyed by late frost in the spring. But frost will not kill the wheat in the spring until after it has jointed. Unless wheat can be profitably pastured, it is advisable not to sow so early that the wheat will make sufficient growth to "joint" in the fall. The jointing may occur in the fall after the freezing, probably not before.

I have sent you an order for Kharkof seed wheat, and would like some information in regard to preparing the seed-bed.

I have plowed my ground early; finished plowing the later part of July; disced some of the ground before plowing, have furrowed all the ground twice, once after each heavy rain. The ground seems to be getting quite firm; I was afraid it would get too hard and solid before seeding time.

What would be the better for loosening the ground, a disc harrow or a pulverizer? I have a good pulverizer, something on the order of an Acme harrow. It puts the surface of the soil in fine condition to the depth of 1½ inches, but does not work the soil below this depth. Some tell me that I should use a disc harrow, while others say that a disc tears up the soil to too great a depth and has the same action as late plowing. If you would kindly put me "right" on the subject, you would greatly oblige a former pupil of yours and a warm admirer of your work and methods.

Thanking you in advance for this information, I am Lawrence Riley, Mentor, Kan.

I am mailing you Experiment Station circulars No. 2 and No. 3 on seed wheat and seed-bed preparation for wheat. The slicking of the surface of the ground with a smoothing harrow is apt to cause the surface to become too smooth and hard as you suggest. Prefer to use the disc harrow for early cultivation soon after plowing. The deep cultivation has the effect of pulverizing and settling the bottom of the furrow slice. The later cultivation should be more shallow and should be accomplished with the Acme harrow or with the common straight tooth harrow. It is often advisable to weight the common harrow in order not to leave the surface too slick, the slick, smooth surface tends to throw off the rains and such surface is apt to become hard and packed with heavy rains. In certain light soil the smoothest surface is also more apt to blow.

The ideal seed-bed should be loose only about as deep as the seed is planted; beneath the seed the soil should be firm, but well pulverized and not too hard. In a deeply loos-

ened seed-bed, the seed should be planted a little deeper so as to give the seed favorable conditions for germination. The firm soil beneath the seed causes the water, which is in the subsoil, to be drawn up to the germinating seed and young plant roots. Wheat should usually be planted 2½ to 3 inches deep, measuring from the top of the mellow soil to the bottom of the seed furrow, but in light, loose dried soil, deeper planting may sometimes be advisable. We are double discing all of our early plowed wheat fields for the purpose of destroying the volunteer wheat and weeds. The soil is being loosened to the depth of about 4 inches; rather too deep loosening, but this thorough discing seems necessary. Later we intend to cross these fields with the Acme harrow or the common straight tooth harrow; the Acme is preferred, except on fields which are too trashy. The Acme harrow is an excellent weed killer and does good surface cultivation, but it does not work satisfactory on trashy ground.

I am thinking of breaking thirty acres of sod ground this fall. Would like to know the best crops to put on this ground next spring. Would corn be all right on first sod? I have an acre and a half of alfalfa that was sowed the 10th of last September; about the 8th of June it was hurt by hail; it was about knee high but the hail beat it down so that I mowed it, but it hasn't grown much since; seems thick enough and looks sickly. The alfalfa is on sandy soil. Any information given will be appreciated.—O. J. Duncan, Coffeyville, Kan.

Corn is a good crop on sod land which is broken early in the fall, provided the breaking is well done and the sod is well killed, which will destroy the cut worms, also the sod will decay and the soil may be pulverized well in the spring by disking and harrowing. There is some danger of planting corn on sod land that it may be destroyed by cut worms. This is more apt to occur from planting on spring breaking. If there is danger of cut worms in this field it will be advisable to disk several times in the spring and plant rather late, say from the middle to the last of May, since by that date the cut worms will have largely disappeared.

You may also plant cane or Kafir corn on this new ground; these crops are planted later than corn and are seldom bothered by cut worms, also they are gross feeders and do well on sod land. Cow peas, flax and millet are also good sod crops.

The check in the growth of the alfalfa by the severe hail storm may have something to do with its slow start and sickly growth. I rather suppose, however, that the condition of the alfalfa is more likely due to soil conditions. Perhaps a good dressing of barnyard manure will give the alfalfa a new start; this may be applied after cutting or during the fall or winter. Perhaps the bacteria which live on the roots of the alfalfa are lacking, the presence of which is absolutely necessary in order that the alfalfa thrive. I am requesting the director of the Experiment Station to mail you bulletin 155, giving further information on alfalfa culture.

The law of the United States that butter must not contain more than 16 per cent of water, has been adopted in England. New Zealand and Australian butter makers have been prosecuted for shipping to London butter showing water in excess of 16 per cent.

Editor Kansas Farmer:

I have received your advertising pamphlet and have examined it with much interest. It is an attractive exposition of the results of advertising. In noticing the large amount of advertising in the Farmer I have often wondered if it paid the people who put it in. It seems that it pays some of them at least. Yours truly,

DR. J. T. WILLARD, Chemist State Agricultural College.

POULTRY Reader's Market



CLASSIFIED ADVERTISING

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Nature intended that the hen should work or exercise for all she eats. Therefore, we should induce them to exercise for about all food given them. The hen on the open range will often work all day in filling her crop, and when night comes she has just succeeded in supplying her desire for food.

Right now is the time to dispose of the superannuated pet hen which has ceased to be sufficiently productive to pay for her keeping. A young hen or pullet may be fed until she is as fat as butter and will lay right along, but an old one, on the same keep, or even a good deal less, will get too fat and lazy, and will not produce enough eggs to pay for her room rent, let alone her board.

Poultrymen are bothered these days with a surplus of sitting hens. A valuable practice often published and which most egg producers know of, but few follow, is to change the quarters of the laying hens when a few commence to sit, an indication that the flock has about laid its litter of eggs. In a strange place, laying will cease at once, and no more fowls will show an inclination to sit. After a rest of a week or ten days the eggs will begin to pour into the basket again, and laying will continue a long time before any hens sit. Thus by exchanging houses with two or more flocks, nearly double the number of eggs will be produced than the hens would lay otherwise before sitting, and the expense of idle hens and annoyances of sitters be dispensed with. Of course, if distances between the places is great, so much the better.

At this season of the year chicks are feathering very rapidly, and the best of care must be given them, for this period is very hard on the system, and unless they are kept scrupulously free from lice the drain upon their system from this cause, the growing of feathers, and the effect of the hot weather, soon reduces them to a peeper or runt, from which they never recover. Although they appear hardy and well-grown later on, the effect of having passed through this trying time will make a difference of from one-half to one pound in the weight of the specimen, which it never regains. Whenever chicks grow their flight-feathers so rapidly as to cause them to extend out beyond the length of their body, with an inclination to droop, then there is a tendency to stunting. Be particular to determine positively that the failure of the body to grow in proportion to flight-feathers is not due to the chicks, the mothering hens or their quarters being lousy, which would cause this condition; if not, you can ascribe it to an inclination to indigestion, caused by improper feeding. A partial correction of this trouble is in feeding. No corn in any form for a week or ten days, less whole grain, more bread and milk, meat scraps, rolled oats and bran, slightly moistened with milk, and never feeding them as much as they want at any time, but feed oftener and make them want for more all the time. Then pull the drooping flight-feathers out of the wings. Mind you, the flight-feathers only, not the secondaries, which is a great assistance in allowing the nourishment necessary to continue the growth of the flight-feathers to go to the upbuilding of the impoverished system, and by the time these feathers begin to grow again the vitality of the chick will be much improved, and the possibility of its becoming a worthless runt very much lessened.

Grass for Poultry.

Many experiments have been made at the various experiment stations of foods, and in all of them grass has been found to be a valuable and cheap food for poultry. Where fowls are kept in small plats of ground and portions of it sowed to some kind of small grain or where the fowls may run on grass, it will be found to take well with fowls as a steady diet.

Fowls can be seen eating at grass almost all day and when it gets pretty short, they, like other kinds of farm stock, will put their heads through the fence and get every blade of grass within reach. This demonstrates that the fowls like the grass and that they will eat large quantities of it when they seem to be abundantly supplied with grain and other food. When fowls have a large or open range, we are liable to overlook the amount of grass they consume, but you confine them to a small run and you will see that it will be bare of grass in a very few days. When on the range they eat grass as well as they do gravel. It is not considered necessary to feed very heavily of other rations when plenty of grass is obtainable. Neither is it economical to do so. Green food is a very good food for poultry in winter as well as in summer. Second crop clover or any other kind of grass when cured into hay will make an excellent food for laying hens. People living in towns and cities, who keep poultry, will find lawn clippings dried and stored away a very good thing to feed laying hens during winter. But there is nothing in the grass line that is better than alfalfa for layers either summer or winter, green or cured. In every hay mow where alfalfa is stored will be found a great quantity of leaves that have dropped from the alfalfa stems. Now these leaves are the very best part of the alfalfa plant, and if scalded with water and a little corn meal mixed with it, will prove the very best kind of egg-making food. Give all kinds of grass a chance to help the poultry and especially alfalfa.

It is said that crude carbolic acid dissolved in boiling water and sprinkled about the barn or henhouse is sure death to fleas and mites. Use fifteen cents worth of the carbolic acid to a bucket of water.

Don't feed dusty hay to horses. If you have no other kind sprinkle it with water just before feeding. Many horse troubles may be traced directly to dusty hay and these are much more easily prevented than cured. The horse is a machine and, like all other animals, should be kept in good working order.

THE IOWA STATE FAIR.

(Continued from page 1.)

becomes dominant, though it is always strong. Another feature in which the management and the citizens take pride is the sacred concerts which are given on Sunday by the expensive bands which are always employed to furnish music during the week. The fair proper is not opened on this day, although the visitors have the privilege of strolling about the beautiful grounds and admiring the splendid buildings and the work of the landscape artists. A small admission fee is charged on Sunday and the highest class of music is furnished to the thousands of visitors who throng the grand stand on that occasion. This feature is unique.

One of the strong features which always impresses the visitor at the Iowa State Fair is the fact that it is a clean institution. Disreputable shows, gambling and other immoral or questionable things which have found a place only too often on the grounds of other fair associations have been conspicuous by their absence at Des Moines. To this is attributed in part the remarkable success which has been attained in our sister state.

Because of this success, because the Iowa State Fair is a model of its kind, and because of its high worth as an educational institution to the people of that state, it may well become a model after which Kansas can and should pattern.

Anyone not now a subscriber can secure Kansas Farmer on trial the balance of 1916 for the special introductory price of 25 cents. Stamps will be accepted.

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. The "ads" are easy to find and easy to read. Your advertisement here reaches a quarter million readers for 3 cents per word, for one, two or three insertions. Four or more insertions; the rate is 2½ cents per word. No "ads" taken for less than 30 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms always cash with order. Use these classified columns for paying results.

HELP WANTED.

WANTED—ECONOMICAL AND PARTICULAR people to take advantage of our prices and services. Western Printing Co., Ptg. Dept. of Kansas Farmer, Topeka, Kan.

WANTED—LOCAL MEN TO TAKE ORDERS for high grade western grown nursery stock. Experience unnecessary. Outfit free. Cash weekly. National Nurseries, Lawrence, Kansas.

REPRESENTATIVES WANTED FOR SOLICITING trade work in fine watch, jewelry repairing and artistic engraving. In towns where there are no jewelers; good pay; druggists or storekeepers preferred. Watchmakers, Jewelers' Association, 128 State St., room 910, Chicago, Ill.

REAL ESTATE.

BUY OR TRADE WITH US. SEND FOR LIST. Berste-Meredith, Eldorado, Kan.

180 ACRES, 3 MILES OUT, TERMS EASY, \$2000. W. E. Burk & Son, Topeka, Okla.

FOR RENT OR SALE—IMPROVED 40; good land. N. Burns, Carbondale, Kan.

BUTLER AND HARVEY COUNTY LAND bargains. Write H. Mellor, Whitewater, Kan.

EXPERT GARDENER WANTS TO lease farm with buying privilege, near good market. Paul Cserny, Oconomowoc, Wis.

WE CAN TRADE YOUR PROPERTY— Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

EXCHANGES, QUICK SALES, LARGE list. Address Room 1, Continental building, Omaha, Neb.

WHY PAY RENT? GOOD LANDS, healthy, \$5 to \$20 per acre. H. J. Hall, owner, Waldron, Ark.

WANT TO PURCHASE—UNIMPROVED, good, low priced western Kansas land, for speculation. Price must make them a special buy or snap. Land Investment Company, Chanute, Kan.

FARM LOANS MADE IN ANY AMOUNT from \$500 up at lowest rates and on most favorable terms. Betzer Realty & Loan Co., Columbian Bldg., Topeka, Kan.

OWNER OF RICH WESTERN LANDS wants agents to sell the same; adjoining lands paid for this year by broom corn alone. C. A. Miller, Deerfield, Kan.

IMPROVED FARMS—WE HAVE SOME exceptional values at from \$30 to \$50 per acre. Write for lists and descriptions. Mound Valley Land Company, Mound Valley, Kan.

2 MILES FROM KANSAS STATE AGRICULTURAL College. Choice bottom tracts 5 a. or more. One mile from Manhattan. Easy terms. A. M. Jordan, Owner, Route No. 4, Manhattan, Kan.

COLORADO LAND—50 MILES FROM Denver, near Deer Trail, Colo., 2 sections; fenced; abundance of water; near school; \$10 per acre cash. Snap. Thomas C. Scott, Owner, 392 Boston Bldg., Denver, Colo.

TILE BROOK FARM HAS FOR SALE yearling Hampshire rams. Sired by an imported Coles ram that was first and champion at four state fairs. E. E. Hazen, Hiawatha, Kan. Four or five barrels of pure cider vinegar, 2 years old, for sale.

COLORADO LANDS, LANDS IN ALL parts of Colorado, Rain Belt, Dry Farming and Irrigated lands, in Ranch, Garden and Fruit Tract, cheaper than any one else. Ask questions and state your wants. The Eastern Colorado Land Co., Limon, Colo.

TEXAS GULF COAST PRAIRIE LAND for sale; close to railroad and good schools. In all size tracts and at reasonable prices. Apply to G. T. Reinhardt, East Bernard, Texas.

OREGON INFORMATION—FOR AUTHENTIC detailed information concerning fruit growing, dairying general farming, manufacturing and business opportunities in any part of Oregon. Address Portland Commercial Club, Room 642, Portland, Ore.

YOU'LL LIKE LINN COUNTY, KAN.— For we have abundance of coal, wood, natural gas and good water. And the land raises magnificent crops of alfalfa, timothy, clover, bluegrass, oats, corn and wheat. R. F. D. and phone at your door. Prices range from \$20 to \$80 per acre. Write for list of farms for sale. A. E. Root, Pleasanton, Kan.

BEST FARM BARGAIN IN LABETTE Co., Kansas; 188 a. fenced and cross fenced; water abundant; new 8-room house, well finished; cistern; large barn; granary; implement house; 96 a. cultivated, part sown to alfalfa and timothy this week; \$7,500; no commission to pay. Write James Lear, Jr., Mound Valley.

HOGS.

20 SPRING DUNOC BOARS Sired by a son of Kant Be Beat and Young Orion. Also Shropshire rams. Price low. A. G. Dorr, Osage City, Kan.

HORSES AND MULES.

