Forty-Eight Pages

The FARMERS MAIL AND BREEZE

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Vol. 45. February 13, 1915 No. 7.

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Cowpeas

Cowpeas is an especially valuable crop for soil improvement in Kansas. More than this it produces hay that compares quite favorably in feeding value with alfalfa. Its value is quite generally recognized by most Kansas farmers, and the main thing that is holding down an extension in its acreage is the high cost of the seed.

There is no special justification for the high price of cowpea seed, when the cost of production is considered. High yields of the seed can be produced in Kansas, as G. R. Wheeler at Tyro has well shown. Mr. Wheeler and his neighbors thresh the seed with a Koger harvester, which does not crack them as a grain separator would. Good pea and bean harvesters can be purchased from $100 up—they are not especially expensive. If a farmer or a company of farmers owns a harvester of this kind, cowpea seed can be produced cheaply—so cheaply that the crop can be used profitably in soil improvement to a much greater extent than now.

Dr. McCampbell

Just $1,000 was saved for a Fredonia horseman last week by Dr. C. W. McCampbell, secretary of the Kansas Live Stock Registry board. P. C. Young of Fredonia and J. A. Allen of Chanute, attorneys, were at the college investigating the records of a stallion sold to the man near Fredonia. Doctor McCampbell was able to furnish information about the pedigree so that the man was refunded $1,000. He has saved $97,600 to Kansas farmers in the last three years on the refunding of money obtained on fake pedigrees.

Dr. McCampbell has done good work in investigations in the breeding and feeding of horses. He is an especially competent teacher. More than this, he is the enemy of all the horse crooks who have, in some cases, given this business a bad name. A great deal of credit is due him for the rapid development of the horse raising business in this state.

Hay Farming

The prairie hay baling region of Kansas, of which Woodson county is the center, never has made the progress that it might have made. The hay business has done a great deal to drag down the yields and profits in this section. If the farmers would gradually work into livestock, and give up the hay business, the profits could be increased materially.

National Union

A better national organization among farmers is needed. Agriculture is the last great business of the country to get organized, and we are much behind the men in other lines. In speaking of this recently, David Lubin, the delegate of the United States to the International Institute of Agriculture, said:

"The farmers of this country are greatly in need of some national system of organization. There are nearly a score of organizations and associations of a national character to look after the farmers' interests relating to improved farming, marketing and credit, and the protection of the farmers' interest in general, but they all lack cohesion and stability, and because of their divided strength are unable to grapple with the momentous questions confronting the interests of the farmer.

"What we need is an organization along the line of the 'Landwirtschaftsradt' of Germany, provided for by federal law, with a part of the board of directors appointed by the government—such governmental participation will give it the stability that is so sorely lacking in our present associations and organizations. This council can have supervision over all rural organizations, including improved farming and rural credit, together with the appraisement of the value of all land entering into the land credit system; also the power to investigate into the causes of the high cost of distribution of farm products, to meet at the seat of government once a year to formulate such measures as may be necessary for congress to pass in the interest of the farmer.

"Remember that we are the government, and it is our duty to see that conditions are ideal, with equal rights to all, and if this is not the condition, and we take no active part in prescribing a remedy, we are neglecting to perform our proper functions in the matter of government."

War

Engines have been a vital factor in the present war in Europe. In the former wars, the armies were largely dependent upon human and animal power. In the present great conflict, the business administrators, upon whom depend the success or failure of the commissary and of transportation found themselves face to face with the same old question of power. Speed here was the controlling asset, and the fact was accepted that motor-driven vehicles could best be adapted to speedy troop mobilization. It was found, too, that the huge armaments and siege guns could be transported from place to place only by the use of huge units of concentrated power.

Internal combustion power has become a war factor of tremendous importance, varying in its activities from the aeroplane to the huge oil tractor. They are furnishing not only the spectacular, but the most dependable service so far in the conflict. The heaviest guns are being drawn by motor trucks. The troops are moved by motor wagons. Dispatch carriers and aides-de-camp do not gallop hither and yon on their foam-flecked steeds, as in romance. Dispatch carriers and aides-de-camp go from point to point in this war on motor cycles. There are, at the front and in the rear, motor driven modern ambulances, soup kitchens, and ammunition wagons.

Woodlots

Much of the wood used on Kansas farms is cut in the winter; a great many trees are being cut every week now. It is to be hoped that the wood crop is being harvested with due regard to the future timber supply. Go into the woodlot with the idea of making improvement cuttings. More care along this line is essential. C. A. Scott of Manhattan, the Kansas state forester, desires to help in any way he can with this work. If you are in doubt as to the best methods to use in your woodlot you should write to Mr. Scott.

Cows

Dairy cows that calve in the fall not only produce more butterfat than cows that calve in the spring, but they also produce the larger part of it at a time when fat is the most valuable. Probably the most profitable months in which to have cows freshen are October and the first part of November. In order to do this, they should be bred during January or early in February.

Livestock

A system of livestock farming based on diversified crops is the most profitable plan for Kansas. Grain farming can lead only to soil exhaustion and to poverty.

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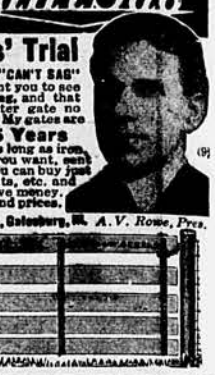

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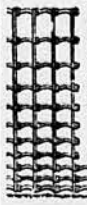

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THE FARMERS MAIL AND BREEZE

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Number 7

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Subscription $1.00 a Year

No Floods for Oswego

Livestock Is Featured Behind High Levees on the Deming Ranch

KANSAS STATE AGRICULTURAL COLLEGE 15 FEB 15 LIBRARY

By F. B. Nichols
Field Editor

IN THE lower part of the Deming ranch at Oswego is a little building that covers some interesting machinery. This is the pumping plant for the drainage system, to be used when the Neosho is above the outlet. When a flood comes down the Neosho the water gates are closed and the water that comes down the tiles is pumped over the dyke with a 15-inch centrifugal pump. This pump is run by a 65-horsepower engine. The outfit has been used several times since it was installed, and it gives efficient protection.

The Deming ranch, with its system of dykes and tiles drainage, is well protected from excessive rainfall. All the bottoms can be flooded above and below the farm, and still the water is kept off the Deming property, and the rain that falls on the land is pumped over the dyke into the river. While all this is going on the crops continue to grow and to produce profits while the crops on the other farms in the valley are carried down the stream or destroyed where they are.

This drainage work on the Deming ranch is a fine example of what can be done in reclaiming land. The farm used to be a difficult proposition. The soil is naturally low and flat, and very poorly drained. It was a sort of swamp so low that a very small rise in the river was enough to overflow the fields. It is a remarkable and inspiring thing to see what has been done to prevent this damage from the excessive water. The increased producing power of the land is paying a high rate of interest on the money that has been invested in the drainage system and the dyke.

The Deming ranch is a notable example showing the growing tendency toward larger farms. It consists of 3,660 acres, of which about 2,500 acres is bottom land. This place is owned by R. O. Deming, and L. S. Edwards, a graduate of the Kansas State Agricultural college is general manager.

The farming system used on this place is based absolutely on livestock. The aim is to feed everything grown on the place to profit producing animals, and to raise most of the feed for this livestock. Very little is purchased. The soil is mostly a fertile clay loam, and every effort is made to keep up its productiveness. A crop rotation which provides a leading place for the legumes, especially alfalfa is a feature. Much of this soil is bottom land along the Neosho river, and it is protected by a levee 11 miles long. About 1400 acres is tile drained and more of this work will be done as the time is available.

Especial attention is paid to the hogs, a department of which H. O. Sheldon has charge. Purebred Poland China hogs are kept, the average number being about 500 head. About 150 of these are breeding sows. An increasingly large proportion of these animals is being sold to the breeders. An effort has been made to get large size and bone in connection with good quality.

The hogs run on the alfalfa pasture in the summer and a great deal of the time in the winter. A light grain ration is fed while the hogs are on the alfalfa, but the aim is to get as much of the gain as possible from the pasture. The development of the hogs on rations high in protein obtained from the alfalfa, is the aim.

At farrowing time the sows have particularly good care. The farrowing houses have space for more than 50 sows, and the breeding arrangements provide that not more than this will have pigs at one time. These houses have cement floors, individual farrowing pens and a good deal of glass in the south walls. The temperature can be controlled fairly well, the percentage of loss is small.

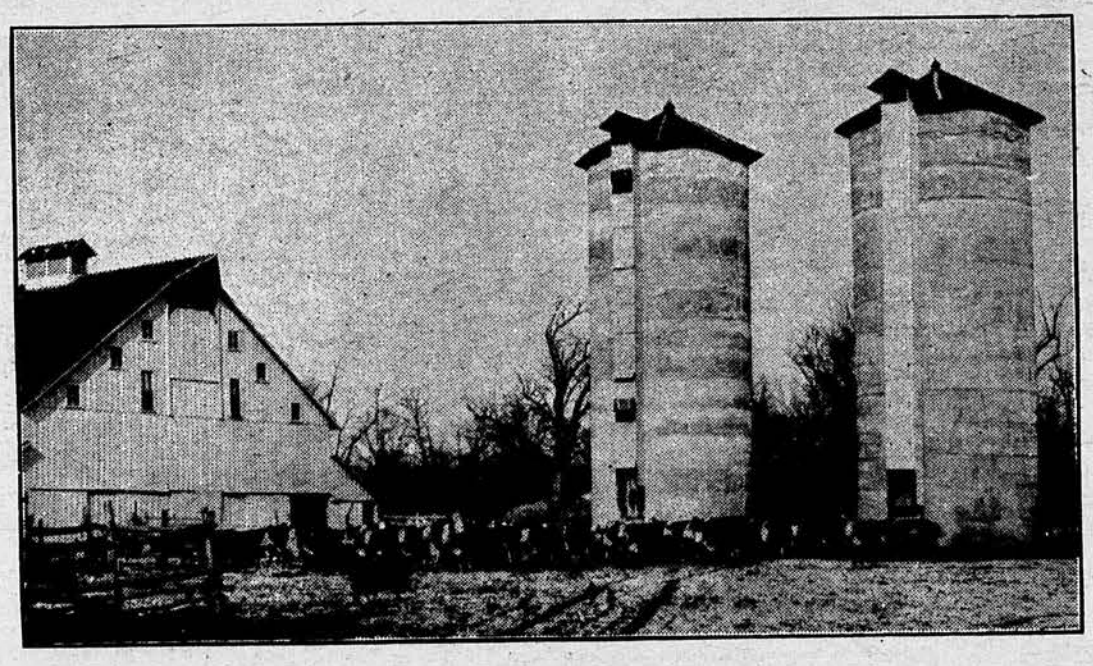
The cattle department is being developed with the baby beef idea in mind. About 500 head of cattle are on the place now, of which about 200 are breeding cows. These are well bred—almost purebred—Herefords. Mr. Edwards, the manager, is especially well pleased with this breed. The baby beef animals are being fed on silage, alfalfa hay and cottonseed meal mostly.

About 50 mules are kept for the farm work. While Mr. Edwards believes in the farmer keeping mares for the colts that may be raised, he thinks it is not possible to do this to any great extent on the Deming ranch for it is hard to get the hands to give them the proper attention. Mules are especially well adapted to doing the farm work on the larger places.

It takes a great deal of grain to feed all of the livestock on this ranch, and an effort is made to produce all of it. About 2,000 acres is in cultivation, and of this an average of about 600 acres is in wheat, 600 acres in corn and kafir, 400 acres in alfalfa, and about 100 acres in oats. The remaining 300 acres is planted to clover, timothy, cowpeas, peanuts, potatoes and other crops. A special effort is made to make as much of the land as possible produce two crops a year, by plantings after the spring grain crops are removed. Much of the silage was obtained last year from the cane and kafir planted after wheat. The feterita did especially well planted in this way—it averaged about 25 bushels an acre. As it was cultivated only twice it made some cheap feed.

The Deming ranch raises wheat, of course. The land used for this crop is disked with a tractor outfit just as soon as the shocks are removed. As all the work in preparing the ground is being done with engine power it is possible to get several hundred acres of the wheat ground planted to other crops in the brief period available after harvest. Cowpeas is planted in this way to a considerable extent.

Alfalfa is an important product. "A firm seedbed," said the manager, "is the most essential thing in getting a stand of alfalfa. The land is plowed and is then worked repeatedly with both disks and harrows until the capillary attraction is restored thoroughly. Our purpose is to make the soil conditions favorable to the young plants. This is necessary if they are to become established."



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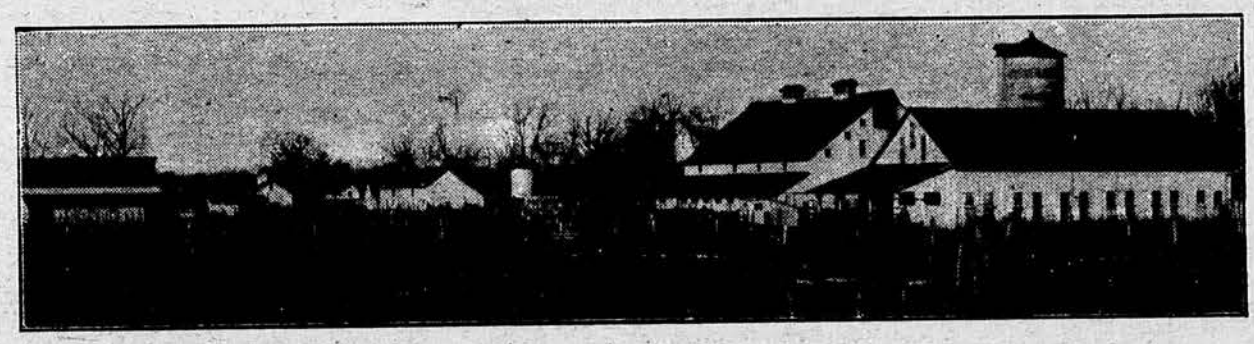

A Part of the Buildings at the Headquarters on the Deming Ranch. They Are Arranged for Efficiency and Economy in Livestock Production.

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Livestock Editor.....Turner Wright
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Farm Doings.....Harley Hatch
Markets.....C. W. Metsker

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The Farmers Mail and Breeze

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ARTHUR CAPPER, Publisher. T. A. McNEAL, Editor.
CHARLES DILLON, Managing Editor. A. L. NICHOLS, Associate Editor.

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Passing Comment—By T. A. McNeal

The Farmers' Union

The meeting of the Farmers' Union which took place last week after the Mail and Breeze had gone to press, was by far the most successful ever held by that organization. The attendance was as large as had been expected, but it was not so much in the number as in the quality of the delegates that the convention was notable.

A good many of these delegates visited this office. Almost without exception they struck me as conservative, level headed men who were not filled with impossible schemes that are impracticable in the present state of society. They understand present conditions pretty well I think, and are looking for such relief as can be obtained; not some time in the future when society, as a great many of us hope, will be established on a different and more altruistic basis.

There is one thing however, that frequently has suggested itself to my mind. Here are two organizations, the Farmers' Union and the Grange, both aiming apparently at the same object. Why should not these two organizations be united? It may be that there are sufficient reasons which I do not understand, but from the standpoint of an outsider it would seem that with their numbers and forces united they might accomplish more than they can accomplish divided.

Government Ownership

Editor The Farmers Mail and Breeze—I should like to have you discuss the question of government ownership of railroads and telephones.

READER.

I have at different times discussed at some length the question of government ownership of railroads. Public sentiment, gradually but certainly, is becoming more and more in favor of government ownership of railroads. Railroads began in a very small way as private enterprises. The first railroad in the United States was a horse railroad. The track was made of strap iron bolted on wooden rails. The car or wagon was pulled along on this track by horses. After the steam engine was invented it was a good while before there were any considerable lines of railroad. At that time it did not occur to any public man, so far as I know, even to suggest that railroads ought to be built and operated by the government as public highways even then were being built and operated. At that time it probably had not occurred to these early statesmen that railroads would be very important arteries of commerce. After a while capitalists began to see the possibilities of railroads as profit-producing industries and they of course were opposed to government ownership. However, quite early attempts were made at state-owned railroads. The Illinois Central was at one time a state-owned road.

It has been argued that this and one or two other projects of like character were not financially profitable and that therefore government ownership of railroads is a failure. Those putting forth this argument, however, always fail to mention the fact that practically every privately owned railroad in the United States has at some period of its career gone through bankruptcy and in order to save it and keep it operating it was necessary to put the road in the hands of a receiver appointed by the United States court. The management of roads in the hands of the United States receivers has compared favorably with the management of the same roads under private ownership, notwithstanding that these receivers generally have been appointed through political favoritism and very often without any previous knowledge of railroad management.

As railroad building increased until lines of road extended through most of the settled parts of the country and the control of transportation came more and more into the hands of railroad corporations, complaints of extortion, discrimination and other abuses became more and more common.

At first the railroad corporations stood on the proposition that railroads were private property and not subject to state or national control. This fight was carried to the Supreme court and the railroads lost. Since then the courts have established the right of the government to regulate railroads and to fix rates with only the limitation that the rates fixed must not be confiscatory. The right to control implies the right to own and operate. The only question now remaining is this: Would it be wise or profitable for the government to own and operate the railroads?

I am clearly of the opinion that it would be. The railroads are great highways of commerce and should be owned and operated by the public on exactly the same principle that wagon roads are owned and maintained by the public. There are two commonly used arguments against government ownership of railroads; one is the power it would place in the hands of the party in power on account of the vast number of government employes and the other is the argument that government ownership would be extravagant and inefficient.

The opponent of government ownership frequently cites the case of the postoffice as an argument against government ownership of railroads. He says that the postoffice department could be run by a corporation like the Standard Oil company for example, for less money than it costs under government management and still leave a large margin of profit for the corporation. That may or may not be so, but even if true it does not prove that it would be better for the people of this country to turn the postoffice business over to a corporation for the reason that the corporation would try to operate the business in a way that would bring the most profit. It would not carry the mail at a given price regardless of the distance carried. It would not carry the single letter of the farmer living miles from any town at same rate as it would carry the vast business we will say, of a mail order house. What the masses of the people appreciate most about the postoffice business is the fact that the poor man who may not write one letter a month, has each letter carried for exactly the same as the biggest corporation in the country can get its letters carried for.

The advantage of government ownership of railroads would not lie in the reduction in the total cost of operation but in the fact that under government ownership all the people should get transportation for themselves and what they produce or what they may have shipped to them at the same rate.

Possible Discrimination

Now it would not necessarily follow that because of government ownership all citizens and all localities would get the same treatment. If there was, government ownership corporations and individuals would undertake to get special privileges from the government just as they now get them from the privately owned corporations. If these special privilege seeking classes should be able to get control of the government and through the control of the government get control of the railroads, the discriminations might become just as rank and burdensome as they ever were under private ownership. However, the people would have it in their power to change their government a good deal more easily than they have been able to control the privately-owned railroads.

The digging of the Panama canal has demonstrated the possibility of government economy and efficiency in government work. No corporation-bossed job has shown such remarkable efficiency under such adverse conditions as has been shown in the digging of this canal. It would be entirely possible for the government to have honest and efficient management of the railroads of the country under government ownership.

So far as the danger arising from the multitude of government employes is concerned, there would be less danger of corruption from that source than there is from corporation influence in government. The most common incentive to corruption is the desire for profit. Take out the profit and the inducement for corruption largely ceases.

My own opinion is that under government ownership the same general plan should be followed as has been followed in the case of the postoffice. That is flat rates for transportation regardless of distance; freights being of course divided into classes just as postal matter is divided according to value in relation to bulk and perishableness. This would put every citizen in touch with markets on the same terms as every other citizen. It would immediately tend to stop the congestion of population in the great cities and build up small but flourishing towns all over the nation. It would equalize the value of lands of like fertility, no matter where situated and would strike a blow at special privilege which is responsible for the most of the swollen fortunes on the one hand and discouraging, heart-breaking poverty on the other. It would prevent the congestion of food stuffs and other products in certain localities where they go to waste for lack of market while other localities are suffering for the want of these same products on account of the prohibitive cost of transportation.

What of the Debts?

Editor The Farmers Mail and Breeze—What is the debt of the United States, state, county, city, township, district and individual? For fear that you do not understand what I mean I will try to illustrate: What I owe and all other persons, companies, corporations, state, national, and everything pertaining to the making a government.

Colby, Kan. C. P. S.

The total bonded debt or interest bearing debt of the United States is $967,366,160. The total bonded debt of the states is given as $422,796,525. The debts of cities, counties and minor civil divisions I cannot give up to date.

The World almanac, which generally is the most up to date compilation of statistics, gives only the aggregate of twelve years ago. At that time the aggregate was $1,629,881,636. The debts of the cities have doubled since then. School district indebtedness also has greatly increased, but I have no figures at my command, showing just what the increase is or how much the school indebtedness amounts to at this time. I therefore am unable to give the questioner anything like definite information.

I should guess that at this time the indebtedness of the states, cities, counties, townships, school districts and other minor civil divisions will amount to 5 billion dollars, but that guess may be half a billion out of the way, either too large or too small.

Why Not the People?

Editor The Farmers Mail and Breeze—During the panic of 1907, I was in Los Angeles. Clearing house certificates were issued and passed as money. Why cannot a city issue notes to pass as money based on its own bonds issued to the government and use these notes to pay for public improvement and employ otherwise unemployed labor?

The county could vote bonds to the extent of 50 per cent of the valuation of taxable property in the county, the bonds running to the government, and the government could issue back to the county national road notes to be paid out for labor in building roads. These notes should be full legal tender and could be retired at the rate of 4 or 5 per cent per annum. In twenty or twenty-five years all the notes would be retired, no interest and no dangerous inflation.

Why not give all the people of the city and country the same privileges as are now given to the national bankers? When will the people learn to run their own financial system instead of turning it over to the gold redemption oligarchy?

Tribune, Kan. W. H. HOFFMAN.

The only criticism I would make on Mr. Hoffman's plan is this: He seems to provide for several kinds of currency. I should have only one. I should permit the city or the county to issue the bonds running to the government, as he suggests, and then let the government issue full legal tender notes based on these bonds, but let all the government notes be of the same kind.

I do not know how soon the people will acquire sense enough to use their own credit instead of handing it over to the bankers and then borrowing it back from them and paying them interest for the privilege. There are times when I have my doubts about our having as much sense as Thompson's colt.

A German Protest

Editor The Farmers Mail and Breeze—As readers of the Farmers Mail and Breeze and as Americans we would like to call your attention to some of the statements which you strongly affirmed in your last issue of that paper. No doubt you believe yourself to be an honest and loyal citizen of the United States. We do not believe that an honest and loyal citizen of the United States could make such assertions, and publish them, as you have done. Some of these assertions are as follows: "The trouble with Germany is abnormal egotism. They became obsessed with the idea that no other people on the face of the earth could be compared with them in science, culture or military ability. They came to believe that they were the chosen people destined to rule the earth, and that it was

not only their privilege but their duty to impose their superior civilization, their superior knowledge and their superior mind on all the other inferior peoples of the earth."

Now, Mr. McNeal, do you think that such assertions show neutrality toward the European countries at war? Do you think that the Germans, who read your paper, can affirm such assertions as you have made? Is it therefore proper and just to write and publish such assertions, as you have readers who are descendants of not only France, Russia and Great Britain but also of Germany? There are quite a few of your readers here in this community who do not wish to read such assertions again. If it will occur again, that such assertions are published in your paper, we, the undersigned will discontinue your paper at once.

William Grasch, Henry Witte,
Ed. Mers, Emil Thaemert,
Carl Muller Marcus Bloecker,
Albert Kohler, Armin Buehring,
Phill Thaemert, Fred Schneider,
Frank Rotmiller, G. E. Thaemert,
W. H. Becker.
Sylvan Grove, Kan.

The gentlemen signing the foregoing manifesto object to two statements: The first that Germany is filled with abnormal egotism, and, second, obsessed with the idea that no other people on the face of the earth can be compared with them in science, culture or military ability. Of course, as I have frequently stated, I referred in that statement to what may be called the ruling class in Germany. Is my statement correct? If so why do these German-Americans object to it? If it is not true of course they have a right to criticize the statement.

In Bismarck's Day

Let us see about it. Germany began its real career of national greatness after the wars with Austria and France. The moulder of modern Germany was Bismarck and the policies of Bismarck have dominated Germany ever since. After the close of these successful wars the Iron Chancellor stood before the Reichstag and made the following announcement: "Wir Deutsche furchten Gott sons nicht in der Welt" (We Germans fear God but nothing else in the world). Does it not occur to these German friends of mine who have taken the trouble to send me this threatening letter, that Bismarck's words sound like abnormal egotism? If the President of the United States should issue a message to Congress saying, "We, the people of the United States are not afraid of anything in the world and are able to lick all the other nations combined," he would be regarded by the people of every other nation as filled with abnormal egotism. As President he would be supposed to be speaking for the people of the United States. Bismarck spoke for the Emperor. His was the voice of the German government.

If I had the space I could quote whole pages from such German authors as Bernhardi, Treischke and others to prove this boastful, egotistic spirit, but I can sum it up perhaps by quoting the statement of Emperor Willian at the beginning of the present war. Here it is: "Remember that the German people are the chosen of God. On me, as German Emperor, the spirit of God has descended. I am His weapon; His sword; His Vicegerent. Woe to the disobedient. Death to cowards and unbelievers."

That proves the truth of the first statement I made of which these German-American readers complain, and also the second which is "that the German leaders believe and have made their people believe that they are the chosen people, destined to rule the earth and that it is not only their privilege but their duty to impose their superior civilization, their superior knowledge and their superior mind on all the other inferior peoples of the earth."

I will quote one more statement from one of the most eminent and influential of German journalists, Maximilian Hardin who with astounding egotism and with brutal frankness says: "Let us drop our miserable attempts to excuse Germany's action. Not against our will and as a nation taken by surprise did we hurl ourselves into this gigantic struggle. We willed it. We had to will it. We do not stand before the judgment seat of Europe. We acknowledge no such jurisdiction. Our might shall create a new law in Europe. It is Germany that strikes. When she has conquered new domains for her genius, then the priesthoods of all the gods will praise the god of war."

The Emperor's Dictum

When Germany, with other nations, sent troops to China at the time of the Boxer uprising Emperor William gave his instructions to his troops which in every word breathed the spirit of dominion and the right to force German policies an1 German ideas on other peoples. He said, "When you encounter the enemy you will defeat him. No quarter shall be given, no prisoners taken. Let all who fall into your hands be at your mercy. Just as the Huns a thousand years ago under the leadership of Attilla gained a reputation for virtue of which they still live in historical tradition, so may the name of Germany become known in such a manner in China that no Chinaman will ever again dare to look askance at a German."

Beautiful sentiment is it not? Attilla swept down over the mountains and plains of Europe condemning to indiscriminate slaughter the luckless people he conquered. He certainly impressed his ideas on the lands he overran and William refers to this with approval as an exhibition of superior virtue.

Now I do not wish to say anything unpleasant to the signers of this letter, but really does it not seem to be an exhibition of rather abnormal egotism of your part when thirteen of you get the notion that by the threat of stopping your subscriptions you can make me take back what I have written or to promise humbly that I will not express my convictions hereafter? Has it occurred to you that whenever an editor expresses an honest conviction on any subject he offends some of his readers, and if he were to refrain from expressing opinions for fear of losing a few subscribers he would express none at all?

I am certainly in favor of the United States maintaining neutrality in the present war, but that does not mean that no citizen has a right to express an opinion. I imagine the signers to this letter have very decided opinions and also express them freely, as they have a right to do. I also have decided opinions which I expect to express with equal freedom. I am sorry to have these thirteen estimable gentlemen, and when I say estimable gentlemen I mean just that, stop their subscriptions, but if they are determined to do so I suppose the paper will have to worry along somehow without their $13. The truth is that until I received this letter I had not expected to say much of anything more about the war or at any rate to express much further criticism of Germany. I had said what I thought and intended to let it go at that, but since this letter seemed to call for proof of the correctness of my former statement I feel that it ought to be given.

The Junkers' Crime

Finally: These Kansas Germans instead of pouring out their vials of wrath on me should save their maledictions for the Junkers of Prussia, of whom the emperor is the head and distinguished representative. It is this Junker class that has foisted militarism on Germany and glorified war. They have plunged the German nation into this war and they must be responsible for her ultimate defeat and humiliation. For Germany in spite of the almost unparalleled bravery of her troops and in spite of the wonderful efficiency of her military organization will be defeated. The war may last a year, two years or three years, but in the end Germany will be defeated. Already her ally, Austria, is on the verge of being overwhelmed. Turkey has proved to be of little assistance. Before the end of this year ,if the war continues, Germany will be standing alone with her back against the wall fighting a desperate but hopeless battle. The threats of her leaders to make the English channel unsafe for merchant ships of every nation are the cry of desperation.

Germany was in no danger, no matter what her Bernhardi's and other worshipers of war may say. Her scientists were making a peaceful conquest of the earth. Everywhere the products of German knowledge and German industry were found in the markets. Her common people were contented and more prosperous than they ever had been before. All this had to be sacrificed to the whims of the war-mad, saber-rattling Junker element who in their abnormal egotism believed that they were in condition to conquer Europe. To satisfy their unholy ambitions hundreds of thousands of brave, honest, kindly German peasant lads must be led to slaughter and hundreds of thousands of kindly, loving hearted German women must weep and wait for sons and husbands who will never come home.

Oh, the sadness of it all; the pity of it all.

Wife's Property Rights

Editor The Farmers Mail and Breeze—Will you please tell me just what the wife's property rights are in Kansas? Wife and I have worked together and just about paid for 60 acres. We have never had any children. Should I die without a will would my wife inherit everything or could my nearest relations take a part from her? Could you tell us what to do about paying off the mortgage on our land? Would it be safe just to pay the loan broker and accept the title or abstract without employing a lawyer to see that it is right? SUBSCRIBER.

In Kansas the wife has full right to hold property in her own name.

If you die without issue, that is without children, your wife will inherit all your property. If you have children at the time of death they will inherit half of the estate and she the other half.

When you pay your mortgage have the mortgage delivered back to you with release signed by the holder of it and be sure to have this release made of record in the office of register of deeds. There is no need of hiring a lawyer. Practically all mortgages have blank forms for release. See that this is filled out and properly signed.

He Is Still For Teddy

Editor The Farmers Mail and Breeze—I want to get a little dope out of my system and I'll open up to you I guess. Too muddy and sloppy to get around much out here in Marion county. Wheat does not look very flattering. A lot of flies in it and a dry fall. It made a small growth. Price was $1.50 a bushel yesterday in Canada. All of us poor renters sold early for 60 odd cents. Only a few well to do farmers have any wheat to sell around here. So $1.50 wheat is doing the poor man no good at all. Top flour is $2 a 49-pound sack; oats 50 cents; corn 75 cents, 80 cents to feeders. No corn to sell only by men who have bottom farms. If we raise a good all around crop this year and prices stay up we may see a Ford in the distance. Packers have ruled the prices on hogs all winter at a rate that we made not a cent on feeding hogs. Is there no way to put a firecracker under these fellows so we won't have to dance to their music? Cheap hogs now and high bacon this summer; 60 cent wheat sold by renters and now our high price corn to cheap hogs. Just like pounding sand in a rat hole. Nothing to it. I wish some wise political guys would start something to more equalize prices for us poor mortals so we may squeeze in on some luxuries before we pass 'n our checks to the great beyond.

I like your way of expressing yourself. You are an Irishman after my own heart. My mother's name was Denney and back of that Boyles so I like the Irishman if he is honorable. As to politics I am a man without a party right now. I don't like Chase and "Dodd Gaston" in a political way. They stick the harpoon into Teddy too often to suit me. I am for T. R. above any other American citizen. He is by far the biggest man for president. He has a head of his own and is not afraid to express himself on all important questions of the times. Some tell me it's a good thing T. R. is not president now, that he would have this country in war. "Nay, nay, Pauline," not on your whiskers. He is too wise for that. He would have shaken the "Big Stick" at Mexico and said to those guys, "Cut out that foolishness and get settled down there," and he would have ordered his secretary of state to protest to Germany for going through Belgium and to be decent in war as in times of peace. Oh, I like T. R. in a political way and Tom McNeal and Arthur Capper and Raymond Robins and Bristow and Allen and Murdock, Beveridge and Johnson of California. Capper is so darned progressive I don't see how the stand pats keep from tearing their shirts. Maybe they do in the dark. I don't like Curtis, Penrose, Ex-Governor Bailey, Mulvane, Scott, Taft or that style of Republicans. They want to harpoon the Progressives at all times and you know it. I don't like the Democratic tariff bill. Democrats don't seem quite capable of running the government. I like Wilson for keeping us out of war. I don't know about the ship purchase bill; if it's policy at this time or not. But government ownership of some things. I think would be a good thing to keep the idle folks busy. Why not try it, anyway? Watson's speech at the Kansas Day banquet was a cocklebur under the saddle of Wilson's government mule, but Watson is too standpat. I did not like Ex-Governor Bailey's speech. He is like old Bill Taft. He is afraid the Progressives would ruin the Constitution of this good old government.

Capper, Allen and Vick.; Stubbs, Bristow and T. R. to run the government suit me to a frazzle. I'm for that kind of men. J. F. VAUGHN.
Marion, Kan.

Is It a Benefit?

Editor The Farmers Mail and Breeze—I should like to know what benefit it is to the farmer for the government to advertise to the world the number of acres of grain and cotton the farmer plants every month; the condition of the crops and when harvested; the number of bushels of grain and the number of bales of cotton. Is it not done for the benefit of the gamblers on the boards of trade? Is the information of use to any other class of people? If it is of use to the farmer I should like to be informed. The stock gambler knows exactly how many bushels of wheat and how many bales of cotton he has to buy to control the market and when he has it all to raise the price.
Okeene, Okla. N. P. BULLOCK.

It occurs to me that perhaps Mr. Bullock has answered his own question. If the United States did not issue any crop bulletins the stock gamblers would certainly get the information anyway. With their own secret information they would be in much better condition to manipulate the market than they are with reasonably accurate information supplied by the government in the hands of the general public. The producer is the man who in the long run suffers most from manipulations of the stock market by stock gamblers. They aim to depress prices until such time as they can get control. It is therefore to their interest to send out false reports at or before harvest and immediately after harvest. It is, certainly, to the interest of the farmer to have the truth known rather than to have a false report gotten out by stock gamblers in their own interest.

Road Overseers

Editor The Farmers Mail and Breeze—Under the present law does the township trustee have power to take the job of road overseer himself against the wishes of the other two members of township board? J. T. W.
Augusta, Kan.

No. Section 19, Chap. 248, Session laws 1911, gives the authority to the township board of highway commissioners, consisting of the township trustee, township clerk and township treasurer, to appoint the road overseers. The majority of the board would govern.

Who Will Inherit?

Editor The Farmers Mail and Breeze—If a woman dies leaving property in her name who will get it, husband or children? If a man and wife own a farm that they have homesteaded and the wife dies does the husband get the place or does part of it belong to the children? SUBSCRIBER.
Jewell, Kan.

The husband and children would inherit jointly the property of the wife.

In case of the death of the wife the homestead would belong to the husband. The children would not inherit until his death.

Do Not Have to Pay For License

Editor The Farmers Mail and Breeze—Does a veteran of the Civil War have to pay the $50 fee for a peddler's license? L. M. E.
Pittsburg, Kan.

No. It will be necessary for him to procure the license but the law exempts him from the payment of the fee.

The Lawmakers

A Faithful Report Showing, Without Prejudice, What the Legislators Are Doing

RECORD OF LEGISLATURE UP TO THE FIRST OF THIS WEEK.

Total bills introduced	1,436
Bills passed	149
Killed in committees	347
Substituted	16
Withdrawn or stricken from calendar	28
On general orders	373
In committees	535
Passed and signed by governor	13

SENATE RECORD.

Total bills introduced	632
Bills passed	68
Killed in committees	140
Killed on floor	8
Substituted	6
Withdrawn or stricken from calendar	8
On general orders	233
In committee rooms	169

HOUSE RECORD.

Total bills introduced	804
Bills passed	81
Killed by committees	201
Killed on floor	8
Substituted	11
Withdrawn or stricken from calendar	20
On general orders	140
In committee rooms	351

WITH the close of the 26th day of the 1915 legislature, 1,436 bills have been introduced, 363 have been killed and but 13 bills and resolutions have been passed and signed by the governor. Nearly 400 bills are on the calendars of the two houses ready for consideration, while more than 500 are locked up in the committee rooms to await final judgment.

What It Costs You.

The house committee on employes loosened up a little bit the second ten days of the session, increasing the "help" allowance for members from $2.15 to $2.42 a day. The senate employes still cost the same, $8.10 a day for each member. The house now has 107 employes; the senate 110.

The total expenses of the legislature the first 20 days of the session, as reported to the state auditor, amount to $36,592. The expenditures of the two branches for the second ten days of the session follow:

	House.	Senate.
Mileage	$ 7,216.50	$1,765.05
Per diem	3,720.00	1,230.00
Employes	3,026.00	3,240.00
Totals	$13,962.50	$6,235.05

Keep Away from the Tracks.

A fine of $100 for trespassing on railroad property is provided in house bill No. 486, introduced by R. E. Bray of Hamilton. The only exceptions are for persons crossing the property on highway intersections and employes on business.

No Jury Service for Women.

The Sutton bill barring women from the right to serve on a jury was passed by the senate. The bill is not entirely satisfactory to the women, for whose benefit it was intended, as the women want the privilege of serving on a jury if they want to serve, or the privilege of refusing if they do not want to serve.

To Investigate the "Bridge Trust."

The Lambertson resolution from the senate calling for an investigation of the "bridge trust," was adopted unanimously in the house of representatives. Fred Riebe called the resolution before the house immediately following the passage of the seven bills on third reading.

The possible interrelation of county commissioners in some counties and the alleged trust was touched up by S. A. Bardwell.

"We want a complete investigation," the member from Riley declared. "I know that in times past county commissioners have sent letters to members of the legislature and had them sent, that were written for them by other interests. They have admitted as much to me, one member even telling me that had he known the contents of a letter against proposed road legislation to which he had signed his name, he never would have written it.

"There is some influence at work in this legislature to defeat meritorious highway legislation. Some interests are doing everything in their power to influence this legislation. Personally, I think the scope of this resolution should be broadened to allow the attorney to investigate and report on this phase of the situation."

For Topeka's Fair.

A bill for state aid for the Topeka State fair to the extent of $15,000 a year for the next two years has been introduced by Senator J. A. Troutman. The bill provides that this money can be spent only for agricultural premiums; not for race track purses.

Insurance Against the Drouth.

Insurance against drouth by the state is provided in a bill introduced in the lower house of the Kansas legislature by George D. Brewer of Crawford. The Brewer act for drouth indemnity contemplates actual damages up to $5 an acre in counties that vote to come under the provisions of the act. Counties that do so will levy a tax of 5 cents an acre on land, except that incorporated cities, railroad right of way, highways, and mine shafts shall not pay the tax.

Twenty counties by popular vote, will have to agree to accept the provisions of the proposed law to put it into effect. Whenever that many counties vote to come under the act, the governor is to appoint a commissioner of drouth indemnity, who will have charge of the administration of the drouth insurance.

Reduce County Expense.

A bill providing for the consolidating of county offices has been introduced in the house by F. L. Martin of Reno. Instead of the list of county officers now elected at general elections, only the following would be elective:

Superintendent of public instruction.
County attorney.
County clerk.
One officer to be known as probate judge and clerk of district court.
Three county commissioners as now.

It is said this bill will save ½ million dollars a year. In Shawnee county alone it would save $11,000 in salaries.

To Sting the Stingers.

A hive of honey bees, kept in the back yard will be taxed hereafter, according to a bill introduced by J. M. Johnson of Brown. Assessors are to "make diligent inquiry" about these bees, investigating to see that the proper number of hives are declared. No provision is made for the protection of the assessor in making such a "diligent inquiry."

The Biennial Visit.

The dam-the-draws bill by J. C. Hopper of Ness was approved by the house committee on roads and highways. The committee also reported favorably on the Wells measure providing for state line roads and on a bill by C. M. Pierce of Wyandotte, for the oiling of roads. A local bill by Pierce for the improvement of certain highways in Wyandotte county also was approved.

Watch Out, Now.

The Caudill bill requiring the publication once a month of the list of liquor shipments filed with the county clerks has passed. The vote was 82 to 7, those voting against the measure generally explaining they believed the bill unconstitutional.

The bill is supplemental to the Mahin act of 1913, which provided that the common carriers file monthly with the county clerk the names and addresses of consignor and consignee of all liquor shipments received in the county. The Caudill bill provides that these lists be open to inspection, and that the clerk publish this list the first of each month in the official county paper.

Will They Still Escape?

Another attempt to compel the holder of mortgages to pay his taxes was made in the house this week by J. S. Hart of Jewell. The Hart bill provides that a mortgage shall be considered an interest in the land mortgaged and shall be assessed and taxed as such. Records of mortgages, says the bill, are to be kept by the county register of deeds and turned over to the county clerk for assessment in the same manner as the real estate records.

Abolishing a Board.

A bill abolishing the state board of irrigation and turning its work over to the civil engineer at the State Agricultural college has been introduced in the house by L. J. Pettijohn of Ford. The measure provides that the civil engineer shall be known as the state irrigation engineer.

County Salaries.

A bill fixing the salaries of county clerks and their assistants has been introduced by T. M. Van Cleave of Wyandotte. The bill allows the county clerk $3,000 a year, one deputy at $1,800, and three office assistants, one at $1,500 and two at $1,250. The 1911 law Van Cleave would repeal, allows the deputy only $1,500, and limits the additional allowance for office help to $3,500 a year. It would increase the salary allowance for each county clerk's office from $8,000 to $8,800 a year.

Help for Little Fairs.

Members of the house put themselves on record as favoring the payment of premiums at county fairs by the counties when they passed the Hendricks bill requiring such payments yesterday. When fair associations have held fairs for three consecutive years they are to be allowed funds for the payment of premiums, in counties of less than 10,000 population the amount allowed is $300; in counties of more than 10,000 and less than 20,000, $600; between 20,000 and 30,000 population, $1,000; over 20,000, $1,500.

To Kill the Bugs.

Appropriations totaling $18,000 for the state entomological commission for the next biennial are asked in the bills introduced in the house by Frank Pomeroy of Jackson. One calls for $500 each year for apiary inspection and the other $8,500 for each year for general work by the commission.

A Municipal Farm.

Ninety-three members of the house of representatives have put themselves on record as favoring humanitarian treatment of prisoners convicted of a misdemeanor, when they voted for the Bird bill for municipal farm homes. The measure, which was passed by a vote of 93 to 3, provides that either counties or first class cities of more than 40,000 inhabitants may purchase land and establish a farm where prisoners will be put to work instead of being sentenced to a period of idleness in jail.

Aid for Widows.

County aid for widowed or deserted mothers, with county boards composed of three unpaid women investigators to administer the fund, is planned in the newest mother's pension bill to make its appearance in the legislature.

Farm Leases.

Leases on farms may be terminated at any time, and the landlord will be relieved of the necessity of giving notice before the first of March of the termination of a lease, if the bill of Albert Hoskinson of Finney to repeal the statute on farm leases becomes a law.

More Stock Yards.

S. S. McGinnis has asked the house to pass a bill requiring railroads to maintain stock yards at all county seat towns.

Rural High Schools.

It took the house of representatives an hour and a half to pass the dehorned Mahurin bill allowing townships and combinations of townships to join together in establishing and maintaining a rural high school. On petition of two-fifths of the voters of the districts affected by the proposed rural high school, the county commissioners in the county where the largest share of the territory affected lies must call an election to vote on a bond issue.

No More Secrecy.

Lobbyists about the state house must tell what bills they are working for or against, and what pay they are getting for their services under the provisions of a bill introduced this week by Senator J. M. Davis of Bourbon county.

One More to Go?

The appointment of the state livestock sanitary commissioner is taken out of the hands of the governor and given to the state board of administration, according to a bill introduced in the house this week by W. A. S. Bird of Shawnee. The bill provides that the work of the livestock commissioner shall be carried on in connection with the State Agricultural college at Manhattan and that some person connected with the college shall be appointed as commissioner.

Away With the Hotel Inspector.

Quickly, silently, apparently joyously, the house voted to abolish the office of state hotel commissioner, created by the 1913 legislature. Not a representative on either side of the house raised a voice in protest. The reading clerk read the bill, introduced by Fred Riebe of Anderson, Democrat, with the recommendation of the judiciary committee that it be passed.

For Trees, 10 Cents.

To encourage the planting of more trees in western Kansas, Senator Jouett Shouse has introduced a bill to allow counties to offer a bounty of 10 cents for every tree planted in that section of the state. The bounty applies to all shade and forest trees, as well as to fruit trees. Only that part of the state west of the 100th meridian would be affected.

The bill limits the amount that can be paid to one person as a tree bounty to $10 a year.

If Bills Are Unpaid.

Creditors will be allowed to seize 25 per cent of a debtor's wages instead of the 10 per cent now allowed by law, according to the provisions of a bill introduced in the house by J. P. Caudill of Comanche county. The 1913 legislature passed a law exempting all except 10 per cent of a man's wages, provided the debtor files an affidavit that his wages are necessary for the support of a dependent family. The Caudill bill amends the 1913 law by providing for the garnishment of 25 per cent and court costs.

Livestock Commissions.

A bill to lower the prices charged by the livestock commission merchants for handling stock has been introduced in the house by J. A. Mahurin of Coffey.

More Moisture.

J. C. Hopper's resolution that congress and the president be memorialized to investigate the possibilities of irrigation for the semi-arid regions of the West, was adopted unanimously by the house.

Hike Sheriffs' Salaries.

A bill to increase the salaries of sheriffs in counties of less than 15,000 population was introduced in the lower house this week by Thomas McDermott of Wichita county. The old law allows a salary of $500 in counties of 2,000 or less, and $700 in counties between 2,000 and 4,000. The proposed law provides for a salary of $1,000 in counties of less than 4,000.

Where the old law allows $900 for counties between 4,000 and 6,000 and $1,000 between 6,000 and 8,000, the McDermott bill calls for $1,200 in all counties of less than 8,000. Sheriffs in counties between 8,000 and 15,000 population will receive $1,500 a year under the McDermott act, where the present law allows $1,200 between 8,000 and 10,000, and $1,500 between 10,000 and 15,000.

Canker Worms

Watch Out For the Loopers And Get the Tree Bands Ready Before They Arrive

SPRING canker-worms have killed more apple trees in Kansas in one season than the San Jose scale has killed during its entire history as a pest in the state. George A. Dean, head of the bug department at Manhattan, says so.

"The injury done by the canker-worm is not confined to fruit trees," he says. They also attack a number of the most valuable forest and shade trees. The elms over a large part of the state were partly, and in many cases completely, defoliated last spring by the spring canker-worm. The injury caused by this insect, with the dry, hot weather which followed the attack, killed a large number of the elms.

The spring canker-worm is among the most common of the "loopers" or "measuring worms." The full grown caterpillar is from ¾ to 1¼ inch long, slender, naked, and cylindrical. The color varies, but the predominating color is dark greenish olive or blackish, marked with narrow pale lines down the back and a whitish stripe along each side. If disturbed on the branch it will drop suddenly, suspended by a fine silken cord.

The wings of the male moth expand a little more than an inch. The front wings are semi-transparent, brownish-gray with three rather indistinct dark lines across them. The hind wings are of a pale, ash color, much lighter than the front ones. The females are wingless and at the first glance look much more like spiders than moths. These female moths are about one-third of an inch long, of a dull brownish or grayish color with a dark stripe down the middle of the back.

While several of the male and a few of the female moths emerge in the fall and winter, the majority emerge in early spring from pupae, in which stage they passed the winter from 2 to 5 inches beneath the surface of the ground. Sometimes many of the moths will emerge during a warm spell in February, but usually it is in March that they first appear. The wingless, grub-like females crawl up the trees and deposit the oval-shaped, yellowish eggs in irregular clusters, or masses, on the branches. The eggs usually are placed in sheltered places formed by fruit spurs and leaf scars, or they are concealed under pieces of loose bark or at the base of large branches. A single female moth may lay more than 400 eggs. They hatch about the time the apple tree unfolds its leaves or about the time it is in full bloom, and the young worms greedily devour the blossoms, leaves, and the setting fruit. They grow rapidly, feed ravenously, and when abundant they will completely defoliate orchards and shade trees in a few days. Usually they reach their full size in from three to four weeks after hatching and then pass to the ground, either by crawling down the trunk of the tree or by lowering themselves by the silken threads. They enter the ground, transform to pupae, and remain here until the first warm days of the spring or late winter. There is only one generation produced each year.

Methods of Control.

After the worms have entered the ground to pupate just beneath the surface, large numbers may be destroyed by thorough cultivation of the orchard. This should be done during the summer and early fall. The caterpillars may be destroyed quickly by spraying with arsenate of lead, using from 2 to 3 pounds to 50 gallons of water. The first spraying should be applied as soon as the foliage is partly expanded and before the trees bloom. The second spraying should be given as soon as the blossoms fall. In other words, if the apple trees are sprayed thoroughly for the control of the curculio and the codling moth they are never seriously injured by the canker-worm. Usually the first spray (also called the cluster-cup-spray) is the more important, as the young caterpillars are much more easily killed.

Where, for any reason spraying is not feasible and in the case of shade trees or of a few fruit trees, a simple method, and one that gives excellent satisfaction,

(Continued on Page 25.)

To Get Harvest Helpers

BY A. G. KITTELL.

Representatives of labor bureaus from 15 western states met at Omaha, February 1 and perfected an organization to be known as the National Farm Labor exchange. Active membership in the organization is limited to state and national labor commissioners and members of their staffs.

The object of this association is to coordinate the work of the state labor bureaus, particularly during the harvest season. In years past every bureau has worked independently of the others with the result that some states and sections had more men than were needed, and found it a great problem to dispose of them, while in other places a part of the crop was lost because there was not help enough to harvest it. The main object of the new exchange will be to equalize the distribution of help.

Reports from the states represented at this meeting showed that the obtaining of sufficient help was not the big problem, but rather the distributing of help. To solve this problem in coming seasons this organization is planning to ascertain the number of men that will be needed in a community, direct from the farmers themselves, or from business men in cities that are in close touch with the farmers. These needs will then be lumped together and by means of close co-operation between states every labor bureau will know exactly where men are needed, how many are needed, and when farmers will be ready to give them work.

It is planned to establish representative agencies in several cities along the eastern border of the big wheat belt, to handle the men as they come in from the East. The three cities favored for this purpose are Kansas City, Sioux City, and Minneapolis. Advertising matter will be sent out through the federal department of labor, the postoffices, and newspapers, telling of the needs in the harvest fields, and urging the prospective harvesters to stop at the nearest distributing point for further and more definite information. By this means it will be possible to send men directly into a neighborhood where help is wanted and when the orders are filled no more men will be sent. This system, it is believed, will prevent the indiscriminate influx of great throngs of men into a community where they are not wanted.

Considerable time was used in discussing ways and means of keeping out the undesirables, but it was generally agreed that this would be an almost impossible task so far as the labor bureaus are concerned. J. B. Grinnell, secretary of the Nebraska Farmers' congress, himself a farmer, declared that the sifting process would have to be done by the farmer himself, that, in fact, the farmer had been doing this very thing for many years, and that it did not take him many hours to tell whether a man is a good worker or not. Which was finally taken as the only solution of the problem under present conditions.

The federal Department of Labor was represented at the meeting by Louis F. Post, assistant secretary. Through him the government offered its services and facilities in any way that would help along the work the new organization is trying to do. All the larger railway systems of the Middle West were represented by their industrial agents or other officials.

The heads of labor departments in the various states in the organization, make up an executive committee that will transact the immediate business of the association. Another meeting will probably be called before harvest time. Officers elected for the coming year were Charles McCaffree, Pierre, S. D., as president; E. S. Neale, Fargo, N. D., vice-president; W. G. Ashton, Oklahoma, Okla., secretary and treasurer. Kansas was represented at the meeting by W. L. O'Brien and Z. G. Hopkins of the state labor bureau at Topeka.

Greater Efficiency is Required

BY THOMAS F. COOPER

The question of the need of greater efficiency is best answered by the results of the farm business in the United States. A careful estimate based upon the farm operations for 1913 shows that the average labor income to the farm was $318.22. That is, that this sum plus the farm home garden and all farm supplies other than milk and cream, represents the total earnings of the farmer and his family. The returns vary in different sections, but the average is comparatively low in every section.

If a country is to prosper, have good schools, roads, homes and public improvements, the income of the farmer must be increased. The business must pay a greater return. And again, I wish to call attention to the fact that it does not follow that this means increased crop or livestock production. It does mean more efficient production. Compare the result for the United States or any section with groups of successful farms, for these may be found in every community, and the importance of an efficient agriculture is readily determined.

A lie is a liability.—Elbert Hubbard.

Old Times Weren't So Good

More Profit, Better Living Now Than 30 Years Ago

BY HARLEY C. HATCH

AN OLD time friend has been visiting us recently. We worked together 30 years ago on a farm in northern Nebraska. For a long time after that we worked together, farmed and "bached" and for a time "run" a herd of cattle. Naturally our talk ran mostly back to those old events, old times and old days—when we were boys. We compared the condition of the farmer then with his condition now. We talked of the days when corn sold for 10 cents a bushel and when it was burned regularly for fuel. Many have held up their hands in horror at the thought of burning corn but when a very poor grade of Iowa coal sold for $8 a ton and corn, the best fuel on earth, brought only 10 cents a bushel, what would you do? Corn is such good fuel that it takes a good stove to stand more than a two-year campaign of corn burning.

In those days of 25 years ago we did not know a farmer who had money in the bank and our acquaintances then included a good part of the county. How could a man have money when he was producing corn to sell for 10 cents a bushel; oats the same; hogs for $2.50 a hundred, and when it took more than the ordinary amount of grass fat on a heifer to make her bring 2 cents a pound? We talked of how cheaply cattle could be produced in those days when it cost only $1 for the pasture of an animal from May 1 to October 1, but concluded that it did not matter to a man how cheaply he could produce anything if he were compelled to sell it for less than cost of production.

In those days there was one Nebraska county, since then one of the most prosperous in the state, in which the total bank deposits did not reach $4,000 and of this it was safe to say that not one-tenth belonged to farmers. In those days the farmer had plenty to eat because a farmer living in a producing region always has that, but he had not much else. The majority of farmers had for reading one weekly paper which they got from the postoffice 9 miles away at intervals of from one to three weeks. The fuel was hay or corn stalks if they did not feel able to burn 10-cent corn; the footgear in which they had to stand 30 below zero weather at times, was rough leather boots wrapped in gunny sacks. The old days may seem best to some but for us we will take the Twentieth Century.

A sharp and sudden nip of cold this week made some fear for the future peach crop but as the mercury is said not to have gone under 9 below it is not likely that peach buds were injured. It is said that 15 degrees below zero will kill peach buds but this is more a matter of other conditions than of actual cold. Peach wood ripened well last fall and should stand the limit in cold.

Various thermometers told differing stories regarding the cold. Some recorded only 2 below while some went to 12. It is always safe to take the word of the government thermometer in such instances, yet many think their own more reliable, even if it did not cost more than 10 cents. As well kick a man's dog as to impeach the veracity of his thermometer. But whether it was 2 or 12 below it was cold enough.

We are still receiving inquiries asking for kafir seed grown from that imported from Africa last year. We cannot recommend this seed for the reason that it is so badly mixed. There are several varieties of kafir in it as well as mixtures of about all the sorghum varieties ever grown. Among the lot is one kafir which we are satisfied would prove valuable to us but there is no question that it would be fertilized from the mixture among which it grew, and as a result the crop from this seed, next year, would be as badly mixed as ever.

A large amount of this African kafir was planted in this locality last spring, mostly in small lots of from one-half to one bushel. In this way it had a thorough trial. It looked well while growing and we thought from appearances that we had about the best kafir we had ever grown. But threshing tests all around us have shown that the African seed did not yield as well as the native by at least 20 per cent. None of ours was threshed but from what was threshed in the neighborhood we are convinced that it would not have turned out as well as it looked by 20 per cent.

It is probable that the African kafir would have a much better reputation in this vicinity had not the season been more than usually favorable for the native varieties. The African variety was early and would have made a crop without the fall rains, and the late growing season which was so favorable to the native sorts. We cannot expect such seasons often and for that reason we think that we must have something in the way of earlier ripening kafir. We would have got it in the African seed had it not been mixed with every sorghum crop ever grown. In addition to the mixed kafir the African also contained the seed of a small melon, the like of which we had never seen. Some of these melons grew in a field of kafir. They were about the size of a croquet ball, and quite hard, and resembled a cucumber in smell and taste.

An inquirer writes from Cottonwood Falls asking about a drill to be used for sowing alfalfa. We have used our grain drill for sowing clover and alfalfa seed. When the feed is shut off entirely this drill will sow just 10 pounds of clover or alfalta seed to the acre. This is a "Hoosier" drill. Some drills are not so closely made as this and cannot be shut up tightly enough. Most grain drills are not spaced close enough for alfalfa sowing; 8 inches apart is too far for alfalfa rows in eastern Kansas. For spring sowing we would rather chance broadcast seeding, anyway. In case of dashing rains the drill marks would be filled and the small alfalfa covered up. For fall sowing or for a very dry spring the drill would be all right.

This friend also sends us a note taken from a Sterling, Scotland, paper in which is noted the increase in price of bread since the war began. January 5 the price of the 4-pound loaf was to be raised in Sterling from 15 cents to 16 cents, our money. This is at the rate of 4 cents a pound for bread. The price of the pound loaf in this country has never been lower than 5 cents and now the bakers are saying that flour is so high that they can no longer give a pound loaf for that price. It is strange that bread is always higher here than it is in England where flour is always higher in price. Probably the increased cost is due to the American people's demanding small loaves and to that fact that bread more than a day old is seldom sold. The larger the loaf, the smaller the price by the pound. Bakers in this country say they can make money selling bread at 10 cents for a 2-pound loaf when they would lose money baking 1-pound loaves for 5 cents. We are also wondering if the foreign bread is as good as that made in the United States.

Our Cottonwod Falls friend also thinks that the weight of flour should be fixed by law at 50 pounds to the sack. While we would not get any more flour for a dollar should the weight be so fixed it would simplify matters somewhat if the weight was so fixed. When a man buys 500 pounds of flour here he gets 10 sacks handed out to him. The old barrel of flour weighed 196 pounds and the quarter barrel or sack should weigh 49 pounds. It used to weigh that but for some reason the weight has been cut down to 48 pounds. Odd weights like 196 pounds for flour by the barrel are, or should be, obsolete. The common sense weight for a barrel of flour should be 200 pounds and for a sack 50 pounds. The small sacks of meal, which used to contain 10 pounds in the days of cheap corn, now weigh out only 8 to 9 pounds. There is this tendency to cut down on the weight of all package goods whenever the price raises. Hence we have the 12-ounce package in most lines where the pound used to be the standard. Should we go back to the old standard the goods would cost more by the package but we would have the satisfaction of knowing that we were getting what we paid for, and were not running the risk of having the package weight continually cut down.

To Sugar Cure Meat

I saw a good recipe for sugar curing meat in the Farmers Mail and Breeze about two years ago. Will you kindly print it again?
Baca County, Colorado. H. D. S.

Several persons have asked for a description of this method of sugar curing meat. The recipe is the one recommended by President H. J. Waters of the Kansas State Agricultural college. Here is the dry cure: Use 40 pounds of good salt, 10 pounds of New Orleans sugar, 4 pounds of black pepper, 1½ pounds of saltpetre, and ½ pound of cayenne pepper for every 1,000 pounds of meat. Weigh the meat and use such part of the compound as that weight is a part of 1,000. Allow the meat to cool thoroughly and then rub in one-half of the amount of the mixture to be used. Put the meat in a dry, cool place and let it remain for about two weeks, then rub in the other half of the cure and let it lie for about six weeks, when it will be ready to smoke.

The brine cure requires exactly the same materials as the dry cure with the exception of the pepper. The meat is rubbed with salt when it is cooled properly, and allowed to remain over night. The next step is to pack it in a clean barrel, putting the hams and shoulders in the bottom. Use 8 pounds of salt, 2 pounds of brown sugar, and 2 ounces of saltpetre for every 100 pounds of meat. Dissolve the mixture in 4 gallons of water and cover the meat with the solution. The sides should remain in this solution four to six weeks, and the shoulders and hams six to eight weeks. The meat may be smoked after it is thoroughly cured and dried.

The smoking should be done slowly with very little heat. The time required for smoking usually is four to six weeks. A slow smoke gives a delicate flavor. Wrap every piece in heavy paper, put it in an unwashed flour sack, and hang it in a cool place after it is smoked. Meat never should be packed or hung in a cellar.

There is no apple, no matter how fine its flavor nor how far it has come, that can compare with the one grown from one's own planting and cared for to the time of fruiting.

SENSE ABOUT FOOD

Facts Worth Knowing.

It is a serious question sometimes to know just what to eat when a person's stomach is out of order and most foods cause trouble.

Grape-Nuts food can be taken at any time with the certainty that it will digest. Actual experience of people is valuable to anyone interested.

A Terre Haute woman writes: "I had suffered with indigestion for about four years, ever since an attack of typhoid fever, and at times could eat nothing but the very lightest food, and then suffer so with my stomach I would wish I never had to eat anything.

"I was urged to try Grape-Nuts and since using it I do not have to starve myself any more, but I can eat it at any time and feel nourished and satisfied, dyspepsia is a thing of the past, and I am now strong and well.

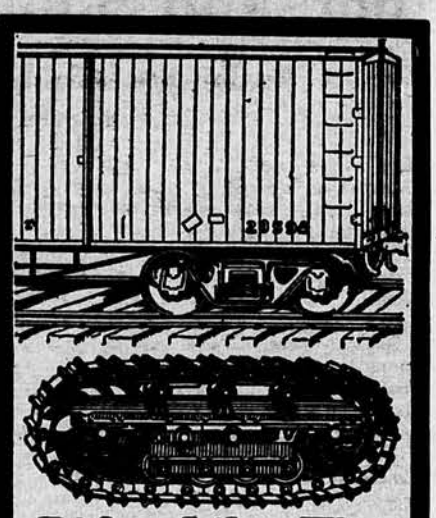
"My husband also had an experience with Grape-Nuts. He was very weak and sickly one spring, and could not attend to his work. He was put under the doctor's care but medicine did not seem to do him any good until he began to leave off ordinary food and use Grape-Nuts. It was surprising to see the change in him. He grew better right off, and naturally he has none but words of praise for Grape-Nuts.

"Our boy thinks he cannot eat a meal without Grape-Nuts, and he learns so fast at school that his teacher comments on it. I am satisfied that it is because of the great nourishing elements in Grape-Nuts."

This mother is right. Grape-Nuts food is a certain and remarkable rebuilder of body, nerves and brain.

"There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



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"Creeping Grip" Tractor

can enter soft fields in early spring when other tractors must lie idle waiting for wet spots to dry. By comparison the creepers are lighter on the soil than an empty wagon. They climb and oscillate over obstructions, carrying the machine on a center axle. Two points of contact rest on the ground, thus avoiding jolts on the machine. The frame rides on 8 points of suspension, which eliminates binding on bearings—upkeep cost is reduced to a minimum.

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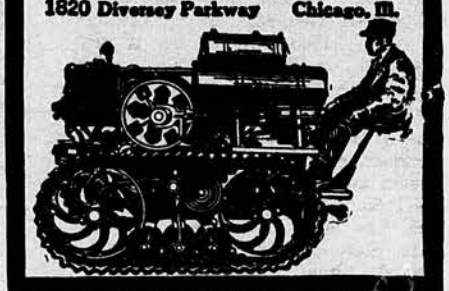

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Foot and Mouth Must Yield

No Objection to Sales Outside the Quarantine

BY F. B. NICHOLS, Field Editor

THE FOOT and mouth outbreak in Kansas is not likely to last very long. The most stringent regulations as to quarantine and a fine spirit of co-operation have been developed in the fight Kansas is making against the disease. The members of the Kansas livestock sanitary board, the agents of the federal bureau of animal industry, farmers, business men of the small towns, and the employes of the railroads are working together. This spirit, shown in the quarantine district, is the real Kansas spirit, and it is what makes the outlook especially encouraging.

Breeders of purebred livestock who live in counties outside of the quarantined area will not be prevented from holding public sales. This ruling has been made by the state livestock Sanitary Commissioner. Most breeders have understood that public sales could not be held in any part of Kansas. The ruling prohibiting public sales applies only to quarantined counties. Special deputies have been authorized to issue permits for the shipment of breeding stock into counties other than those quarantined. These permits will be issued to owners of purebred stock who hold public sales in localities where, in the judgment of the Commissioner, it is safe. The permits are necessary to prevent the movement of stock into or out of quarantined counties. The object of this ruling is to allow as free a movement of the stock in the state as possible and at the same time avoid all chance of spreading the infection.

Weeks of Care Needed.

A great deal of care will be necessary for many weeks to come, Dr. F. S. Schoenleber, who has led in the fight against the disease, said. All of the control measures for this disease are complicated by the fact that the germ which causes it is ultra-microscopic—it never has been seen. This has made this malady especially difficult to study. All of the ways in which the infection is carried, for example, are not well understood. That is why so little can be learned of the origin of the infection for the present outbreak.