FOR SALE OR TRADE—FOR CATTLE or sheep, six jacks, 2 to 6 years old, good colors, 14 to 15½ hands high; one registered Percheron stallion, wt. 2,000 lbs., black, 5 years old; good breeder; can show colts. J. C. Hentzler, Route 3, Topeka, Kan., 1-3 mi. south of fair grounds.

SHEEP.

FOR SALE—125 IMPORTED AND home bred Shropshire ewes and ram lambs. The best of breeding at reasonable prices. J. W. Johnson, R. No. 3, Geneseo, Kan.

SHROPSHIRE SHEEP, SPRING RAMS, of best of breeding and quality at reasonable prices for quick sales. E. P. Gifford, Beloit, Kan.

CATTLE.

FOR SALE—BUTTER BRED HOLSTEIN- Friesian bull calves by J. P. Mast, Soranton, Kan.

FOR SALE—A CHOICE REGISTERED Holstein bull calf, 8 mos. old. J. S. Sumner, Lane, Kan.

FOR SALE—BAR V. HADRIA LAD NO. 69443, Holstein-Friesian bull, 5 months old; well grown. For price and breeding write W. E. Bentley, Pen Dennis, Kan.

POULTRY.

BUFF ORPINGTON STOCK FOR SALE— Mrs. R. C. Watson, Fredonia, Kan.

ORPINGTONS—BUFF, WHITE, BLACK, fine chickens, \$4 to \$15 per dozen. Mrs. Lizzie B. Griffith, Emporia, Kan.

DARK CORNISH COCK AND HENS; also White Cornish cock at half price this month and next. M. J. Van Eman, Box 2, Elgin, Ohio.

KELLERSTRASS SINGLE COMB CRYSTAL White Orpingtons; also Cook strain of White Orpingtons. Stock and eggs for sale. Mrs. R. A. James, Eureka, Kan.

FOR SALE—BLUE RIBBON STRAIN S. C. Rhode Island Red cockerels and pullets; low prices now to make room for winter breeders. C. W. Murphy, Lawrence, Kan.

FINE BARRED ROCKS—GOOD LAY- ers; farm range. Eggs \$1 for 15 or \$1.75 for 30, or \$5 per 100. Mrs. John Yowell, Moberly, Mo.

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POINTER PUPS, JUST RIGHT TO train; males \$10. Rodger Blanchard, Bennington, Kan.

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HOME CIRCLE



KERNELS.

The Corn Contesters' Slogan—Kansas

Away out here in Kansas We have good kernels true, With Kentucky we compete, But wear the ribbon blue.

Our good kernels are so gay They sometimes dress in red, Sometimes in white or yellow, Or deepest blue instead.

Tassel'd heads they proudly toss, And hold them straight and high. Verdant banners they will wave As every breeze floats by.

Our good kernels, too, will bring Dollars to a fellow. We'll cultivate the kernels Red, white, blue and yellow.

—Sarah A. Burgoyne, White City, Kan.

Cleanliness is a fine life-preserver.

Many a pretty light-colored dress has become faded and unattractive by frequent laundrings. When this happens it is a good plan to make them perfectly white. To do this boil them for twenty minutes in water to which cream of tartar has been added, one teaspoonful to a bucket of water, and then rinse them in cold water.

What To Do Before the Doctor Comes.

CONTUSIONS OR BRUISES.

Contusions are those injuries to the tissues of the body caused by their coming in contact with some blunt object. In simple or slight contusions the injury is confined to the area very closely surrounding the point of contact. In severe contusions the systemic effect or the shock produced may cause immediate death. In a contusion the external skin surface is not broken and only the underlying structures show evidence of injury. To a greater or less extent a contusion accompanies lacerated and incised wounds (where the skin is broken) and in many cases it is a very serious complication. Any of the structures below the skin may be injured by a contusion as the tearing of muscle fibers, rupturing of blood vessels, paralyzing of nerves or crushing of bones.

The part injured is tender on pressure and painful on movement. Swelling may take place at once from the rupture of a blood vessel or after a short time from the collection of serum to the part. There is always a certain amount of shock produced in some cases, as some contusions of the abdomen, may cause immediate death. After a few days, in most instances, the blood from the ruptured blood vessels finds its way towards the surface and the skin becomes discolored. This is very noticeably shown in cases of "black and blue" eyes. Sometimes the tissues have been so deadened that they break down and slough away or become infected and are destroyed by that means.

PREVENTIVE MEASURES.

As preventive measures for contusions, never strike any one about the head, face, or body, especially in the abdomen. Nearly every one knows how easily his wind may be "knocked out" even by a light blow in the abdomen.

In games, such as football, where contusions are liable to be frequent, protect the body by guards and pads as much as possible.

TREATMENT.

The best treatment for the contusion itself is absolute rest of the part for a short time. This may be procured by bandages, slings, splints or putting the patient to bed. Firm bandaging lessens the amount of swelling and favors its re-absorption. Cold in the form of icebags or cold water placed on the part also tend to lessen the swelling. Considerable caution must be used in the application of cold as the tissues are always a little devitalized by the contusion and the added slowing of the circulation by the cold may cause them to die and decay. Therefore, if the tis-

sues appear to have a low vitality, they should be kept warm by being surrounded by hot-water bottles and covered with warmed blankets and other covers.

After a few days the part should be massaged, kneaded, and moved about, slowly at first but with increasing force. Rubbing with some liniment as witch-hazel, arnica or soap liniment may also help some to improve the conditions at this time.

WHEN THE SHOCK IS GENERAL.

If the general shock is at all severe it must be treated by stimulants as aromatic spirits of ammonia, brandy or strong coffee. The patient must be kept warm by covers and some form of artificial heat as hot-water bottles or heated bricks. If breathing has stopped, as is so often the case in blows on the stomach, artificial respiration should be given at once and maintained continuously until the patient is able to breathe normally. Methods of artificial respiration will be given when treatment of drowning is considered.

A physician should be called in all cases where the shock is at all marked, as some serious injury may have been done to some of the internal organs.—William H. Bailey, A. B., M. D., Kansas University School of Medicine, Rosedale.



8739—Yoke Waist for Misses and Small Women.

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A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

SEASONABLE RECIPES.

Stewed Beets.

Dice cold boiled beets, put into a saucepan, cover with rich sweet milk, cook fifteen minutes, salt and thicken the gravy with browned flour.

Turnips with Cream Sauce.

Peel, slice in neat slices; boil until tender. Drain off water, pour over turnips a cream sauce in which there is one tablespoon sugar; let boil up and serve.

Cabbage.

Cut the cabbage as for slaw, put into a sauce pan and boil rapidly until done. Drain off the water and season with salt and butter, stir over the fire a few moments and serve.

Hash Cakes.

Chop equal parts of cold meat and potatoes, mix and dredge well with flour. Moisten with hot water, and drop by spoonfuls into a greased pan. Put a bit of butter on the top of each cake and bake a nice brown.

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1,280 ACRE IMPROVED RANCH. 7-room frame house, good barn, granaries and sheds, scale house, dipping vat, fenced, plenty water, 350 acres in cultivation, 14 miles from county seat, 2 miles to new town, on new railroad. A big bargain at \$25 per acre. KIRBERG & MILLER, Ness City, Kansas.

BARGAIN. In Artesian Valley, alfalfa land, 480 acres, all irrigated, 2 miles Fowler, 100 acres, only 5 to 12 feet to water, Artesian well, fine land; snap at \$40 acre, 1/2 cash, bal. 3 years at 6 per cent. I own other farms; will sell. E. L. WATTS, OWNER, Fowler, Kansas.

200 ACRES, 10 miles from Delphos, 40 a. pasture, 160 in cultivation, 175 can be cultivated, creek, plenty of fruit for family use. Good house, barn and outbuildings. One of the best corn and alfalfa farms; can be bought for \$75 per acre; 1/2 cash, bal. 6 per cent. Box 114, Minneapolis, Kansas.

180 ACRES, 1/2 mile from "Baker University" townsite; good rich black limestone soil; 9-room house, two barns, hog sheds, large hay barn, splendid corn and timothy land. Well worth the money. Price \$75 per acre. Wm. H. Holliday, Baldwin, Kansas.

FOR SALE—195 a., 6 ml. Garnett, 3 ml. Haskell, on Mo. Pac. R. R., 120 a. valley and slope land in cult., balance rough pasture with limestone rock on 1-3 of it, well fenced and cross fenced; new 6 r. house; splendid barn 32x12; 2 good wells; family orchard. A snap at \$5,500. New list free. Sewell Land Co., Garnett, Kan.

NORTHEASTERN KAN., \$45 PER ACRE. If you want to buy a good home, or make a paying investment, where corn, clover, bluegrass and staples grow to perfection, write or call on me. Can sell you improved farms for \$45 to \$65 an acre. ALVA HARDEN, Ozawie, Kansas.

COME TO LIBERAL. New Hats Seward and Stevenson Cos., Kan. Beaver and Texas Cos., Okla. Wheat and broomcorn land, \$10 to \$25. KAN. & OKLA. LAND CO., Liberal, Kan.

FOR SALE CHEAP—Good silo machinery nearly new, 12 H. P. gasoline engine, No. 1 Smalley ensilage cutter. Address C. C. White, Burr Oak, Kan.

FOR FREE information about northeastern or western Kansas lands, at low prices, on liberal terms, write to or see W. J. McCrory, Denison, Kan.

FOR SALE—Northeastern Kansas farms, western Kansas lands, income property, stocks of merchandise, etc. Write for full information. W. J. McCrory, Denison, Kan.

EASTERN KANSAS. Where clover, timothy, wheat and corn is king of crops, 80 smooth, improved. Price from \$40 to \$60 per acre. \$40 improved, a bargain, \$40. Write W. K. Shaw, Garnett, Kan.

ANDERSON COUNTY BARGAINS. 160 acres, good improvements, 4 1/2 miles good town, \$45 acre. Improved 147, 5 miles Garnett, \$5,500. Improved 20, \$2,000. Write for free list. J. E. CALVERT, Garnett, Kansas.

GREENWOOD COUNTY FARMS and well-grassed stock ranches in the corn, clover and bluegrass country for sale at low prices on liberal terms. Write for full information. J. G. SMITH, Hamilton, Kansas.

SOUTHEASTERN KANSAS LAND Where corn, wheat, oats and alfalfa produce big crops, at \$40 per acre and up. Oklahoma land, \$12 to \$25 per acre. Write for new list, sent free. MONARCH REALTY CO., Coffeyville, Kansas.

INDIANA FARM \$75 PER ACRE. One and a half miles from Valparaiso, Ind.—as good farming section as anywhere—120 a., fair improvements; will sell or trade; \$75 per a. if a quick deal is offered. W. J. T., care Kansas Farmer, Topeka, Kansas.

JEFFERSON AND ATCHISON COUNTIES. Improved farms that are rapidly increasing in value, that produce big crops of all staples, for \$60 an acre and up, according to location and improvements. Also some good exchange propositions. Write for full information. George J. M. Reger, Valley Falls, Kan.

KORN-KLOVER, BLUEGRASS IN N. E. KANSAS. Here corn is king—wheat queen. Bluegrass nods in the shade of tall timber and judges herds of fine stock, while alfalfa, clover and timothy regulate laws of supply and demand. Free list. S. M. STRAWN, Valley Falls, Kansas.

FARM BARGAINS. Big bargain in one of the best 80's in Anderson Co., nice smooth farm, fair improvements, plenty of good water, close to school, R. F. D. and telephone. Price \$4200. Terms if wanted. MANSFIELD LAND CO., Ottawa, Kan.

Wheat, Corn, Alfalfa In Meade, Ford and Clark counties; land \$25 to \$50 acre. List free. Eugene Williams, Minneola, Kan.

SHERIDAN COUNTY LANDS MY SPECIALTY. WRITE M. D. GALLOGLY, REAL ESTATE BROKER, HOXIE, KANSAS.

Clark County Farm 520 acres, small set improvements, \$00 in cultivation, 10 miles R. R. town, \$25 per a. Lands for sale in any size tracts to suit purchaser, at low prices. HALL & CLARK LAND CO., Minneola, Kansas.

Miami County Land For free information about eastern Kansas land, where corn, wheat, timothy, clover, bluegrass and all tame grasses grow at \$40 to \$75 per acre, write or see the PAOLA LAND & LOAN CO., Paola, Kansas.

AT A BARGAIN Four 160 acre farms in Lyon county each containing pasture, meadow, orchards, springs and land under cultivation. Two with house and barns on. These quarters all join each other length ways and are well fenced. This land must be sold soon to settle an estate. Time given on one-half. Address TROUTMAN RANCH, Comiskey, Kansas.

SEWARD and STEVENS Counties corn and wheat land, \$10 to \$25 an acre. Crops often pay for the land in one year. The best investments in Kansas are to be found here. Write for free descriptive literature. CHAS. MOLTER, Liberal, Kansas.

FINE QUARTER, \$1500 160 acres, good level land very fertile, 40 ready for wheat. A snap. Don't delay, act now. Land for sale in any size tracts, at low prices on good terms. Write for Lew list. THAYER LAND CO., Liberal, Kansas.

Meade County Lands For Sale or Exchange Raw and improved farms and ranches, \$9,000 telephone exchange. Attractive terms on all kinds of property. Call on or address BOYER & WYATT, Plains, Kansas.

A BARGAIN 160 acres of fine creek bottom land, 50 acres in cultivation, 8 miles from good town and in good neighborhood. It won't last long. Answer quick. A snap at \$1,500. MACKAY & EVANS, Liberal, Kan.

20 QUARTERS Cheap land in Western Kan. and Okla. at \$1000 to \$1500 each, rear town or on the new R. R. survey. Good quality and title. H. M. DAVIS REALTY CO., Greensburg, Kansas.

HERE YOU ARE 209 acres, 5 miles Williamsburg, new 7-room house, large barn, all necessary out-buildings in good repair, small fruit, 1/2 cultivated, balance could be, \$40 acre. Good terms. Owner old, can't farm it. New list free. SEVERNS & HUTCHISON, Williamsburg, Kan.

Eastern Kansas 80 acres, well improved, new buildings, every foot tillable, plenty of water and close to school, 5 miles of Richmond, for \$60 an acre. Other farms for quick sale. Write the owner, Box 45, Richmond, Franklin county, Kansas.

SOUTHEASTERN KANSAS FARMS in any size tracts, on liberal terms. How is this: 80 acres good land, well located, small improvements \$2,500. Send for free list. THE BOWMAN REALTY CO., Coffeyville, Kansas.

A BARGAIN 160 ACRES, all tillable, 1/2 mile from Meade, Kansas. House 4 rooms, barn, two wells, one flowing; 110 in cult., 16 acres in alfalfa, balance pasture. Price \$5,000, \$2,000 cash, bal. 3 years at 6 per cent. L. F. SCHUMACHER, Owner, Meade, Kansas.

Corn, Wheat, Alfalfa Lands in Trego county, Kansas, where prices are advancing rapidly. Best opportunities in Kansas for homeseeker and investor. Write for our list, mailed free and postpaid. Live agents wanted. D. W. KELLER LAND COMPANY, Wakeeney, Kansas.

A GOOD RANCH In Chautauqua Co., Kan., 2046 acres, good improvements, good grass, plenty of living water, only two miles from railroad station. Will sell at a bargain or take some trade. LONG BROTHERS, Fredonia, Kansas.

LAND SNAP 80 ACRES, Anderson County, Kansas, 6 miles from Greeley, 7 miles from Garnett, 60 a. in cult., balance meadow and pasture, 100 a. joining Harris, Kan., all tillable, 100 acres in cult., balance meadow and pasture. Price \$55 per acre, well improved. SPOHN BROTHERS, Garnett, Kansas.

FORCED SALE Best located, and one of the best farms in Allen county; 480 acres, 3 miles from Iola, \$60 acres under plow, balance in grass. All tillable. Will sell all or divide to suit purchaser. Worth \$85 an acre. Will sell for \$50. Very easy terms. Must sell. Call on or address THE ALLEN COUNTY INVESTMENT CO., Longton, Kansas.

LOOK HERE I offer this week a decided bargain in a section of smooth, raw land, 10 miles north of Brewster, Kan.; fine farms surrounding it, and crops to show what it will produce. This is one of the bargains and will not lay out long. Write for particulars to IKE W. CRUMLY, Brewster, Kansas.

FARM SNAPS FARMS FOR SALE—Large list, correspondence solicited, ask for list. Desirable, located, Thos. Darcey, Real Estate, O'ferle, Kansas.

GREENWOOD COUNTY FARMS Large 40-page handsomely illustrated book, containing valuable information and list of 50 farms, mailed free and postpaid. Send your name today. P. D. STOUGHTON, Madison, Kan.

THOMAS COUNTY LAND. One-half sec. land, 3 1/2 miles to R. R. station, 1/2 mile to school; 80 acres in pasture, rest already put in wheat; all good level land; 4 room house, good well, windmill, granary, stable, chicken house. This is to be sold in the next 20 days. Don't miss this. First one gets it. Write at once, \$29 per acre. O. F. STEELE, Colby, Kan.

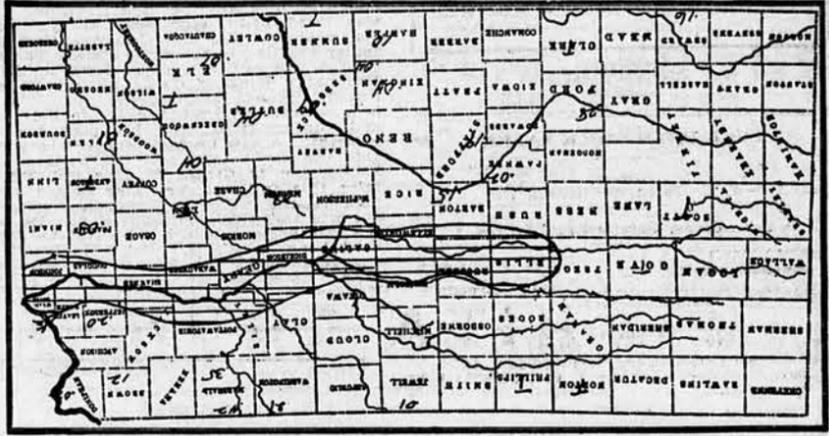
SPECIAL FOR QUICK TRADE. Eight-room residence, located at 2726 Woodland ave., K. C., Mo.; nice location, on paved street, with all special improvements in and paid for; east frontage, 30-ft. lot; pays \$30 per month rent; price \$5,000, mortgage \$1,800 at 6 per cent; want western Kan. land, N. W. Oklahoma land, cheap grass land in S. E. Kan. or small stock of goods. Might consider livery stock or stock of mds. for equity. Investigate and make propositions. Send descriptions and numbers of land in first letter. C. E. TINKLIN, Corning, Kan.

485 ACRE FARM—DIRT CHEAP. 485 acres, 2 to 8 ml. from 5 towns, Linn Co., Kan. Rich soil, small grain, corn and tame grass farm. Improvements worth \$5,000; good repair. All fenced; part hog tight. A genuine bargain for \$27,500 per a. Large list and detailed description free. T-O. M. LAND CO., Coffeyville, Kansas.

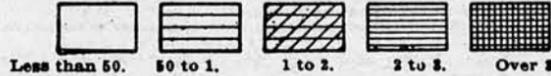
THE HORSE—HOW TO BUY AND SELL. By Peter Howden. Gives the points which distinguish a sound from an unsound horse. This volume abounds in general information, stated in so clear and simple a manner as to enable anyone to intelligently buy or sell a horse. 131 pages. Cloth. Regular price...\$1.00. Send \$2.25 and your subscription to KANSAS FARMER will be advanced 3 years, and the book mailed to you absolutely free. Address KANSAS FARMER, Topeka, Kansas.

KANSAS CROP REPORT and Rain Fall for week ending September 3

Rain chart prepared by T. B. Jennings from reports collected by the Weather Bureau.



SCALE IN INCHES.



General Conditions.

This has been a peculiar week. Unusually low temperature the first of the week—in some cases the lowest on record for August at the station—with light frost in the central and western counties, causing slight damage in some northwestern counties. Uncomfortably warm weather the middle of the week but cooler at close of week.

Good rains fell in all parts of the state except the extreme southern and western counties. The rainfall was heavy from Sedgewick and McPherson to Wyandotte and was very heavy in Stafford and Anderson counties. The electric storms this week were the worst of the season, much damage being done by lightning.

Late corn, in general, is in good condition. Pastures are good, and the ground is generally in very good condition for plowing.

Results.

Eastern Division.
Allen—Late corn will mature a fair crop. Early corn very poor. Flax and oats best ever. Wheat a failure. Fruit above the average everywhere.

Anderson—The fine rains put the ground in good order for seeding, made late corn and helped the pastures.
Bourbon—Crops are ripening finely. Corn is about made. Plenty of rain for turnips, meadows, pastures, etc.

Chase—Pasture cattle are being shipped to market rapidly, about a thousand car loads the past two months, with about two thousand cars yet to ship.

Douglas—The ground is thoroughly soaked. Pastures good. Corn looking fine. Prairie meadows cut early are ready for a second cutting. Alfalfa and clover are being sown.

Elk—A pleasant week. Still needing rain. Franklin—Dry and moderately warm first part of week, cool and wet latter part.

Greenwood—Fourth crop of alfalfa cut and put up without rain, crop fine. Fall plowing nearly all done. Pasture fair. Late corn needs rain soon. Peach crop good. Apples not falling. Some plums.

Jefferson—Good corn and wheat weather but poor hay weather. Many acres of alfalfa being sown. Considerable wheat will be sown.

Johnson—Pleasant seasonable week, although a little too much precipitation for agricultural purposes.

Linn—More rain needed for pastures and corn too dry to plow.

Marshall—Potatoes being dug. Plowing and general fall work progressing. Blue river raised eight feet on the 1st.

Nemaha—Fall plowing in progress. Much rain has stopped work.

Riley—Too much rain.

Shawnee—A wet week. Corn remains green and is filling out well. The rains put

wheat land in fine condition but damaged considerable hay.

Woodson—Good week for Kaffir corn. Some fodder being cut.

Middle Division.

Barber—Most farmers have their ground in good shape for sowing wheat.

Barton—Good rains during the week, threshing and all farm work delayed by it. Fourth crop of alfalfa cut. Forage crops are heavy. Watermelons and muskmelons on the market. Peaches ripe and a fine crop.

Butler—Good rains on 1st and later, putting ground in good condition for plowing.

Ellis—Cold first of week, but hot by the 30th, cooler last of week with good showers.

Harper—Week cool and dry. Good local rains in northeast part but rain needed in the rest of county.

Jewell—Fine rains. Some corn hurt by hail.

Kingman—Ground in fine condition for plowing in the eastern half, too dry in the western half.

Marion—Has been seasonable weather the past week, with heavy rains the last two days. Considerable alfalfa down. Corn cutting just begun.

Pawnee—Plowing for wheat is nearly finished. Ground in excellent condition.

Russell—Good rain on 31st.

Stafford—Over 3 inches of rain this week has put the ground in fine condition.

Summer—Corn about dried up, cutting in progress. Very dry. Waiting for rain to sow wheat and grass. Alfalfa seed an extra crop.

Washington—Weather very seasonable and farm operations unchecked.

Western Division.

Clark—The rains of 31st and 1st were beneficial but were heaviest in northeast part of county.

Decatur—Pastures, late corn and forage crops much benefited by the recent rains in the southern part where the ground is in excellent condition for fall planting—a large acreage having already been prepared. Feed doing finely and some corn showing up in the northern part.

Gove—A cool, damp, cloudy week, with some rain.

Lane—Rainfall was insufficient. Some wheat has been drilled. Alfalfa seed and third crop of hay being harvested, seed is good.

Norton—Corn cutting progressing nicely. Kaffir corn will be too late to head out. Threshing is nearly finished.

Thomas—A week of extremes in temperature with only a slight rainfall. A light frost first of week did slight damage on low lands.

Wallace—Corn and other crops doing finely. Plenty of rain. Quite cold first of week, with light frost on a w lands, but very little damage done. Balance of week warm.

FOR FREE INFORMATION about Thomas and adjoining counties, write to or call on **Trompeter & Son, Colby, Kan.**

WANTED—Salesman to sell Southwest-ern farms on easy terms. W. H. Rush, 243 Adams St., Chicago, Ill.

MIAMI COUNTY—Improved farms \$45 up, good terms. Cheaper and better than farther west. List free. **Carpenter & Feek, Miami Co. Bank Bldg., Paola, Kan.**

MEADE, Ford, Clark and Gray county land, \$10 to \$20 an acre; prices advancing rapidly, now is the time to buy. Write for full information. Chas. Schwerdfefer, Fowler, Kan.

TREGO COUNTY LAND, where prices are advancing rapidly. At low prices, on liberal terms. Near markets, churches and schools. Write for prices and descriptions. **J. I. W. CLOUD, Wakeceny, Kansas.**

WRITE for special lists Anderson Co. farms. 80 acres nice improvements, bottom land, \$5,000. 160 acres bargain, small improvements, \$4,700. **Holcomb Realty Co., Garnett, Kan.**

ASK WHY LAND IN SHERIDAN COUNTY, KANSAS, will make the investor or the farmer money purchased at present prices.

Many inducements here that are not to be found elsewhere. **T. V. LOWE REALTY COMPANY, Goodland, Kansas.**

LOW - PRICED NORTHEASTERN KANSAS LAND, Produces corn, clover, bluegrass and all staple crops in big yields. We can sell you improved farms here for \$40 to \$50 per acre. Have some good exchanges. Write for full information. **The Owl Land Agency, Ozawkie, Kansas.**

MEADE, GRAY AND FORD COUNTIES, The wheat, corn and alfalfa country of Kansas. Special—6 quarters in Gray county, level good land, near school and R. F. D., 2 sets of improvements, \$15 an acre. Write quick if you want a snap. List free. **THOMAS W. HOTZ, Fowler, Kansas.**

ANDERSON COUNTY, Wheat, oats, corn, tame hay and many other crops produce abundantly. Improved farms for \$30 to \$60 per acre. Big investment opportunity. Write for new list, mailed free. **GEO. W. ILLER & SON, Garnett, Kan.**

CORN, BLUEGRASS AND ALFALFA LANDS In Northeastern Kansas where crops never fall. Improved farms \$65 per acre and up. Prices rapidly advancing. Now is the time to buy. Write for full information. **F. A. LAKE, Ozawkie, Kansas.**

NORTHEASTERN KANSAS, The best agricultural section of Kansas. Wheat, corn, alfalfa, tame hay, potatoes and fruit are making our farmers rich. Land \$25 up. Big list to select from. Write for full information. **E. L. HORTH, Centralia, Kansas.**

THE BEST TOWN TO LIVE IN. If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest prices, address the

SEVERAL good farms to trade for stocks of merchandise and land to exchange for city property. Land in the fertile Gulf Coast of Texas \$25 per acre on payments; fine climate and farmers get rich in a few years. We go down twice a month. Write me for particulars. **Henry G. Parsons, Lawrence, Kan.**

160 ACRES, 11 miles Plains, 11 miles Jasper, both good shipping points, level roads; perfect quarter of buffalo grass land. Price \$13 an acre; terms. No adjoining lands can be bought for less than \$15 an acre. Other bargains. **FULLINGTON & MARRS, Meade, Kansas.**

SECRETARY OF THE COMMERCIAL CLUB Topeka, Kansas.

FARMS AND RANCHES In Greenwood county, the best known county in Kansas, where corn, clover and bluegrass grow to perfection. We own and control much land here, and will suit you. **WICKER & MARSHALL, Madison, Kansas.**

NESS COUNTY ALFALFA FARM, 160 acres, fair improvements, 6 room house, 6 mi. Ness City, 1 mi. school, most all fine first bottom alfalfa land, living water, telephone and R. F. D. lines pass house, 90 acres in cult., 1/4 growing crop goes, all fenced and cross fenced. Inc. \$600, 5 per cent, 2 1/2 years yet. To Sept. 1 only, come quick. \$3200 buys it this month. **J. G. COLLINS, Ness City, Kansas.**

A BARGAIN AT \$55.00 PER ACRE, 80 acre farm located in one of the best farming and stock raising sections of Kansas; only 100 miles from Kansas City; 65 a. in cultivation, 15 a. hay and pasture, 5 room house and large barn 30x38, both in good condition, and several small buildings, 2 good wells and cistern. \$1,500 cash, and time on balance to suit. Address Owner, **R. F. D. No. 2, Box 34, Westphalia, Kan.**

KIOWA COUNTY LANDS, At \$20 per acre and up on liberal terms, where all staples produce abundantly. We have better corn right now than you have on your \$150 land. Descriptive literature free. **THE WAYNE LAND CO., Greensburg, Kan.**

A BARGAIN ESTATE, 640 acres, 2 sets buildings, 2 story, 10-room house with porches, large barn, out-buildings, acres good water, gas well, variety fruit, 5 room house and stable. Farm lays well, well located, telephone, rural route, 8 miles Paola, 2 miles church, 1/2 mi. school. Would make good farm. Price \$42,000. **FLOYD LAND CO., Paola, Kansas.**

EASTERN KANSAS FARM BARGAIN, 160 acres, 6 1/2 miles from Osage City and 2 1/2 miles from Barco, Kan., 85 acres under cultivation, 2 acres orchard, balance native grass, 6 room house, barn for 8 horses with left, cow barn, corn crib, hen house and other outbuildings, plenty of good water, all smooth land, R. F. D. and phone, 65 acres of corn goes with farm if sold in 30 days. Price \$7,500. For full particulars write **J. C. RAPP & CO., Osage City, Kansas.**

THIRTEEN hundred breeding or feeding ewes for sale at four dollars per head. From fifty head up. Pure bred Shropshire buck free with each fifty. **PATTERSON & GUTHRIE, Formosa, Kansas.**

FOR SALE OR RENT, 640 a. Thomas Co., Kansas; 440 cultivated; fair improvements; 7 mi. R. R. town; possession; easy terms; bargain if sold soon; might consider trade. Address Box 324, Hastings, Neb.