The carload of Holstein cows which brought the infection to Kansas were purchased near Oxford, Wis., by N. W. Wheeler of Mulvane and J. C. Dulaney of Winfield. Oxford is in territory which has been free from the foot and mouth disease, and no cases have been reported since the Kansas outbreak started, either. To guard against getting the cattle infected in transit, a Palace Arms stock car was used, which was disinfected with special care before the cows entered it. The cost of this service, and the extra charge made for a Palace Arms car above the cost of an ordinary stock car amounted to $38.

A part of the shipment was loaded out of Oxford January 11. Some of these animals were unloaded at Fond du Lac, Wis., that night, and they were all loaded for the final run the following day. Fond du Lac is free from the disease. The animals were not unloaded again until they arrived at Mulvane.

24 Hours at Chicago.

When Chicago was reached the shipment was held about 24 hours while a study was being made by the quarantine officials of the test charts on the animals. The shipment arrived in Mulvane January 16, and all of the animals were unloaded in the yards. The cows purchased by Mr. Dulaney were loaded into a box car for the night, and the following day they were loaded back into the stock car for the trip to Winfield. The car arrived at Winfield late that night.

One of the animals in the Dulaney herd was a little off her normal condition January 26, and a veterinarian was called. The cow had a normal temperature and a slightly impaired appetite, but still she ate hay freely, and showed no signs of soreness in the feet or in the udder. There was one little red spot on the upper inside of the lip, which was about the size of a dime. This had a cut across the center, such as might have been made by some sharp corner. The cow had been chewing on some charred bones in the lot, and it was thought that this cut, which is a pretty good sign of the disease, might have been caused by this. The veterinarian told Mr. Dulaney to keep the cow isolated from the other animals, and this was done.

Ten Had the Disease.

Mr. Dulaney called the veterinarian to the farm again January 30, and he found all of the characteristic symptoms of the foot and mouth disease in ten animals. Taylor Riddle, livestock sanitary commissioner, was notified at once, and he and Dr. Schoenleber arrived the next day. The quarantine was put on quick and hard.

This quarantine was placed on four counties — Cowley, Sedgwick, Sumner and Butler. Every farm along the roads where the cattle were driven and near the places where the infected herds were kept was put under a special quarantine. Guards were stationed on the infected farms and at the Mulvane stockyards to prevent anyone's leaving or going to those places. All stray cats, dogs and birds were shot. The few government specialists that were allowed to pass the quarantine did a most elaborate job of personal disinfection. This was the order of the day with almost everyone—the drug stores put out special signs in Mulvane in regard to the disinfectants they had for sale.

Everyone Walked in Acid.

In Mulvane, for example, all of the business houses where Mr. Wheeler had visited after the cows arrived were disinfected. J. C. Papes, editor and owner of the Mulvane News, went to the farm to get a story about the time the outbreak was reported. He was required to disinfect himself, his office force, his printing plant and his home. Under the special direction of C. W. Kaylor, the manager, the plant and yards of the Helvetia Milk Condensing company were carefully disinfected—this disinfection even included the horses used on the milk wagons.

Every passenger who boarded a train at Mulvane was required first to wash his face and hands in a disinfecting solution, and then to walk in a trough containing a still stronger solution. No one escaped.

The third herd in which the disease broke out was owned by Louis White of Mulvane, and it consisted of 83 animals. These were purchased in Wichita and loaded out the night of January 21; this put them into the Mulvane stock yards five days after the animals owned by Mr. Wheeler had been driven out.

All of the animals that were killed were appraised by representatives of the state and federal governments, and the cost was divided equally. The Dulaney herd was appraised at $2,515, which was an average of $134.16 a head for the 18 animals. The four hogs on this farm were appraised at $30, or $7.50 a head. This Holstein herd included a bull worth about $500, and a rather remarkable cow, with an important show record. The herd probably could not be replaced at the appraised value.

The Trench of Death.

Before the animals were killed a deep trench was dug, and they were driven down into it before they were shot. Every body was cut open, and quicklime was spread over it. The trench then was filled with dirt. All of the fences, small sheds, stacks of feed and the like were burned. All of the surface of the ground around the buildings and lots then was scraped. By the very extensive use of disinfectants it was possible to save most of the larger buildings.

The methods which are being used in the fight Kansas is making on this disease are the most advanced systems of control known. Dr. Schoenleber has been making a study of this disease for many years, in preparation for an outbreak of this kind. The complete destruction of every animal in the infected herds and a careful disinfection of the yards is the only system that has given good results in control. It is not that many of the animals would die from the first attack; indeed some of the animals in the Dulaney herd were beginning to recover when they were killed, as there was a delay of almost a week in the destruction of this herd while the state officials were waiting for an agent of the federal government to arrive to appraise the animals. Quite a high percentage of the animals recover from the first attack, but they are not immune from the disease, and they will take it again quite readily. While an effort was being made with a herd in this way the infection would be spread. The best solution of the problem which has been found is to kill every animal at once and bury it, and then to disinfect everything so thoroughly that all of the infection will be destroyed. This has been the aim in Kansas.

Treatment for Lump Jaw

A swelling came on the throat of one of my cows about three weeks ago. It went down in about four days leaving a lump about the size of a teacup. I think it is lump jaw. Is there a remedy? H. F. S.

Washington County, Kansas.

The best treatment is to cut the growth out completely. This can be done easily when it is not attached firmly to surrounding parts. The wound thus produced should be washed every day with a 2 per cent watery solution of carbolic acid.

If the growth cannot be removed entirely it may be cut open, the pus washed out with a 2 per cent solution of carbolic acid and water, and the wound packed with a piece of cheesecloth which has been saturated with tincture of iodine. The gauze may be left in the wound 24 to 48 hours.

If the growth is hard, cannot be cut out, and does not contain pus a large cattle trocar and canula may be passed into the center of the most prominent part of the enlargement. The trocar should be withdrawn and a piece of trioxide of arsenic about the size of a bean forced into the canula. The canula should be withdrawn, leaving the arsenic in the tumor. The entire tumor will drop out in four to eight weeks.

If the tongue is affected, or in early stages, several superficial incisions may be made in the surface and painted with tincture of iodine.

If the preceding forms of treatment cannot be carried out the iodide of pottash treatment may be adopted. Young animals should receive from ½ to 1 dram of iodide of potash in the drinking water every day. Mature animals should receive 2 to 3 drams every day. This treatment should be continued four to six weeks or until the growth disappears. If the eyes commence to water, and there is an excessive nasal discharge, skin eruptions, loss of hair, and emaciation during this treatment the dose must be discontinued or decreased for a week. This method is successful in about 75 per cent of all cases treated. The milk should not be used during this treatment nor when the udder is the seat of the trouble. Dr. R. R. Dykstra.

Kansas State Agricultural College.

Udder Inflammation

We have a cow which is affected with an udder trouble. One teat will cake and the milk will become stringy. The trouble then will appear in a few days in another teat. Can you tell us the cause of this trouble and suggest a remedy? J. L. C.

I believe your cow is affected with contagious inflammation of the udder. This is caused by the entrance of a germ into the udder and if proper precautions are not taken it will spread to other cattle. It usually causes a small, hard nodule to appear at the place where the teat joins the udder. The entire quarter usually becomes caked if the infection continues several months. The milk is reduced in quantity, becomes stringy or clotted, and appears thin and blue.

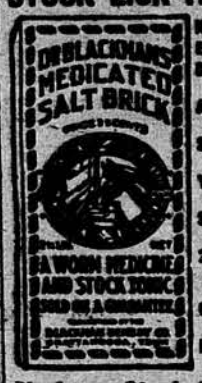
The treatment is to wash the infected quarter thoroughly and inject once every day a quart of a lukewarm ½ per cent fluoride of sodium solution or a 2 per cent boric acid solution. These injections must be made very carefully with sterilized instruments or an infection of the udder, more serious than the original condition, may be produced. The solution should be allowed to remain in the udder about 15 minutes after which it should be removed.

Dr. R. R. Dykstra.

Kansas State Agdicultural Collefe.

Don't forget that you are feeding more than the brood sow; you are feeding her unborn pigs.

STOCK LICK IT--STOCK LIKE IT



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Every Animal Its Own Doctor
Drop Brick in Feed Box—
It Will Do The Rest
A Steady Medicine—
It Sells 'em Too
Saves Time, Labor and
Veterinary Bills
You've tried the rest—
Now use the Best
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African Kafir Has Failed

Low Yields and Considerable Smut Damage Were Features of the Results Last Year With the New Crop

AFRICAN kafir has little promise as a Kansas crop. No farmer can afford to grow it, according to the results of tests made in 30 counties of the state last year by the agronomy department of the Kansas State Agricultural college in co-operation with farmers.

While L. E. Call, professor of agronomy in the college, is unwilling to condemn the imported seed as worthless on the basis of a single season's test, he declares the crop is such a conglomeration of types and hybrid strains that several seasons of selection would be necessary before anything like a pure strain could be produced.

"Moreover," said Professor Call, "the seed would require treatment for smut before being planted. As a drouth-resistant crop, African kafir has proved inferior to feterita, Dwarf or White milo, Dwarf kafir, and Freed's sorgo.

"As an early-maturing crop, it has been a disappointment because it required as long to mature as Standard Blackhulled White kafir and much longer than Whitehulled White kafir, feterita, Dwarf kafir, and Dwarf milo. In the last season African kafir produced less grain in eastern Kansas than Standard Blackhulled White kafir, the variety of grain sorghum recommended for eastern Kansas. It produced less grain in central Kansas than Whitehulled White kafir, an earlier maturing variety of grain sorghum that is recommended for central Kansas. In western Kansas it produced less grain than Dwarf milo, feterita, and Dwarf kafir, which are the varieties of grain sorghums recommended for that part of the state. In my opinion, African kafir is an inferior variety when compared with pure strains of adapted kafir, and a variety that in its present condition no farmer can afford to grow."

Many Tests Conducted.

Promising reports from Osage county concerning African kafir in the dry summer of 1913 led to the experiments made in the last season by the agronomy department. Seed of an importation made in the spring of 1914 was planted in the sorghum variety test plats at the Experiment stations and on the farms of 32 farmers with whom the agronomy department was co-operating. These farms represented every section of the state.

At the Experiment station at Manhattan, African kafir was planted in plots beside the other standard grain sorghums, feterita, Red kafir, Blackhulled White kafir, and Whitehulled White kafir. In this test, African kafir produced less grain than any of the other grain sorghums. The yield of African kafir was 17 bushels an acre, Red kafir 18 bushels, feterita 23 bushels, Blackhulled White kafir 25 bushels, and Whitehulled White kafir 27 bushels.

Not only was the African kafir inferior to the other grain sorghums from the standpoint of yield, but it contained from 20 to 25 per cent of smutty heads, while the other sorghums were practically free from this disease. The African kafir proved also to be very impure, containing stalks ranging in height from 3 to more than 7 feet, and contained several types and varieties of heads.

The African kafir was reported to be early-maturing when compared with Standard Blackhulled White kafir, but in this test when both crops were planted side by side on the same day, the Standard Blackhulled White kafir matured several days in advance of the average of the African kafir heads.

At the Tribune substation in western Kansas, where the average annual rainfall is a little more than 16 inches, African kafir was compared with grain sorghums that were known to be both early-maturing and drouth-resistant, such as milo, Freed's sorgo, feterita, and Dwarf Blackhulled White kafir. Under these conditions, African kafir produced 2½ bushels of inferior grain to the acre, while Dwarf milo produced 28 bushels, feterita 26 bushels, and Dwarf Blackhulled White kafir 20 bushels an acre.

At the Garden City substation, in Finney county, African kafir was compared also with a number of early-maturing drouth-resistant varieties of sorghums. The African kafir produced but 8 bushels of grain to the acre, while Dwarf milo produced 25 bushels, White milo 20 bushels, and feterita 10 bushels. It is evident from these tests that African kafir cannot be considered a valuable grain sorghum for western Kansas.

In an average of six variety tests conducted on farms in central and western Kansas, African kafir made a yield of 18 bushels an acre, while Whitehulled White kafir produced 29 bushels. In an average of four variety tests that included both Whitehulled White kafir and Dwarf milo, as well as African kafir, the Whitehulled White kafir made an average yield of 34 bushels, Dwarf milo 32 bushels, and African kafir 15 bushels.

There Are Many Types in the African Kafir Fields, and the Yields Have Not Been Up to the Standard of Pure Seed.

Cheaper Power Is Needed

Small tractors are getting a great deal of attention in the Middle West just now. This is because the increase in efficiency in their construction which has been brought about in the past year has made them a practicable investment for the average farm. The increasing prices of grain and draft animals, which has been greatly aided by the war, have made the cost of power produced with horses so high that it is essential that a cheaper power should be obtained.

The high cost of leather is being blamed upon the increased number of automobiles. The price of hides has increased 50 per cent during the last few years.

These Lambs Made a Profit

Sheep Fed Silage Will Make Money On Kansas Farms

BY W. A. COCHEL

IT PAYS to add silage to a ration of corn, cottonseed meal, and alfalfa hay for fattening lambs. The addition of silage to such a ration increased the rate of gain, reduced the cost, had a favorable effect upon the finish obtained, and increased the profit 16 cents a lamb during a feeding period of 60 days. These results were obtained in a feeding experiment conducted at the Kansas Experiment station.

Western range lambs were used in this experiment. They were bought in Kansas City, October 10, 1914, at $6.70 a hundredweight. The average weight was 54 pounds a lamb. They were kept on roughage ten days before the experiment started. The object of this experiment was to determine the comparative value of corn and kafir as grain feeds; of alfalfa hay and cowpea hay as roughage; of cane fed as silage and cane fed as hay; and of whole and ground kafir for fattening lambs. The first value of the lambs was based on the original cost in Kansas City plus freight, feed, commission, and other charges all of which amounted to 60 cents a hundredweight. The final value, placed by Charles H. Haren of Kansas City, was based on their selling value on the market the day the experiment closed, less 60 cents a hundredweight to cover shrinkage, commission, freight, yardage, and other expenses. The lambs were fed so as to make the maximum use of roughage. The cost of the labor in feeding is included in the prices charged for the various feeds.

How They Were Fed.

The lambs were divided into six uniform lots with 50 lambs in every lot. Lot 1 was fed shelled corn, cottonseed meal, alfalfa and hay silage; lot 2 was fed shelled corn, cottonseed meal, cowpea hay, and silage; lot 3 was fed shelled corn, cottonseed meal, alfalfa hay, and cane hay; lot 4 was fed shelled corn, cottonseed meal, and alfalfa hay; lot 5 was fed whole kafir, cottonseed meal, alfalfa hay and silage; and lot 6 was fed ground kafir, cottonseed meal, and silage. Shelled corn was valued at $1.25; whole kafir at $1.10; ground kafir at $1.20, and cottonseed meal at $1.30 a hundredweight. Alfalfa hay was valued at $10; cowpea hay at $8; cane hay at $6, and cane silage at $4 a ton. The cottonseed meal was fed at the rate of .19 of a pound a day to every lamb in all the lots.

Lots 1 and 2 were used to compare the feeding value of alfalfa and cowpea hay. The lambs fed alfalfa made more rapid and less expensive gains. They showed the same finish and a greater profit. It is well to state in this connection that the alfalfa hay was of excellent quality while the cowpea hay was very weedy, consequently the same results might not be obtained with cowpea hay of better quality. The lambs fed alfalfa made an average daily gain of .4 of a pound while those fed cowpea hay made an average daily gain of only .35 of a pound. The final value of the lambs in both lots was $8.05 a hundredweight. The lambs fed alfalfa made a profit of $1.02 a head while those fed cowpeas made a profit of only 82 cents a head. The cost of every 100 pounds of gain was $5.60 for the lambs in lot 1, and $6.19 for the lambs in lot 2.

At $5.52 a Hundred Gain.

Lots 1 and 3 were fed in exactly the same manner except that cane silage was used in lot 1 while hay made from the same crop was fed in lot 3. The amount of feed required to produce 100 pounds of gain, the rate of gain, and the finish obtained were about the same in both lots. The lambs fed the cane hay made .39 of a pound gain a day. The cost of every 100 pounds gain was $5.52, and the profit was 99 cents a head. Although the profit was slightly in favor of the silage fed lot, the profit from growing silage at $4 a ton is greater, decidedly, than from growing hay at $6 a ton. This test indicates that the chief advantage in feeding silage to lambs comes from the ease and convenience in feeding rather than from improving the feeding value of the material by putting it in the silo.

The difference between lots 1 and 4 was that no silage was fed lot 4. The addition of silage to the ration of shelled corn, cottonseed meal, and alfalfa hay increased the rate of gain, decreased the cost, had a favorable effect upon the finish obtained, and increased the profit 16 cents a lamb during the 60 day feeding period. The average daily gain of the lambs in lot 4 was .39 of a pound. The cost of the gains made was $5.73 a hundredweight. The selling value was $7.90 a hundred pounds, and the profit on every lamb was 86 cents. These results are important in that they show the advantage of feeding some roughage deficient in protein along with alfalfa when corn and cottonseed meal are used as the concentrates. This may be attributed to the succulence of the silage or to too much protein in the alfalfa, but whatever the cause it seems that the use of silage with corn, cottonseed meal, and alfalfa for fattening lambs is justified.

Kafir Feeding Different.

The only difference in the method of feeding the lambs in lot 1 and those in lot 5 was that whole kafir was substituted for shelled corn for the lambs in lot 5. The results obtained do not show so favorably for kafir as was expected. Corn proved superior in every respect. The average daily gain made by the lambs fed whole kafir was .35 of a pound. The cost of every 100 pounds of gain was $6.03; the final valuation was $7.90 a hundredweight; and the profit was 73 cents a lamb. Feeding kafir as a substitute for corn resulted in a decrease in the rate of gain, an increase in the cost of gain, and a decided difference in finish which materially reduced the profit.

Other experimental work indicates that while corn is superior to kafir the difference obtained in this test is greater than would be expected. The results, however, show that kafir may be used profitably in the place of corn for fattening purposes although it will require a slightly longer feeding period to obtain an equal finish. It is probable that in the original lotting of the lambs a few individuals not up to the average fattening ability were placed in lot 5.

Influence On Profits.

The results obtained from the lambs in lots 5 and 6, where whole and ground kafir were fed, were almost identical except the final value of the ground kafir lot was 15 cents a hundredweight higher than the final value of the whole kafir lot. The lambs fed ground kafir made an average of .36 of a pound gain a day. The cost of every 100 pounds of gain was $6.18; the final valuation was $8.05 a hundredweight; and the profit was 84 cents for every lamb. It is probable that at least a part of the difference in finish was due to the superiority of the lambs in lot 6 though every effort was made to have them as nearly alike as possible.

The results obtained from feeding the 300 lambs were satisfactory from every standpoint. The gains were much more rapid than those usually obtained in the same time. There also was a marked rise in the market value of all the lambs. Both had a favorable influence on the profits.

Blackjacks Should Be Cut

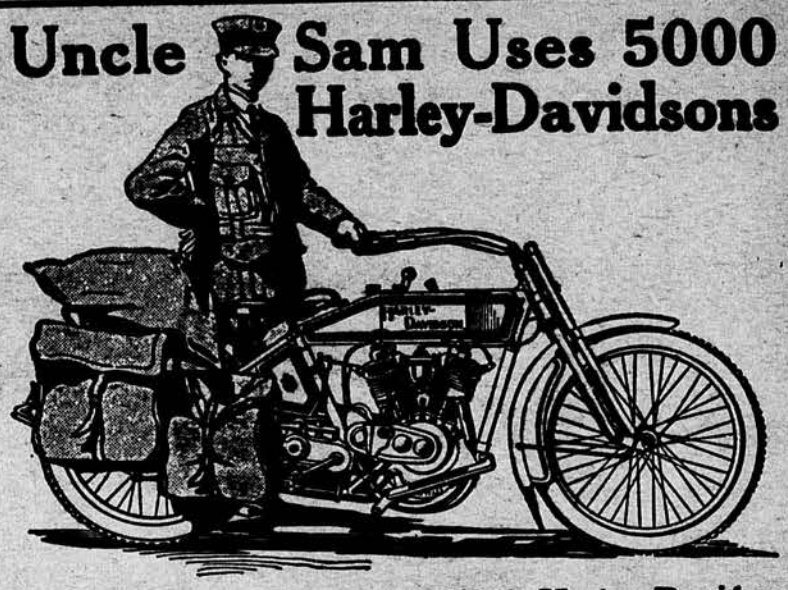
The acreage of blackjacks in southeastern Kansas is increasing rapidly. This tree is the weed of the timber plants. Blackjacks and poverty go together.

Damage from this tree can be reduced if every man makes an effort to fight it. Land is not very valuable if it is covered with this growth. Of course, if there are just a few acres given over to the tree it does not make so much difference, as the tree makes good fuel. When almost all of the country is covered with the growth of this pest, as it is southeast of Toronto for example, it becomes a serious thing.

This question can be solved. Clear up the land as fast as you can, and get it into cultivated crops. It is certain the land never will return much profit until you do this.

"Canning the boarder cow" is a pastime growing in favor with farmers. Know how to play the game?

Uncle Sam Uses 5000 Harley-Davidsons



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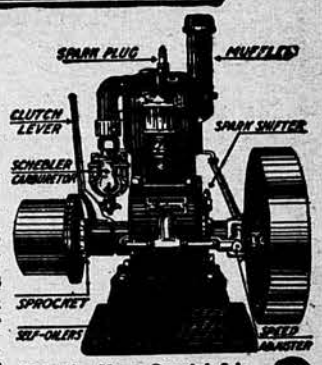

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Are not cheap engines, but they are **cheap in the long run,** as they do so many things heavy engines cannot do. May be attached to machines such as binders, balers, etc., to save a team. Easy to move around. Moving parts enclosed and run in bath of oil. Run at any speed—speed changed while running Direct water circulating pump **prevents overheating.** Schebler Carburetor and Friction Clutch Pulley.

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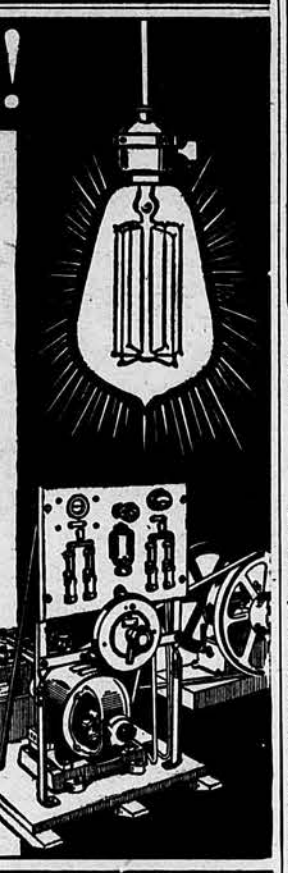

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800 Jackson Street ***Topeka, Kansas***

Better Roads Are Needed

BY D. F. HOUSTON.

Good roads are equally intimately related both to the production and distribution of farm products. They are prerequisite not only to economical production and distribution but also to the promotion of the broader life of the communities. The great need, obviously, is for roads which shall get products from the farm to the nearest railway station, enable the farmer to haul when he cannot sow and reap and to haul at a lower rate, to transport his children to consolidated schools, and to enjoy comfortably his social enterprises.

The railway will continue for an indefinite time to be the nation's highway. Emphasis is needed on the community road. It is estimated that it costs 23 cents under existing conditions to haul a ton a mile on the average country road, and that this could be reduced by one-half if the roads were improved. The problem is partly, of course, one of funds, but even more largely one of methods, of instrumentalities, and of administration.

The nation today is spending annually the equivalent of the huge sum of 200 million dollars for roads, an enormous increase in the last decade. Much of this is directed by local supervisors, and it is estimated by experts that of the amount so directed from 30 to 40 per cent is, relatively speaking, wasted or misdirected. Less than half the states have expert state highway commissions, and very few of them have any sort of expert local machinery.

Concerning the Public Roads

Some of our lawmakers are in favor of cutting the width of our public roads to 30 feet. I think that would be a mistake. Our roads here in Geary county are all 40 feet, and they are about the right width. If some of the men who are advocating 30-foot roads would just climb on a grader with 8 horses hitched to it and try to turn it around in a 30-foot road fenced on both sides, I think they would find it a rather difficult proposition.

In our county we have a great many hills, owing to the numerous small streams. It is necessary to get the ditches started well out to the edge of the road in order to keep the water from injuring the roadbed. I have observed that the water has a tendency to cut in toward the center of the road, so that if the road is too narrow it will soon need more dirt. There will always be a strip on either side of the road for weeds to grow on where the land is fenced, because the road cannot be graded entirely out to the fence.

If the roads are cut down to 30 feet, in time it will be necessary to purchase some of the land back and at a much higher price. We would be compelled to do it on account of the necessity of getting dirt to replace that which has been washed away.

I am not in favor of a 60-foot road, but a 40-foot road is not too wide. I am in favor of any laws that would benefit the public highways. Our greatest trouble in building public roads is the money proposition. When we take into consideration the fact that we have 75 or 80 miles of roads in our township and numerous small bridges and less than $3,000 to keep them up, you can see that it doesn't go very far.

Alta Vista, Kan. J. R. Filby.

Poor shingles are too dear at the price.

Sweet Clover Worth While

BY C. C. CUNNINGHAM.

Sweet clover excels alfalfa as a cattle pasture and is superior to all other crops for improving soils deficient in organic matter, though it has been lately overrated as a crop to grow under all circumstances. In the past two years there has taken place in the popular mind a radical change in opinion regarding sweet clover. Once considered a noxious weed, it is now recognized as a valuable crop. To a large extent Sweet clover is deserving of this change of opinion regarding it, but, like any new crop that suddenly comes into favor, it has been overrated for growing under all conditions in Kansas. It has proved valuable, however, under certain conditions and for special purposes.

Sweet clover can be grown to advantage for hay in eastern Kansas on some soil not adapted to alfalfa or Red clover. It is, however, a substitute for these crops and is useful for hay when the more valuable kinds cannot be grown successfully.

Sweet clover is of value as a pasture and soil improvement crop and will undoubtedly be extensively utilized for these purposes. Properly handled, it will furnish more pasture than most other pasture crops, especially on the poorer types of soils. It excels alfalfa as a pasture for cattle, in that it rarely causes bloat. Sweet clover is superior to all other crops for use in improving soils deficient in organic matter.

During the past two years, the agronomy department of the Kansas State Agricultural college has co-operated with many farmers in western Kansas in testing Sweet clover on the uplands. The results obtained were not very successful. Evidently Sweet clover has been overrated as a dry land crop. Under dry land conditions, that is, where alfalfa cannot be grown successfully on the uplands because of the limited amount of precipitation, Sweet clover is subject to the same disadvantages. The same difficulties in obtaining a stand are met with, although Sweet clover is more hardy and the chances of failure are slightly less. Attempts to seed Sweet clover under dry land conditions during the past two seasons have nearly all resulted in failure.

In many tests the Sweet clover seeded early in the spring failed to compete successfully with the ever present Russian thistle. In other tests, the young plants perished in temporary periods of drouth that prevailed before the Sweet clover obtained a good roothold. Other stands were destroyed by beating rains before the plants made much growth. Grasshoppers relish young Sweet clover plants and may, if they are numerous, destroy the crop. Where stands were obtained on uplands it failed to make profitable yields of hay the first season.

Because of the high cost of the seed, the short life of the crop, the uncertainty of getting a stand, and the smaller yields of forage as compared with the sorghums, it is doubtful if Sweet clover will prove a satisfactory crop on the uplands in western Kansas.

Information About Sudan Grass

Farmers' Bulletin No. 605, entitled "Sudan Grass as a Forage Crop," may be had by writing to the Division of Publications, Department of Agriculture, Washington, D. C.

Women are barred from teaching school in Vienna.

Away With Spring Wheat

The present high prices for wheat have aroused a great interest in the spring varieties. The Farmers Mail and Breeze has received many letters in the last week asking for information about growing that kind of grain.

In the answers to these letters the aim has been to discourage the growing of the crop. Spring wheat is not a success in Kansas; the yields are too low.

It will not be a good plan to rush blindly into the growing of the spring varieties now, just because the prices are above normal. The leadership of Kansas in the production of wheat is founded on the hard winter varieties. It is essential that this leadership should be maintained, and it cannot be kept with a mixed assortment of wheats. Apart from this, however, the greatest objection to spring wheat is that the average yields are so low that the crop will not give a profit.

Farming on a Business Plan

BY ALICE E. WELLS.

As I trudged the half mile between my home and butter customers yesterday, I saw something that warmed my heart and set my blood to tingling with joy. Now don't laugh at, but with me; for the sight was nothing more nor less than a 10-year-old boy with a basket of corn balanced on his hip coming through a barnyard gate. A half dozen calves with ears pitched forward and bulging eyes tumbled over each other, as they followed him on a gallop to a nearby feed lot.

Nothing to laugh at? Wait a moment. You see, I know something of that boy and those calves. He is one of four boys on that farm. When the youngest of the four was named at birth for a far-away uncle—a cattle man in New Mexico—there came forthwith announcement that a heifer calf had been branded for the namesake with the promise that all the increase should be credited to the boy until his majority. All male calves along the line of increase should be replaced with heifers. Wasn't that a nice proposition?

Well, the blaze thus started fired the others, each of whom had his own bank account. Nothing in the world just then was quite so interesting as calves, and father must needs attend all the nearby sales with the idea of getting as good bargains as possible for precious cash. "If the calves I buy should die," queried the boy I saw yesterday, of his father, "will the loss be mine or yours?" "Why, yours, of course," was the answer. "I'll keep my money where it is, then," concluded Jim, with a wry scowl. The others bought their calves and Jim hoarded his cash, for a while, studying meanwhile whether 4 per cent interest was a good offset for the chance of making much more. "Nothing venture, nothing have," kept running in his little mind, and at last two more calves were added to the herd and his bank was empty.

"What contract have you with the boys?" I asked their father one day. "I'm to provide all the feed and pasture. They own the calves, do all the work connected with their care, and are credited at market time with the first investment and half the profits." "Good!" I answered. "Now, if they will keep an account with the calves, too, they will be working on a sound educational basis."

Talk about keeping boys and girls on the farm! There's absolutely nothing to compare with business principles followed in the conduct of all work, to stimulate contentment with rural conditions. A systematic rendering of accounts between capital and labor; between investments and profit or loss, between expenses and income, will so dignify drudgery as absolutely to eliminate all dislike of the hardest toil necessary to make farming pay.

And it's the pay we are after, all of us. I have great respect for the almighty dollar myself; so much respect that I often find myself giving $1.50 or perhaps $2 for $1. Foolish? Of course, but my word for it we all will be guilty of like offense if we don't watch out. I verily believe the majority of our farmers do not know for a fact whether they are working, year in and year out at a profit or a loss. There is no question in my mind about their wives. They are so in the habit of giving something for nothing, making bricks without straw, taking all the egg money, cream checks or butter products they can and applying on household expenses, regardless of what each item cost, that a business sense is entirely lacking.

"Chickens don't pay for their feed," I hear farmers say this year. Are you sure? How do you know? If they are a losing proposition, the quicker you change tactics or go out of the business the wiser you show yourself to be. But don't jump the traces until you know exactly where you and the poultry stand. Keep a big figured calendar on the kitchen wall and mark every day the number of eggs brought in and the number of chickens used on the home table—not just what are sold, mind you. Credit the poultry with results at current market price at the end of the month. Charge them with feed, rent for housing and fencing and for labor in their care. If the balance, month in and month out, is not in your favor something is wrong which must be righted, or else you have mistaken your calling.

The same principles apply in every other line connected with farming. It takes all heart out of the best man or woman to be continually toiling at a loss. If we do not know whether we are being paid for labor expended, it is high time for us to learn. The farmer feeds the world, and should get value received for capital invested. No merchant would expect to succeed in a business conducted in the haphazard way many farm plants are managed. Our boys and girls will gladly stay on the farm, when parents and teachers magnify real possibilities and prove there is money in feeding and farming right.

And Wheat Was Higher

Remarkably large profits have been made by farmers who held their wheat for the present high prices. For example here is a news item taken from a daily paper a few days ago:

Ben Johnson, a young farmer living near Junction City, has made almost $800 on 1,000 bushels of wheat. Last summer Johnson decided to save a portion of his wheat, and purchased a large steel tank in which he stored a thousand bushels. Since that time the price has jumped more than 75 cents, and Johnson is still holding the grain.

All of which reminds one of the fact that in the issue of July 11, 1914, the Farmers Mail and Breeze said on page 7 under the caption, "Wheat Prices Will Be Higher":

Wheat prices now are so near the cost of production that the profits from the crop are not large. While it is true that the crop in Kansas is good, it is not so big as many reports would indicate, and there is no justification for the great slump in wheat prices which has taken place in the last month. Wheat crops in foreign countries are not large, and when the present slump is over prices are certain to rise. It will pay well to hold grain this year.