THE PLAINS LIMITED, Write for it today. Tells how to make big money in Plains City lots. Price \$22.50 to \$50. Easy terms. Mechanics, clerks, small investors, farmers, now investing in Plains. Prices increasing rapidly. Postal will bring full information. **JOHN W. BAUGHMAN, Plains, Kansas.**

160 A., 4 M. TO WAVERLY, 1 mile to school. Gold, new house, 7 rooms and bath, equipped with bath tub and drain, stable, 65 a. in cultivation, 40 a. tame grass, bal. pasture with spring in pasture, well and cistern at house, plenty of fruit. This is a bargain. Price \$60 per A. **MICHAEL & GOUDY, Waverly, Kan.**

60 MILES Herrington, on Orient. 640 acres, one mile new town; 170 acres creek bottom, 40 alfalfa, 500 good farm land Good house, barn, running water, timber. Price \$35.00. Will carry half at 6 per cent. Best bargain in Kansas. **J. W. BRADSHAW, Herrington, Kan.**

SMALL FARM & STOCK RANCH, 960 acres, ten miles Meade, fenced, cross fenced, good house and other farm buildings, 40 per cent tillable, 40 acres subirrigated, alfalfa land, living water; well adapted to general farming and stock raising. \$8 per acre reasonable terms. **FIDELITY LAND & TRUST CO., Meade, Kansas.**

320 ACRES SUMNER CO., KANSAS, 160 acres in cultivation; 25 acres alfalfa; bal. pasture; good 8-room house; outside cement cellar barn 8-room house; outside granary and other outbuildings; two good wells windmill; several springs in pasture; nice orchard; 7 1/2 miles county seat; 5 miles small town; price \$12,600; inc. \$2,600, 5 years at 6 per cent. Address P. H. L., care Kansas Farmer, Topeka, Kan.

TWO FARMS SOLD. Mark them off the list. We have closed deals on Nos. 347 and 348 since our new land list was issued. If you have a list mark them off and if you haven't a list write today for one. Our sales prove our statements. Best corn, clover and alfalfa land in Kansas for the money. **DONAHUE & WALLINGFORD, Mound Valley, Kansas.**

EASTERN KANSAS BARGAINS. 160 acre farm 5 miles out, 100 a. in cult., fine bearing orchard, good water, good soil, small imp. Belongs to estate must sell. Fine level road to town. A great bargain, \$35 per a. Will loan \$3,000 at 6 per cent. Hurry. Write for new list. **KNIGHT LAND CO., Moran, Kan.**

THREE ELK COUNTY SNAPS, 158 a. farm close to town and school, imp. fair, 75 a. bottom cultivated, 25 a. alfalfa, \$7000, pay \$3000 cash, 10 years on balance. 160 a. farm adjoins above, 60 a. plow land, 60 a. meadow, balance pasture, imp. good, \$5500, pay \$2500 cash, 5 years on balance. 140 a. farm, 1 1/2 miles to town, 75 a. plowed (bottom), 15 a. alfalfa. Imp. good. Pay \$3360 cash, 5 years on balance. Write for list. **D. M. WATKINS, Moline, Kansas.**

NORTHEAST KANSAS SNAPS. 100 ACRES \$4000—240 ACRES \$7500. Unimproved quarter, 75 acres under cultivation, balance good timber, only 30 acres too rough for cultivation, 4 miles McLouth, 40 miles Kansas City. Price \$25 per acre. 240 acres 3 1/2 miles McLouth, near school, R. F. D. and telephone line. New 4 room house, new barn, other buildings, 120 in cultivation, balance timber and pasture. Price \$7500. This is a real snap. Send for list of 50 farms in Je%erson and Leavenworth counties. **W. M. PENNINGTON, McLouth, Jefferson Co., Kansas.**

A FINE RANCH ON EASY TERMS. A fine level ranch of 1,380 acres located in Sherman county, Kansas, 4 miles south of Ruleton, the first station west of Good-land, on the main line of the Rock Island railroad. All tillable, new frame dwelling, 28x42 feet, five rooms, with pantry, closets, small hall and cellar, frame barn 48x32 feet, frame granary 20x40 feet, frame stable 20x32 feet, frame cattle shed with straw roof 64x20 feet, good well, windmill, two large tanks, with abundant supply of the finest water on earth; cannot pump the well dry. Milk house, hog house, feed rack and corrals. About half cash, balance five years at 6 per cent. Will be sold soon. Can give possession any time. Come at once and see it and procure a bargain. Call on or address **G. W. SAPP, Goodland, Kansas.**

1600 A. IMPROVED LAND. Four mi. from Meade, nerly all smooth, wheat, corn and all kinds of grain land. Owner has raised 50 bu. oats, 50 bu. barley, 30 bu. wheat, 35 bu. Kaffir corn and 55 bu. corn per acre on said land. Alfalfa can be raised successfully by proper cultivation, 1 mi. to R. R. station and elevator. At present the land is operated as one farm, but could be conveniently cut up into three or four farms. Titles are all good, no incumbrances, good terms can be given if desired. There is about \$6,000 worth of stock, all will go with the place if sold soon at \$25 per a. 320 a., 4 mi. from county seat, 280 a. perfect and smooth, balance good pasture land. Price \$16 per a. 160 a., 3 miles from Meade, 5 flowing wells, 65 a. in alfalfa, some timber, fair improvements, in the heart of the artesian valley. Price \$65 per a. **HULBURT & BLACK, Meade, Kansas.**

Donahue & Wallingford of Mound Valley, Kan., believe in advertising, as evidenced by the fact that the Kansas Farmer never appears without an announcement of something good in farms for sale over their signature. They are just at this time getting out a new list of farms for sale and you will do well to write them for a copy. Last year through their efforts dozens of farms were sold in Leavette county and their customers are satisfied, not one of them wanting to sell the farms purchased.

KNOW WHERE YOU'RE AT

New Farmer's Account Book and Five-Year-Diary will Keep You Posted.

WE have a small number of these Farmer's Account Books to dispose of among our readers. They were specially furnished us for this purpose.

These books are specially rule in different colors, on fine ledger paper and are bound in leather a d cloth; size 8 1/2 inches by 14 inches. They provide for a get-at-able record of exact information, of every item or transaction of importance, on the farm, for five long years. They are conveniently indexed, and so simple in arrangement, that your boy or girl can easily keep the accounts right up-to-date.

Many farmers have been paying as high as \$5.00 for account books not so good as this one. We are giving them away in connection with subscriptions to KANSAS FARMER.

HERE'S HOW TO GET ONE, FREE

Send us \$2.00 (the regular price), at once, to renew your subscription to KANSAS FARMER for Three Years. In addition to extending your subscription, we will send to you, one New Farmer's Account Book, free of any further cost, by return mail, postpaid. Only a few can get this great bargain. First come, first served, as long as the books last.

You have the matter in mind now. Don't put it off. Send in by next mail, and be sure of your book. Simply cut out this ad, enclose two dollar remittance (your check is good), and mail to

KANSAS FARMER, Desk "C", Topeka, Kan.

You can safely answer the advertisements in KANSAS FARMER, and buy the things advertised, because we do not allow any advertiser to continue in our pages, if he fails to make good as he advertises. Our guarantee on page three is your insurance of honest dealing.

FIELD NOTES

FIELD MEN. O. W. Devine, Topeka, Kan. Jesse R. Johnson, Clay Center, Kan. R. G. Sollenberger, Woodston, Kan.

PURE BRED STOCK SALES.

Horses. Oct. 26—W. S. Corsa, Whitehall, Ill. Percherons, Belgians and Shires. Jan. 10, 11, 12, 13, 1911—Breeders' Sale Co., Bloomington, Ill.

Percherons. Oct. 10—J. W. Barnhart, Butler, Mo. Oct. 27—W. H. Ritter, R. 4, Colfax, Ill.

Jersey Cattle. Nov. 3, Mrs. S. B. Thomas, St. Joseph, Mo.

Hereford Cattle. Oct. 14—American Royal, C. R. Thomas, Mgr., Kansas City, Mo.

Holstein Cattle. Feb. 7, 8, 1911—Rock Brook Farm, Sta. B, Omaha, Neb., 150 head will be offered.

Shorthorn Cattle. Feb. 22—Phillip Albrecht, Smith Center, Kan.

Durocs. Sept. 14—Ralph Varney, Bennett, Neb. Oct. 19—G. Van Patten Sutton, Neb.

Jan. 30—A. T. Cross, Guide Rock, Neb. Jan. 31—Ward Bros., Republic, Kan.

Feb. 1—W. E. Monasmith, Formosa, Kan. Feb. 2—Thompson Bros., Garrison, Kan.

Feb. 3—G. F. Phillip, Esbon, Kan. Feb. 3—Rinehart & Slagle, Smith Center, Kan.

Feb. 4—W. C. Whitney, Agra, Kan. Feb. 6—J. L. Williams, Bellaire, Kan.

Feb. 8—Samuelson Bros., Cleburne, Kan. Feb. 10—Samuelson Bros., Blain, Kan.

Feb. 12—T. E. Goethe, Leonardville, Kan. Feb. 14—Chapin & Nordstrom, Green, Kan.

Feb. 15—Leon Carter, Asherville, Kan. Feb. 16—W. T. Fitch, Minneapolis, Kan.

Feb. 17—L. E. Boyle, Lindsey, Kan. Feb. 22—Phillip Albrecht, Smith Center, Kan.

March 15—E. S. Davis, Meriden, Kan.

Poland Chinas. Sept. 20—J. D. Spangler, Sharon, Kan. Oct. 8—Bert C. Wise, Falls City, Neb.

Oct. 12—W. B. Stafford, Bronson, Kan. Oct. 13—Bert Wise, Reserve, Kan.

Oct. 14—T. J. Dawe, Troy, Kan. Oct. 15—J. B. Whipple, Fall City, Kan.

Oct. 16—H. C. Dawson's Sons, Endicott, Neb. Sale at St. Marys, Kan.

Oct. 17—A. R. Enos, Romona, Kan. Oct. 18—Herman Groninger & Sons, Bendena, Kan.

Oct. 19—A. B. Garrison, Summerfield, Kan. Oct. 20—Hubert J. Griffiths, Clay Center, Kan.

Oct. 26, G. S. Hamaker, Pawnee City, Neb. Oct. 21—J. M. Ross, Valley Falls, Kan.

Oct. 22—W. F. Fulton, Waterville, Kan. Oct. 24—W. F. Fulton, Hiawatha, Kan.

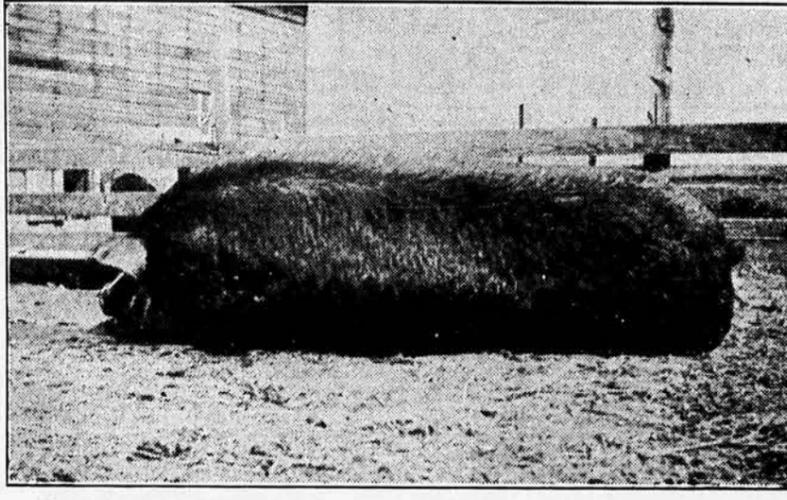
Oct. 25—W. C. Singer, Hiawatha, Kan. Oct. 26—W. R. Webb, Bendena, Kan.

Oct. 27—F. A. Tripp & Son, Meriden, Kan. Oct. 27—Walter Hildwein, Fairview, Kan.

Oct. 28—J. H. Harter, Westmoreland, Kan. Oct. 28—J. R. Berkey, Louisburg, Kan.

Williamson Durocs. With this issue W. H. Williamson of Raymond, Kan., starts a card in Kansas Farmer. Mr. Williamson offers for sale ten extra good young sows that have had one litter of pigs.

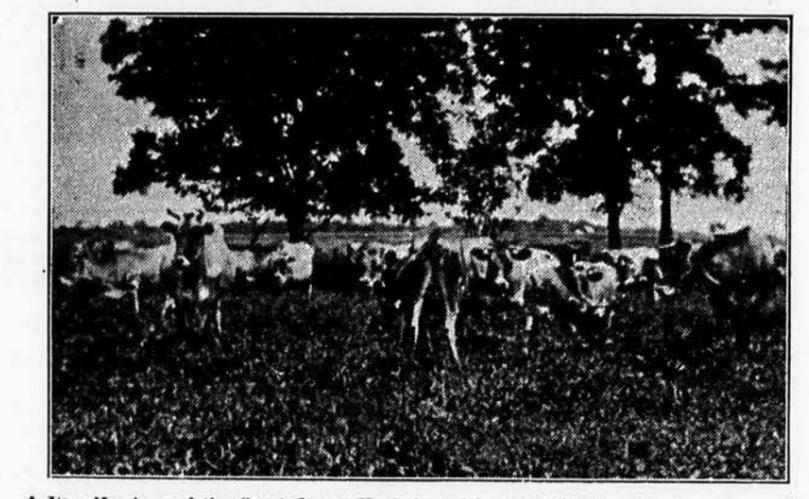
The Kansas City Veterinary College. Nineteen years ago the Kansas City Veterinary College was a modest undertaking, with a big, definite object as a reason for its existence.



Meddler Chief, Grand Champion Poland China boar at Kansas State Fair, Hutchinson, 1909, who died recently at his home on the farm of G. W. Roberts, Larned, Kan.

THE SALT OF THE EARTH. Jo Jenkins counted up his cash And couldn't understand Why he was near financial smash With such a lot of land.

American Royal of 1910. The American Royal Live Stock Show of 1910 will be held at the Kansas City stock yards October 10 to 15.



A Few Members of the Great Jersey Herd Owned by W. N. Banks at Independence, Kan.

This herd consists of 100 head of registered Jersey cattle on this farm, 65 giving milk. The farm consists of 400 acres of fine land, well seeded to all kinds of tame grasses, well watered, and equipped with the latest sanitary barns.

phan Resultant, Orphan Resultant is by Halburton's Prince out of Boa Resultant, Halburton's Prince being by Napoleon Bonaparte out of Campanile 2d.

The North Robinson Dean Co.'s Percherons. The barns of the above company were visited by the writer last week at Grand Island, Neb., and in them were found a good lot of Percheron, Belgian and Shire stallions and mares both home bred and imported.

O. K. Price. This young hog was bred by George M. Hull of Garnett, Kan., and is the big type from a long line of ancestors.

Hodgson Again in the Hog Business. The writer called on S. N. Hodgson, Parker, Kan., a short time ago, and found him a very busy man.

"Whitney's Duroc Foundation." No manufacturer, in the making of a first class article, would for a single minute entertain the idea of turning out this class of an article from material of low grade.

The Cloverhook Jersey farm at Wellsville, Kan., recently bought a fine Jersey bull from Marletta, Ohio.

of Duroc-Jersey swine. In accordance with this the material was secured from the best breeding plants in Kansas, Nebraska, Missouri, Iowa and Illinois.

When writing advertisers, please mention Kansas Farmer.

ARKANSAS LAND

BENTON COUNTY, ARKANSAS. 20 years experience. Write us about fruit farms. C. R. Craig & Co., Bentonville, Arkansas.