Kansas wheat raisers should not be deceived by all this big crop talk that has been generated in Kansas this year. This game is always worked every year there is a big wheat crop by interests that will profit by the decline in the price of wheat. The law of the average shows that wheat prices are certain to rise in the winter, after the larger part of the wheat movement is over. It will pay well to wait for this rise. Kansas wheat growers should plan to hold their wheat and thus get all the profit, instead of dividing it up with the speculators.

The Farmers Mail and Breeze will continue in the future, as it has in the past, to tell of the conditions arising from time to time which affect farmers. It will continue to discuss these questions freely without regard for outside influences. For example, if it believes that the wheat market is being lowered by manipulation it will tell about it.

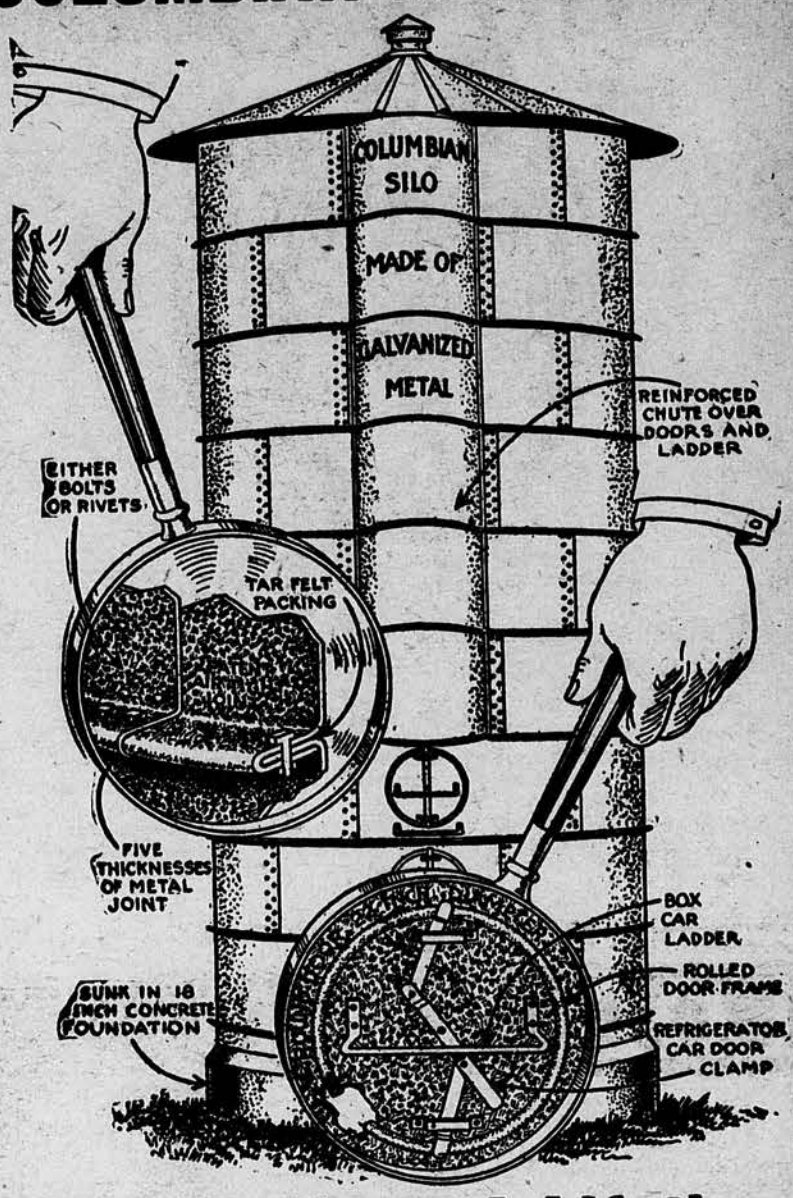
Fuel Value of Wood

The fuel value of 2 pounds of wood is roughly equivalent to that of 1 pound of coal. This is given as the result of certain calculations now being made in the forest service laboratory, which show also about how many cords of certain kinds of wood are required to obtain an amount of heat equal to that in a ton of coal.

Certain kinds of wood, such as hickory, oak, beech, birch, hard maple, ash, elm, locust, longleaf pine, and cherry, have fairly high heat values, and only one cord of seasoned wood of these species is required to equal one ton of good coal.

Often there are weak hens that do not get enough to eat. Either scatter enough food so they will get plenty, or separate them from their lustier brethren.

COLUMBIAN METAL SILO



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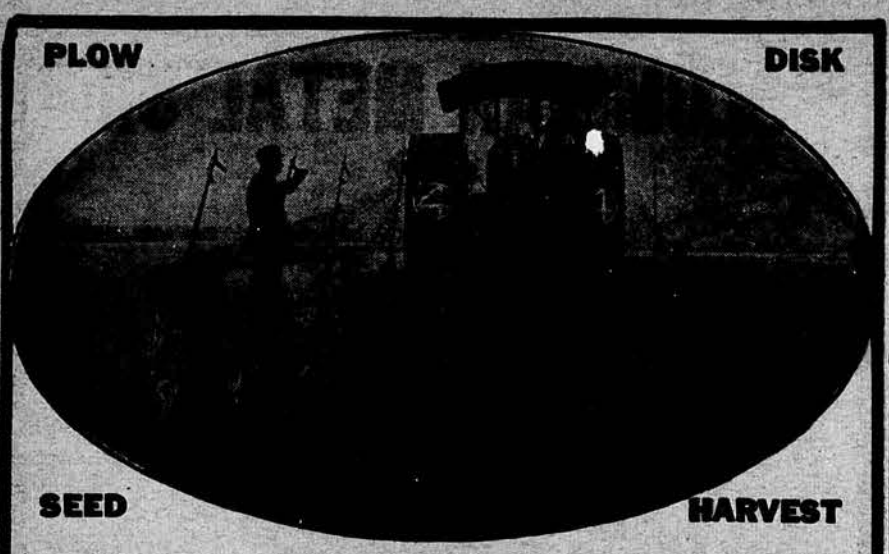

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The **Big Four** has three speeds, which give greatest **flexibility** for all kinds of work. It is equipped with a **dual purpose** carburetor, which uses either **kerosene** or **gasoline** as may be desired. Its **self-steering** device eliminates the wages of one man. Send for catalog showing **Big Four "30"** in action and **letters from hundreds of Big Four users.** They tell the story.

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The STAR Stall is easily adjustable for aligning long and short cows evenly at the drop.

The Giant Star Stanchion is the best on the market because it is the strongest made and is easiest to operate because of the automatic guide arm and one-hand lock. Double chain hanging allows perfect freedom of movement for the cow. Smooth, round wood lining gripped in U-bar steel insures its staying there. The Giant Stanchion is adjustable to any size neck from the smallest calf to the largest cow. Sure stop guides the animal's head into the right opening.

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Co-operation Is a Growth

Better Rural Leaders Are Needed in Kansas Farming

BY F. B. NICHOLS, Field Editor

CO-OPERATION is growing faster than any other farm movement in Kansas. This is because there is an appreciation among the farmers of this state of the need for union. The farmers Grange is making especially rapid progress.

It is extremely important that every community should understand the fundamentals of success in co-operation very carefully before they start into this. It is to be hoped that all of the rural communities will study the failures which have come in this movement, so they can avoid the snags which have wrecked other companies.

The most important thing is to realize that success in co-operation is largely a matter of growth. It is best to start in a small way, and with simple things, at first. As the producers learn to work together, it is possible to make a success of several lines of co-operation, which is exactly what is being done at Olathe and Wathena.

Sometimes a neighborhood reads about the remarkable success of the California Fruit Growers' exchange, or some such organization, and it starts into the game deep and heavy from the beginning. Many communities that have gone into co-operation with a whoop in this way have gone out with a wail later on, and frequently the time was not so extensive, either. If such communities had started slowly and with simple things, until they were sure that they could work together, they might have made a great success.

Co-operation is a great world movement, and all world movements have been a matter of slow growth. We can see that this one is going along pretty fast in the United States, however, when we consider that there are about 7,500 co-operative associations, which did more than a billion dollars' worth of business last year. We are not going so slowly in Kansas, either. The farmers' Grange alone has 290 chapters; it gained about 60 chapters in 1914.

The matter of leadership is an extremely important thing in co-operation. Unless a co-operative association has the right kind of rural leaders it will fail. It must be remembered that these leaders must be from the farm; city leaders cannot, as a rule, make a success of a farmers' co-operative association. One of the extremely important things in Kansas is to develop better rural leaders, who can put forth constructive effort in their home communities.

We have been very slow in Kansas to develop good rural leaders. The main reason for this has been that the rewards for leadership were not in sight; a farmer is human, and unless there is some good reason why he should put forth considerable effort in leadership he will not do it. Farmers in this state as a rule have not been organized, and they have not been in a position to offer good rewards for their leaders. With the coming of more organization, however, this will be done away with.

It is extremely important that farmers should be willing to give these leaders the rewards they deserve. It may help some along this line if they will consider that every successful co-operative association has had a good manager—a man with business ability. It takes good salaries to get men of this type, but they are worth all they cost, and more.

There are many advantages to co-operation which the farmers who started this movement in Kansas did not know. Perhaps the most important of these is that it teaches the producers to work together, and therefore it is easy to get them organized for other purposes. After farmers have demonstrated that they can co-operate in buying and selling products, it is an easy thing to get them to working together to demand a better county or township government.

Many of the communities that have been most successful in community breeding have worked this out after some experience in selling and buying in co-operation. This matter of community breeding, by the way, is becoming very important in many parts of Kansas. This is especially true in a community like Mulvane where Holsteins are featured. There are other districts that are making good progress though, such as Troy, where the effort is to grow better fruit.

All of these things take time for growth. No man can expect to uproot the established customs and habits of a community or a district in a month or a year. A steady, constant growth should be the aim in co-operation. Start slowly, and expand the operations with the growth in experience.

There is something wrong with the methods of the man who bores auger holes in the gutters to get rid of the liquids.

If the shotes pile up in the pen at night, the pen is too cold, and there are too many shotes in the pen.

Community Co-operation Must Be Managed by Farm Leaders, Which Will Be Developed to an Increasing Extent in Kansas.

Farmers For Economy Too

Members of the Co-operative Union Give the Legislators a Friendly Warning About Wastefulness

THE members of the legislature know what the Farmers' Co-operative union thinks about economy.

Several hundred of the farmers visited the legislature one day last week, and some of them had a chance to talk. Four measures were especially urged for passage:

County unit of taxation for school purposes, that richer school districts may share their prosperity and advantages with the ones having less valuable property to tax.

A co-operation banking bill, to allow the members of the Farmers union to act as their own bankers.

A law authorizing co-operative associations to invest not more than 5 per cent of their capital stock in the stock of other co-operative associations.

Greater economy in spending the state's money.

Too Much Money Spent.

The president of the union, Maurice McAuliffe, told the legislators he believed they were a little too free in spending the people's money. The union, he said, had 140,000 members. "The legislature of two years ago," he said, "enacted the most liberal and co-operative law in the country. We want this extended so that we may establish a co-operative jobbing house in Kansas City, to buy goods for our 200 stores. Also we want an enabling act to allow 100 or more farmers to organize a co-operative bank."

When the delegation swarmed into the house of representatives business was suspended. After the speeches, the Rev. John Bright, chaplain of the house, sang the solo of "Throw Out the Life Line" and the big crowd joined in the chorus. Members of the union sang their war song, "While We Are Marching to Victory," led by J. W. Matter of Washington. The delegation visited Governor Capper in his office.

Governor Capper and others spoke to the delegates at one of the night sessions in the auditorium.

Governor Capper emphasized the necessity of curtailing extravagant appropriations. "The extreme has been reached in public expenditures and I believe that immediate retrenchment is necessary to insure the future welfare of the people who are bearing the great burden," said the governor. "I say this is the year of all years to apply the pruning knife to extravagant appropriations and am urging the legislature with all the earnestness at my command to go slow, to exercise the utmost caution in voting away the peoples' money.

"By his election and oath of office," the governor continued, "every official becomes the sworn servant of the people. His oath totally absolves him from any and all other interests. He has only to work unitedly, devotedly, faithfully and loyally as a public servant or violate the most sacred obligation of God and man. And public duty is so plain and so simple a thing that no man can go wrong who is right himself. The representative of the people, member of legislature or governor, who delays or defeats legislative action by playing politics for partisan or personal advantage is a greater traitor than Benedict Arnold, and more worthy of public exposure and disgrace. I am glad to say that in Kansas, at least, such men are becoming more scarce every year."

"The Farmer and the Public Utilities Commission," was discussed by Senator C. F. Foley, chairman of the utilities commission. Senator Wilson urged an awaking by the farmers and warned them to watch how their money was being spent by the legislature.

The annual report shows that in co-operative business Mitchell county leads with a record of nearly 2 million dollars in the last year. The president: "Osborne stands next to Mitchell, with Lincoln, Rooks, Ellsworth, Phillips, Russell, Ellis, Jewell, Cloud, Ottawa, Neosho and a string of others that are just starting, and with bright prospects of becoming greatly successful in the near future.

Elevator Increases.

"The number of co-operative elevators installed and put in operation during the past year exceeded my expectations. They more than quadrupled that of any previous year.

"The volume of business done by our co-operative business associations this last year, is of such a magnitude that it is scarcely believable, especially when one takes into consideration the fact that the Farmers' Union Co-operative movement in Kansas is only a few years old. I am fully convinced that the total amount of business done by all our Farmers' Union Co-operative associations will go beyond 30 million dollars."

A New Fake Loan Scheme

A new farm loan plan is being used. The scheme is essentially as follows: A company offers to lend you money on good security at, say, 3 per cent interest, and to allow you to repay the loan in easy monthly installments on the amortization plan. This sounds alluring, and, if you are not too persistent in asking what you are to get and when you are to get it, you sign an application for a loan on these favorable terms. In a few days you receive from such a company a contract for the loan for which you applied. The contract which you receive is duly signed by the officers of the company. Then you realize that the application signed by you and the contract signed by the officers of the company together constitute a valid contract, and that you are now in for it.

Under the terms of the contract you are to be t once paying off the debt, of say, $1,000 at the rate of $10 a month, but you have not got your $1,000 yet. Moreover, you do not know just when you will get it. The only thing you know is that you have got to go right on paying $10 a month. You h e, however, the promise that whenever the company has the money to spare, you will get your loan. Another way of saying the same thing is that when your turn comes, you will get it. This means that such a company has not got the money now, and that there are several other gentlemen whose turns come before yours. As fast as the company gets money it lends it out to these men each in his turn. When your turn comes, if the company lasts that long, you will get your money.

Now, where does this kind of company get the money which it is goi r to lend to you and the other men who have signed these contracts? Why, it gets it from you and those same men, and from no one else. Speaking to all of you collectively, it says, in effect, "Gentlemen, this company has no money of its own, but if you will pay your money into its treasury, we will then be glad to lend it back to you, if you will give good security, on very favorable terms, indeed."

If such a company ceased getting new contracts, it could not lend you your $1,000 until you had paid in $1,000. It has no other source of income, and it cannot create something out of nothing. If it continues to get new contracts after yours, then it can take the money paid in by those who follow you to lend to those who precede you. In this way your turn may come before you have paid in quite the full amount which you expect to borrow. But those who follow you will have to wait still longer on that account. If new applicants should sign up rapidly and in large numbers, and begin paying their good money into the company, the company may then be able to give you your loan tolerably early. But that only postpones the evil day. Those who follow you in such numbers will have to wait longer and longer, unless the applicants should continue increasing in a geometrical ratio. But the longer this sort of thing goes on the greater will be the smash when it comes.

Turkey Teeth

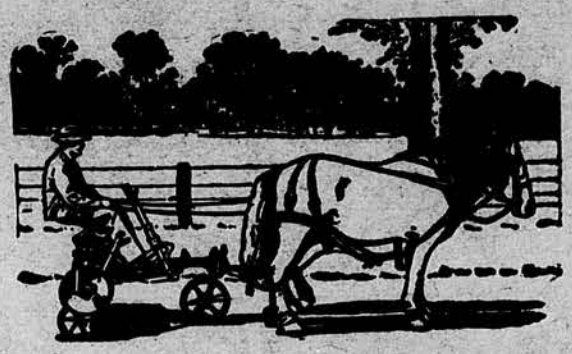
"Casey," said Pat, "how do yez tell th' age of a tu-u-rkey?"

"Oi can always tell by the teeth," said Casey.

"By the teeth!" exclaimed Pat. "But a tu-u-rkey has no teeth."

"No," admitted Casey, "but Oi have."
—London Opinion.

International Harvester Tillage Implements



"GIVE me average seed and a good seed bed and I'll grow a far better crop than the man who has the best seed and prepares his ground carelessly."

These are words of an authority on crops and soils, and they express the growing attitude as to the value of good tillage implements. To grow full crops the soil at the bottom of the furrows must be mellow and compact, the top soil pulverized and free of clods and large air spaces.

An International Harvester disk harrow puts your soil in top-notch shape, conserves the moisture, adds enough to your crop at harvest time to buy several harrows. I H C disk harrows are strong enough for meadow slicing and for working the stiffest, hardest soils. Their steel disks keep an edge. The bearings are as nearly dust proof as disk bearings can be built.

The full line of International Harvester tillage implements includes every style of disk and smoothing harrow and the best line of drills, seeders and cultivators built. See the I H C local dealer for full information about the line, or send to us for catalogues.

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Cow Abortion

What causes it? A germ in the mother's blood causes abortion.

Does it spread from one cow to another? Yes, usually through the herd bull.

Is that the only way? No, infected stables cause it.

Can it be stopped? Yes, by hypodermic injection, washing the genital organs and disinfecting the stables.

Will any ONE medicine prevent abortion? No, because the germ must be met at every turn and no one medicine can do it. Dr. David Roberts' Anti-Abortion medicine overcomes the germs in the mother's blood. Antiseptic overcomes the germs in the genital organs; Disinfectall overcomes the germs in the stables.

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This handy shoe repair outfit was made especially for home use. With the aid of these tools you can easily do any kind of shoe repairing at a great saving of time and expense. The outfit comes securely packed in a box and consists of the following: Iron stand for lasts; one each 9 in., 7½ inch, 5¾ inch lasts; shoe hammer; shoe knife; peg awl; sewing awl; stabbing awl; one package of heel nails; one package of clinch nails; and full directions. A most complete and serviceable outfit which will always give satisfaction.

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Dept. C. O. 10. Topeka, Kansas.

Kansas Needs Water Laws

Definite Rules Should Be Established For Irrigation

BY H. B. WALKER
State Irrigation Engineer

WATER for irrigation may be obtained by appropriation in Kansas. The first law which granted the right to use water was passed in 1886, and it reads as follows:

> The right to the use of running water flowing in a river or stream in this state for the purpose of irrigation may be acquired by appropriation. As between appropriators the first in time is the first in right.

This portion of our law is perhaps very similar to that of other states, but in many respects our methods of filing are quite different. For example, the proceedings under which a person must establish his right to use water in Kansas read as follows:

> Any person, company or corporation desiring hereafter to appropriate water must post a notice in writing at a conspicuous place at the point of diversion, stating therein: First, that such person, company or corporation claims the water there flowing to the extent of (giving the number of) inches, measured under four inch pressure, and describing and defining as accurately as may be the place of diversion; Second, the means by which such person, company or corporation intends to divert it, and the size of the canal, ditch or flume or aqueduct in which he intends to divert it. A copy of such notice must within ten days after it is posted at the place of diversion be also posted in a conspicuous place in the office of the county clerk in the county in which such place of diversion is situated and be recorded by the county clerk in the book kept for that purpose.

It will be noted that the entire proceedings occur in the county in which the water is diverted, although the water so appropriated may be used in an adjacent county.

A Larger Unit Is Needed.

This method of keeping records is open to many faults. The county unit for water records is too small to be efficient. For instance along such streams as the Arkansas, Smoky Hill, Republican, Saline and other rivers flowing through two or more counties, it is necessary for the applicant for a water right to investigate the records in all counties through which the stream passes, to determine the number of prior appropriations.

The law of 1886, paragraph 4409, reads as follows:

> The county clerk of each county where water is appropriated for the purpose of irrigating lands shall keep a book in which he shall record the notices provided for in this act, together with verified proof of the posting thereof.

I have had occasion recently to investigate the filings in the counties in the western part of the state. Letters were sent to the county clerks of 36 western counties, and 29 replies were received. Of the 29 counties reporting, 10 reported records of water filing, Kearney county having the most with 21, Pawnee county was second with 13. Finney county third with 11. Barton county fourth with 6. Ford, Ellis, Rawlins, Kiowa, Trego and Norton counties each reported one filing.

The Records Need More Care.

Most of the county clerks reported that they never had heard of any such records, and did not know that any had ever been filed in the counties. In some particular cases the county clerks reported that records were to be found in the office of the register of deeds. It was evident at any rate that water rights in Kansas were not generally considered to be of much importance, and it is undoubtedly true that many filings which have heretofore been made probably would be found faulty in some technical detail if occasion were found to dispute the right of the appropriator.

The proceedings by which water may be appropriated in Kansas are undoubtedly obsolete, and are not binding or exact enough to establish an intelligent water right. The law specifically states that such person, company or corporation that claims water flowing in the stream shall state the extent of the water appropriated, giving the number of inches measured under a four inch pressure. The reports which have been turned in to this office show filings as great as 100,000 inches, and I have observed posted filings as low as 5 inches. Further investigations into these extreme cases indicated that the areas proposed to be irrigated were nearly the same in both instances, yet one appropriator was filing on 20,000 times as much water as the other.

These inconsistencies in filings are not chargeable to the county clerk or the appropriators, as all undoubtedly were acting in good faith. It is due entirely to an ineffective system of water filing. In a single county there is not enough appropriation of water to keep the county clerk posted upon the law or methods for intelligent appropriation .

If the man who desires to appropriate water wishes 100,000 inches to irrigate 40 acres, his filing will be handled in the same manner as the man who files for 5 inches for a like area, although it is evident upon reviewing the records that both filings cannot be just and it is probable both are inconsistent with the theory of beneficial use.

Reduce the Water Rights.

Undoubtedly a water right should be limited to an economical and beneficial use of the water, yet our laws do not in any way specify what shall be considered as a beneficial use of water when appropriated from natural water courses and subterranean channels, except in a recent law which was passed by the 1911 session of the state legislature making provision for the use of artesian wells. A part of section 22 of this act reads as follows:

> The maximum amount of water which may be used on each acre of land under cultivation must not exceed one and one-half acre feet during the year.

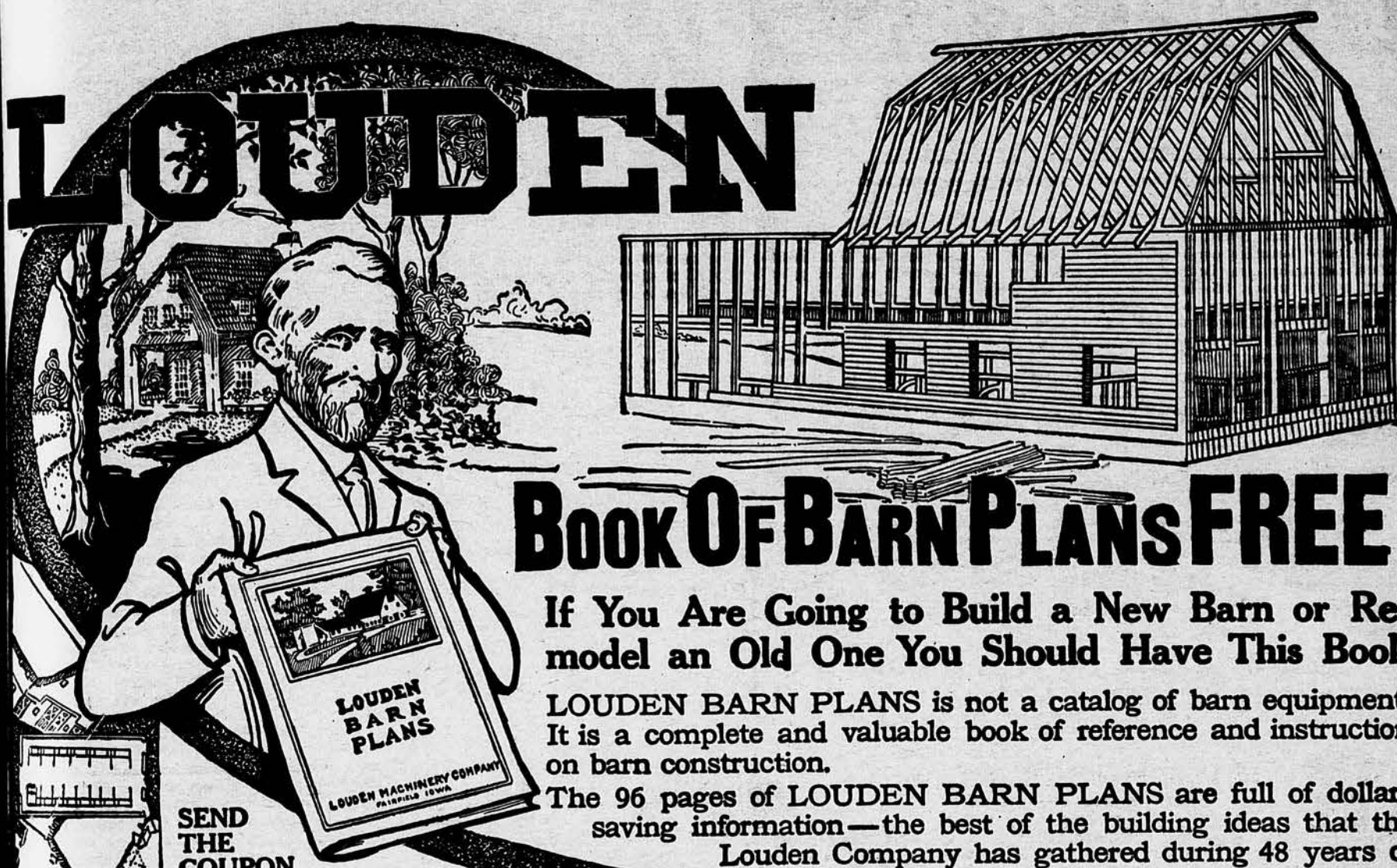
It would seem from the text of this act that an attempt had been made in this case to specify the beneficial use of water. Whether this is a just amount to be allowed for each acre of land is doubtful, yet it is at least specific. The law, however regarding the regulation of the use of artesian wells is much the same as some of our other laws in that no systematic method for carrying out the intent of the act has been provided for. The county unit is again used, and this does not give an opportunity to keep general or systematic records.

Under our present laws for the establishment of water rights it would be very confusing for the average land owner who is not a practical irrigator to secure a reliable and intelligent water right.

Even if Kansas does not have any great quantity of water flowing in her natural water courses which is available for irrigation, it does seem logical that

(Continued on Page 25.)

LOUDEN



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LOUDEN BARN PLANS is not a catalog of barn equipment. It is a complete and valuable book of reference and instruction on barn construction.

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WE HAVE DESIGNS FOR NEARLY 4,000 BARNS and our architects will give your letter personal attention if we learn your exact requirements.

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Barn will be about x feet.

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Mrs. Hostess

Here's Just the Thing For Your Washington's Birthday Party

BY MARY CATHERINE WILLIAMS

WOMEN who like to entertain their friends are all agreed that among the many benefits conferred upon his descendants by the Father of His Country, by no means the least is the opportunity his birthday anniversary gives for pretty and novel parties. If you are a housewife racking your brains for plans for the party you'll have to give soon, or a teacher whose pupils and patrons are clamoring for a social, or chairman of the entertainment committee of your neighborhood club, you may find suggestions here that will prove just what you've been wishing to find.

Have George and Martha.

Of course George and Martha Washington must be present. They may be represented by the host and hostess, a young man and young woman among your friends, or by a tiny boy and girl. George's costume need not require much work in preparation. It consists of knee trousers, long stockings and low shoes with large tinfoil buckles on the shoes and at the knees, a long waistcoat with pointed front made of flowered cretonne or silkaline, high stock collar with a frill like the jabots worn several years ago, and white frills at the coat sleeves. A soft black felt hat may be pinned into the three-cornered colonial shape, and a wig may be made of rope with the short queue at the back tied with a bow of black ribbon.

Martha may wear a full-skirted dark colored dress with a white fichu crossed over the shoulders and a white cap on her powdered hair, if you like, but it is prettier to represent her as a younger woman in the costume of a colonial belle. Green and yellow make a charming combination for such a dress. Make a full, gathered skirt of green silkaline or cheesecloth. The pointed, tight fitting bodice and the panniers are of silkaline with large yellow roses or other flowers on a white ground. For each pannier take a strip of the cloth about a yard in length and the full width of the material, gather both ends and sew them side by side on a strip of cloth for a belt. Take up as much as is needed at the center to make the pannier hang prettily. The bodice should have short, frilled sleeves and a low neck finished with a small white fichu of lace or net. The hair should be powdered and worn high on the head, with one small curl at the neck in Janice Meredith style; and one or two black court-plaster patches should be put on the face, either near the lips or the corner of the eye. A very satisfactory way of powdering the hair is to tie ordinary cornstarch in a handkerchief and pat it over the hair after it has been arranged for the evening.

The Road to Yesterday.

If Martha and George are represented by tiny tots, they need do nothing more than answer the door. If they are older, George may act as master of ceremonies for the evening and Martha, with several assistants, may serve refreshments. If you like, you may arrange appropriate ceremonies and introduce every guest to the distinguished pair. One way to do this would be to lead the guests through a door marked The Road To Yesterday, or something else of that nature, and let them find George and Martha Washington waiting for them in the room beyond.

After this ceremony is completed, pass around small paper hatchets, red for the men and white for the women, numbered in pairs so that partners may be found for the next part of the entertainment. Then give every couple sheets of red, white and blue tissue paper and a supply of pins. The men are to make fichus and caps for the women and the women are to make stocks and frills for the men. Allow 10 or 15 minutes for the making, then ask the guests to put on the new apparel and have a grand march before Mr. and Mrs. Washington, who may act as judges and award as prizes pictures of their originals.

A series of historical "motion pictures" will cause much merriment and may be arranged quite easily, especially if the entertainment is given in a school house where there is a curtain for use in dialogs and programs. If the party is given in a private house a room shut off from the others by folding doors may take the place of stage and curtain. The hostess should provide a number of "stage properties," the more absurd and ridiculous the better.

Call the Groups.

Pass numbered slips through the company to divide them into groups of six or eight. Then call group No. 1 back of the curtain and tell them the scene they are to act out. At one very successful affair of this sort the first picture was Columbus at the court of Ferdinand and Isabella. The king and queen were seated in chairs placed on top of a kitchen table, with the lids to tin dinner pails on their heads for crowns. For a scepter Ferdinand held in his hand a large rolling-pin, while Columbus knelt at his feet holding the school globe in one hand and pointing to the new world in an exaggerated gesture with the other. The rest of the group stood around as courtiers. The master of ceremonies will announce every picture before the curtain is drawn.

Other scenes which may be worked out with good effect are Sir Walter Raleigh throwing down his cloak for Queen Elizabeth to pass over, and Pocahontas saving the life of Captain John Smith, with Smith kneeling to place his head on a large block of wood, or a footstool. While an Indian savage stands with a club poised above the prisoner ready to strike, and the other braves are seated on the floor in the background, Pocahontas rushes in with outstretched hand to save him. Washington crossing the Delaware could be shown by several men in washtubs or overturned tables rowing with brooms on the carpet river, while Washington stands at the prow in the attitude of the famous picture.

Miles Standish in Three Reels.

The courtship of Miles Standish could be given in three "reels." The first scene will show John Alden writing at a table while Standish marches up and down the room with nervous tread as he asks Alden to pop the question to Priscilla for him. The next "reel" will be the spinning scene where the puritan maiden, Priscilla, says archly, "Why don't you speak for yourself, John?" The final scene should show the wedding party leaving the church, with Standish returning after his supposed death in the Indian wars, like a ghost to greet them. Of course, after glaring at each other for a moment, he and Alden fall upon each other's necks in forgiveness.

The scene from Uncle Tom's Cabin where Eliza crosses the river on the floating ice can be made laughable to an extreme. Eliza should carry a doll or a bundle of clothes in her arms for little Harry, and skip nimbly from cake to cake of ice represented by newspapers scattered on the floor, while the boys in the group pursue her on all fours, baying like bloodhounds. Judges previously appointed may award a prize to the most successful group. A box of mints which can be divided among the players is a good prize.

Refreshments may be as simple or as elaborate as one pleases.

Cherries, of course, form the decorations for fruit salad or ice cream. The maraschino cherries that come in 10-cent bottles holding 18 or 20 cherries are larger and prettier than the ordinary candied cherry. Novel and delicious refreshments for a small home party, especially if the night happens to be very cold, are hatchet-shaped hot baking powder biscuit with butter, cherry preserves and coffee.