ARKANSAS fruit, grain and stock farms at farmers' prices. Timber lands. Sam A. Clark & Company, Dept. C, Fayetteville, Ark.

FOR SALE—80 acres 3 miles from Rogers, good 6 room house, fine well and outbuilding and in fine condition.

TOO LATE TO CLASSIFY.

LEARN WIRELESS & R. R. TELEGRAPHY. Shortage of fully 10,000 operators on account of 8-hour law and extensive "wireless" developments.

FOR SALE—Four thoroughbred Duroc-Jersey male pigs, great-grandsons of old Kant Be Beal, farrowed Nov. 27, 1909.

RARE OPPORTUNITY. 640 acres in Butler Co., Kan. Well improved, level land, fine stock and grain farm.

327 acres in Garfield Co., Okla., level land, fair improvements. Price per acre only \$50.00 and clear, will take small farm on this farm.

630 acres in Mercer Co., Mo., fine blue grass stock and grain farm. Price \$55.00 per acre and clear. Want cash down \$12,000 long time on balance.

A FINE FARM ON EASY TERMS.—640 acres eight miles from Ransom, 8 room house, good barn with mow for 25 tons of hay.

WANTED—Live agents for best and cheapest farms on earth. Sell on sight, Write Box 167 Deerfield, Kan.

FOR SALE—Hackney brood mares and colts, also one fine four-year-old stallion. J. B. Brownrigg, Mont Ida, Kan.

KHARCOF SEED WHEAT, COLLEGE bred, re-cleaned, graded, lots of 10 bushels or more \$1.25 per bushel, sacked f. o. b. Oliver Disaver, Athol, Kan.

ARKANSAS FARMS, BIG LIST. Special Bargains. Sent free. Write today. Z. Riggs, Fayetteville, Ark.

MISSOURI LAND

IMPROVED corn, clover and bluegrass farms 40 miles south Kansas City. \$50 to \$75 per acre. Jot M. Wilson & Son, Harrisonville, Mo.

IF YOU WANT A HOME in the Ozarks, where the water is pure, write for my free list. Low prices. G. W. Peck, Dixon, Mo.

MISSOURI FARMS. 50 miles east of Kansas City on Mo. P. Ry., in Johnson Co. We raise corn, wheat, oats. All tame grasses, Call, or write me at bank.

IF YOU WANT TO BUY a good farm in southwest Missouri or city property in Springfield, Mo., write A. B. Crawford, Springfield, Mo.

FOR SALE—Central Missouri farms, send for list, 200 farms in Callaway Co., Mo., with full description and price for each; in Missouri's best grain and bluegrass county. Koontz & Palmer, Fulton, Missouri.

5,000 ACRES cheap farm land, tracts to suit; Green county; part improved, balance good timber; good soil and water; \$10 per acre upward; liberal terms; descriptive literature free. Ozark Land Co., 303 1/2 Booneville, Springfield, Mo.

MISSOURI FARM LANDS—No better grain and stock land anywhere; good values; fine schools, fine climate. List and prices free. Fulton Real Estate Agency, Fulton, Mo.

IN THE OZARKS. Dairy, truck, poultry and fruit lands, \$4 to \$50 accordingly, on terms to suit. I own over 10,000 acres and can give you what you want. Large illustrated folder, list and maps free.

P. H. RUCKER, Rolla, Mo.

300 FARMERS asked and received from us last month our list of Farm Properties for sale in various States. Of these 300 enquiries 130 wanted farms in New York, 26 in other Eastern States, 12 wanted Indiana and Michigan farms, 23 in Illinois, Iowa, and Wisconsin, 25 in Minnesota and the Dakotas, 9 in Nebraska and Colorado, 7 in Missouri and Arkansas, 33 in Texas and Oklahoma, 35 in various Southern States. If you want to buy, send for our classified list of farms for sale. **McBurney, Stocking & Co., 277 Dearborn St., Chicago, Illinois.**

MISSOURI FARMS. For sale or exchange in Morgan county, where corn, clover and bluegrass grow to perfection. Prices from \$10 to \$65 per acre on liberal terms. Write for county map and list, both free. **CREWSON & HARRISON, Versailles, Mo.**

DO YOU WANT TO SELL YOUR FARM? Write us, we will give you good information. **Hoffman's Compiled List Report, 323 Sedgwick Block, Wichita, Kan.**

WEBSTER COUNTY, MO., farm lands, \$20 up. Prices advancing rapidly. Now is the time to buy. Our land list gives prices and descriptions. Free list with map if desired. **R. S. Phillips & Co., Marshfield, Mo.**

MISSOURI. The home of corn, clover, bluegrass and fat stock. Lands in the heart of this great state for less than Central or Northeastern Kansas lands. Write for list, sent free upon request. **BARTHOLOMEW & SLACK, Calhoun, Missouri.**

MISSOURI FARMS. Well improved farms in best farming section of Missouri, \$50 up. Ranches \$10 to \$25. Natural home of corn, clover and bluegrass. Abundance of pure spring water. Descriptive price list free. **J. H. FREDERICK, Cole Camp, Benton Co., Missouri.**

MISCELLANEOUS FOR SALE and EXCHANGE COLUMN

BUY OR TRADE with us. Send for list. **BERNIE-MEREDITH, Eldorado, Kansas.**

Kansas City High Class Vacant. \$1,100 for registered cattle, jacks or percheron mares. **Box 125, Grantville, Kan.**

FOR SALE AND EXCHANGE. Kansas and Missouri farms for city property, stocks merchandise, and other farms. Describe what you have; will make you a good trade. List your farms for exchange with us. **R. R. Woodward Real Estate & Investment Company, 264 N. Y. Life Bldg., Kansas City, Mo.**

FOR SALE OR EXCHANGE. Northeastern Kansas corn, clover and bluegrass farms, stocks of merchandise, etc., for other good propositions. Lands are steadily advancing in price; now is the time to invest. Write or see us. **C. W. HINNEN REALTY CO., Holton, Kansas.**

FOR EXCHANGE. One square section western Kansas, 300 cult., 100 for fall wheat; all smooth land; best of soil. Price is \$12.50 per acre; inc. \$1,700. Want hardware northern Kansas or southern Neb. for equity. **LEWIS & ELDRED, Phillipsburg, Kansas.**

STOCK MERCHANDISE FOR SALE Good, clean stock merchandise in Northeastern Kansas town. Will invoice about \$10,000. Want land, Eastern Kansas farm preferred. Other snaps. Write me your wants. **O. C. PAXSON, Meriden, Kansas.**

FOR EXCHANGE. A 7 room, modern new house in Mt. Washington Addition, Kansas City, Mo., for Missouri land. Price \$3,500, 6 room house and one lot, on car line, in Joplin, Mo., for Mo. land. Price \$3,000. Many other good propositions in Oklahoma lands. **J. JOE CAVEN, Fargo, Okla.**

FOR EXCHANGE—Wild lands, farms, city property and stocks of merchandise, for other good propositions. Describe what you have to offer. Exchange list free. **H. B. Wann, 205 Campbell, Springfield, Missouri.**

POLLED DURHAM CATTLE
BELVEDERE X2712-195058
Son of the \$1,500 Grand Victor X1625 150264 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town. **D. C. VAN NICE, Richland, Kan.**

LAFAYETTE COUNTY JACK FARM
One mile from town.
50 JACKS Two to five-years old, my own breeding, for sale at private treaty.
65 JENNETS Safe in foal to Dr. McCord. My prices will move them.
In my March sale jacks sold up to \$1,625. In my present offering are many that are better. I cordially invite jack buyers to come and see this offering, or write me for further particulars and prices. Address
W. J. FINLEY, Higginsville, Mo.

JERSEY CATTLE
LINSCOTT JERSEYS
offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept.
R. J. LINSCOTT, Holton, Kansas.

Jerseydale Stock Farm
Imported and American Bred Jerseys. Carthage, Mo.
PHIL HANNUM, JR., OWNER.
I am offering a yearling bull, ready for service, out of a five-gallon cow bred along the same lines as the cow that won at the World's Fair at a very reasonable price. Write today if you are in need, as I price stock at figures that sell them.
Grade Jerseys bought on commission.

I have ready for service a few grandsons of Merry Maiden's Third Son, Financial Count, Eurybia's Son and Fountain's Eminent. Prices and extended pedigrees upon application. These bulls will make excellent dairy sires and are fit to head any herd registered in A. J. C. C.
W. N. BANKS, Independence, Kan.

GOLDEN RULE JERSEYS. Headed by Omer's Eminent \$5855. For sale bull calf six months old, sired by Beatrice Stockwell and out of dam by Silverline's Lad. Recorded and tuberculin tested. Splendid individual.
JOHNSON & NORDSTROM, Clay Center, Kansas.

RED POLLED CATTLE
CHOICE RED POLLED CATTLE. Herd the oldest in Marshall county. The best in breeding and individuality. Stock for sale at all times.
AULD BROS., Frankfort, Kansas.

RED POLLED CATTLE. A few choice young bulls for sale; also a few cows and heifers.
C. E. FOSTER, Eldorado, Kansas.

ANGUS CATTLE
80 Angus Bulls
OF SERVICEABLE AGE.
Herd Headers and Range Bulls. Many of them by Champion Itto.
SUTTON FARMS, Lawrence Kan. 500 HEAD IN HERD.

SHORTHORN CATTLE
10-SCOTCH BULLS-10
from 10 to 14 months old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at \$75 to \$125. These are all good. I make steers out of my poor ones. Come at once. They will suit you.
COL. ED. GREEN, Florence, Kan.

SHORTHORNS
A few choice heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd.
C. H. WHITE, Burlington, Kan.

FOR SALE. Five extra good Scotch and Scotch Topped bulls, 10 months old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight. Priced right.
R. A. STEWART, Hutchinson, Kansas.

PERCHERONS AND SHORTHORNS. Royal Gloster 232568 by Imp. Day Dream's Pride at head of herd; a few choice heifers for sale of excellent breeding; also Percheron stallion colts.
JNO. W. TREDWAY, Kincaid, Kan.

Tomson Shorthorns
We expect to exhibit our show herd, chiefly the get of Gallant Knight's Heir and Barmpton Knight, at several western fairs. We have a few choice females and several splendid young bulls for sale.
T. K. TOMSON & SONS, Dover, Kan. R. R. Sta. Willard on R. I., 16 miles west of Topeka.

Center Grove Stock Farm
Scotch Shorthorn cattle and 20 bred sows and a few good spring boars of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell phone.
J. W. PELPHREY & SON, Route No. 6, Chanute, Kansas.

HUMBOLDT NATIONAL STOCK FARM. Shorthorn cattle, large type Poland China hogs, 10 spring boars, priced right. Write me your wants. I meet parties at trains. We can do business. Come and see me.
H. F. PELPHREY & SON, Humboldt, Kansas.

SHORTHORN BULL FOR SALE. Sired by Lord Mar and out of a Red Knight cow. Also cows and heifers. 75 choice Poland China pigs to select from.
S. B. AMOATS, Clay Center, Kan.

HOLSTEIN CATTLE

ALBA DAIRY 125 HEAD REGISTERED HOLSTEIN-FRIESIANS
LARGEST HERD OF THIS BREED IN IOWA.
Barns Sanitary—Herd Tuberculin Tested Twice Yearly.
At the head of herd King Segis Hengerveld Vale, who is son of the famous King Segis (sire of 3 record-breaking daughters), grandson of Hengerveld De Kol (sire of 100 A. R. O. daughters, 4 above 30 lbs), great grandson of Sadie Vale Concordia, the first 30-lb. cow. A. R. O. COWS FOR SALE. Young and sound, free from disease. Large official milk and butter records; rich breeding; splendid individuality. **BULL CALVES FOR SALE** from 1 to 6 months old.
J. C. GUTHRIE, SHENANDOAH, IOWA.

ROCK BROOK HERD
offers bargains in a carload of cows and heifers and a few bulls 8 to 16 months old. All tuberculin tested.
ROCK BROOK FARM, Station B, Omaha, Nebraska.

HOLSTEIN CATTLE. The Most Profitable Dairy Breed. Illustrated descriptive booklets free. Holstein-Friesian Ass'n of America.
F. L. HOUGHTON, Sec., 114 Brattleboro, Vt.

DUROC JERSEYS

RIVER BEND HERD DUROCS. Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants.
W. T. FITCH, Minneapolis, Kan.

ALFALFA STOCK FARM DUROCS
Over 300 head of spring pigs now on the farm, the sires of which were sired by such boars as Ohio Chief, Billie K., Prince Wonder and from sows equally well bred. Fifty boars have been selected from a bunch of 200 and reserved for breeding purposes. Will quote you prices on single animals or in any size lots to suit. Address
PEARL H. PAGETT, Beloit, Kansas.

ANDERSON'S HIGH-CLASS DUROCS. Choice spring pigs sired by three great boars, for sale at reasonable prices. For information write
C. O. ANDERSON, Manhattan, Kan.

CROW'S DUROC JERSEYS. Herd headed by Climax Wonder, he by Missouri Wonder, 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time.
W. R. CROW, Hutchinson, Kansas.

FAIRVIEW STOCK FARM
The home of big, smooth, richly bred Durocs. 100 choice spring pigs sired by Monarch's Choice 91977 and Crimson Rule 91975. Public sale Oct. 25. Write for description and prices.
J. B. DAVIS, Fairview, Kansas.

SAMUELSON BROS.' DUROCS. Fifty spring boars for sale, the pick of 300 head of spring pigs, sired by 10 different sires; good, growthy fellows; heavy bone; the best of color; good quality. We can suit you in blood lines and quality. Our price right. Come and see or write us. Samuelson Bros., Cieburne, Kan.

R. & S. FARM 156 Spring Pigs, sired by King of Kant Be Beat No. 38333, and Golden Ruler No. 80555. Write your wants. Fall sale Oct. 29. Bred sow sale Feb. 3, 1911.
RINEHART & SON, Smith Center, Kansas.

DUROC SOWS and GILTS
30 fall gilts by G. C.'s Kansas Col. and 15 yearling and matured sows, all by noted boars. Will sell and hold until safe for fall litter. Also 10 fall boars, tops of our fall crop.
CHAPIN & NORDSTROM, Green, Clay County, Kansas.

SPRING BOARS AND GILTS. Best of breeding and top quality. Some early spring boars—good, strong, growthy fellows—will be priced right. By such boars as Agra Top Notcher, Paul Jumbo, Bonney K. and I Am a Bonney K.; also gilts of equal breeding quality and size, priced right. Address
W. C. WHITNEY, Agra, Kansas.

CHOICE DUROC BOARS FOR SALE. Good individuals, near descendants of Orion, Valley Chief, Farmer Burns, etc. Reasonable prices.
O. A. TILLER, Pawnee City, Neb.

HORSES AND MULES
SHETLAND PONIES FOR SALE—20 imported stallions and few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought to Nebraska. Write for private sale catalog. **CLARKE BROS., Auburn, Neb.**

PERCHERONS REGISTERED.
A choice lot of two-year-old fillies in matched teams; will breed them to any of my herd stallions; will sell 10 or 15 yearlings, all registered and of the best blood lines. Every animal solid sound.
J. W. BARNHART, Butler, Mo.

HOLSTEIN CATTLE

ALBA DAIRY 125 HEAD REGISTERED HOLSTEIN-FRIESIANS
LARGEST HERD OF THIS BREED IN IOWA.
Barns Sanitary—Herd Tuberculin Tested Twice Yearly.
At the head of herd King Segis Hengerveld Vale, who is son of the famous King Segis (sire of 3 record-breaking daughters), grandson of Hengerveld De Kol (sire of 100 A. R. O. daughters, 4 above 30 lbs), great grandson of Sadie Vale Concordia, the first 30-lb. cow. A. R. O. COWS FOR SALE. Young and sound, free from disease. Large official milk and butter records; rich breeding; splendid individuality. **BULL CALVES FOR SALE** from 1 to 6 months old.
J. C. GUTHRIE, SHENANDOAH, IOWA.

SUNFLOWER HERD HOLSTEIN-FRIESIANS. Do you need a high class bull ready for service whose three nearest dams average from 26 lbs. to over 29 lbs. butter in 7 days? I have them for sale. Also choice bull calves 6 to 10 months old, and a limited number of choice A. R. O. cows to offer. Might spare a few bred heifers. Holsteins are the most profitable cattle—figures prove it.
F. J. SEARLE, Oskaloosa, Kansas.

DUROC JERSEYS

RIVER BEND HERD DUROCS. Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants.
W. T. FITCH, Minneapolis, Kan.

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Over 300 head of spring pigs now on the farm, the sires of which were sired by such boars as Ohio Chief, Billie K., Prince Wonder and from sows equally well bred. Fifty boars have been selected from a bunch of 200 and reserved for breeding purposes. Will quote you prices on single animals or in any size lots to suit. Address
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J. W. BARNHART, Butler, Mo.

HOLSTEIN CATTLE

POLAND CHINAS

POLAND CHINAS

BIG-BONED POLAND CHINAS

Spring boars for sale, sired by my herd boars: ORPHAN CHIEF by Orphan, JOHN LONG by Long John. The best lot I ever raised. Get your order in early and get your pick of my herd. ROY JOHNSTON, South Mound, Kan.

THE MORTONS

QUALITY AND SIZE POLAND CHINAS. Herd headed by Equipment 51530 by Impudence. For quick sale 20 summer and fall gilts sired by a son of Meddler 2nd, bred for August farrow. Also 3 ball boars. All representations guaranteed. THE MORTONS, Tampa, Kansas, Marion County.

BRED GILTS

Sired by First Choice, he by Grand Chief. Gilts bred to Little Bear, a grandson of On and On. Those offered for sale are the tops of a large bunch. The gilts and the price will please you. Write right now to Young & Kimmerring, Glasco, Kan.

BIG TYPE POLAND CHINAS.

Gold Standard by Chief Gold Dust in service. Sows represent the most noted big type strains. Choice lot of spring pigs. WALTER HILDWEIN, Fairview, Kansas.

BROWN COUNTY POLAND CHINAS.

Oldest herd in Kansas, headed by Major B., by Major Bob 50211. Sows by big Hadley, Johnson's Chief, etc. Three extra good fall boars for quick sale, reasonable prices. ELI ZIMMERMAN, Hiawatha, Kansas.

ALBRIGHT'S POLAND CHINAS.

The utility type, headed by N. E.'s Perfection, by S. F.'s Perfection. Sows in herd carry the blood of noted sires and have been selected carefully. 40 choice pigs, both sexes, ready to ship. A. L. ALBRIGHT, Waterville, Kansas.

COLLEGE VIEW POLAND CHINAS.

We offer for sale some extra good pigs of March and April farrow. Plenty of size with quality. Write for prices, description and breeding. W. A. JONES & SON, R. F. D. No. 9, Ottawa, Kansas.

LAREDO HERD.

Poland Chinas headed by Impudence Style 133237 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts. G. W. MCKAY, Laredo, Missouri.

TEN FALL BOARS FOR SALE.

Also spring boars by Banner Boy, Big Hadley's Likeness, Colossus, Ned's Expansion and others. Fall sale Oct. 13. Herman Groninger & Sons, Bendena, Kan.

30 BRED POLAND CHINA GILTS

for sale. Spring and summer farrow, bred for April and May litters. Choicest blood line; also 5 mature sows and boars ready for service, one by Meddler. Reasonable prices. F. D. FULKERSON, Brimson, Missouri.

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John 2nd and John Ex. Young stock for sale at all times. A few choice Hadley boars. CHARLES Z. BAKER, Butler, Missouri.

POLAND CHINAS WITH SIZE.

Headed by Pawnee Look. I have bred pure bred Poland for 20 years and have learned many valuable lessons, and in the future shall breed nothing but the big smooth kind. More hog and less hot air. F. F. OERLY, Oregon, Missouri.

HARTER'S BIG KIND POLAND CHINAS.

Headed by Morgan's Monarch 45858 and apt. Hutch 39068. Over 100 choice pigs to select from. Visitors made welcome. Also Barred Rocks. J. H. HARTER, Westmoreland, Kansas.

CORRECT TYPE POLAND CHINAS.

Headed by Wise's Hadley by Big Hadley. Sows by What's Ex., Kansas Chief, Nemo L's Dude, etc. 75 choice pigs to pick from. BERT G. WISE, Reserve, Kan.

SUNSHINE HERD.

Poland Chinas, bred gilts and yearling boars. Prices reasonable, quality considered. Satisfaction guaranteed. A. L. ALBRIGHT, Pomona, Kansas.

EUREKA herd of pure bred Poland Chinas

and Duroc Jerseys, 115 head to select from, with quality, size and good litters. Order early and get the best. Ready to ship after Aug. 1st at farmers' prices. W. S. SALES, Simpson, Kan.

DEER PARK STOCK FARM.

Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman. Choice lot of spring pigs for sale by Impudence E. L. and Dawley's S. P. Perfection.

D. A. WOLFERSPERGER,

Council Grove, Kansas.

MULBERRY GROVE FARM.

Herd boar, Peerless Perfection 2nd, grand champion American Royal. A few choice gilts by Peerless Perf. 2nd, and bred to On the Spot by On and On. A few choice open gilts by Prince Meddler. F. J. MILLER, St. John, Kan.

CHOICE POLAND CHINA PIGS.

Sired by Voter 133333, Perfect Mischief 45911, Senator and Voter's Pride. Sows of equal breeding and richly bred. Pigs ready to ship. Attraction's Voters boars out of Meddler dam. W. C. MILLIGAN, Clay Center, Kansas.

FOR SALE

I still have a few good fall boars for sale at very reasonable prices; will also offer my 2-year-old boar, O. K. Chief. He is a good individual of the 800-lb. type; heavy bone, a good even breeder.

R. J. PECKHAM,

Pawnee City, Nebraska.

THE HAWTHORNE POLAND CHINAS.

Ten Strike, grand champion at the Oklahoma State Fair, 1908, heads the herd. Special prices on 20 strictly top quality boars, sired by Ten Strike and out of richly bred sows. These boars are of December and January farrow, good enough to head any herd. 50 choice gilts at very low prices. All pedigrees furnished when hogs are delivered.

T. M. CHAMBERS,

Oswego, Kansas.

SULLIVAN COUNTY HERD.

Poland Chinas, 200 head in herd, best blood known to the breed. For sale eight choice fall gilts, also eight Collier pups. FULLER BROS., Humphreys, Missouri.

SPRING MALES AND GILTS.

Now is the time to buy your breeding stock while the best is yet unsold. My pigs are strong and thrifty; are well bred and have been fed with an eye to future usefulness. Write me now. Address C. H. TILLQUIST, Osborne, Kansas.

BAKEWELL'S EXPANSION POLANDS.

Headed by Expansion Over 53110. Boar with immense size and good quality. Sows are daughters of old Expansion, Pan Fanc, Grand Look, etc. Herd established 25 years. Choice spring pigs for sale. See Expansion Over at Nebraska State Fair. J. W. BAKEWELL, Endicott, Neb.

LOBAUGH'S BIG SMOOTH ONES.

For sale, 15 strictly top boars and 40 extra good gilts, early farrow; all but two litters sired by Kansas Ex, the best breeding Expansion bred boar in Kansas; out of sows by Chief, the 1,000-pound Mouw bred boar. A. C. LOBAUGH, Washington, Kan.

175 BIG TYPE POLAND CHINA PIGS.

Both sexes, March and April farrow, sired by Bell Metal M. 54349 and Success 53651. Heavy boned and strong. Strictly big type. Reasonable prices. J. E. BOWSER, Abilene, Kan.

TWO YEARLING BOARS FOR SALE.

Fine Metal by Gold Metal and John C. Hadley by Hadley Boy, both good individuals and have made good as breeders. Will price reasonable. JOHN C. HALDERMAN, Burchard, Nebraska.

PRINCE HADLEY Heads Our Poland China herd.

His spring pigs are great. Others by Colossus, Mogul's Monarch, Expansion's Son, Sunflower King, Banner Boy and Meese's Mastiff. Write for description of pigs. W. C. SINGER, Hiawatha, Kan.

80-FEBRUARY POLAND CHINA PIGS—80

Large, smooth and good individually. Sired by my herd boars: Wilkes Again and Grand Success, out of as fine as lot of big type sows as there is in the West. Inspection invited. J. B. WHIPPLE, Fall City, Nebraska.

STRYKER BROS.' HERD POLAND CHINAS.

The greatest show and breeding herd in the West. Write your wants and they will please you. Buy the best and make the most. They breed the kind that win; the kind you want. Address STRYKER BROS., Fredonia, Kansas

EXPANSIVE.

The \$1,000 boar, heads my herd of Big, Smooth Poland Chinas. A few choice boars by him for sale. Fall sale November 1. H. B. WALTER, Effingham, Kan.

GEO. SMITH'S BIG POLANDS—

Headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust. 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well. George W. Smith, Burchard, Neb.

BLUE GRASS VALLEY STOCK FARM.

Big boned Poland Chinas. Herd headed by Big Hadley, King Ex. 3d, Long John the 2d and Missouri Wonder. Four of the best breeding boars of the breed; young stock for sale at all times; everything guaranteed as represented. W. A. Baker, Butler, Mo.

THE BIG POLAND CHINAS.

Spring pigs by Gold Bell Metal, Expansive, Expansion Over, Expansion See and Guy's Monarch. Out of Mogul, Expansion, Big Hadley, Tecumseh and Wonder bred sows. Write for description. Freeland & Williams, Valley Falls, Kan.

100 POLAND CHINA SPRING PIGS.

Booking orders to ship later. Get your order in early and get first choice. Mostly sired by Flibuster 150665, a heavy boned son of the great Meddler 2nd. Pigs out of dams of the best breeding. 240 head in herd. Description guaranteed. J. D. Willough, Zenda, Kan.

GRANER'S BIG TYPE POLAND CHINAS.

Headed by Guy's Monarch 51415, the boar with frame for 1000 lbs. and 19 1/2-inch bone. Sows, daughters of Expansion, Colossus, Bell Metal, Big Hadley, What's Ex., etc. Choice spring pigs for sale by Expansion, Colossus, Expansive and Guy's Monarch. H. C. GRANER, Lancaster (Atchison Co.), Kan.

ELMDALE POLAND CHINAS.

Over 100 head in herd. Our aim quality and size. Choice lot of spring pigs for sale. Reasonable prices. C. S. MOYER, Nortonville, Kansas.

CHOICE POLAND CHINAS.

Am offering a few extra good breed sows and gilts at very reasonable prices. All the most fashionable breeding and the easy-feeding kind. Families of Impudence, Meddler, Sp.'s Perfection, Meddler 2nd; other good breeding represented. Write your wants. I can please you. E. G. MANDERSCHIED, St. John, Kan.

MEISNER'S BIG POLAND CHINAS.

Headed by Metal Choice. Sows are daughters of such sires as Nebraska Jumbo, Pawnee Chief, Big Hadley, etc. Fifty fine spring pigs to date and more sows to farrow. Inspection invited. T. J. MEISNER, Sabetha, Kansas.

ADVANCE STOCK FARM.

Home of big smooth Poland Chinas headed by a great son of Big Hadley his dam, Gold Dust Tecumseh, top of Blain's closing out sale. 60 choice pigs, all but one litter by this boar, out of extra big sows. A. E. ENOS, Ramona, Kansas.

STUMP'S BIG POLAND CHINAS.

200 head in herd, Kansas King by Grantier and Capt. Hutch by Captain Hutch in service. Great lot of pigs to select from. Write for prices and descriptions. W. R. STUMP, Blue Rapids, Kansas.

KRAMER'S BIG POLAND CHINAS.

45 Feb. and March pigs sired by L's Hadley by King Hadley sweepstake boar at Neb. state fair last year. Out of mature sows of Expansion, Grand Look and Price We Know breeding. D. A. KRAMER, Washington, Kan.

SUNNY SLOPE STOCK FARM.

Poland China hogs, Shorthorn cattle and Shropshire sheep. 50 growthy spring boars and gilts. Yearling and spring rams for sale. Visit my herd and make your selections or write me and mention the Kansas farmer. W. T. HAMMOND, Ertis, Kan.

CLAY JUMBO 800 lbs.

The biggest yearling Poland China boar in Kansas heads our herd. Frame for 800 lbs., with plenty of quality. 100 pigs ready to ship. Reasonable prices. Herd established twenty years. H. W. GRIFFITH, Clay Center, Kansas.

AUCTIONEERS

H. R. LITTLE Live Stock Auctioneer

Abilene, Kan. A close student of men and methods with twenty years' experience as a breeder of Shorthorns. Entire time devoted to auction work. Reasonable charges for first-class service. Write or phone.

FIELD NOTES.

Jerseys Gaining Ground in Kansas. Mr. G. W. Wilson of Burden, Kan., writes in the Jersey Bulletin that there are, as yet, very few Jersey men in Cowley county but they are gaining ground. He says: "I think more Jersey cattle will be bought in Kansas in the next two years than any state in the Union, and we want to know where to buy. So show up, breeders; tell us where you are and what you have for sale. When I brought my bull from Missouri two years ago, there was strong talk of lynching me. Now men are coming five and six miles to breed their cows to my bull, and never ask the price. Don't you think that is going some?"

About 1,000 horses will be on the Interstate Fair and Exposition grounds in Denver when the Colorado exposition derby is run on Saturday, September 3. In addition to the track events, which have brought so many blooded animals from all over America, the horse show will occupy a prominent part in the programme during the first week. The aviation and the automobile show will be open at the beginning, and during the second week will be added the cattle, horse, hog and sheep exhibits. All of the other branches of the fair will extend throughout the two weeks, and it is predicted that an immense crowd will be in attendance.

Bowser's Big Poland Chinas.

J. E. Bowser, the big type Poland China breeder located at Abilene, Kan., starts his advertisement in Kansas Farmer this week. Mr. Bowser offers 175 March and April pigs sired mostly by Bell Metal M., an excellent son of the noted Bell Metal. His dam was a great sow sired by Garrison 27202. The remainder of the pigs are by Mr. Bowser's good breeding boar Success by Grand Success out of a dam by Osborne's Perfection. The pigs are very heavy boned and have long, smooth bodies. Among them are daughters of Advance, Gold Metal, Jumbo Perfection, etc. One hundred and seventy-five head, a big lot to select from, and it will pay any one to visit this herd. When writing Mr. Bowser please mention Kansas Farmer.

Ninety Spring Pigs and All Good.