Variety in Everyday Cooking

There are many good ways to make common, everyday things. And it is variety that keeps up the appetite and good spirits of the family. It's the deadly monotony that gets on the nerves. There's no doubt that ruts in cooking have been the cause of many a family quarrel. These recipes, furnished by readers of the Mail and Breeze, will all be found good:

Dessert from Scraps.

Stale sponge cake and other cakes too dry to use in the usual way may be made into the most delicious of trifles. Crumb the cake and place it in alternate layers with canned or preserved fruit and cold boiled custard. Whipped cream is even better than the custard.

Rule for Buns.

[Prize Recipe.]

Take 1½ cups milk, warm and whole, ½ cup sugar, ¼ cup yeast, and 1 rounded tablespoon flour. Stir together at night and set in a warm place to rise. In the morning add ½ cup sugar, ½ cup butter, and enough flour to knead stiff. Let rise again, knead into 30 buns and put into pans, allowing them just to touch. Let rise again and bake in a moderate oven 15 minutes. The addition of currants will improve them.

Morrill, Kan. Mrs. Mary Reed.

Potato Doughnuts.

[Prize Recipe.]

Cream 3 tablespoons cottolene, add ¾ cup sugar, yolks of 3 eggs well beaten, and white of 1 egg. Stir in 1 cup of freshly mashed potato and ¼ cup milk. Sift 2½ cups flour with 3 teaspoons baking powder, add a teaspoon each of salt and ground mace, also a little nutmeg, then add to the first mixture, working in additional flour as necessary to handle lightly. Roll and cut all doughnuts before beginning to fry. The mace can be omitted by those who do not like it.

Topeka, Kan. Mrs. L. B. Huckell.

Canterbury Chicken.

[Prize Recipe.]

This is an unusually nice way to serve a chicken when there are guests. Cook 1 teaspoon finely chopped onion with 4 tablespoons butter, stirring constantly to prevent burning. When yellow add 1 tablespoon cornstarch moistened in cold water. Stir until well blended; then pour on gradually, while continuing to stir, 1½ cups of the liquor in which a fat chicken has been stewed. Bring to the boiling point, and add ½ tablespoon lemon juice, ¾ teaspoon salt, ⅛ teaspoon paprika, ½ cup chopped celery, and 2 cups of chopped chicken. Serve hot, garnished with parsley.

Jennings, Kan. Pearl Chenoweth.

Glasses When You Need Them

(Prize Letter.)

People should wear glasses when they are needed, especially women about their cooking. Among my acquaintance are women who absolutely need glasses, but think it terrible to wear them before a certain age; and they tell of their parents and grandparents who were old before they had to wear glasses. Now we know it is not age always that makes glasses necessary. When 2 and 3-year-old children have sometimes to be fitted out with glasses it seems foolish to me that anyone should have the sort of pride that will not allow her to use glasses when they are needed, no matter what her age. It is possible even to endanger the lives of the family because of poor sight. For instance: Today when I took off the lid from a cup of jelly there on the top lay a sliver of glass, so small it could scarcely be seen. Because it was so very small it might have been eaten without causing any great damage; or again, it might have cost someone his life; and it would have been called appendicitis or some other big name. How many are prepared to say that just such small things as this have not caused untold misery? Not many opticians will give glasses where it is not necessary. B. E. G.

Haviland, Kan.

It is better to make a germination test of your seed corn before planting than to have to replant it.

The orchard should receive a part of the farmer's attention during the winter.

Why take less than Ajax mileage?

WHY be satisfied with 3500 miles, which is the anticipated life of standard makes of tires, when Ajax Tires are *guaranteed in writing* for 5000 miles? Why not enjoy these 1500 more miles, this 43% more service, this saving of $4 to $20 on every tire, according to the wheel size you use? Decide now to equip with Ajax Tires.

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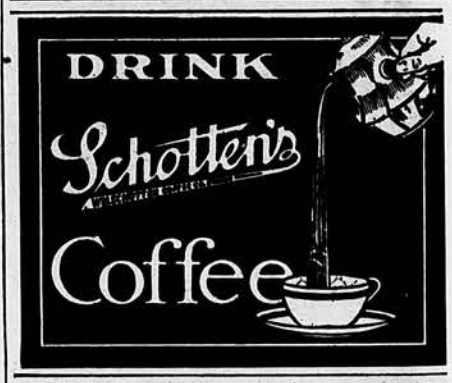

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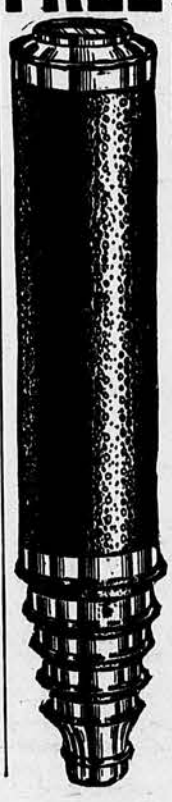

This is a real telescope and not a worthless toy. It is made by one of the largest manufacturers in Europe

When closed, as shown in picture, the telescope is 12 inches long and has a circumference of 5¾ inches. When all 5 sections are pulled out the full length is over 3½ feet. It is built of the best materials, brass bound throughout. We furnish with each telescope a solar eye piece for use in studying the sun and the solar eclipses. Eye piece can also be used as a magnifying glass to detect insects or germs in plants or vegetables.

Powerful Lenses 5 to 10 Mile Range

The lenses in this telescope are carefully ground and correctly adjusted by experts. See objects miles away. Farmer said he could count the windows and tell the colors of a house 7 miles away and could study objects 10 miles away which were invisible to the naked eye. Absolute necessity for farmers and ranch men. They can keep their eyes on the cattle, horses or men when far distant.

Our Offer!! We will send one of these big telescopes free and prepaid to all who send $1.00 to pay for one year's new or renewal subscription to Mail and Breeze and 25 cents extra for postage ($1.25 in all). The Telescope is guaranteed to please you in every way or your money will be promptly refunded. Order at once. Address all letters to

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Eighth and Jackson,
TOPEKA, KANSAS.

HOME DRESSMAKING

These patterns may be had at 10 cents each from the Farmers Mail and Breeze.

Ladies' shirtwaist 7061 may have either long or short sleeves. Six sizes, 34 to 44 inches bust measure.

A two-gore yoke skirt having tunic and slightly raised waist line is shown in 6837. Six sizes, 22 to 32 inches waist measure.

No. 7075 is a ladies' dress with three-gore skirt in full length, which may be

cut in shorter length or for a tunic if desired. Six sizes, 34 to 44 inches bust measure.

One-piece apron 7056 is in five sizes, 4 to 12 years.

Girls' dress opened on the shoulders and with guimpe having long or short sleeves is shown in 7076. Four sizes, 6 to 12 years.

USE THIS COUPON FOR PATTERN ORDERS.

The Farmers Mail and Breeze, Pattern Department,
Topeka, Kan.
Dear Sir—Enclosed find ..... cents, for which send me the following patterns:
Pattern No..... Size.....
Pattern No..... Size.....
Pattern No..... Size.....

Name .....
.....
Postoffice .....
State .....
R. F. D. or St. No.....

BE SURE TO GIVE NUMBER AND SIZE.

Rugs May Be Made at Home

Hooked or pulled rugs made from rags seem to be especially popular in the list of homemade rugs. The rags may be used in their natural color, but the very prettiest rugs are made from flannel dyed in soft, rich colors. They are made by pulling the strips through a foundation of burlap with a strong hook. The rags are cut ¼ to ½-inch wide. Do not sew them together. Use a strong piece of burlap for the foundation; the kind that [illegible] is wrapped in will do. Turn an inch hem all around the edge and stitch it on the sewing machine.

A frame is needed for making these rugs. To make the frame you will need four strips of wood 2 inches wide and ½-inch thick, two of them at least a foot longer than the length of rug and two a foot longer than the width of rug. Tack a strip of canvas or other stout material along one edge of each piece of wood, and sew the burlap to the canvas along the two longest sides before putting the frame together.

Then put the frame on the floor, lay the end pieces over the side pieces and sew the ends of burlap to the canvas. Stretch the burlap tightly and fasten the corners of the frame with clamps, being careful that the parts of the frame join each other at exact right angles.

Mark the sign on the burlap foundation with ink, using a brush. Any cross stitch design may be used by dividing the background into squares and following the pattern. Measure carefully so the design will come out evenly at both ends. While working the frame should be supported on two tables or four chairs.

A hook can be made by filing down the rib of an old umbrella to the shape of a crochet hook. Twist the end into a loop for a handle, or have the wire sunk into a wooden handle. Regular hooks for the purpose may be bought at a hardware store, or by mail order from a large department store.

The worker is seated at one end of the frame and begins to work along the outer edge from the right. Hold a strip of the material (that is, one of the cut rags) under the rug, insert the hook from above and pull the strip through until a loop ¼ to ⅜ inch long is visible. Decide at the beginning what length of loop you prefer to use and try to make all loops uniform. Skip 2 or 3 threads of the foundation and draw up another loop. When you have used all the strips draw the end through and leave it on the right side. To start a new strip bring the end up through the last hole and proceed as before.

When the design demands a change of color before the entire strip has been used draw the unused part through and clip it, leaving the end on the right side. When the rug is finished the loops may be clipped or left as loops. The clipped ones have a more velvety appearance, but they do not wear as well as the others. Hooked rags should wear for years.

Beautiful rag rugs are being shown in some of the stores just now. These particular rugs are made in Japan, and are quite expensive; but the woman at home who wants to take the time should be able to make something quite similar. The rugs are ½ or ¾ inch thick, which means that the rags are cut wide. New cotton goods is used, in plain colors only. Two lengths of rag are carried along together; each is rolled rather closely, then the two are rolled together. Then the roll is laid down flat and sewed to the previous roll after the plan of grandmother's braided rugs, round and round. The sewing is very close and firm, and is done by machine; this is the part that would take the time on a rug that was being made all by hand.

It is the color combinations that make these rugs so attractive. The two rags that are rolled together are of different colors; but the color scheme of the whole rug is harmoniously planned. No colors form a sharp contrast. There are no reds, although a few rugs show a very soft old rose rolled with some neutral color, such as tan. Soft grays and greens, creamy yellows, dark blues, lavendars—these are illustrations of the colors used. You notice how Japanesey they sound.

Most of the rugs form a rather long oval; a few are round. For a rug 5½ feet long there will be a center perhaps, 25 inches wide all of one color combination, possibly light blue and tan; then a band 3 or 4 inches wide of a darker blue; next a lighter space of another color combination finishing with a dark edge. For the resourceful woman of artistic taste the number of pleasing color combinations will be almost endless. A round Japanese rug 3 feet in diameter, made in Japan, is priced at $3. Room rugs 8 feet wide and 10 feet long are about $20.

Warm food and cold mornings go well together. Direct road to eggs, and they are what we are all after.

3498 Letters In Six Days

25c for Three Months The Country Gentleman

They came from every state in the Union—not a state missing—in response to one single article in THE COUNTRY GENTLEMAN.

Within a month nearly 10,000 of our readers wrote the Department of Agriculture at Washington, asking for the bulletin referred to in our article.

The official in charge of this governmental department says: "What the people want nowadays, especially those who read the agricultural journals, *are facts told in the least possible space.* I thought you would be interested in this one illustration of how your feature articles are received by the public. Every state in the Union has been heard from."

Ten thousand letters in one month about one article gives some idea of the value of a wide-awake farm weekly to wide-awake farm people.

You need this up-to-date fact paper in your farm business!

Incidentally—Is there any farm problem that is bothering you? THE COUNTRY GENTLEMAN will solve it.

Any problem about management, crops, feeding, markets, orchards, chickens—any farm question at all—will be answered for any reader of THE COUNTRY GENTLEMAN personally and promptly *by mail.* We have more than 100 experts to perform this service for you absolutely without charge.

Ordinarily THE COUNTRY GENTLEMAN sells for five cents the copy or $1.50 the year. But—

To put this big national farm weekly at once into half a million farm homes, the next 13 issues of THE COUNTRY GENTLEMAN *will be mailed to your address for 25 cents—less than two cents a copy!*

The Curtis Publishing Company
Box 580, Philadelphia

PASTE 25¢ HERE

NAME _____
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(In Canada, 50c) Mail to us now and start at once.

"Lookin' at the thing perlitically," remarks Bill Jones, "I don'no whether to be a Hold Out or a Stand In."

The pruning season for bad habits is of the same length as the year.

In the forests of the West, the mistletoe counts next to fire and insects in the amount of damage it does.

Money invested in happiness helps put the tombstone man out of business.

Let This Poultry Book Start a New Income For YOU!

I want you to read this famous home made catalog which pointed the way for a poultry income in about 580,000 homes. Read how you can get good fat profits from the chickens by enlarging your operations the Johnson way. Get enough to pay your living expenses and a little more. There's no science or mystery about it when you get in touch with the Johnsons. Send for our book today—and let it start another income in your home.

H. H. Johnson

Old Trusty

Now Has Over 580,000 Owners

and 100,000 more will be found this year. That's about 3 or 4 times more owners than any other incubator in the world. The reason is Old Trusty owners find that it's the easiest to get good big profits with. It's built simple—free from needless parts—brings as good hatches for the beginner as the old-timer—and never asks favors of the coldest weather.

Mail a Postal Today

for the Old Trusty catalog and our low price based on 100,000 sales this year from the largest incubator factory in the country, on 30 to 90 days' trial and 10 year guarantee. Send for the book, whether you intend to order or not.

M. M. Johnson Co.
Clay Center, Nebr.

Still LESS Than $10

Freight Paid Anywhere East of Rockies—a trifle more to points beyond

Ironclad TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

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

30 DAYS' FREE TRIAL
Money back if not satisfied.

140-EGG Ironclad Incubator

Galvanized Iron
Asbestos
Redwood
Insulated Board

Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap tin or other thin metal and painted like some do to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this advertisement.

10-Year Guarantee

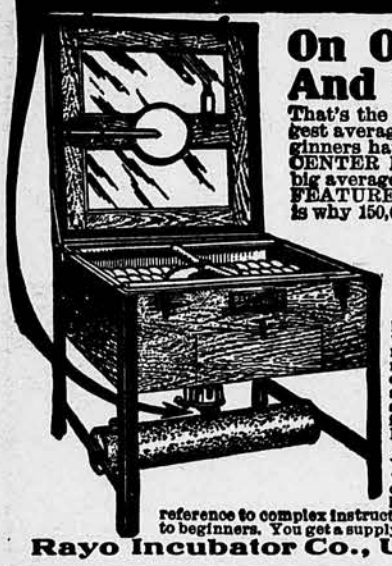
Both for $10 Freight Paid East of Rockies

MADE OF CALIFORNIA REDWOOD

140 Chick Brooder

IRONCLAD INCUBATOR COMPANY, Box 97, RACINE, WIS.

GET BIG HATCHES



On Only One Gallon of Oil And One Filling of Oil Tank

That's the BIG fact about the RAYO Incubator—you get biggest average hatches with the least oil and the least work. Beginners hatch like experts with it right from the start. Why? CENTER HEAT! It produces evenest temperature, making big average hatches easy and certain. And it has other BIG FEATURES that you can't get on any other incubator. That is why 150,000 pleased, enthusiastic users call the

RAYO CENTER HEATED INCUBATOR

The Greatest Hatcher the World Ever Knew!

There's the glass top, which puts everything in plain sight throughout the hatch. No more stooping and lighting matches! No more suspense on hatching days. You can see everything just as plain as daylight. A great convenience. The Rayo Patent Hatching Chart, first and only such thing in the world, shows you exactly what to do and what not to do each day throughout the hatch. No more continued reference to complex instruction book. Especially valuable to beginners. You get a supply of charts free with the RAYO

And there's the 6-qt. oil tank which holds enough oil for entire hatch. No more daily fuss and muss and grease filling the tank every day. It hatches on one gallon of oil, too, Others use 5 to 7 gallons.

FREE Sample of Rayo Hatching Chart, sure guide to success, and our catalog and book, "Turning Eggs Into Chickens Into Dollars." Yours free—a $1.50 Hygrometer free when you buy. Postal brings Catalog Book and Chart. SEND.

Rayo Incubator Co., U. D. Sta., 4530, Omaha, Nebr.

Attention Farmer Friends

Great Bargains, the best Incubator and Brooder, the only perfect heating system in the World—

The New Poultry Leader

is the greatest RECORD BREAKER in Hatches, write first for large Free Illustrative Catalogue and Special Prices before you buy, and then judge. DON'T MISS THIS CHANCE.

$7.00 And Up

Emil Ochsner, Sutton, Neb., Box 3

The action of a draft horse is receiving much more attention than formerly.

WANTED IDEAS Write for List of Inventions Wanted by manufacturers and prizes offered for inventions. Our four books sent free. Patents secured or Fee Returned. VICTOR J. EVANS & CO., 826-F Washington, D. C.

Lice Proof Nests

Book Sent FREE

Keep your hens happy, get more eggs, bigger profits, by keeping them free from lice and mites with KNUDSON Galvanized Steel Lice Proof Nests

These wonderful, sanitary, *patented* nests (not a trap nest) can't get out of order—last a life time and earn their cost many times over. Regular price $3.90, set 6 nests—special introductory price $3.50; 3 sets (18 nests,) $10. Write for our *free* catalog, Gal. Steel Brood Coops, Runs, Chicken Feeders, Trap nests, etc. KNUDSON MANUF'G CO., Box 622 St. Joseph, Mo.

Broods Reared Without Hens

Crowding and Lack of Ventilation Are Common Faults in the Management of Brooders

ARTIFICIAL method of brooding chickens consists in supplying artificially as nearly as possible the heat furnished by the hen under natural conditions. The temperature of a hen is about 106 degrees, but as hens seldom sit closely on chickens the latter do not receive this much heat. Hens adapt their methods of brooding to conditions such as temperature, size of the chickens, and wet weather. The operator of a brooder must meet these conditions as well as he can. This lack of adjustability to changes is one of the weakest points in our present brooder systems, according to the United States Department of Agriculture. Some of the most important faults in the management of brooders are overcrowding and lack of ventilation. Under these conditions the chickens fail to get sufficient exercise. The brooder should supply the proper temperature, be readily adapated to changes in weather conditions, and be easy to clean and well ventilated.

Chickens usually are left in the incubator from 24 to 36 hours after hatching, without feeding, before they are removed to the brooder. The brooder should have been in operation for a day or two at the proper temperature for receiving the chickens. A beginner should try his brooding system carefully before he uses it. After placing the chickens in the brooder they can be given feed and water. Subsequent loss in chickens frequently is due to chilling received while taking them from the incubator to the brooder. They should be moved in a covered basket or receptacle in cool or cold weather.

Brooders of Many Kinds.

There are a large number of hovers, brooders, and brooding systems used throughout the country. One poultryman uses a system successfully, while his neighbor may make a failure of the same system but does well with another. More difference of opinion exists as to the value of brooding systems than in any other part of poultry rearing, which shows that no system is ideal for all conditions or all people, but that success depends largely on individual handling and care. Many failures in brooding are due to weak chickens, which may be traced to faulty incubation or weakness in the breeding stock. Successful rearing of chickens depends primarily upon having healthy, vigorous breeding stock.

The small individual hovers and brooders are heated with hot air or hot water, with kerosene oil as the source of heat. Hovers are used entirely inside, either in brooder houses or in small colony houses, while brooders are made for both indoor and outdoor use. Outdoor brooders are used with success and work very satisfactorily under most weather conditions.

Individual hovers in colony houses are giving quite general satisfaction on small poultry farms, while the pipe system of brooding is commonly used in large commercial poultry plants and where extensive winter brooding is done. When a lamp is used as the source of heat, care should be taken to keep the wick and burner properly cleaned. Brooder lamps and stoves should be inspected several times a day. Do not fill the brooder lamp quite full of oil, as the heat from the lighted wick will expand the oil in the bowl and may cause it to overflow and catch fire.

Large individual brooders are used in colony houses, and when the chickens are weaned the colony house is used as a growing coop, which requires a smaller investment than the long, piped brooder house, and allows one to rear the chicks on range to good advantage. Brooder stoves with a capacity of from 500 to 1,500 chickens, heated by distillate oil, are used extensively in some sections of the country. These stoves usually are seen in houses which are about 18 feet square, but are occasionally found in long brooder houses. Most of them are equipped with a wafer regulator that controls the flow of oil which is fed automatically from a tank or barrel outside the house. Several stoves may be connected with the same supply tank. This system provides good ventilation, sufficient heat to keep the chickens from crowding, and requires a minimum of care.

Until one has had considerable experience it is best not to brood more than 1,000 chickens in one flock, and a much smaller number probably will do better. Individual hovers with a capacity of from 200 to 1,000 chickens have been placed on the market recently and appear to be giving satisfaction. Each hover is heated by a separate self-feeding coal stove which is adapted for use in a colony brooder house. The value of this brooder depends greatly on the efficiency of the heater and the time required to care for the stove.

Brooders are heated either by overhead or bottom heat or by a combination of these two methods. Too much bottom heat does not give good results, while either the overhead or the combination methods are used successfully. Gas and electricity are used for heating brooders and hovers with good success, and where available they supply one of the steadiest and most convenient sources of heat. Heaters for the mammoth brooders or hot-water pipe systems usually are equipped with automatic regulators, which are operated either by expansion of water or electric contact. A reliable regulator is very essential to success with any of these systems.

The necessity for a better organized farm industry in the United States is now generally regarded as urgent. Kansas has no adequate law encouraging and providing for the formation and conduct of farmer co-operative societies such as exists in the states of Wisconsin, Minnesota, Nebraska and Iowa. As we live in one of the foremost agricultural states, we should not be backward in providing every condition which will aid our greatest industry.—From Governor Capper's Message to the Kansas Legislature.

Eggs When Prices Are High

Between November 23 when I gathered 17 eggs and today, January 14, when I gathered 50, my Rhode Island Red hens and pullets have laid 1,448 eggs—a little more than 27 1-3 eggs a day. In December they laid 743 eggs and since January 1 they have laid 554. Eggs have been from 25 cents to 30 cents a dozen since Thanksgiving. I kept a record of the eggs laid by my 100 hens last winter and find in comparing this winter's record that the 80 I have now are beating the 100 I had then. Some of this year's hens were last year's laying pullets. I have about 36 pullets, one or two 3-year-old hens, and the rest yearling hens. I hatched my first chickens early in March, and all during April I hatched early layers.

Hens do not lay without painstaking care. In the morning I give about 6 quarts of sprouted oats in straw, for them to eat while I mix their mash. I sprout the oats in a box behind the stove. Their mash consists of a 12-quart pail of bran mixed with skimmilk or with water, and 2 tablespoons of tankage. I also give them a kettleful of milk to drink, if I have it, or some water slightly warmed. If the weather is suitable the chickens are then turned out to rustle for themselves until 4 o'clock when I feed them about 1½ gallons of wheat and a gallon of corn. They have all the oyster shell and charcoal they wish. I do not keep grit because my hens seem to prefer the native gravel.

Our hen house is 10 by 20 feet, of drop siding, with open front to the south. There is a door in the east and in the southwest corner. In summer we use screen doors and in winter part of the open front is closed and part of it has a curtain over it. We use crude oil to keep down mites and we dip the hens, after warm weather comes, to kill the lice. The dip consists of crude oil, soap, and warm water. We find the Farmers Mail and Breeze an excellent advertising medium. Mrs. V. E. DeGeer.

Deerhead, Kan.

Brooders Make Lighter Work

I have had eight years' experience raising poultry on an acre. I run an incubator and two brooders and I find that the brooders are profitable and save a great deal of labor. I set my hens in the early spring as fast as they wish to sit. I have a little lot around the brooder, with plenty of shade as well as sunshine. I feed the little chickens cracked wheat for the first two weeks; after which I feed them whole wheat, giving plenty of gravel and clean fresh water. They need to be fed several times a day. I use a feeding pen so the big hens cannot bother them or get their feed. A few meat scraps or a little corn chop mixed in milk should be given if they do not get worms or insects.

If I discover a sick chicken I take it from the flock at once. I never throw a dead chicken away. I burn or bury them.

I prefer a warm clean place for the hens to roost, with ample ventilation on the south and well protected windows on the north. I also have a good covered scratching pen open and wired on the south so as to give them all the sunshine possible. Their nest boxes are made warm and comfortable and in a rather dark place. I place a leg band on each hen so that I can tell their ages and tell the best layers.

Hens should not be kept too fat if they are expected to lay well. I never feed my hens warm feed in cold weather. A change of feed often increases their laying. They should have plenty of exercise. If they act dumpish and do not drink much water in cold weather, give them a little salt in their feed. It will liven them up. Keep air slaked lime in the houses.

If the weather is warm during the hatching season I dampen the eggs and nest straw with warm water the last four days of the hatch. This often saves chickens from dying in the shell. This is also necessary with incubator hatches, but often enough moisture is supplied by keeping a little water in the incubator.

Fresh sprouted oats is a very cheap feed for laying hens and tends to increase their laying capacity. They should be fed with care however, and the hens should not be fed too many. I like to keep but one kind of chickens, and advertise my best surplus stock, selling only the culls in the market. For fattening purposes alfalfa meal mixed with wheat bran and fed wet with their grain feed is excellent.

Goessel, Kan. J. M. J.

Use Lime Freely In Runs

For a poultry plant of 100 hens on an acre I should have the house 10 feet wide and 60 feet long. It should be divided into six parts. Beginning at the east we have a scratch shed 8 feet by 10 feet. The next room is 10 feet by 10 feet and is equipped to accommodate 50 hens. It has a glass window in the south and also a door. The third room from the east is 8 feet by 10 feet and is used for a scratching shed. Both scratch sheds have poultry netting in the front so as to let the light and sunshine in. There is an oilcloth curtain to let down on stormy days. Each scratch shed has a door in the south. The fourth room from the east is 10 feet by 10 feet and is equipped to accommodate 50 hens the same as the other, with a door and glass window in the south. The next room is 10 feet by 10 feet and is used for feed and sitting hens. It also has a door and glass window in the south. The last room is 10 feet by 14 feet. This room is used for the little chickens and has a door and two glass windows in the south. All the windows are close to the floor so as to admit the light and sunshine on the floor. All the doors in the partitions swing both ways.

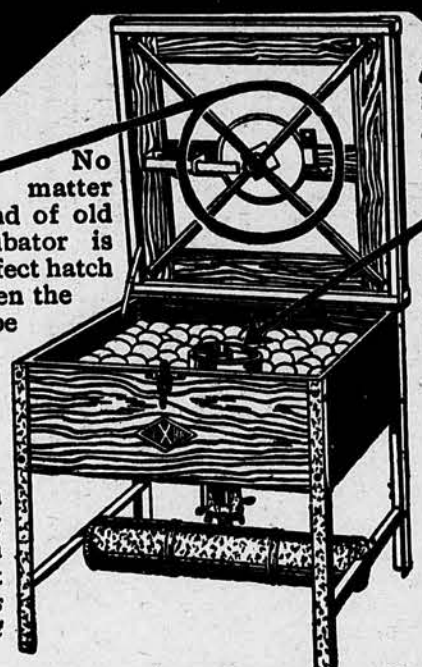
Each bunch of 50 hens has a scratching shed and a lot. Each lot contains about 900 square feet. There is also a larger lot for the little chickens. The remainder of the acre is sown to some grass that will afford good green food for the fowls; I prefer alfalfa. One day I turn one pen of hens on the alfalfa, and the next day another, and so on. The lots are plowed about September 1, and lime is sprinkled over the ground. This keeps it in good condition for the hens.

Goodrich, Kan. Raymond Wooton.

Youth is an unincumbered estate until habits get a mortgage on it.

Record Hatches Are Always Made by Moist Heat

X-Ray Radiator



X-Ray Vapor Generator

No matter what kind of old style incubator is used, the perfect hatch occurs only when the heat *happens* to be right. But why depend on "happen so"

X-Ray

when you can make certain of moist heat by using X-Ray Incubator? With its wonderful new moist heating principle, *it is natural moist radiation just like the heat under the mother hen.* No other machine has it. No other machine can use it. Get the facts. When the heat enters the X-Ray Egg Chamber it is concentrated on the X-Ray Generator. This produces a warm gentle vapor which pervades the entire egg chamber. The heat then passes to the X-Ray Radiator which carries it to the farthest corners. Every ray of heat *must pass over and through this warm vapor* before it reaches the eggs. And every egg gets its share alike.

Incubator

Fifteen Great Special Features

We now have ready the finest illustrated and most completely descriptive incubator catalog we ever published. Send for a copy. It is free. It tells all about the exclusive X-Ray features. The X-Ray Central Heating Plant. Saves 75c to $1 per hatch. *Big Oil Tank requires only one filling to hatch.* The X-Ray Egg-Tray—leaves entire space available for eggs. The X-Ray Automatic Trip—the X-Ray Regulator automatically operates it to shut off or let on flame to just the right size for the right amount of heat. X-Ray Hinged Glass Top. X-Ray material and finish—Rosewood enameled galvanized steel outside—finest insulating material—California redwood interior—rustproof, leakproof—handsome enough for the parlor. We pay the freight—No agents—Shipped direct.

X-Ray Brooder also has X-Ray Radiator

Write and Ask for Book No. 47

Get our big new incubator book and our low direct-to-you factory prices. We'll guarantee that it's one of the most interesting works on Incubators you ever read.

X-Ray Incubator Company
Des Moines, Iowa

New X-Ray Book Get This Great Book

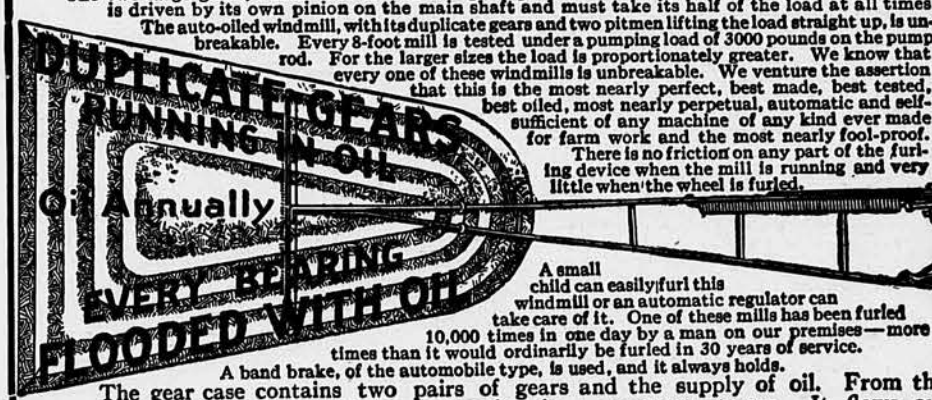
THE AUTO-OILED WINDMILL WITH DUPLICATE GEARS RUNNING IN OIL

Every bearing is constantly flooded with oil. Two quarts of oil in the gear case of this 8-foot auto-oiled windmill will keep the gears and every bearing flooded with oil for a year or more.

The galvanized steel helmet covers the gears, keeps out rain, keeps out dust, keeps in oil. The mill needs oiling but once a year.

There is a windmill, known the world over as "the windmill which runs when all others stand still." This new windmill with gears and bearings flooded with oil runs in much less wind than that well known windmill.

The two large gears, which lift the load straight up, are each independent of the other and each is driven by its own pinion on the main shaft and must take its half of the load at all times. The auto-oiled windmill, with its duplicate gears and two pitmen lifting the load straight up, is unbreakable. Every 8-foot mill is tested under a pumping load of 3000 pounds on the pump rod. For the larger sizes the load is proportionately greater. We know that every one of these windmills is unbreakable. We venture the assertion that this is the most nearly perfect, best made, best tested, best oiled, most nearly perpetual, automatic and self-sufficient of any machine of any kind ever made for farm work and the most nearly fool-proof. There is no friction on any part of the furling device when the mill is running and very little when the wheel is furled.



A small child can easily furl this windmill or an automatic regulator can take care of it. One of these mills has been furled 10,000 times in one day by a man on our premises—more times than it would ordinarily be furled in 30 years of service. A band brake, of the automobile type, is used, and it always holds.

The gear case contains two pairs of gears and the supply of oil. From this gear case the oil circulates to every bearing in a constant stream. It flows out through the friction washers in the hub of the wheel and is automatically returned to the gear case. Not a drop of oil can escape. It is used over and over. So long as there is any oil in the gear case the gears and every bearing will be flooded with oil.

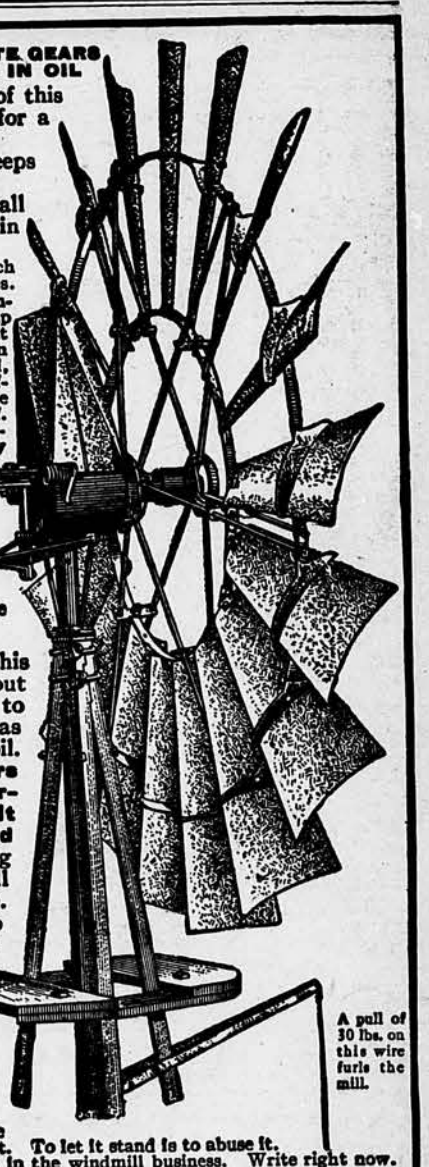
If you are tired of climbing a windmill tower; if you are tired of buying repairs and having them put on; or, if you are tired of waiting for a big wind, let us furnish you an unbreakable, self-oiling, ever-going mill to go on any old tower. It costs but little and you will get the difference between no water in a light wind and an abundance of water in almost no wind. The flooding of all the working parts with oil, the perfect balance of the wheel and vane on the tower, the very small turntable on which the mill pivots and the outside furling device make this difference.

Now there is no objection to a high tower. Have as high a tower as you need to get wind. You don't have to climb it. Your dealer can come once a year and put in oil, if needed, and inspect the mill.

Running water purifies itself—stagnant water, standing water, collects and retains impurities. If you pump from your well constantly all the water it can spare, the water that comes in to take its place will be pure. If the water in your well stands until you happen to want some, and you pump but little, then it is likely that surface water will flow into it and carry in impurities. The unsafe well is the one that has standing water. A flowing stream is the thing to be desired.

The auto-oiled windmill makes all this possible as it can run from one year's end to the other with practically no wear and no cost. If interested, write Aermotor Co., 1146 So. Campbell Ave., Chicago. Why not have flowing water, cool in summer and warm in winter, always fresh and pure? It will cost next to nothing. It will give health to your family and stock. Let the water run into a good size reservoir and raise all the fish of the choice kinds your family can eat, and have water to irrigate your garden and make it raise many times as much as it would otherwise. Water costs nothing. Use it. To let it stand is to abuse it.

We need and must have the best dealers everywhere. They need us if they are going to remain in the windmill business. Write right now.



A pull of 30 lbs. on this wire furls the mill.

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Special Outfit Suggestions With Our Prices and Terms

WE offer these Special Outfit suggestions on Victrolas. The records included in these outfits are 10-inch double-faced records of your own selection, or if you prefer other records you may select them to the same value from the Victor Catalog of over 5,000 selections. We give you the benefit of our experience, our superior service and our musical knowledge, which gives you exceptional advantages in selection and advice. Particular people will appreciate this.

$50 STYLE 4

$50 STYLE 9

Jenkins Outfit 4-A $5 CASH $5 a Week No Interest **$19.50** Includes latest Victrola Style 4 with 12 selections on 6 double-faced 10-inch records.

Jenkins Outfit 6-A $5 CASH $5 a Week No Interest **$29.50** Newest Victrola Style 6 with 12 selections on 6 double-faced 10-inch records.

Jenkins Outfit 11-A $7 CASH $5 a Month No Interest **$107.50** Newest Victrola Style 11 Cabinet Model with 20 selections on 10 double-faced 10-inch records.

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$100 STYLE 11

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Write to us today and learn more about the wonderful Victrola. It will provide more pleasure, amusement and entertainment for your family than anything you have ever had in your home. Write today.

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with each Fur Coat or Lined Robe. Write for big New Catalog. We also buy Hides, Raw Furs, Wool. Write for price-list and shipping tags. TRAPPER'S GUIDE FREE.

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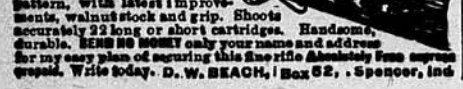

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At Mr. Lincoln's Monument

Billy and Betty See Where a Great Man Sleeps

BY MARY CATHERINE WILLIAMS

"PUT on your hats, children," said Uncle Fred one morning soon after breakfast. "You are going to see something today you have never seen anything like in all your lives before—not even in 'windy Kansas.'"

"Oh, what is it?" cried Billy and Betty both, excitedly. They had been visiting Uncle Fred away off in Illinois long enough to be used to his teasing, and they felt something interesting must be in store for them.

But all Uncle Fred would say this morning was "Guess," and though both

children guessed as hard as they could, they hadn't found out what the surprise could be even when Uncle Fred stopped his car and told them to get out.

"Why, we are at the cemetery!" cried Betty in disappointment. "What is there nice to see here?"

"I know now," said Billy. "It's Lincoln's monument. Don't you remember, Betty, that the history book says it's in Springfield?"

And sure enough, that is what the surprise was. The children could see the monument for a long way before they reached it, for it was very tall—heaps higher than the standpipe in the town at home where the children went to Sunday school—and it was very white as it reached up toward the blue sky from the green tree-tops around it. As they came nearer, they saw the monument was square, with great stone steps going up around it to a high terrace on which there were big bronze statues and back of these statues, in the center of the structure, rose a shaft of plain granite that Uncle Fred said was 100 feet high.

"We'll go into the memorial hall first," Uncle Fred said, and led the way into a small room on the ground floor. In the center were large glass cases that made the children think of the show cases in the stores at home and on the walls were flags and pictures of many sorts. On a table at one side was a big open book where Uncle Fred said they would all write their names, and addresses.

There Were Other Visitors, Too.

"I wonder if anybody who has been here today came from farther away than we did?" said Betty as she wrote Kansas after her name.

"I looked to see," answered Billy, "and there has been somebody here from California and somebody from New Mexico, too."

"Come here, Billy," called Uncle Fred, "here is a chair that was in Mr. Lincoln's office when he was a lawyer right here in Springfield."

Billy and Betty both went to look, and then they began to find all sorts of interesting things in the cases; letters in Abraham Lincoln's own handwriting, and newspapers with accounts of battles in the Civil War, and of the assassination of the president, and so many other curious things that Billy and Betty could hardly leave when Uncle Fred said it was time to go to other parts of the monument. They climbed the broad stone steps to the terrace and looked at the huge statue of Lincoln standing with the Emancipation Proclamation in his left hand and in his right, the pen with which the famous paper had just been signed. Uncle Fred said one of the groups of life sized bronze figures which they saw at the corners of the monument represented the infantry of the United States army, and that the group where a soldier was holding a frightened, rearing horse, represented the cavalry, while one of the groups around large cannon was the artillery and the other the navy. On the walls of the monument were shield shaped tablets, every one bearing the name of a state of the Union. Billy and Betty walked around all sides slowly till they found the shield with the name Kansas on it.

"Now," said Uncle Fred at last, "we will go to see the place where the body of Mr. Lincoln rests." They went down the steps again and around to a room on the north side of the monument. There, back of strong iron bars, was a lead casket on the end of which were carved a wreath and the words, "With malice toward none, with charity toward all."

"It's a wonderful thing for a man to have such a big, beautiful monument as this after he is dead," said Billy slowly, as they turned to leave.

"Yes," answered Uncle Fred "but the monument that must please Abraham Lincoln many times more is a living monument and it is built out of the hearts of the men and women and boys and girls who love and honor his memory."

"I wish all the boys and girls who are part of the living Lincoln monument could see this wonderful stone one here," said Betty softly. "I'm going to remember all the interesting things we've seen here, and then when Lincoln's birthday comes I can write an essay about it for our school program."

"That would be fine," said Uncle Fred.

Eva's Valentines

BY ELIZABETH GALE.

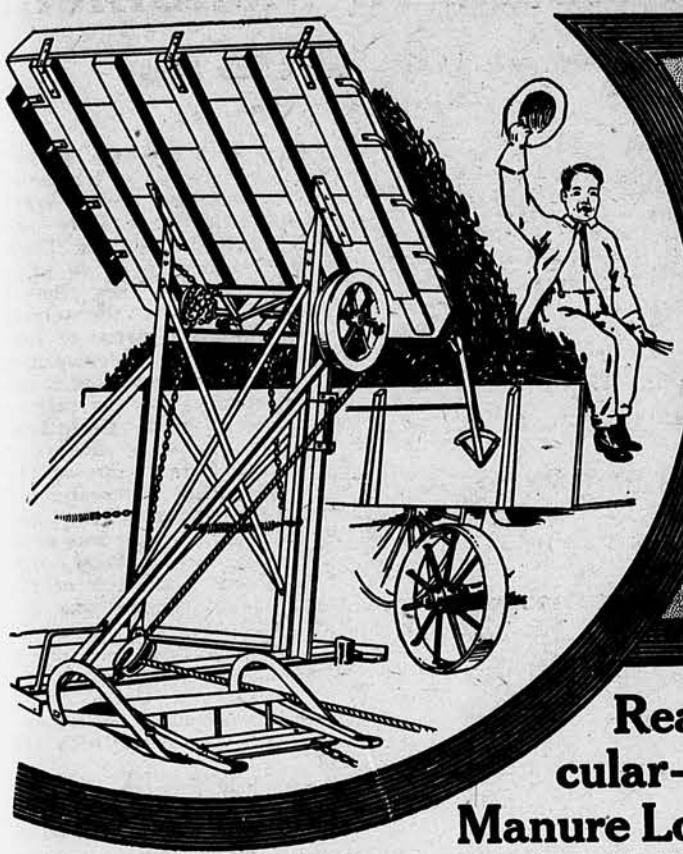
Eva lived far out in the country. From the dining room windows she could just see the roof of the nearest house on the hillside 2 miles away. The nearest town was much too far away to see and it took nearly a whole day to drive there and back. Father had gone to town yesterday and would not go again for at least a week, and he had forgotten to

buy the valentines she asked him for. In just three days it would be the fourteenth of February and she had not a single valentine to send to her friends.

She was terribly disappointed, so mother tried to find some way to help her and at last she thought of a way for her to make her own valentines and told her about it. Eva was delighted then and ran out at once to get the things mother said she would need.

First she went across the road to a clump of evergreens and gathered a few of the freshest looking branches, and then from the barn she took several

(Continued on Page 24.)



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FRED E. ANDERSON

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I am the inventor of the Anderson Loader. I have been figuring on it since I was a boy. I grew up on the farm and I know what it is to load manure one forkful at a time, and pry it up out of the hard packed barn yard. We don't pitch hay into the barn by hand any more, or plow with a spade. We have spreaders to scatter the manure, but nothing but man muscle up to now to load manure or dirt and that's harder than unloading it.

My first machine was made of wood and worked with block and tackle, but it did the work O. K. and loaded 15 loads in 2 hours. But I kept improving it. My new machine is more simple. There are winding drums and chains to hoist the platform and it has a lighter draft and shorter pull. It does its work easily and perfectly, and lifts the dirtiest, hardest work on the farm off your shoulders.—FRED E. ANDERSON.

50 Spreader Loads Easy in a Day

By One Man and the Anderson Loader

You drive the team across the platform and dump the scraper load of manure, or dirt, on the platform. When you have it full—3 to 5 scraper loads—you unhook the team from the scraper and hitch onto a rope—pull the platform up, and it dumps itself automatically on the spreader without tripping. Two times fills a 75 bu. spreader. It saves horse time and man time. The horses don't stand still while you are breaking your back. One man and team keeps 3 spreaders on the go. The Anderson Loader is simply and sturdily built. There are no gears, trips or delicate parts to break or get out of rig. It is strong enough to stand the hardest knocks, handles any load up to a ton without strain, and will last for years. It is suited to the large farm or the small farm and sells at a price any farmer can afford.

What Men Say Who Are Using It

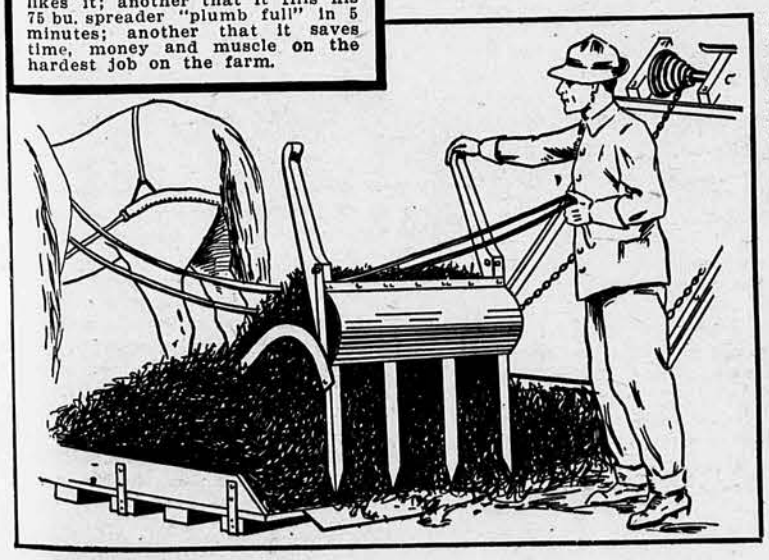
The Anderson Loader, has been tried and proved on farms from Texas to Minnesota. Every farmer who sees it wants it. One owner says he wouldn't take $200 for his; another, that if he could only have one, a spreader or a loader, he'd take the loader; another that $150 wouldn't take it off his farm, that he about killed himself loading manure by hand; another that the more he uses it the better he likes it; another that it fills his 75 bu. spreader "plumb full" in 5 minutes; another that it saves time, money and muscle on the hardest job on the farm.

The Anderson Manure Scraper

is used for all coarse manure or for sod. No matter how full of corn stalks, straw, kafir or cane—nor how hard it is tramped, nor how dry or wet, this scraper handles it without a bit of trouble. It is built strong and will stand hard usage. It has teeth like a fork, and a high arched bail to let the coarse manure in. It operates like an ordinary dirt scraper. For finely rotted manure or dirt you use an ordinary road scraper.

One of the worst profit leaks on the farm is letting old stack bottoms and manure in feed lots go to waste. This year if ever it will pay you to get every possible bushel from each acre—it means money. By the old forkful-at-a-time method you can't get the manure out when it will do the most good. The work piles up, and the manure hauling is let go, and your land and crop and pocket-book suffer. But think of putting out 50 to 75 loads in a day, besides being rid of the work and worry of a job too big for your time and strength! The **Anderson Loader** makes a long, disagreeable job into a short and pleasant one.

My Big Illustrated Circular shows each part of the **Anderson Loader**, and just how it works. It gives my rock-ribbed, freight-both-ways guarantee, and my offer to demonstrate the Anderson in your own barn yard, and gives you a chance to see what it will do, at my risk.



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Osage City, Kansas

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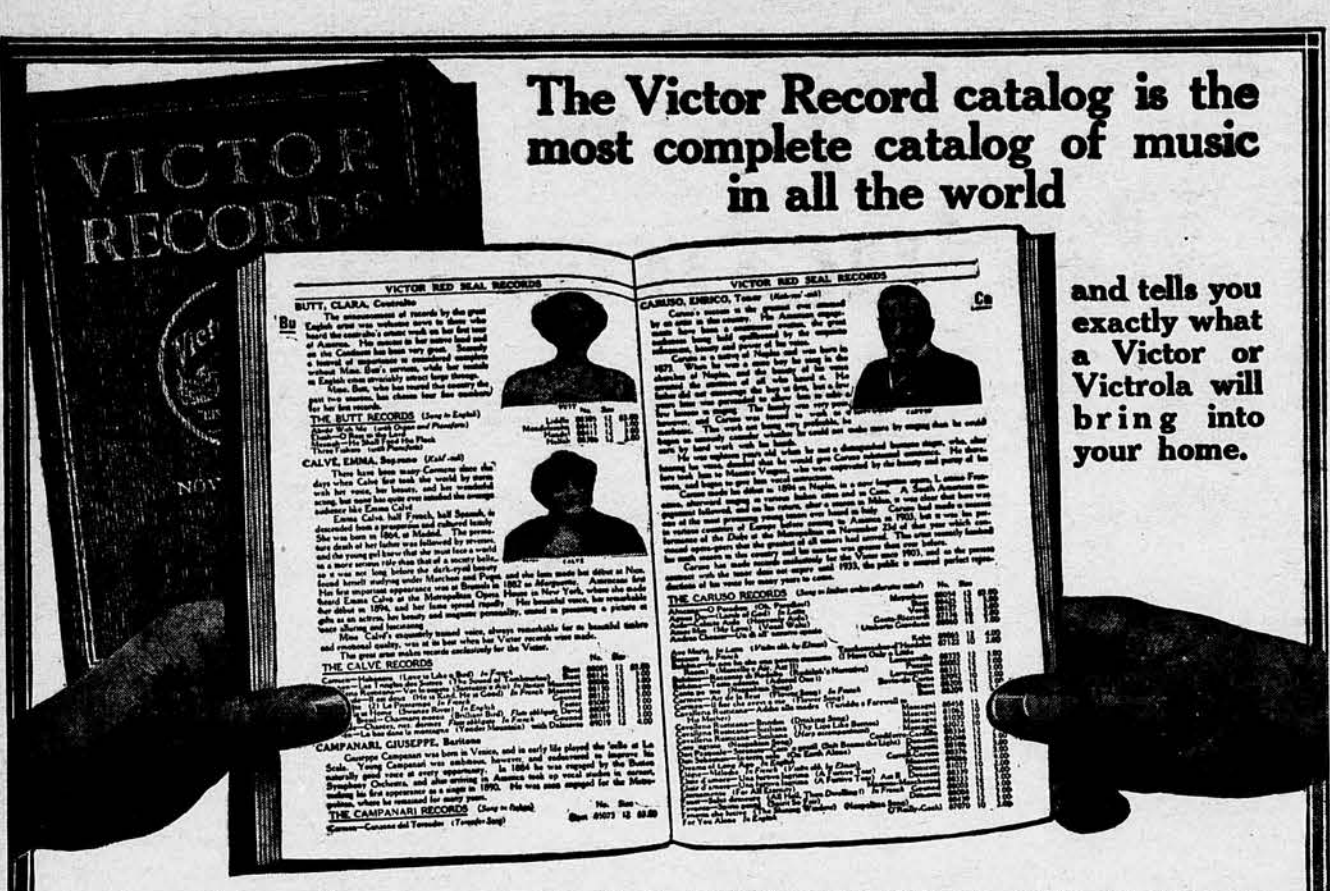

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One in 500 Insane

Of approximately every 500 persons in the United States in 1910, there was one an inmate of an insane asylum. The exact figures expressed in a recent report of the Census Bureau, state that in a typical community of 200,000 persons, equally divided as to sex, 208 of the males and 200 of the females would be found in the insane asylums. In the course of a year, 72 males and 60 females would be admitted to the asylums. In 1880 the total number of inmates in insane asylums in the United States included 20,635 males and 20,307 females. Thirty years later the number of male inmates had increased to 98,695, and the number of female inmates to 80,096. The excess of men among admissions in 1910 indicated a still further increase in the proportion, namely, 128 males to 100 females. An analysis of these admissions as to the specific forms of insanity involved brings to light the interesting fact that if alcoholic psychosis and general paralysis are deducted, the proportion of the sexes is practically the same. The diseases mentioned, says the Journal of the American Medical Association, would seem to be those which, generally, are the result of dissipation. Alcohol and syphilis again established their superiority as man's most dangerous allied foes.

At Mr. Lincoln's Monument

(Continued from Page 22.)

full stalks of golden grain. From the apple tree in the yard she broke some bare, brown twigs and wondered as she did it if she could possibly make them look pretty.

Mother was busy and could not help her but she explained how the valentines were to be made and Eva set to work by herself. She had a few cards, about 6 inches long and 4 inches wide, of a soft gray-blue tint, but most of her cards she had to make for herself, cutting them from white cardboard. About 2 inches from the upper left hand corner of one of the tinted cards she cut two small slits a quarter of an inch apart, and through these slits ran a narrow dark green ribbon. With this ribbon she fastened to the card three stalks of grain and then wrote below them:

The grain is gathered yearly,
But in my heart you'll find
A daily crop for you, dear,
Of thoughts both true and kind.

On other cards she tied graceful sprays of evergreen and beneath them wrote "My love for you is ever green."

The twigs from the apple trees were fastened with bows of different colors and looked remarkably pretty. The cards to which they were tied bore the following message:

Just a little sunshine,
Just a little rain
Bring the leaves and blossoms out
On the twigs again.

Just a joyous greeting
Sent 'twixt me and thee,
And new love thoughts blossom
On our friendship tree.

Eva made a number of valentines and enjoyed doing it so much that she has decided always to make them instead of buying them, and I am sure her friends would far rather have those she made this time for they were very attractive and unusual.

Sayings of Abraham Lincoln

"I do not think much of a man who is not wiser today than he was yesterday."

"I do not wish to die till the world is better for my having lived."

"When you can't remove an obstacle plow around it."

"When I am dead I want my friends to remember that I always plucked a thistle and planted a rose when it was in my power to do so."

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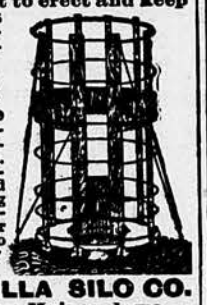

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"Our 12 cows last year, from March 1st for the following nine months, averaged us $1 per week per cow!"

"This is Poor-Man's Country. My grain crop this season will more than pay for the land it was raised on!"

Write for descriptive folder and details of our easy payments contract for 160 acres of this land. Only $200 down gets possession!

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Economy Feed Box Co., 115-119 Madison Av., North Vernon, Ind.

Whatever breed of cows you keep, strive to keep the best of that breed.

Canker Worms

(Continued from Page 7.)

consists of banding the trunk of the tree with a sticky substance to prevent the ascent of the wingless females. The best method is to smear the sticky substance on bands of heavy paper, such as building paper or tarred paper, bound to the trunk of the tree. The paper bands should be about 6 inches wide and the sticky substance should be smeared in the middle of it. The bands should be put on during the first warm days of early spring, and the sticky substance renewed whenever the material hardens. Either cotton should be stuffed behind the band to close all crevices between the tree and the band or a strip of cotton batting (cheapest grade) about 2 inches wide should first be placed around the tree and this covered with the band of tarred paper. The paper should be drawn snugly enough to press the thick band of cotton into the crevices. The band can easily be fastened at the top with three sharp-pointed tacks about ¾ of an inch long. If the paper band is much wider than the narrow cotton one it will cover it completely and thus avoid the unsightly appearance of cotton showing either above or below the edges of the paper.

A number of substances of a sticky nature may be used, such as pine tar, coal tar, printers' ink, and dendrolene, but the best substance, and one that remains sticky for several days is "Tree Tanglefoot." This is made by the G. & W. Thumb Co., Grand Rapids, Mich. The "tanglefoot" should be spread upon the band with a wooden paddle, leaving a smooth coating about ⅛ of an inch thick. On badly infested trees it is necessary sometimes to comb or renew the sticky substance frequently, as many of the females may be able to cross the bands over the dead bodies, and wings of males, which may cover the sticky part of the band.

The use of the sticky bands is recommended especially for large elms or other shade trees that would be difficult to spray. If the sticky substance is applied directly to the bark it will show as a disfiguring mark for many years, while if applied to bands of paper as described, the band can be removed from the tree at any time without leaving any sign or scar. Moreover, so much more of the "tanglefoot" is necessary to fill the cracks of the rough bark in making an efficient barrier that the cost equals that involved in the banding method.

To make a successful fight against canker-worms, too much emphasis cannot be laid upon the necessity of beginning promptly. If the banding method is used, the bands must be on the tree early enough to prevent the ascent of the wingless female moths, which takes place during the first warm days of March or even February. If the spraying method is used the spray must be applied just as soon as the worms appear, which usually is about the time the apple tree unfolds its leaves.

Kansas Needs Water Laws

(Continued from Page 16.)

it would be well to revise our irrigation laws to the extent at least of correlating the desirable features of our present irrigation acts and then striking out the remainder from our general statutes.

In addition to this revision some provision should be made for the appropriation of water based upon its beneficial use. All applications for filing should be made at some central office with someone to direct the work who is capable of knowing whether the amount of water filed upon is consistent with the area which it is proposed to irrigate. Furthermore, if filings where made at a central office it would be an easier matter to determine the priority of rights upon our streams, and in case of legal disputes there would be a reliable record for reference.

Provision should also be made for the investigation of the work following the application for the water right to determine whether the applicant was acting in good faith.

Buckwheat straw is not good for pigs, often causing an eruption or irritation of the skin.

Every hog on the farm will help you to grow better crops if you save every bit of manure.

Effective February 1

Reduction No. 3 On Goodyear Tires

Making Total Reductions 45 Per Cent in Two Years To Give Always the Most for the Money

We are glad again—for the third time in two years—to announce a big reduction on Goodyear tires, effective February 1st.

Goodyear policy on price is to give the utmost in a tire at the lowest possible profit. Our reductions are made to that end, without ever reducing the quality.

That always means, with our matchless output, more for the money than any other maker can give.

As rubber came down our prices came down. As our output multiplied, reducing factory cost, our prices came down with it. In two years our reductions—including the present—have totaled 45 per cent.

Last year we increased our output 26.6 per cent. A few days ago the embargo on rubber was modified so that supplies seem assured. The market price for rubber seems for a time established. Fabric costs less than last year. So, under our minimum profit policy, we announce this new reduction.

Only Fair Basis

We consider profit margin on a tire the only fair price basis. We keep that margin just as low as our line allows.

While we do that, Goodyear tires will always undersell any tires that compare with them. That is because we have the largest output. We have a new factory, modernly equipped. And we have world-wide facilities for buying rubber, of our extra grade, at the lowest market price.

For a long, long time most tires have sold much above Goodyear prices. Some have sold one-third higher. A few have sold lower as some always will, because of less rubber, less quality. But we can and do, under all conditions, give more for the money than any rival tire can offer.

The Best We Know

Goodyear Fortified Tires offer the best we know. They are built to give you the lowest cost per mile. They minimize tire trouble in five costly ways employed by no other maker. And they are always the same, regardless of price reductions.

Most tires will always sell higher, because of smaller output. Some tires will always sell lower because of lower standards. But we promise you that none will ever give better than Goodyear value.

This policy has made Goodyears the largest-selling tires in the world. It will make them more so as more men find them out.

Ask your Goodyear dealer for our new price on the size you buy.

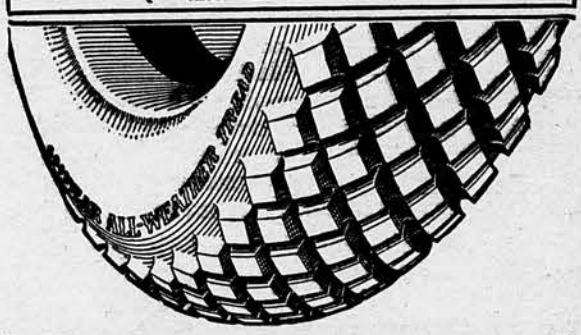
THE GOODYEAR TIRE & RUBBER CO.
Akron, Ohio

Makers of Goodyear Tire Saver Accessories and Goodyear Wing Carriage Tires and Other Types

GOODYEAR
AKRON, OHIO

Fortified Tires

Fortified Against
- Rim-Cuts—by our No-Rim-Cut feature.
- Blowouts—by our "On-Air" cure.
- Loose Treads—by many rubber rivets.
- Insecurity—by 126 braided piano wires.
- Punctures and Skidding—by our double-thick All-Weather tread.



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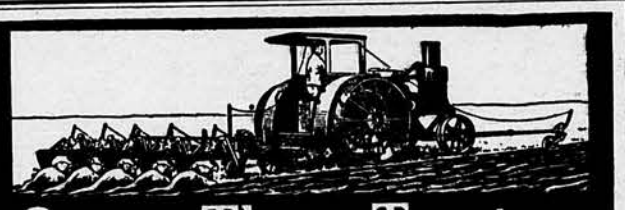
There's Almost No Wear-Out to These Tractors



THE first tractors we put out are running right along. They're so simple there's little to get out of order and their design makes them long lived.

Avery Tractors are also the simplest tractors built considering their durability. They have the fewest gears of any tractor, no fan, no water pump, no fuel pump. It doesn't take an expert to run the Avery Tractor. Any man or boy large enough to handle the levers can operate it.

Avery Tractors are also the lightest weight tractors built considering their draw-bar efficiency. They don't pack the ground and don't waste fuel or power moving useless dead weight. Besides all this, Avery Tractors are guaranteed to deliver their full rated horse power and have made records in fuel economy.

There are five sizes of Avery Tractors—all built alike. They make tractor farming successful on any size farm—large, medium or small. They're strongly guaranteed. They're no experiment. Proven out by every kind of test known. Built by an established company with experience and one that backs its machines with real service. Avery "Self-lift" Plows also make it possible for one man or boy to run an Avery plow outfit alone.

The wonderful success of Avery Tractors and Plows is proven by the fact that there are more Avery Tractors and Plows in successful operation than any other make. Write now for new complete Avery Tractor and Plow catalog and learn how you can raise bigger crops, save expense and have easier work by tractor farming with an Avery outfit. Address:

AVERY COMPANY, 1007 Iowa St., Peoria, Ill.

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AVERY "One Man" Outfits. 5 Sizes. Fit Any Farm

Old Reliable Four-Burr Mills

Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 3-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the Famous Iowa No. 2 mill for $12.50 Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

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AMERICAN CREAM SEPARATOR

Thousands In Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish **a brand new, well made,** easy running, easily cleaned, perfect skimming separator for **only $15.95.** Skims **one quart of milk a minute,** warm or cold. Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl **is a sanitary marvel** and embodies all our latest improvements.

Our Twenty-Year Guarantee Protects You Our wonderfully low prices and high quality on all sizes and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have *an old separator* of any make you wish *to exchange,* do not fail to get our great offer. Our richly illustrated catalog, *sent free of charge* on request, is the most complete, elaborate and expensive book on Cream Separators issued by any concern in the world. *Western orders filled from Western points.* Write today for our catalog and *see for yourself* what a big money saving proposition we will make you. Address,

AMERICAN SEPARATOR CO., Box 1092, Bainbridge, N.Y.

$14.75 AND UP BUYS A GENUINE "IOWA" SEPARATOR

Made in the largest Cream Separator factory in the World. Famous patented Curved Disc bowl, owned exclusively by us, skims closer than any other Separator, warm or cold milk, thick or thin cream. Finest grade of tinware. Enclosed dust-proof gears.

NOTHING IS SLIGHTED. QUALITY OF CREAM SEPARATOR IS GUARANTEED IN EVERY PARTICULAR.

Splendid shop organization, factory equipment and quantity output accounts for low prices impossible for others. Equally attractive prices on larger Separators. *Write for descriptive books of Separators.*

ASK ABOUT FAMOUS "CHORE BOY" LINE OF GASOLINE ENGINES—MADE IN ALL SIZES $28 AND UP

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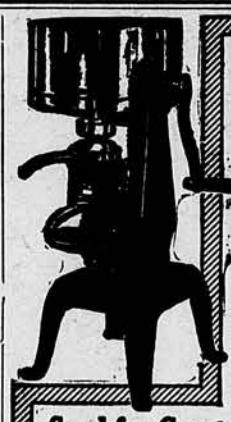

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YOU'LL *see for yourself* how much closer—how much better—Great Western separates by following Nature's law—cream from top, milk from bottom. Gives you more cash profit. Every feature illustrated and described.

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Shows Great Western's simple construction. Imported ball bearings throughout. Original low-tank, high-crank separator. Easiest to fill, operate and clean. Self-draining bowl. Sanitary. Lifetime durability. Liberal free trial. Send postal for book. Address

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ACME MOWER

The "ACME" Mower is famous the world over for its light draft, ease of operation and lasting qualities. It is strongly built—only the best materials are used. No other mower has such a sturdy appearance. The "ACME" not only looks as if it can do the work, but it positively never fails to perform its duties in the right manner. **Every "ACME" owner knows that an "ACME" Mower will do even more than we claim for it. Let us prove it to YOU. To have an "ACME" means having the best obtainable.**

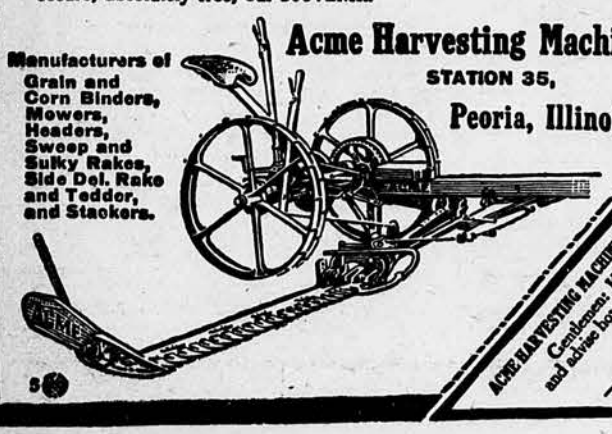
The "ACME" is built and backed by the Biggest Independent Harvesting Machine Factory in the world. For 50 years we have manufactured Harvesting Machinery and Hay Tools, and have always been the first to make improvements. Just ask an "ACME" user and you will soon be convinced that this line is making good and making money for the farmer. Write for our catalog, which explains fully.