The writer called on I. R. Berkey, the well known Poland China breeder at Louisville, Kan. This week and found the best bunch of spring pigs we ever saw on the Berkey farm. Mr. Berkey has raised about 90 head and they have both size and quality. They are sired by the following herd boars. Panic by Meddler 2nd, Parnell, M. M. Correy and Donald Perfection by Chief Perf. 2nd. The sows in the herd are by Perf. 5, L. Imps Image by Impudence, and all the popular show type. Mr. Berkey will hold a sale on October 23, and sell 50 head of his Poland Chinas. Watch for further mention in Kansas Farmer. If you need a choice spring boar or gilt write Mr. Berkey for prices on pairs or litters. His hogs are first class and are priced to sell.

Lobaugh's Really Good Ones.

In his advertisement which appears in this issue of Kansas Farmer, Mr. A. C. Lobaugh directs attention to and offers for sale the tops of his crop of early spring pigs. He has for sale 15 big, smooth, husky boars and 40 gilts. They are very large and smooth and have more quality than one would expect to see when it is remembered that the sire of their dams was a hundred-pound boar bred by Peter Mouw. All but two of the litters are by Mr. Lobaugh's great breeding boar Kansas Ex sired by Expansive; his dam was Maud Miller 29th bred by Thompson Bros. and sired by Kansas Chief by Chief Tecumseh 3rd. Kansas Ex is one of the few big sires that breeds quality in the extreme. He is large and one of the most meaty boars the writer

AUCTIONEERS

JAMES T. McCULLOCH,

Clay Center, Kansas. Pure bred sales a specialty. Better equipped than ever before to give patrons good service. Reasonable charges for first-class service.

L. E. FIFE LIVESTOCK AUCTIONEER,

Newton, Kansas. Breeder of Percherons, Shorthorns and Duroc Jersey hogs; posted in pedigrees; terms reasonable. Write or wire for date.

W. C. CURPHEY

LIVE STOCK AUCTIONEER. Write, phone or wire me for dates. ABILENE, KANSAS.

COL. JOHN BRENNAN,

Live stock sales a specialty. Sales cried anywhere. Address at ESBON, KANSAS.

FRANK REGAN, ESBON, KAN

Years of continuous selling has proved my ability and my employers are my best advertisers. Write, wire or phone for dates.

Jas. W. Sparks AUCTIONEER.

Live Stock Auctioneer. Address at Marshall, Mo.

JOHN D. SNYDER

AUCTIONEER. Winfield, Kansas. I sell for many of the most successful breeders.

LAFE BURGER

LIVE STOCK AUCTIONEER. Write or wire me for date. WELLINGTON, KAN.

FRANK J. ZAUN.

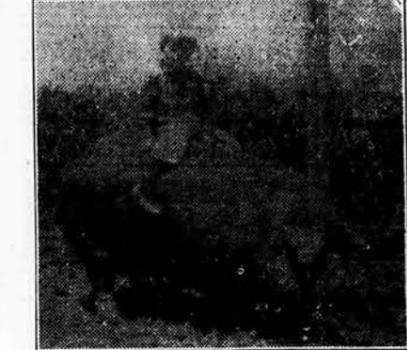
Fine Stock Auctioneer. Independence, Mo. Am selling for the best cattle and hog breeders in the West. Terms very reasonable. Write or wire for dates. "Get Zaun, He Knows How."

COL. CARL G. ANDESON

Live Stock Auctioneer. Years of experience and a graduate course in the best auction school of America enables me to get the value of your stock. Write for dates. Can also sell you a farm or sell the one you now have. Write me. Address: Athol, Smith County Kansas.

ever saw. Two extra good litters are by D. A. Kramer's big boar L's Hadley. The pigs have good, wide heads and stand up on good feet and legs. Write for prices and description, mentioning Kansas Farmer.

H. B. Walter, Effingham, Kan., makes an important change in his advertisement this week and incidentally mentions that crop conditions in his locality are fine. He writes that his Poland China pigs are coming along in great shape and that he will have a fine offering by November 1, the date of his sale. Among these pigs are some sired by Expansive, Logan, W. Colossus and Mastery. Some of the Expansive boars are high-class herd headers and, as he has more hogs than he needs for his sale, he is offering some of them at private sale. Mr. Walters has an enviable reputation as a breeder and his hogs make good. Write him about them.



The cut shown above is from a photo of F. W. Fulton's great Poland China boar, Fulton's Chief 53154, sired by Best Metal by Gold Metal. His dam was Black Beauty by Thompson's Quality by First Quality. Fulton's Chief is a boar of great size and quality and is one of the best and most uniform breeders to be found in any herd. Mr. Fulton will show him at Hutchinson this year. The 45 head of gilts and spring boars and gilts that go into Mr. Fulton's Oct. 24 sale will all be by this boar. Write Mr. Fulton for catalog at Waterville, Kan., and mention Kansas Farmer.

J. D. Spangler's Poland China Sale.

On Tuesday, Sept. 20, Mr. J. D. Spangler, breeder of the large type Poland Chinas at Sharon, Kan., will hold a sale of sixty growthy spring pigs. Thirty of these will be high class boars and thirty smooth gilts. They are the large, easy feeding kind, with good bone, smooth coats and plenty of style and quality. Some of the pigs were sired by Spangler's Hadley, one of the greatest breeding boars in the state. Others are by A Wonder, the great 1,200-pound Wheeler hog, Columbia Chief 2d, Bell Metal and Sharon Tecumseh by Big Tecumseh. These pigs are out of the largest and best sows Mr. Spangler ever owned, including Lady Mastodon 32d, Mastodon Maid 8th Lady Wonder 6th, Mastodon Maid 42d and others. The offering has been raised on alfalfa pasture, with plenty of fresh water and just enough corn to keep them growing. They will be in splendid condition by sale date and will make good for the buyers. Write Mr. Spangler for catalog, mentioning the Kansas Farmer.

Smith County Fair.

The rains last week interfered somewhat with the opening program of the Smith County Fair but on Thursday the crowds began to grow as the weather cleared and the fair was continued till Saturday. A good

display of stock was in the barns. In the Percherons O. A. Scott of Athol and C. F. Hutchinson were the principal exhibitors. In the Shorthorns Phillip Albrecht of Smith Center and C. A. Cowan, Athol, Kan., the ribbons being about equally divided. In the Durocs, the exhibitors were Rinehart & Son of Smith Center and Phillip Albrecht of Smith Center. Rinehart & Son won 1st on aged boar King of Kant Be Beat, 1st on yearling sow by same boar, 1st on boar and 1st on gilt under 6 mos. by Golden Rueter, Phillip Albrecht, 1st on aged sow, 1st and 2d on boar over 6 mos. and under 1 yr., 1st on sow over 1 yr. and under 2 yrs. In the Polands, W. T. Hammond of Fort, Lambert Bros. of Smith Center, W. J. Bowman of Smith Center were the exhibitors. Mr. Bowman won 1st on aged boar, 1st and 2d on boar over 6 mos. and under 1 yr., 1st and 2d on aged sow. Messrs. Lambert won 2d on aged boar, 1st and 2d on boar under 6 mos., 1st and 2d on sow under 6 mos., 1st on litter of 5 pigs, 1st on the get of sire. Mr. Hammond won 1st and sweepstakes any age or breed on boar and sow, 1st on aged herd over 1 yr., 1st and 2d on sow under 2 yrs. Mr. Hammond also exhibited a fine bunch of Shropshire sheep.

H. F. Pelphrey & Son, breeders of Shorthorns and Poland Chinas at Humboldt, Kan., write that they now have 36 fine boar pigs that weigh from 150 to 200 pounds each and a nice bunch of fall yearling gilts for sale. These are good ones as any one who has ever seen their hogs will know. They will be priced worth the money. The Pelphreys also have a few good young Shorthorns that they could spare. Among these are 3 fine bull calves and 1 or 2 heifers. Please mention the Kansas Farmer when you write them.

H. W. Walter, breeder of Poland China swine at Effingham, Kan., in a recent letter to Kansas Farmer, writes: "The pigs are coming along nicely, and I believe I have a better bunch of hogs than I ever before drove into a sale ring. The pigs by old Expansion are certainly great. My inquiries for bred sows and spring gilts have been good, and I just recently sold two fine March pigs a boar and a sow, to a firm of well known breeders."

Anderson's Make Good Durocs.
Farmers and breeders who are in the market for Durocs that make good should be interested in the advertisement of Mr. C. O. Anderson, which appears in this issue of Kansas Farmer. Mr. Anderson sells his pigs while they are young; in this way he can handle more of them and sell them very reasonably. It costs but little for express, and those that Mr. Anderson sends out are always true to description. This year's crop of pigs are by Kant's Model 52471, one of the very best breeding sows of the noted Kant Be Beat and Gold Finch Jr. 80365. Among the dams of the pigs are the great sow Baxter's Model, one of the highest priced sows brought to Kansas the past year. She was bought by Mr. Anderson at the Baxter & Corner winter sale and was the highest priced sow sold. She was a prize winner at Illinois and Nebraska state fairs last season. Mr. Anderson's sows represent as good breeding as there is, and nothing but good individuals have a place in the herd. Write Mr. Anderson at Manhattan, Kan., and mention Kansas Farmer.

Makes Things Hum.
The adaptability of the modern gasoline engine to the varied requirements of "diversified farming" is strikingly illustrated by this farm scene, where one of the famous Fuller & Johnson double-efficiency engines is running the silo filler. This type of engine, the highest development of the convenient water-cooling system, is gaining great popularity. The picture shows the regular Fuller & Johnson engine mounted on a steel truck, equipped with a complete saw rig and feed grinding outfit. This farmer makes more money in a year than many of his neighbors, with equal opportunities, make in two years. And he doesn't work half as hard as they. He



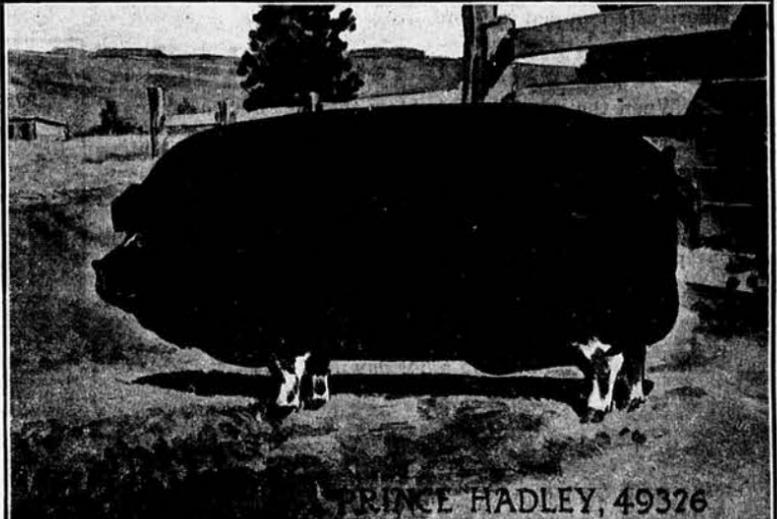
hasn't any more brains than his neighbors, but he keeps his brain busy thinking out short cuts to results. His Fuller & Johnson engine fills his silo, grinds feed for his stock, cuts his wood, bales his hay, pumps the water and does a great many other hard jobs that the neighbors do by hand. It is gratifying to note that more gasoline engines are being purchased by farmers today than ever before. Fuller & Johnson engines seem to be leading sellers. They possess many important advantages, being extremely durable, easily managed and very economical in fuel consumption. They have a solid cylinder head, hence no cylinder head joints to leak and pack. The roomy, open water-jacket allows free circulation of the cooling water. The farmer who is just buying his first engine cannot be too careful in making his selection. He may get the engine cheap, but pay dearly for his experience. A gasoline engine should be regarded as a permanent, money-making investment. The Fuller & Johnson engine is sold through dealers only. The manufacturers are glad to supply their catalogues to prospective buyers. If you are interested in high-grade engines, write to the Fuller & Johnson Manufacturing Company, 128 West North Avenue, Madison, Wis., for catalogue of double-efficiency engines.

National Dairy Special Prizes for Holstein Cattle.
The management of the National Dairy Show has been notified by the officials of the Holstein-Friesian Association of America that they will offer special cash prizes for first, second, third, fourth and fifth winners in the eleven different classes of Holstein cattle. A total of \$325 is offered in these classes. In addition to this a purse of \$150 is divided between the five best exhibitors' herds, herds to consist of full 2 years old or over, cow 3 years old or over, heifer 2 years old and under 3, heifer 1 year old and under 2, and heifer under 1 year. The five best breeder's young herds, consisting of bull under 2 years, two heifers 1 year old and under 2, and two heifers under 1 year (all except bull to be bred by exhibitor) will be awarded a total

of \$80. Fifty-three dollars will be awarded in each of the two classes "get of one sire, four animals, either sex," and "produce of one cow, two animals, either sex." Sixty-four dollars will be awarded to champions in six different classes. The cup won by the Nebraska team will be returned to the association and competed for again this year. The value of the cup is \$150. These liberal prizes offered, in addition to those offered by the National Dairy Show, should attract a fine exhibit of these popular dairy cattle.

A \$2 Book Free.
If you want the most reliable information regarding the use of cement for building purposes, don't fail to write to the Alas Portland Cement Co., of 30 Broad St., New York City for a copy of their book entitled, "Concrete Construction About the Home and on the Farm." If you mention the Kansas Farmer you will receive prompt attention and the book will come to you by return mail free of charge. Unlike most books of this kind, which are generally issued purely for advertising purposes, it contains over 100 pages of practical up-to-date information on the cement building question as well as some fine illustrations and building plans which make the instructions so simple that any man can understand them. It is really a valuable book for any farmer who is interested in cement building. Don't fail to write for it if you want the most reliable information to be obtained on this subject.

The A B C of Bee Culture.
The new edition of this very popular book is off the press and it is a compilation of carefully tried methods and plans so that the book is not only a safe guide for the beginner, but is an authority and ready reference for the professional beekeeper. This book has already had a sale of over 115,000 copies, which is probably much greater than any other work on bee culture. It is published by the A. I. Root Company of Medina, Ohio.



Prince Hadley 49326 at head of W. C. Singer's herd of Poland Chinas at Hawatha, Kan. Prince Hadley is one of the best boars of the breed in Kansas. After a painting by Albert T. Reid.

In this issue John H. Hall, Box 324, Hastings, Neb., advertises a Kansas farm for sale at a bargain. It is nine miles from Colby, and is priced specially low for a quick sale. Look up their ad on Kansas land pages and write, mentioning this paper.

Dr. Stewart's Shorthorns.
Dr. R. A. Stewart of Hutchinson, Kan., will have an exhibition at the Hutchinson fair next week and will show his herd of Shorthorns. Dr. Stewart will show his chief herd bull, Forest Knight, and several of his get. We ask our readers to look up this herd and carefully inspect them.

C. S. Nevin's Shorthorn Sale.
The well known Shorthorn and Poland China breeder of Chiles, Kan., will show a great string of his Shorthorns at Hutchinson, Kan., next week. Our readers who attend the leading fairs of the Southwest should not fail to look for Mr. Nevin's herd of famous Shorthorns. See ad in next week's issue of Kansas Farmer.