"ACME" MOWER, "ACME" GIANT MOWER, "ACME" VERTICAL LIFT MOWER, "ACME" ONE-HORSE MOWER.

The four "ACME" styles and sizes will meet absolutely every condition. Tell us the nature of your ground and we will suggest the mower best adapted for your particular use. Do not think of buying a mower until you are familiar with this superb line—when once you see the construction of the "ACME," you will be immediately impressed with their appearance;—no mowers can be made more serviceable nor more substantial.

Sign the coupon right now and forward the same to us—it will bring our new catalog **FREE,** which contains all the information you want on the "ACME" four types of mowers. With our catalog will come, also, information as to how you can secure, absolutely free, our **SOUVENIR.**

Manufacturers of Grain and Corn Binders, Mowers, Headers, Sweep and Sulky Rakes, Side Del. Rake and Tedder, and Stackers.



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Gentlemen: Kindly forward, without charge, your free catalog and advise how I can secure, free, the Special Souvenir.
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Mild Weather Helps Wheat

BY OUR CORRESPONDENTS.

Now that the covering of snow is removed from the wheat fields, growers are hoping that the weather will not get extremely cold. Most of the farmers of Kansas believe in seeding their wheat rather early, however, and such wheat should be well enough established to stand a great deal of freezing and thawing without severe injury. Plenty of snow and rain is the report from Wichita county. The ground there will be in fine condition for plowing when it thaws out, according to Mr. White.

KANSAS.

Doniphan County—Plenty of moisture since January 1. A good many horses have died and farmers think it was from a disease caused by eating corn fodder. Not much grain of any kind going to market.—C. Culp, Jr., Feb. 6.

Linn County—Real winter weather with 4 inches of snow on the ground and the thermometer down to 10 below zero. Plenty of feed. Stock wintering well. Considerable hay and grain being marketed.—A. M. Markley, Jan. 28.

Greeley County—Fine winter with very little snow but plenty of moisture for the wheat. Threshing about done and cane, milo and feterita made good yields. Cane $1 cwt.; milo, feterita, and kafir, $1.15—F. C. Woods, Feb. 5.

Marion County—Cold weather and lots of snow. The thaw and freeze of last week was hard on the wheat. Stock in good condition. Feed plentiful. Hogs scarce. Wheat price is up. Corn 75c to 80c; oats 50c.—A. Spangler, Feb. 2.

Lincoln County—Winter weather. One-half inch of rain January 29 and the top of the ground is very wet. Farmers fear hard freezing weather for the wheat. Stock doing well. Rough feed plentiful. Wheat $1.35; corn 80c; kafir 80c; oats 63c.—E. G. Wacker, Feb. 1.

Stafford County—Having a good deal of winter with some snow and rain. Growing wheat is in very good condition. Stock wintering well. Public sales beginning. Stock not selling as good as a year ago. Not much wheat being sold at $1.37.—S. H. Newell, Feb. 2.

Crawford County—Having nice winter weather. Roads bad at this time. Wheat coming through the winter all right but it is short. Stock getting along nicely. Hog cholera has disappeared. Horses getting scarce and high. A number of farm sales being held now.—H. F. Painter, Feb. 6.

Sumner County—Good rains of last week make the growing wheat look fine. Thousands of bushels of wheat still in the county. Farmers have been selling a great deal of wheat the last two weeks at $1.50 a bushel. Oats 60c; corn 90c; eggs 24c; butterfat 29c; potatoes 70c.—E. L. Stocking, Feb 6.

Ellsworth County—Weather cold. Frequent snows and the last two snows drifted badly into the roads, leaving the wheat ground bare and causing it to freeze. There is a great quantity of snow in the stubble and stalk fields. Wheat price high but irregular. Good demand for hay and corn.—C. R. Blaylock, Feb. 5.

Dickinson County—Weather bright this morning. We have had two feet of snow since the middle of December and it all went off without drifting except the snow that fell a week ago which filled up the roads. The snow is about all off the fields. Plenty of moisture. Wheat $1.50; corn 80c.—F. M. Lorson, Feb. 7.

Wichita County—Plenty of snow and rain. Ground will be in fine condition for plowing when it thaws out. Stock doing well but taking lots of feed. Threshing cane seed, milo, and kafir still continues, and the yields are very good. Wheat $1.35; corn 75c; cane seed $1.05 cwt.; butterfat 26c; eggs 20c.—J. E. White, Feb. 6.

Sedgwick County—Had a good rain January 30 and a light snow February 1. Plenty of moisture for the wheat now. Not much plowing done. All livestock except horses and mules are tied up by quarantine on account of the foot and mouth disease. Wheat is all right. Beef and pork prices are down and poultry prices are up.—J. R. Kelso, Feb. 6.

Jewell County—Having severe blizzards and rain storms. Stock doing well. Plenty of roughness. Hog cholera is slacking up some. Several farmers have vaccinated their hogs. Horse market is getting better. Good many sales and everything is selling well but mules. Corn 65c to 70c; kafir 60c; oats 60c; eggs 25c; hogs 6c.—L. S. Behymer, Feb. 1.

Rooks County—Cold weather lately but not much moisture. The hard freezing with no covering of snow is hard on the growing wheat but as most of it was sown early it is standing the extreme cold very well. Cattle going through the winter in good condition. Hogs $6 and less on the market; corn 85c; eggs 22c; cream 26c.—C. O. Thomas, Feb. 5.

Cheyenne County—Weather has been windy and blustery the last two days. Not much snow on the ground. Wheat seems to be all right but some moisture would help it. Plenty of feed and very few losses reported from corn stalks. No sales to speak of the last month. Wheat $1.35; corn 66c; barley 65c; hogs $6.30; butterfat 26c.—F. G. Casford, Feb. 5.

Pawnee County—More strong winds than usual but they are not blowing the soil much. Plenty of moisture. Ground is frozen most of the time so we are not certain about the condition of the wheat. Stock doing well. Some wheat going to market. Roads bad. Wheat $1.50; corn 83c; oats 70c; kafir $1.35; hogs $6.25; hens 11c.—C. E. Chesterman, Feb. 6.

Douglas County—Weather cold and very windy. Snow all gone. Ground is not thawed yet. There is some water on the wheat in low places. Stock doing well. No disease to speak of. Farmers are cutting wood, hauling manure and breaking stalks when it is not too cold. Wheat looks good but it needs another snow to protect it from freez-

(Continued on Page 43.)

Guaranteed Pure

Seed at Bargain Prices If You Order at Once

Standard, pure Sudan seed is worth, right now, $1 a pound. It will probably be higher before spring. Practically every farmer in the country will plant some Sudan. In a month the demand will be great and prices high. I am confronted with an unforseen obligation. I've got to cash-in on part of my Sudan, quick. That is just the reason for this 30-day offer. It's your opportunity to save one-half or more on your spring planting.

Here Are My New Sensational 30-Day PRICES

10 POUNDS—Enough to plant 5 acres, a good trial field; prepaid $4.50
5 POUNDS—Delivered prepaid $2.50
25 to 50 LBS.—F. O. B. Lubbock; per lb. 30c
50 to 100 LBS—F. O. B. Lubbock; per lb. 25c
These prices are for cash—good 30 days.

Every Pound Bears the Official Inspection Tag Guaranteed By the World's Biggest Grower

In addition to the official inspection tag on every bag, I add my personal guarantee that every pound of my seed is absolutely pure. I grew it for my own use as well as the market. My original planting was officially inspected, recleaned and planted on clean land. Every precaution was taken to develop strong, healthy quality. It's worth every cent of a dollar a pound—now, for 30 days, you can buy it for half price, or less, according to quantity. Don't risk doubtful seed. Get the best from the biggest Sudan grower in the world—the most reliable source.

Order Today--Write for Full Details and Information

Don't wait! There positively will not be a better opportunity to get reliable seed at a lower price. Let us send you full information about the wonderful new crop. I'll trade Sudan seed for your cotton. A special proposition! Order before the 30-day period is over. Mail the letter today.

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Ride a RANGER

bicycle and know you have the best. Buy a machine you can **prove** before accepting.

DELIVERED FREE on approval and 30 days' trial. **NO EXPENSE** to you if, after trial you do not wish to keep it.

LOW FACTORY COST, great improvements and values *never before equalled.*

WRITE TODAY for our *big catalog* showing our *complete line* of 1915 bicycles, **TIRES,** sundries and parts, and learn the wonderful *new offers* and terms we will give you. Auto and Motorcycle Supplies at *factory to user prices.* **Do not buy** until you know what we can do for you. A postal card brings everything.

Mead Cycle Co., Dept. N-177 Chicago

Sanitation in a Bank Barn

Germs Prefer Darkness to Light and Thrive Where the Atmosphere Is Moisture Laden

THE ordinary, old-fashioned stable under a bank barn is damp and warm when filled with animals in the winter time, and damp and cool in summer. The warmth and coolness are agreeable, but disease lurks in both conditions of the stable atmosphere.

Since investigators have been looking into the germ troubles from which domestic animals suffer, attention has been directed to the objectionable features of these old-fashioned stable dungeons.

Germs prefer darkness to light. They thrive when the atmosphere is moisture laden. If the moisture comes from the breath of animals, they thrive all the better; it seems to act as a culture medium, to propagate the most undesirable of all cattle disease germs.

Sunshine and fresh air are the principal preventives. In the illustration shown here the architect of the Louden Machinery Company shows how to build a bank barn on sanitary principles. The bank is kept back away from the barn wall, and the upper floor is reached by a bridge.

Bank barns are not necessarily objectionable. Usually, they are built on an elevation where drainage may be maintained despite the usual barnyard disposition to get muddy and stay muddy. Besides offering better sanitary conditions, this plan provides the best possible means for establishing warm winter corrals having gates and passageways leading all the way around the stable section of the barn.

In grading the side of the bank, the earth removed to make this passageway may be dumped in scraper loads to fill the pot holes and to grade up the corrals and lanes.

Lime Water As a Preventive

A critical time in a calf's life is when its ration is being changed from whole milk to skimmilk. Frequently there is trouble at that time with scours. We have found that lime water placed in the skimmilk is very effective as a corrective. Lime water is made by placing some lime in water and allowing the mixture to stand until clear water forms on top. A teaspoonful of this water placed in a feed of skimmilk is enough to produce the desired effect.

Republic County. F. C. L.

Do Not Feed the Lice

Nothing hinders the growth and development of a calf more than the presence of lice in large numbers. Here is a remedy that I have found to be very effective in getting rid of them:

Dissolve a small bar of soap in a pail of water, and add about a pint of kerosene. This will make an emulsion that will act very promptly on the lice. Simply rub the mixture into the calf's hide. O. E. M.

Rawlins County.

Profit in Cheese Making

When dairy establishments overlook the possibilities of cheese making in connection with their business, they overlook a source of profit. During the recent buttermakers' short course at Iowa State college, the dairy department manufactured pimento cheese to demonstrate what might be done. From 100 pounds of 3 per cent milk 15 pounds of cheese was made. This was sold at 40 cents a pound, a total of $6. The pimento used cost 40 cents, leaving $5.60 to pay for the milk, the labor and other smaller items of expense, which is large pay for them.

"There is no question that the making of soft cheeses is a profitable side line for creameries and market milk establishments," says Prof. M. Mortensen of the college dairy department. "Cream cheese can be made to advantage in many instances. Out of 100 pounds of 10 per cent cream may be made 18 pounds of cream cheese. If the fat is sold as butterfat, it brings 40 cents a pound; if sold as cheese, 72 cents a pound."

Rations for Dairy Cows

The best rations for a dairy cow, according to recent investigations of the Nebraska college of agriculture, for a 1,200-pound cow producing 30 pounds of milk daily, are:

Ration No. 1. Twelve pounds of alfalfa, 36 pounds of corn silage, 4 pounds of ground corn, and 3 pounds of bran.

Ration No. 2. Where silage is not available, 15 pounds of alfalfa, 6 pounds of ground corn, 8 pounds of corn stover, and 2 pounds of gluten meal.

Ration No. 3. Where neither silage nor alfalfa is available, 12 pounds of millet, 12 pounds of sorghum hay, 2 pounds of ground corn, and 3 pounds of oil meal.

Cows and Soil Fertility

The greatest advantage in dairy farming is its relation to the fertility of the soil. No other system of farming excels in this respect, and but few equal it. A farm used for dairy purposes does not lose in fertility, but gains, and may be used for this purpose almost indefinitely.

When animals or milk products are sold off the farm, only a small portion of the fertility of the entire crop is sold, while the greater part of the fertilizing elements are returned to the soil in the form of barnyard manure. The fertilizing value of common grains as compared with the fertilizing value of the products of the dairy farm, figured at prices of commercial fertilizer shows less decrease in fertility by dairy farming.

One ton of butter contains 50 cents worth of fertilizer constituents.

One ton of milk contains $2.09 worth of fertilizer constituents.

One ton of wheat contains $7.75 worth of fertilizer constituents.

One ton of oats contains $7.26 worth of fertilizer constituents.

One ton of corn contains $6.75 worth of fertilizer constituents.

One ton of clover hay contains $9.07 worth of fertilizer constituents.

One ton of alfalfa contains $9.50 worth of fertilizer constituents.

Lung Fever or Tuberculosis

Will you tell me what is the trouble with my cow? She coughs and breathes as if it were warm summer weather. She is failing in milk and losing flesh. A. M. J.

Stevens County, Oklahoma.

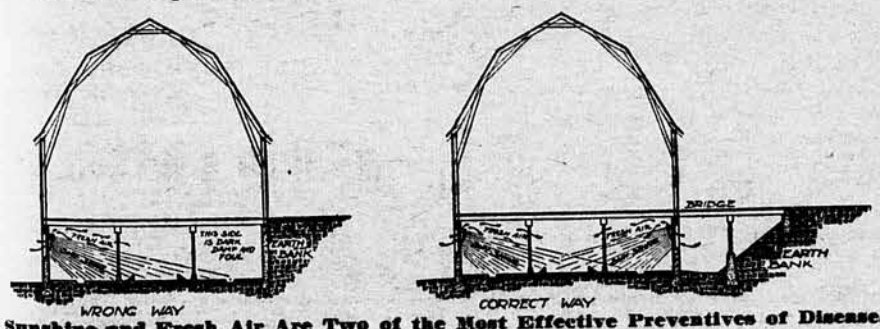
Your cow may be affected with chronic lung fever or with tuberculosis. Numerous abscesses which are incurable develop in the lungs in cases of chronic lung fever. I suggest that you have a competent graduate veterinarian apply the tuberculin test in order to make a positive diagnosis. The milk should not be used if the cow is tubercular, and as she is thin I do not think her meat would be fit for food.

Dr. R. R. Dykstra.

Kansas State Agricultural College.

The rule of self-defense was given some thousands of years ago: "Seek peace, and pursue it." It's still in fine working order.

Phosphate rock is playing an important part in the fertilizer industry and has almost entirely displaced bone, guano, and apatite as a source of phosphoric acid.



Sunshine and Fresh Air Are Two of the Most Effective Preventives of Disease.

The real test of a cream separator

SKIMMING cold milk, or milk from stripper cows, or both, is the real test of a cream separator. If your separator is small, necessitating a long run, it's still harder to skim clean in cold weather.

The De Laval is the only cream separator that can be depended upon to do good work under such conditions.

That is largely because of the exclusive patented "split wing" feeding device in the De Laval bowl.

This delivers the incoming milk into the separating bowl between the discs beyond the cream wall so that there is no remixing of the cream with whole milk, as in the bowls of all other separators.

For this reason the De Laval will skim clean under the very hardest conditions, whereas other machines which may do fairly good skimming under favorable summer conditions are the worst kind of "cream thieves" in winter.

A De Laval catalog, to be had for the asking, will explain fully why the De Laval can be relied upon to do good work under any or all conditions, or the local De Laval agent will be glad to explain to you this and other reasons for De Laval superiority.

The De Laval Separator Co., 165 Broadway, New York, 29 E. Madison St., Chicago

50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Summer Sunshine in the Winter Churning

WHAT a satisfaction to take from the churn a mass of rich, golden butter, sweet as clover in spring, although the pastures are buried in snow! June triumphant over winter! The principle of conservation revealed in a homely but profitable commonplace. This is a daily experience on farms that are equipped with the

INDIANA SILO

By preserving the juices and fibers as well as the grains, retaining all the sugar and all the succulence that sunshine and rain have contributed to the growing plants, the Indiana Silo reproduces in the winter ration the qualities that give richness and abundance to the dairy yield. The air-tight walls of the Indiana Silo prevent mildew and so perfect is its protection that the heat developed in the curing silage prevents freezing, even in the coldest weather.

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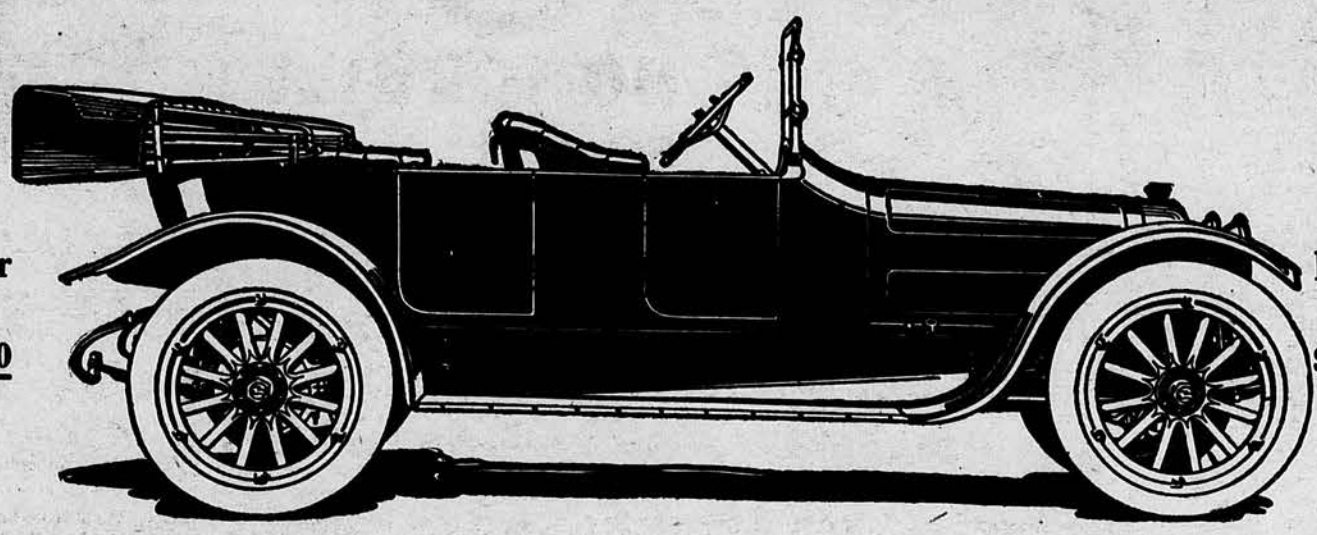
THE APPERSON

Six Cylinder Five Passenger Car $1485.00



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We have the right-of-way.
The new Apperson Six has a clear road.
No one is near us.
No one is in front of us.
No one is just back of us.
This car is the first high quality, five passenger, six cylinder machine to sell under fifteen hundred dollars.
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We have been in business for twenty-two years.
To the prospective purchaser this should have a special significance.
This long experience means everything to you.

A PASSION FOR QUALITY

Elmer and Edgar Apperson have a passion for quality.
It's a life long habit.
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They know, as no other men in this country know
—the value of metals.
—the value of each particular plan of construction.
—what you may expect of any certain designed car.
They are SURE of everything they do.
They know how to build a motor that will more than satisfy you.
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They know how to build a sturdy transmission, an accessible rear axle system, a "safety first" steering gear.
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They know how to do these things because they have been studying—designing—originating—inventing—building —for twenty-two years.
And having this wonderful store of knowledge, they are in a position to build an extraordinary car at a low price.

All the Apperson goodness is in it.
All the Apperson tradition—attention to detail—comfort, harmony and beauty find a place in this model.
The quality is self evident. The beauty is self evident. The value is self evident.

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Do not buy any six cylinder car until you have seen this one.
Convince yourself of the money saving value represented by this machine.
This car, by every standard of comparison, is entitled to a place in the two thousand dollar class.
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See this model at the first opportunity.
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It is the fairest way of presenting a product to you in these days when competition is keen, and at a time when automobiles are made to FIT a price.
Apperson cars have been honest, mechanically, for twenty-two years—and they are going to remain that way as long as the name Apperson appears on an automobile.
Apperson quality comes first, Apperson price always is second, and always is consistent with quantity production.

Apperson Brothers Automobile Company

Kokomo, Indiana

Lorimer of the Northwest

BY HAROLD BINDLOSS.

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THE PLOT OF THE STORY.

We've been several weeks telling of the hard work and the adventures of two young Englishmen, Ralph Lorimer, leading man in this company, and Harry Lorraine, his good natured partner. After crop disappointments enough to make many persons quit the business these two young farmers take a contract to build the roadbed for the railroad then building through the Northwest. Lorimer is in love with Grace Carrington whose father, Colonel Carrington, is opposed to him as a son-in-law. Lorimer finally returns to his farm with his sister as housekeeper while Lorraine continues the railroad work. Some of Lorimer's cattle are stolen and a special train is hired to catch the thief at Winnipeg. After this Lorimer and his partner go gold hunting.

CANNOT say how long the great harmony lasted, for we listened spellbound, unheeding the passage of time, while the cedars trembled about us as the tremendous diapason leaped from peak to peak and the valleys flung back the echoes in majestic antiphones. There was the roar of sliding gravel, the crash of rent-down forests, and the rumble of ice and snow, each mingling its own note, softened by distance, in the supernatural orchestra, until the last echoes died away and there was a breathless hush.

"We have heard great things," said Johnston; "what did the surveyor say? Not an ounce of the ruin is wasted; the lower Fraser wheat-lands are built that way. There's a theme for a master to write a Benedicite. Grinding ice chanting to the thunders of the snow, and the very cedars listening in the valleys. Well, I'll make him a free present of the fancy; we're merely gold miners, or we hope to be. Good-night, and remember the early start tomorrow."

He was up long before the late dawn, and it was still early when we waded scarcely knee-deep among the boulders of a curiously shrunken stream. Smooth-ground rocks cumbered its bed, and the muddy water that gurgled among them was stained red instead of the usual glacial green, while, as I wondered where the rest had gone, the prospector remarked. "These blamed rivers are low in winter, but I never saw one quite so ashamed of itself as this. It's the snow slide we heard last night damming the valley, and there'll be a rush worth seeing when it does break through."

I had occasion afterward to learn that he was right, but meanwhile we followed the banks of the river upstream, still looking for the gorge. Several times the prospector fancied that he identified a transverse opening, and then confessed that he was not even sure of the river, because, as he said, there were so everlasting many of them. Johnston grew more and more uneasy, until, when I called a halt as the sun bore south, he looked at me appealingly, and I agreed to continue until there was just time enough left to reach our previous camp by nightfall. So we held on, and finally he turned to me.

"I've played my last game and lost it," he said. "Well, you kept your part of the bargain; I'll keep mine. It's take up the home-trail, boys, we're going back to camp."

He said it lightly, but I could tell that he felt the disappointment bitterly, while even I, who had expected nothing, wheeled the pack-horse around with an angry growl. It was toward dusk when we neared the creek we had crossed in the morning, but it was no longer shrunken. Evidently the dam of debris had given way, for it roared in full flood now, and it was with anxiety that we quickened our pace. The hillsides loomed black out of the chilly mist that wrapped the serried ranks of climbing pines in their smoky folds. It was not yet dark in the valley, but the light was dying fast, and a bitter breeze swept down a darkening gorge, bringing with it the moan of an unseen forest until presently this was lost in the voice of the frothing torrent before us. There was neither fuel nor shelter on that side, and we determined to attempt the crossing, for, as Harry said, "Hunger alone is bad, but hunger and cold together are worth an effort to avoid."

The prospector waded in foremost, sounding with a long fir pole. The stream swirled in white wreaths about his waist, and Johnston turned to speak to me, standing a few yards nearer with the ripples at his knee; then I grasped the pack-horse's bridle and forced it into the water. The beast carried a heavy load, including most of the blankets, and almost the entire balance of our rations. A rusty rifle was slung behind my shoulders, besides tools and utensils, and Johnston was

(Continued on Page 30.)

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For their 1915 catalog and price list—it will be mailed free. Mention this paper.

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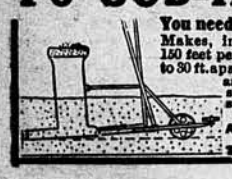
TO SUB-IRRIGATE



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A. S. TURNER, Bladen, Neb., Distributor for Nebr. and Iowa.
TURNER BROS., Bird City, Kan.

Lorimer of the Northwest

(Continued from Page 29.)

similarly caparisoned, so I felt my way cautiously as the ice-cold waters frothed higher about me. Near by, the creek poured into the main river, which swept with a great black swirling into the gloom of the forest.

All went well until we gained the center of the stream, and then a loose stone turned under the horse's hoof, or it sank into a deeper hollow, for there was a plunge and a flounder, and, jerked sideways by the bridle, I went down headforemost into the stream. This was a common enough. eccident, but the bridle slipped from my fingers, and when some seconds later I stood erect, gasping, with the torrent racing past me, the horse was swimming down-stream a dozen yards away, while Johnston struggled in that direction to intercept it.

"Let it go!" I roared. "Water's deepening; you'll be sucked out into the main river," and caught the answer, "All our provisions there!" after which there was a confused shouting, which ended in the warning, "For the Lord's sake, Johnston, look out for yourself!"

I could see that our best chance of rendering assistance would be to cross and try to overtake them from the further bank, and a few seconds later I was clattering over the shingle with the prospector close behind me. But we were already too late. When, waist-deep, I floundered down a shingle spit, the half-submerged beast, handicapped by its burden, swept past out of reach, and I caught a momentary glimpse of a wet white face and a man's uplifted arm before a tumbling ridge splashed up and hid them.

"Couldn't never overtake them, but it's running slacker in the river," the prospector said.

We smashed through a willow thicket which covered a little promontory, and then, staring wide-eyed under the branches, I saw an indistinct object lurch unevenly into the froth of a rapid, and so pass the next instant out of sight. Whether it was man or horse no one could say.

"He's gone," said the grizzled prospector. "Many another has gone the same way. Find them! Of course, we'll search, but I guess it's hopeless. Don't think your partner was great on swimming, and he was loaded heavy. Come on, daylight's going."

For a moment I felt limp and abject, then in savage fury I broke through barberry branches and thorny brakes, fell into the river, and blundered down a shoaler portion of its channel

"It sounds hard," said the prospector, "but you can't do nothin'. No man could make his way through this bush in the dark, and it wouldn't be any good. Your partner never got so far. We can only say we're sorry, and strike back for camp."

He was right, though I think I cursed him for cowardice then. We struggled on through a horrible chaos of tangled forest, but each time when, peering out between the dark fir branches, I cried aloud, the blackness returned no answer save the boom of angry water. So, bruised, wet, and bleeding, I struggled back toward the fatal creek, and found that my lips would not frame words to answer when Harry said:

"It was horrible, Ralph. I'd give up all our hopes and prospects to have the poor fellow safe again. But there's no help for it, and somehow I fancy it was a release. You remember how he looked when he said that this was his last march?"

"Ten pounds of flour, five of reistit pork—and that's what he gave his life for. No, I don't think I could eat anything tonight. Here, empty half of this, Ralph, you're shaking all over," and Harry lifted his hat as he touched the metal cup with his lips: "Good rest to you, comrade," he said.

I choked over the mouthful of spirits, which I needed badly enough, and then sat shivering wide awake beside the fire through the long bitter night, while when at daybreak I called the others, they both rose with suspicious readiness. For hours we wandered along the river bank, but found nothing whatever beyond the conclusive evidence that even the best swimmer could hardly have come out of that icy flood alive. Then dejectedly we strapped up our traps, and turned our backs on the dismal camp. We halted and looked back a moment on the crest of the divide.

"The beast was badly played out," the guide said, "the man was loaded. Thirty pounds and a rifle—and he couldn't hardly swim. He's gone out on the lonely trail, but whether there's gold at the end of it no living man can say. Maybe you'll find out some day when you follow him."

Then in mournful silence we turned away, and that night we ate our last mouthful in another valley, and forgot the gnawing hunger in broken sleep, through which a wet face persistently haunted me. When we arose

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Mr. A. B. Connor, Agronomist, Texas Experiment Stations, writes:
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That defines the situation in Texas, where according to the United States Department of Agriculture's News Letter of October 14, 1914: "Probably fifty per cent of the total amount of seed will be produced this year."

As long as our supply lasts our prices will remain the same and every pound of our seed is absolutely guaranteed to possess full germinating power and to be free from Johnson Grass or any adulterant. It has been grown under the supervision of Texas Substation No. 8, located in Lubbock County, V. L. Cory, Superintendent, and every field was officially inspected, certified to and passed before harvesting.

WARNING! We are the only authorized agents for selling Lubbock Association Guaranteed Seed. Be sure that all seed you buy has our name and trade-mark stamped on every bag. Ask your dealer for Lubbock Sudan Grass Seed Association PURE SEED.

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there was not even a handful of caked flour in the damp bag, and during a discussion the miner, in reply to Harry's statement, said it did not follow that there were no deer or bear in the country because we had not seen them. Men tramping noisily behind shod horses do not generally chance upon the shy deer, he pointed out; while if two previous hunts had proved unsuccessful, we might do better on the third. It was at least four days' march to the nearest dwelling, and I agreed with his observation that no starving men could march for four days through such a country. So, to enhance our chances, the company divided, agreeing to meet again, if they killed nothing, at the same spot by sunset.

It was with a heavy heart and my belt drawn tighter that I left the others, carrying a loaded rifle, which seemed to increase considerably in weight. Now, even well north in British Columbia, especially if near the Pacific, there are favored valleys sunk deep among the ranges and open to the west which escape the harder frost, and as this was one of them I determined to search the half-frozen muskegs for bear. The savage grizzly lives high under the ragged peaks, the even fiercer cinnamon haunts the thinly-covered slopes below, but I had no desire to encounter either of them, for the flesh of the little vegetable-feeding black bear is by no means unpalatable, especially to starving men.

So I prowled from swamp to swamp, seeing nothing but the sickly trunks which grew up out of thinly frozen slime, while no sound made by either bird or beast broke the impressive silence of the primeval solitude. At last, when the day was nearly spent, I crawled toward a larger muskeg, which spread out from a running creek, and knelt in congealed mire behind a blighted spruce, listening intently, for a sound I recognized set my heart beating. All around, dwindling in gradations as the soil grew wetter, the firs gave place to willows, and there was mud and ice cake under them. Peering hard into the deepening shadows, I saw what I had expected—a patch of shaggy fur. This was one of the small black bears, and the creature was grubbing among the decaying weed for the roots of the wild cabbage, which flourishes in such places. Some of these bears hibernate in winter, I believe, but by no means all, for the bush settlers usually hunt them then for their fur. No summer peltry is worth much.

I was only a fair shot with the rifle, and the strip of black, half seen between the branches, would prove a difficult mark in an uncertain light, while it was probable that three lives might answer for the bear's escape. So I waited, aching in every joint, while my hands grew stiffer on the rifle stock, but still the beast refrained from making a target of itself, until, knowing that it would soon be too dark to shoot, I had to force the crisis. A strange sound might lead the quarry to show himself an instant before taking flight, and so I moistened my blue lips and whistled shrilly. A plump rotund body rose from the weeds, sixty yards away I guessed, and I pitched up the rifle, dropping my left elbow well over my knee and steadying the cold barrel against the tree.

Sixty yards and a two-foot target, what need for such precautions? one hears the marksmen say, and when stalking sand-hill cranes in warm sunlight now I can agree with them. But I was nearly famished, stiff with cramp and cold, and shooting then for bare existence. With a half-articulate prayer I increased the pressure on the trigger as the fore-bead trembled—it would tremble—across the fur. The bear was clearly suspicious. He would be off the next moment, the trigger was yielding, and with a sudden stiffening of every muscle I added the final pressure as the notch in the rear-sight and the center of the body came for a moment in line. I heard no explosion—one rarely does when watching the result intently—but there was a red flash from the tilting muzzle, and the heel-plate jarred my shoulder. Then I growled with satisfaction as almost simultaneously I heard a sound there was no mistaking, the crunch of a forty-four bullet smashing through flesh and bone. The bear was down, struggling among the weed, and plunging straight through the muskeg I fell upon it, and, after burning another cartridge with the muzzle against the flesh, I drove the long knife in to the hilt.