T. K. Thomas & Sons, Dover, Kan., are out again with a winning herd of Shorthorns. This herd has a national reputation and from the time they make their first appearance in the show ring at the Iowa State Fair until they have completed the circuit at the American Royal they have "got the habit" of winning. The get of Gallant Knight of which they make up their young herds largely were of such wonderful symmetry and uniformity that they were always inside the money. Note their advertisement and write them your wants, mentioning the Kansas Farmer.

Dorr's Durocs and Shropshires.
A. G. Dorr of Osage City, Kan., is advertising Duroc Jersey boars and Shropshire sheep. Mr. Dorr started his herd 19 years ago and is consequently one of the oldest Duroc Jersey breeders in the state. He now has for sale 20 spring boars that were sired by a son of Kant Be Beat and Young Orion. They are out of large mature sows and large litters. Mr. Dorr also breeds Shropshire sheep and he has some excellent individuals which he believes to be as good as any in the state. There are 7 rams for sale. Two sired by an imported ram and 5 by an American bred ram that weighs 250 pounds and sheared 16 pounds. These rams have extra bone and are well covered with wool. Breeders or farmers who are looking for either Durocs or Shropshire may write to Mr. Dorr with confidence as to both quality and prices. Kindly mention Kansas Farmer.

Chapin & Nordstrom for Bred Gilts.
Chapin & Nordstrom, Green, Kan., have 25 of the choicest Duroc Jersey bred gilts to be found anywhere. They are every one by the splendid sire, G. C.'s Kansas Col, and their dams were the best sows both in breeding and individuality that have ever been in the Chapin herd. This bunch of fall gilts should attract buyers. They must be sold right away in order to make room for the fall pigs now being farrowed. At this time there is about 200 head on the farm and the stock must be reduced. Attractive prices are being made in an effort to move them quickly.

The Greenwood County Fair.
The Greenwood county fair, which was held at Eureka, Kan., last week, proved to be a most successful one in every way. The displays of agricultural products, fruit and poultry were perhaps the best that have ever been made on these grounds. Acting Secretary C. H. Weisner is entitled to a lot of credit for his very capable handling of this fair. For a county fair the display of live stock was unusually good. The draft horse classes were especially well filled with strong exhibits, while the showing of cattle and hogs was equally creditable. One of the strong features of this fair is the loyalty by which the people of the county support it. Not only do they come and bring their families, but they make exhibits as well. This is the only way by which any fair can be made to succeed. There are in any community always a few active, energetic men who have foresight enough to realize the value of a fair and who give of their time, their energy and their money to bring success. Among the successful exhibitors of Poland Chinas were F. E. Brown and E. A. Harris, both of Fall River who divided the prizes with first on aged boar going to Mr. Brown. Among the Berkshire men J. T. Bayer of Yates Center won most of the prizes, though W. M. Bilson of Eureka had some good stuff that was appreciated by the judges. R. D. Martin and Charles Stith of Eureka were contestants for Duroc Jersey honors, the prize for the aged boar going to Mr. Martin. In the championships where all breeds competed Mr. Martin won on his Duroc boar, while the prize for boar and four of his get was won by Mr. Bilson with his Berkshires. R. D. Martin also secured the purple ribbons for sow, any age or breed, and herd of one boar and three sows any age or breed. T. I. Wooddall of Fall River was the big exhibitor of Herefords, and J. A. Lande & Son of Rose, of Shorthorns. Mr. Lande is secretary of the Woodson County Breeders' Association and also superintendent of cattle at the Topeka State Fair.

the third highest average of all sales reported last fall, and at his winter sale, composed entirely of bred gilts, with but one bred sow in the offering, he ranked first for bred gilt sale. The pigs this year are out of mated sows by Big Hadley, King Do Do, Blain's Tecumseh 2nd, Expansion See Johnson's Chief and Flander's Giant Pride.

Tiller's Duroc Boars.
Mr. O. A. Tiller of Pawnee City, Neb., offers at private sale some very choice Duroc boars and in writing about them mentions in particular a couple sired by Tom Davis and out of Arion's Pride, he by Old Orion. These are February pigs and Mr. Miller says one is a regular herd boar prospect. One is by Tom Davis and out of Elleree, the sow that won first at Iowa and Nebraska and was third in class at St. Louis World's Fair. This pig is of March farrow and a good one. Three more are by Tom Davis and out of a daughter of Elleree, sired by Nebraska King. These are also of March farrow. Three more good ones are by Chief's Valley by Valley Chief, their dam by the noted Farmer Burns. Mr. Tiller writes that all of the bred sows are sold and the gilts must be reserved for his coming sale.

Write Johnson & Nordstrom about the Jersey bull calf advertised in this issue. He is richly bred and will be priced reasonable.

Frank Regan, live stock auctioneer of Eabon, Kan., has recently started a card in Kansas Farmer. Mr. Regan is well acquainted with pedigrees and has conducted some of the largest pure bred Percheron horse sales in Jewell county. He has also had very successful cattle and swine sales and his best advertisement is the satisfied breeders who have hired him to cry their sales. He has still a few desirable dates left, and anyone contemplating holding a sale will do well to write Mr. Regan.

Drybread's O. I. C.'s.
Mr. J. M. Drybread, the successful O. I. C. breeder located at Phelps City, Mo., writes that there has been such a demand that he has sold off so close he will be unable to make a fall sale, so he is offering for quick sale six first class spring boars weighing about 100 pounds, also ten choice spring gilts and three fall gilts. Mr. Drybread breeds the best of this popular breed and takes pleasure in sending out stock that always pleases. Write him at once.

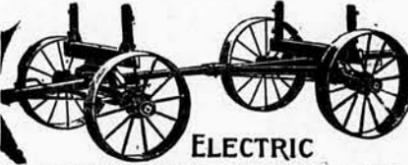
Help for the Farmer.
That is the idea—to help the farmer—for whatever helps him helps everybody. Bumper crops and prosperous farmers make a bumper world filled with strong, well-to-do, happy people. With this in mind the International Harvester Company of America has organized a department for the dissemination of every sort of information of interest to farmers and others interested in agriculture. This new and important departure bears the name of I. H. C. Service Bureau, and is at the service of all who are in need of the particular kind of service it has to offer. The service is individual as well as general. Every question growing out of the farm and farm life will be answered by experts without charge. No matter where a farmer may live or what his problems may be, all that is necessary to secure the most accurate solution of them, based on the latest scientific information, is to write out and send to the I. H. C. Service Bureau the particular questions confronting him. The answers will be returned promptly. The experts engaged by the bureau have made a study of soils, fertilizers, rotation of crops, bacteria, climatic conditions, irrigation, animal husbandry, the care of farm implements and machines, etc. Their knowledge, experience and constant study and research will make the service bureau a valuable assistant to farmers, dairymen, fruit growers and others. The bureau will keep in close touch with and co-operate in the work now carried on by agricultural colleges and the government experiment stations, and in addition the experts employed by the International Harvester Company of America will carry forward research work along independent lines.

Tripp & Sons' Poland Chinas.
One of the good Poland China herds of Kansas is located at Meriden and belongs to F. A. Tripp & Sons. F. A. Tripp has bred Poland Chinas for twenty years and has won quite a reputation as a showman, having won good premiums at the best shows in competition with the best breeders of several states. The present herd boar is Mastery 5392, a Mogul and Expansion bred boar. The spring pigs, of which there are about 50, are exceedingly uniform, having excellent backs and feet and good legs. Among the sows is White Brush O. K. by Prince O. K., her dam a line bred Mischief

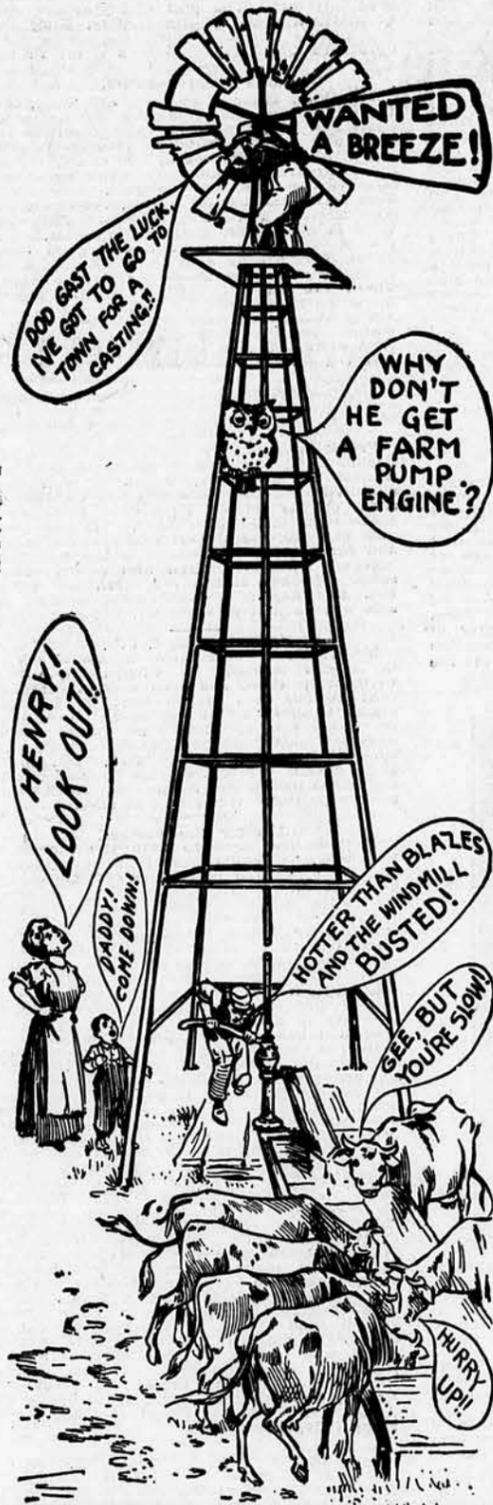


Maker sow. She has a fine litter of ten. Let's Darkness is the dam of the four pigs that won every ribbon shown for at St. Joseph last year. This sow is a full sister to the boar that won grand championship at Sedalia last year. Winnie Perfection is also a sister to Missouri Champion boar. Consistency is the sow that won first at St. Joseph last fall. The cut shown is from a photo of Lady Anderson 89628 with her present litter of fine pigs.

Low-Wheel Wagons.
One of the greatest conveniences on any farm is a good, low-wheeled wagon. Such a wagon, especially if the running gears are of metal, is always a paying investment. Modern manufacturing methods have made it possible to buy metal wheels that will



fit ordinary wagons, for very low prices. As labor saves a set of these wheels "make a hit" with all who use them. The Electric Wheel Co., Quincy, Ill., is one of the largest manufacturers in this line and will gladly send their catalogue of low wheel wagons to any of our readers on a simple postal card request. Kindly mention Kansas Farmer when you write.



Hotter than Blazes—and the WINDMILL BUSTED!

When the sun is blazing hot and the cattle are crazy with thirst, something is almost sure to go wrong with the windmill. Either the wind won't blow or the mill breaks down—a casting goes to smash or the vane drops to the platform—or the blades of the wind wheel drop off—or the whole thing comes crashing to the ground when the wind goes on a rampage.

Then the Trouble Begins!

It usually takes an expert to repair a broken-down windmill. It's dangerous work tinkering around the top of the mill. Many a farmer has been hurled to his death from the dizzy height of the swaying tower. Nine times out of ten the break-down means a trip to town for necessary repair parts. And the chances are that you have to send to some distant factory. That means weeks of delay and a lot of expense. In the meantime, all the water for stock and house use must be laboriously pumped by hand.

No Wind—No Water!

When the wind doesn't blow there's "nothing doing." And in mid-summer the wind often dies down for weeks at a stretch. The water in the tank quickly gets stagnant—full of "wiggles." The scum that forms means that millions of living organisms are poisoning the water! Such water is unfit for stock, and yet they are forced to drink it unless you or the hired hands or the boys "off with your coats" and pump! pump! pump! pump! pump! pump!

Does the Hired Man Enjoy Pumping by Hand for a Bunch of Thirsty Stock? SURE He Does → **NOT!**

It's no picnic to pump on a hot day until all the horses and cows on the place have filled their hides with water. Makes the hired man "hot under the collar" to have to pump water by hand for a bunch of thirsty stock. In fact, everybody gets "grouchy" when the windmill goes on a strike.

The Little Farm Pump Engine Beats Any Windmill!

Thanks to the wonderful Farm Pump Engine, farmers are no longer forced to depend on unreliable windmills.

The engine outpumps the windmill ten to one. Pumps 800 to 1,000 gallons per hour, regardless of wind or weather, heat or cold. Never stops till the job is done. Keeps troughs full of fresh water—all the time! Supplies unlimited water for family use, for watering lawns and gardens, washing buggies and automobiles and for constant fire protection.

MAN KILLS COW IN FALL

Farmer Drops Safely 65 Feet to Animal's Back.

BEDFORD, La.—Martin Van Dersly, a farmer near here, fell sixty-five feet, landing squarely on the back of a thoroughbred cow valued at \$75, and was practically uninjured. The cow is dead. Farmer Van Dersly was repairing the top of his windmill when a sudden shift of his windmill turned the fans in the wrong direction, which swept him from his perch. At that instant his prize cow came up for a drink of water, got directly beneath him and stopped. Her master's feet struck her just behind the shoulders. Her back was broken and she was ordered killed.

DEALERS!

Write for Special Proposition



FULLER & JOHNSON FARM PUMP ENGINE

Pumps 800 to 1,000 Gallons Per Hour

Water When You Want It! No Waiting for Wind!

No Stops for Repairs! No Platform to Build! No Belts, Arms, Jacks, Anchor Posts, Etc.

This powerful little pumping engine is complete in itself. In fifteen minutes after you get it you can have it running like a top, pumping 800 to 1,000 gallons per hour. Fits any pump. Just four ordinary nuts to tighten. It's as high grade in materials and workmanship as best automobile engines. Important working parts enclosed in metal case—no danger of accidents. Runs without sparks, flame or odor. A perfectly air-cooled engine, without fans or cooling attachments. Has 4-inch pulley for running all Hand-Power Machines, such as Cream Separators, Fanning Mills, Feed Cutters, etc. Move it anywhere on a wheelbarrow.

Thousands Sold! Every Engine Has Made Good! —Owners Delighted!

The engine costs less than a good windmill, and thousands have already been sold. The fame of the Farm Pump Engine is spreading like wildfire.

It is rapidly supplanting windmills, which are dangerous in high winds, useless on calm days and always out of fix when the need for water is greatest.

Every Engine Guaranteed by Fuller & Johnson, whose larger engines have won a world-wide reputation for high efficiency.

How to Get a Farm Pump Engine Put your name and address on the coupon and by return mail we will forward the Farm Pump Engine Book and name of nearest dealer, who has the engine on exhibition. See the engine in action! The dealer will not need to say a word—the engine will speak for itself. It will pump you so full of enthusiasm that you will throw up your hat and shout—"Me for the Farm Pump Engine!" (122)

FULLER & JOHNSON MFG. CO., 153 W. North Ave. Madison, Wis. Estab-lished 1840

Send Your Name On This Coupon

Fuller & Johnson Mfg. Company, 153 W. North Ave. Madison, Wisconsin

Please send me at once books checked below.

FREE BOOKS and BULLETINS

Name.....

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- FARM PUMP ENGINE CATALOG
- HIGH-POWERED ENGINE CATALOG