Next I rose stiffly upright, ensanguined, with wild gasps of thankfulness, and sent a hoarse cry ringing across the woods, after which I sat down on the fur and stabbed the lifeless brute twice again, for I was filled with a childish fear that even now it might escape me. This was needless, and even barbarous, but to one in my position it was natural.

TO BE CONTINUED.

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BARRED ROCK COCKERELS $1.00 EACH. J. L. Sutton, Lebanon, Kan.

WHITE ROCK COCKERELS—MRS. J. W. Hoornbeek, Winfield, Kan.

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WHITE ROCK COCKERELS $1. MRS. Geo. F. Garr, Grenola, Kansas.

PURE BUFF ROCK COCKERELS $2 TO $4. Mrs. Nellie Brown, Wamego, Kan.

BARRED ROCK COCKERELS $1 EACH. Mrs. J. W. Harris, Waverly, Kan.

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PURE BRED WHITE ORPINGTON EGGS $1.50 for fifteen; $7.50 per 100. Mrs. O. C. Brett, Humboldt, Kan.

BUFF ORPINGTON COCKERELS AND hens cheap. Eggs $5.00 per hundred. H. G. Nash, Grantville, Kan.

WHITE ORPINGTON EGGS, FIFTEEN $1. Hundred $5. Males English strain. Mrs. Helen Lill, Mt. Hope, Kan.

S. C. BUFF ORPINGTONS. COCKERELS and cocks $2 to $10. Hens $1 to $3. Mrs. Grant Stafford, Winfield, Kan.

WHITE ORPINGTONS. COCKERELS FROM prize winners $2.00 to $3.00. Emma Wilson, Auburn, Kan., R. F. D. 24.

S. C. BUFF ORPINGTON COCKERELS $2.00 each. Eggs $1.50 per fifteen. R. A. Watson, 6251 9th street, Fredonia, Kan.

WHITE ORPINGTONS. LARGE AND FINE. Heavy layers. Eggs, $1.50 15; $6.00 100. Mrs. Eugene Lancaster, Brenner, Kan.

WHITE ORPINGTON KELLERSTRASS Jackson strain cockerels. Large. $1.00 and $2.00. Robt. Turner, Anthony, Kan.

WHITE ORPINGTONS—KELLERSTRASS. Carry strains. Stock and eggs for sale. prices right. H. B. Humble, Sawyer, Kan.

S. C. BUFF ORPINGTON EGGS FOR hatching. 75c for 15, or $4.00 per 100, from fine birds. Mrs. S. S. Tate, Orlando, Okla.

241 EGG STRAIN. BUFF ORPINGTONS. 200 choice cockerels, hens and pullets. Catalogue free. Walter Bardsley, Neola, Iowa.

LARGE, PURE BRED S. C. BUFF ORPington cockerels, $2.00 and $3.00 each. Mrs. A. Gfeller, Chapman, Route 3, Box 28, Kansas.

25 WHITE ORPINGTON COCKERELS $2 and $3 each. Every bird guaranteed. Walter Johnson, R. F. D. No. 3, Coffeyville, Kansas.

S. C. CRYSTAL WHITE ORPINGTONS DIrect from Kellerstrass' $30.00 matings, $1.50 each. Eggs $1.00 for 15. Mrs. R. Heimbaugh, Sedan, Kansas.

FOR SALE. BUFF ORPINGTON COCKerels. Grandsire was imported and cost $150.00 in England. Three to five $. Clara B. Barber, Corbin, Kan.

S. C. BUFF ORPINGTON COCKERELS AND pullets. Eggs, 30 $2.25, 100 $5.50. Parcels paid 3rd zone. (This farm for sale.) White House Poultry Farm, Salina, Kan.

WHITE ORPINGTON COCKERELS, $3 each. Parent stock Kellerstraus' $30 matings. Eggs $2 and $1 per fifteen. Utility $5 per hundred. Mrs. W. Patterson, Yates Center, Kan.

DON'T OVERLOOK OVERLOOK POULTRY Farm. Sweepstakes Orpingtons, Buff and Black. Six correctly mated pens. Mating list ready. Prices right. Chas. Luengene, Box M 149, Topeka, Kan.

WHITE ORPINGTONS—EGGS FROM ALways healthy, vigorous birds bred for years for heavy laying. $1.50 setting; $6 hundred, express paid. Some good cockerels. J. H. Lansing, Chase, Kansas.

CRYSTAL WHITE ORPINGTONS. SIXTYfive eggs on January ninth from one hundred layers. Cockerels, pullets, hens, eggs and chicks for sale. Urbandale Poultry Farm, Butts Bldg., Wichita, Kan.

BUTTERCUPS.

BUTTERCUPS EXCLUSIVELY, ONE EXtra fine pen only. Eggs $3.00 per setting. Jon. R. Blair, Russell, Kan.

BUTTERCUPS FOR SALE—6 YEARLING hens, 18 May pullets and one cockerel. Priced to sell. E. E. Brott, Burlington, Kan.

MY TRUE SICILIAN BUTTERCUPS. BEST money can buy. Heavy layers and beautiful. Prosperity and happiness with this breed. Write for circular and prices. W. C. West, 321 Park Ave., Topeka, Kansas.

LEGHORNS.

S. C. W. LEGHORN EGGS. MRS. W. R. Hildreth, Oswego, Kan.

SINGLE COMB WHITE LEGHORNS $1.00. Will Tonn, Haven, Kan.

S. W. LEGHORN EGGS $4.00 100. CHICKS $12.50. Hillcrest, Altoona, Kansas.

TWELVE S. C. W. LEGHORN COCKERels dollar each. A. Pitney, Belvue, Kan.

ROSE COMB BROWN LEGHORN EGGS $1.00 per 15. Olive Hoskins, Fowler, Kan.

PURE SINGLE COMB BROWN LEGHORN eggs $4.00 hundred. P. B. Cole, Sharon, Kan.

CHOICE S. C. WHITE LEGHORN COCKerels, one dollar. John Bradley, Garnett, Kan.

S. C. WHITE LEGHORN COCKERELS. Scored. $1.50 up. J. E. Gish, Manhattan, Kan.

S. C. W. LEGHORN COCKERELS. LAYing strain. Pure white. Mrs. Lydia Fuller, Clyde, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels $2.00 and $3.00. Hugh Harrison, Jewell, Kan.

SINGLE COMB WHITE LEGHORN COCKerels $1.00. Eggs .50. Mrs. A. S. Tiffany, Fulton, Kansas.

CHOICE SINGLE COMB WHITE LEGhorn cockerels $2.00 each. H. Vinzant, McPherson, Kan.

PURE S. C. W. LEGHORN EGGS FOR hatching, $3.00 per hundred. J. L. Young, Haddam, Kansas.

ROSE COMB BROWN LEGHORN COCKerels. Single Comb females. Mrs. Ida Standiferd, Reading, Kan.

MY FAMOUS S. C. W. LEGHORNS WIN everywhere. Cockerels and pullets, $1 up. Geo. Patterson, Lyndon, Kan.

ROSE COMB WHITE LEGHORN COCKERels $1. Eggs. Baby chicks in season. Mrs. Alfred Young, Wakefield, Kan.

BUY EGGS FROM FLOCK WITH STATE egg record. Eggs $7.50, chicks $15.00 100. Jas. R. Snyder, Box E, Frazer, Mo.

PURE SINGLE COMB WHITE LEGHORN cockerels and eggs. Satisfaction guaranteed. John Walters, Fall River, Kan.

S. C. BROWN LEGHORN COCKERELS. Good colors, yellow legs. Combs frosted. 75c. Mrs. A. Anderson, Greenleaf, Kan.

SINGLE COMB WHITE LEGHORN COCKerels $1.00. Eggs in season at $3.00 per 100. Mrs. Eva Frederick, Asherville, Kan.

CHOICE THOROUGHBRED S. C. BUFF Leghorn cockerels for sale, $1.00 each; $5.00 six. V. P. Johnson, Saronville, Neb.

HIGH SCORING SINGLE COMB WHITE Leghorns. Finest eggs. Cockerels. Mrs. Albert Ray, Specialist, Delavan, Kansas.

SINGLE COMB BROWN LEGHORN COCKerels, pullet bred birds, $3 each, 2 for $5. Some cheaper. Tiff Moore, Osage City, Kan.

EGGS, COCKERELS, HENS. S. C. WHITE Leghorns. Winners silver cup for sweepstakes pen 1914-1915. Vira Bailey, Kinsley, Kan.

THOROUGHBRED S. C. W. LEGHORN cockerels. Frantz strain. $1.00 and up. Satisfaction guaranteed. R. O. Lappin, Logan, Kan.

SPONG'S SIZE AND QUALITY SINGLE Comb White Leghorns. Hen mating, 100 $5.00. Pullet mating, 100 $3.50. Alex Spong, Chanute, Kan.

ROSE COMB BROWN LEGHORNS. KULP strain. Eggs $5.00 per hundred prepaid. A few good cockerels left. Mrs. Mary Miek, Ransom, Kan.

15 EGGS $1.00. 100 EGGS $5.00. FROM Ackerman-Frantz laying strains Single Comb White Leghorns. Mrs. Joe Boyce, Carlton, Kansas.

SINGLE COMB WHITE LEGHORN COCKerels. pure bred Wyckoff and Frantz strains, $1.00 and $2.00 each. Adolph Berg, McPherson, Kan.

ROSE COMB BROWN LEGHORNS THAT won the blues, Hutchinson State Fair, $1.00 and upwards. Eggs in season. Otto Borth, Plains, Kan.

FOR SALE—S. C. W. LEGHORN COCKERels, official score card with each bird. Price $1.00 up. Also a few pullets $1.00 up. E. L. M. Benfer, Leona, Kan.

FOR SALE—75 THOROUGHBRED WHITE Leghorn pullets and 20 good cockerels. Pullets 90 cents each. Cockerels $1.00 to $1.50. O. E. Croson, Holton, Kan.

S. C. BROWN LEGHORN SHOW AND utility stock; both matings. Write for prices on stock, eggs and baby chicks. G. F. Koch, Jr., R. No. 3, Ellinwood, Kan.

S. C. BROWN LEGHORN AND WHITE Rock cockerels. I won 1st on cockerel, 1st on pullet, 1st on pen, State Fair. Same at Bucklin, Meade and Liberal. $1.50 up. Yours for business. H. N. Holdeman, Meade, Kan.

SINGLE COMB WHITE LEGHORNS—BABY chix 15c each. Eggs for hatching 5c each from vigorous range raised bred to lay stock. Won 1st, 2nd, 3rd, 4th cockerel at Parsons, 1914. J. R. Stallings, Oswego, Kan.

GET A START IN THE BEST PAYING strain of Single Comb White Leghorns. I have them. Pedigree males mated to winter layers that lay. Order now for spring delivery. Eggs 100 $6.00; 50 $3.50; setting $1.50. E. D. Allen, Inland, Neb.

CORNISH.

DARK CORNISH COCKERELS. KERR McCluggage, Douglass, Kan

DARK CORNISH COCKERELS—BIG FELlows, $1.25 to $5.00. Fred Sieglinger, Lone Wolf, Okla.

RHODE ISLAND REDS.

R. C. RED COCKERELS, SCORED. C. Shumway, Manhattan, Kan.

ROSE COMB RED COCKERELS $2 TO $3. Thos. Talbot, Marysville, Kan.

ROSE COMB RED COCKERELS FOR sale. Viola Lumb, Manhattan, Kan.

ROSE COMB REDS. TOP NOTCHERS. Reasonable. Shamleffer, Douglass, Kan.

THE REDS THAT LAY. IF YOU WANT bargains, write H. R. Hampton, Niotaze, Kansas.

S. C. RED EGGS FOR HATCHING AND day old chicks. Mrs. W. L. Maddox, Haselton, Kan.

BIG BONE ROSE COMB REDS, BOTH sexes for sale. O. M. Lewis, R. 1, Hoisington, Kan.

ROSE COMB RED COCKERELS. GOOD birds, $1 to $3. Mrs. Alice Clinkenbeard, Wetmore Kan.

SINGLE COMB RED COCKERELS $2 TO $5. Range eggs 5c each. D. H. Hauck, Newton, Kansas.

R. C. RED EGGS, $4 FOR 100; 75C FOR 15. Bourbon Red turkey eggs. Augusta Hand, Ellsworth, Kan.

LARGE PURE SINGLE COMB RHODE Island Red cockerels $2.00 each. O. C. Duprey, Clyde, Kan.

CHOICE ROSE COMB RHODE ISLAND Red cockerels for sale. Mrs. A. L. Scott, R. 1, Larned, Kan.

SINGLE COMB REDS. EGGS $1 PER setting. Stock from prize winners. Theo. Lysell, Lindsborg, Kan.

RICH, ROSE COMB RED COCKERELS; bargains at $1.50, $2.50 and $3.50. Mrs. Chas. Hill, Toronto, Kan.

FOR QUICK SALE—20 LARGE, PURE, SINgle Comb Rhode Island Red cockerels $1.00 each. William Toms, Clifton, Kan.

S. C. REDS. EVERY BIRD A HIGH SCORE show bird. Cockerels or pullets as low as $2, and up. W. F. Brown, Byron, Okla.

LUNCEFORD'S S. C. QUALITY REDS. Good breeding ckls. and pullets $1.50 to $5.00. Sadie Lunceford, Mapleton, Kan.

EGGS. SOMETHING FINE. SINGLE COMB Reds. Send for matings of prize takers. Bargain prices. D. H. Welch, Macksville, Kansas.

ROSE COMBED R. I. RED EGGS FOR setting, $1.00 per 15 or $5.00 per 100. Orders booked ahead. F. B. Severance, Lost Springs, Kan.

SINGLE COMB RED EGGS FROM CHOICE range flock $1 per fifteen, $4.00 per 100. Orders booked for early shipment. H. A. Bushby, Rydal, Kan.

R. C. RHODE ISLAND REDS—BEST WINter layers. Eggs from high scoring birds, $1.00 per 15, $5.00 per 100. Mrs. A. J. Nicholson, Manhattan, Kan.

BIG BONED, DEEP RED R. C. COCKERels, red eyes, long back, low tail, good comb. Scored. $5 each. Guaranteed. Highland Farm, Hedrick, Iowa.

BIG BONED, DARK VELVETY ROSE Comb Reds. Utility stock. Best winter layers. $1.25 per 17. $5.00 100. Mrs. Walter Shepherd, Woodward, Okla.

BIG BONED, HUSKY, SINGLE AND ROSE Comb R. I. Red males and females. $2.00 and up. My birds have won 358 premiums. A. M. Butler, Wichita, Kan.

ROSE COMB REDS. COCKERELS $2. Bred from winners at American Royal, Kansas State Fair, Oklahoma State Fair. Baldwin Red Farm, Conway, Kansas.

THOROUGHBRED REDS, BOTH COMBS. Cockerels $1 to $5. Utility pullets. Satisfaction guaranteed. Excellent show record. Marshall's Poultry Yards, La Cygne, Kan.

THOROUGHBRED S. C. REDS. COCKerels $2.50. Eggs $5.00 100 after Feb. 20. Chicks 12½ each for March delivery. Satisfaction guaranteed. Minnie Horst, Wamego, Kan.

S. C. REDS—BUSCHMANN-PIERCE AND Tompkins strains. Heavy winter layers. Eggs $1.50 to $2.00 per 15. $7.00 per 100. Mrs. T. D. Cowen, 742 Osbun, Ft. Scott, Kan.

DURKEE'S SINGLE COMB REDS ARE winners. Eggs for hatching, $1.00, $1.50, $2.00 per setting; $5.00 per hundred. Parkdale Poultry Yards, 715 Branner, Topeka, Kan.

RHODE ISLAND REDS, MALES AND FEmales, Single and Rose Comb, raised from Kansas State Show winners. $1.00 and up. Write today. A. M. Butler, 1561 Palisade St., Wichita, Kan.

RHODE ISLAND REDS, BOTH COMBS. Twelfth year of sending out guaranteed fertility and safe arrival low priced eggs considering quality of stock. Mating list free. H. A. Sibley, Lawrence, Kan.

"REDVILLE" EGG AND POULTRY FARM. The home of as good as the best Reds. Both combs. Cockerels for sale at farmer prices. Satisfaction guaranteed. Write me what you want. A. S. Fellers, Hays, Kan., Sec'y of the Golden Belt Poultry Breeders' Association.

100 ROSE COMB RHODE ISLAND COCKS and cockerels that have shape, color and size. Sired by roosters costing from $15.00 to $75.00 at $1.50, $3, $5, $7.50 and $10 each; a few higher. No better bred birds. Pens mated for 1915 by far the best we ever had. W. R. Huston, Americus, Kan.

RHODE ISLAND WHITES.

RHODE ISLAND WHITES — LARGE, early Rose Comb cocks, from best laying and show strains, $1, $2, $3. Eggs, 15 $1.50; 50 $4.00; 100 $8.00. Col. Warren Russell, Odessa Farm, Winfield, Kan.

TURKEYS.

TURKEYS WANTED. THE COPE'S, TOpeka.

PURE BOURBON RED TOMS. JOHN CARroll, Lewis, Kan.

PRIZE M. B. TURKEY TOMS. VIRA Bailey, Kinsley, Kan.

WHITE HOLLAND TOMS $5.00 EACH. Bertha Bazil, Olivet, Kan.

WHITE HOLLAND TURKEYS. PRICES free. Grace Garnett, Marion, Mo.

LARGE PURE BRED BOURBON TOMS $4.50. Mrs. D. H. Zabel, Wetmore, Kan.

WHITE HOLLAND TURKEYS. TOMS $5.00. Hens $3.00 Mrs. Pierce, Md. City, Kan.

PURE BOURBON RED TURKEYS. HENS $3. Toms $4 A. Sells, Maple Hill, Kan.

WHITE HOLLAND TOMS $3.50 WHILE they last. Joe Fitzpatrick, Geneva, Kan.

BIG RED HENS AND TOMS. WELL marked. A. W. Powers, New Albany, Kan.

WHITE HOLLAND TURKEYS FROM prize winning stock. S. A. Warren, Reger, Mo.

BOURBON RED TOMS, PURE BRED, 21 lbs., $5 each. J. W. Wright, Newton, Kan., R. 6.

FULL BLOODED BOURBON RED TOMS for sale. Mrs. W. C. Kincaid, Peabody, Kan.

MAMMOTH BRONZE TURKEYS. TOMS $5. Hens $3. J. O. Batterton, Sylvia, Kan.

LARGE, FULL BLOOD BOURBON RED turkeys for sale. Emma Lamb, Havana, Kan.

EXTRA FINE PURE BRED MAMMOTH Bronze turkeys. C. E. Foland, Almena, Kansas.

CHOICE NARRAGANSETT TURKEYS, large, gentle kind. J. P. Hertzog, Blue Springs, Mo.

BIG BONED PURE BRED BOURBON RED turkeys. Unrelated trios. Mrs. Sam Clark, Hazelton, Kan.

MAMMOTH BRONZE TURKEYS, SCORED toms $5, hens $3. Mrs. A. B. Holforty, Hartford, Kan.

PURE BRED M. B. TURKEY PRIZE WINners. Toms $5.00, hens $3.00. Sam Caughey, Asherville, Kan.

EXTRA LARGE. PURE WHITE HOLLAND toms $4.00, hens $2.50. Mrs. Will Jones, Wetmore, Kan.

NARRAGANSETTS. FEW YOUNG TOMS sired by 50 lb. tom. Mrs. John Mitchell, Lafontaine, Kan.

GIANT BRONZE TURKEYS FOR SALE. State prize winners. Mrs. J. W. Smith, Kinsley, Kan., R. 1.

THOROUGHBRED BOURBON RED TURkeys. $3 per 11 eggs. Order early. H. B. Humble, Sawyer, Kan.

MAMMOTH WHITE HOLLAND TURKEY hens sired by 40 pound tom. W. E. Monasmith, Formoso, Kan.

MAMMOTH WHITE HOLLAND TURKEYS for sale. Eggs $2.50 per 11 in season. Mrs. Ada Poindexter, Medicine Lodge, Kan.

LARGE WHITE HOLLAND TURKEYS. Extra large, fine and healthy. Toms $5.00. Hens $4.00. Chas. W. Zabel, Wetmore, Kan.

HEAVY BONED M. B. TURKEYS. TOMS weighing 23 to 27 lbs. Hens 14 to 16 lbs. Mrs. C. E. Peterson, R. 1, Box 65, Windom, Kan.

BIG BRONZE TURKEYS FROM LONG line winners, large boned. Healthy stock. Write for prices. Gertrude Tilzey, Lucas, Kansas.

BOOKLET ON TURKEY RAISING. VALUable, practical information, 75c. Raise big flocks every year. I do; you can. Mary Culver, King City, Mo.

PERKINS'S BRONZE TURKEYS HAVE won more prizes wherever shown than all others combined. No better blood in America. G. W. Perkins, Newton, Kan.

MAMMOTH BRONZE TOMS. THE HEAVY kind. Eggs in season. If it's pounds you want, buy from my flock. Berry method of turkey raising with each order. C. W. Berry, Moore, Okla.

BOURBON RED TURKEY EGGS FROM 2 yards unrelated, $3 for 11. Large, well colored birds. Prize winners. Directions for raising and receipt for homemade lice powder free. Ringlet Barred Rock eggs. Mrs. C. B. Palmer, Uniontown, Kan.

BRAHMAS.

LIGHT BRAHMA EGGS. SETTINGS $1.50. Mrs. Cyrus Wells, Missler, Kan.

LIGHT BRAHMA COCKERELS; CHOICE; $2.50, $3. M. Wall, Eddyville, Neb.

PURE LIGHT BRAHMA COCKERELS $2 to $4. Mrs. Foster Brown, Wamego, Kan.

PURE BRED LIGHT BRAHMA COCKERels $1 to $2. Carrie Warner, Grenola, Kan.

SOME NICE FULL BLOOD LIGHT BRAHma cockerels. $2.00 each. Mrs. I. A. Pember, Ness City, Kan.

GUARANTEED LT. BRAHMA STOCK FOR sale. Eggs from five special matings, and fine farm flock. 14 years' experience. Catalogue free. Mrs. F. O'Daniel, Westmoreland, Kan.

COCHINS.

BUFF COCHINS—GOOD LARGE CKRLS. from $5.00 up. Good utility females $2.00 apiece. Also show quality on application. J. C. Baughman, Topeka, Kansas.

DUCKS.

DUCKS WANTED. THE COPE'S, TOpeka.

WHITE RUNNER DRAKES $1.00 EACH. Mrs. Cecile McGuire, Pratt, Kan.

INDIAN RUNNER DUCKS $1.00 EACH. Elmer Crabtree, Elk City, Kansas.

INDIAN RUNNERS, SILVER CUP WINners. Burt White, Burlingame, Kan.

WHITE RUNNER DRAKES $1.00 EACH. Mrs. C. B. Kellerman, Burlington, Kan.

MAMMOTH PEKINS. DRAKES $1.50. EGGS $1.50 fifteen. Miss M. Kragh, Driftwood, Okla.

ENGLISH PENCILED RUNNER DRAKES $1.00. Eggs in season. Pearl Frederick, Asherville, Kan.

FOR SALE—IMPERIAL MAMMOTH PEKIN drakes $1.00 each. J. W. Marshall, Breckinridge, Okla.

WHITE INDIAN RUNNER DUCKS, PURE white egg strain. Mrs. E. D. Ludwig, Waynoka, Okla.

WHITE INDIAN RUNNER AND ROUEN ducks. Eggs 12 for $1.00. H. J. Byers, Homewood, Kan.

WHITE RUNNERS FROM PRIZE WINning stock—duck or drake $1.25; five for $6.00. Guaranteed. Milt Irwin, Marquette, Kan.

PURE WHITE RUNNER DUCKS, BUFF Orpington chickens. Fancy stock. Best breeding. Free mating list. J. Cox, R. 8, Topeka, Kan.

QUALITY FAWN AND WHITE INDIAN Runner ducks and drakes, $1 each. Also few good Buff Orpington drakes. Mrs. H. E. Bachelder, Fredonia, Kan.

ENGLISH PENCILED RUNNER DUCK eggs, $1.50 and $3.00 per 13. Won 1st drake, 1st duck at the Topeka state show. D. J. Mackey, Pittsburg, Kan.

WHITE RUNNERS. PURE BRED. WHITE egg strain. Ducks $2.00. Drakes $1.00. Eggs $1.00 per 13, four settings $3.50. Mrs. H. W. Hammond, Higgins, Tex.

FAWN - WHITE INDIAN RUNNER drakes; also pure White Runner drakes, $1.50 each. State fair winners. Western Home Poultry Yards, St. John, Kan.

LANGSHANS.

WHITE LANGSHAN COCKERELS. EGGS in season. Mattie Rowe. Lane. Kan.

BLACK LANGSHANS. FEDERATION WINners. Write Mary McCaul, Elk City, Kan.

WHITE LANGSHANS. GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

LARGE BLACK LANGSHAN EGGS $1.50 per setting. Arthur Lee, Greensburg, Kansas, R. 2.

WHITE LANGSHANS. COCKERELS, PULlets, eggs in season. Mrs. Geo. McLain, Lane, Kan.

BLACK LANGSHAN COCKERELS SCORing 93½. Cards furnished. Martha Haynes, Grantville, Kan.

BLACK LANGSHAN COCKERELS AS large and black as they grow. Geo. W. Shearer, Lawrence, Kan.

PURE BLOOD BLACK LANGSHAN COCKerels; scored; of the Iowa strain; guarantee satisfaction. Chas. Leeper, Harper, Kan.

EXTRA BIG BONED GREENISH GLOSSY Black Langshan cockerels, scored, $2.50 and $5 each, guaranteed. H. Osterfoss, Hedrick, Iowa.

BLACK AND WHITE LANGSHANS, WINners at Kansas State Fair, state show, and Federation show. Choice mating. Eggs $3.00 for 15. Range flick $6.00 for 100. H. M. Palmer, Florence, Kan.

ANCONAS.

ANCONA COCKERELS $1.00 EACH. MRS. Bart Owens, Weaubleau, Mo.

ANCONA EGGS FOR HATCHING. 15 $1.00. 100 $5.00. Lucie House, Haven, Kan.

ANCONA EGGS $1.00 TO $5.00 PER 15. Won 1st cockerel, 3rd pullet at the Topeka State show. D. J. Mackey, Pittsburg, Kan.

GEESE.

THOROUGHBRED TOULOUSE GEESE $4.00 pair. Eggs in season $2.00 per doz. Mrs. J. H. Sides, Blanket, Tex.

BLACK SPANISH.

WHITE FACE BLACK SPANISH COCKerels for sale. A. W. Swan, Centralia, Kansas.

BLUE ANDALUSIANS.

BLUE ANDALUSIAN EGGS $2.00 PER setting or $12.25 a hundred. A. A. Neufeld, Route 4, Inman, Kan.

BLUE ANDALUSIANS. GREAT LAYERS. 20 hens laid 2589 eggs 6½ months. Cocks, ckls., eggs for sale. John A. Huber, La Crosse, Kan.

MINORCAS.

SINGLE COMB BLACK MINORCA COCKerels at $1.00 to $1.50 each. Sarah Peters, Nashville, Kan.

INCUBATORS.

A BIG, STOUT, LUSTY CHICK FROM every hatchable egg. The proven record of Fairfield Incubators everywhere. Free catalog and poultry book. Sam Thompson, Fairfield Incubator Co., No. 56 Main St., Fairfield, Nebraska.

SEVERAL VARIETIES.

HENS WANTED. THE COPE'S, TOPEKA.

WHITE ROCKS, BUFF DUCKS, BOURBON Red turkeys. Mrs. Chas. Snyder, Effingham, Kan.

FOR SALE—WHITE RUNNER DUCKS, Buff Orpington cockerels. Katie Lusk, Plains, Kan.

MAMMOTH BRONZE TURKEYS. WHITE Wyandotte cockerels. Alex Thomason, Havana, Kan.

WHITE LEGHORNS, WHITE RUNNER ducks. Eggs. Snyder's Little Diamond Farm, Topeka, Kan.

3479 COCKERELS. TWENTY-NINE VARIeties chickens, geese and ducks. Address Aye Bros., Blair, Neb.

PREPAID. S. C. WHITE LEGHORN, FAWN and White Indian Runner duck eggs. O. N. Keller, Le Roy, Kan.

PUREBRED S. C. W. LEGHORN AND W. Rock cockerels, $1.00 each or six for $5.00. J. R. Haywood, Hope, Kan.

CAPONS WANTED. THE COPE'S, TOpeka.

FOR NEARLY ALL BREEDS FANCY poultry and eggs, Baby chix and Duroc hogs, F. Kremer, Manchester, Okla.

CHOICE MAMMOTH BRONZE TURKEYS and Single Comb Buff Orpington cockerels. Mrs. Perry Higley, Cummings, Kan.

35 LEADING VARIETIES CHICKENS, ducks, geese, turkeys. Eggs and stock guaranteed. Davis Brothers, Lincoln, Neb.

PURE BRED BARRED ROCK AND PARTridge Cochin cockerels $1.50, $2.00. Eggs in season. Mrs. J. R. Rathbun, Simpson, Kan.

FOR SALE. KELLERSTRASS WHITE Orpington cockerels $1.00. Bronze turkey toms $3.00. Geo. Roggendorff, Carlton, Kan., R. 1.

SILVER CAMPINE COCKERELS AND eggs, reasonable prices. Also S. C. W. Leghorn and White Orpington eggs. F. L. Mathews, Sterling, Kan.

FINE CKLS. SATISFACTION GUARANteed. Silver Laced Wyandottes, White Wyandottes. Spangled Hamburgs. Stella Snider, Piedmont, Kan.

BARRED ROCK COCKERELS. LATHEN strain. $1.00 each. Fawn and White Indian Runner drakes 75c each. Florence Edwards, Newkirk, Okla.

BUFF LEGHORN COCKERELS $1 TO $3. Also one full blood big boned Bourbon Red tom for $3.50 if taken soon. Mrs. F. B. Wempe, Frankfort, Kan.

ROSE COMB AND SINGLE COMB RHODE Island Red cockerels, $2.00 each. Fawn and White Indian Runner drakes $1.00 each. Mrs. F. A. McGuire, Paradise, Kan.

LENNAPPE STRAIN R. C. RED COCKERels, $3.00, $5.00 each. Silver Wyandotte ckls. Hen hatched baby chicks 10c each. Order early. Alta Murphy, Luray, Kan.

BOURBON RED TURKEYS. WORLD'S best strain. Great big, vigorous, farm raised, deep breasted birds. Also white egg Indian Runners. These are from prize winning stock. Eleonora Poultry Ranch, Brighton, Colo.

FOR SALE — HIGH GRADE BOURBON Red turkeys; hens and toms. Also high-grade Rhode Island Red cockerels and pullets. Write for full particulars. F. M. Kern, Springville, Ind.

COCKERELS WANTED. THE COPE'S, Topeka.

FOR SALE—THOROUGHBRED RANGE raised mammoth W. H. turkeys. Hens $3.50. Toms $5.00 each. Also a choice lot of Single Comb Brown Leghorn cockerels, $1.00 each. Mrs. C. May, Garfield, Kan.

FOR SALE—TEN CHOICE, WHITE INdian Runner drakes $1 each. One fine Mammoth Bronze tom for $5. Also several fine White Wyandotte cockerels at $1 each. Gust A. Nelson, Sharon Springs, Kan.

ROSE COMB REDS, NO. 1 STOCK. 100 eggs $4.00. Pen eggs, $1.00 15. Barred Rock No. 1 stock. 100 eggs $4.00. Pen eggs, $1.00 15. Fishel strain White Indian Runner ducks. Eggs, $6.00 100; $1.00 15. Latham Poultry Farm, James A. Harris, Latham, Kan. Satisfaction guaranteed.

MISCELLANEOUS.

FIFTY BABY CHIX FREE. NEW HOT water jug brooder. Eggs for hatching. Free circular. Kansas Poultry Company, Norton, Kansas.

POULTRY PRINTING—FINEST POULTRY printing made in the U. S. The kind that brings business. Cuts of all breeds. Tell us what you need. Southern Printing Co., Perry, Okla.

FIRELESS INCUBATOR. BEEN TESTED. Proved to be successful. Inexpensive, non-explosive, nothing like it. Pat'd 1914. Entirely new. Try one. Write for particulars. Bess and Isbell, Waukomis, Okla.

POULTRY RAISERS SUCCEED WITH Mandy Lee Incubators, Lee's Lice Killer, Germozone, and Lee's Egg Maker. Sold by dealers or direct. Send for Catalogs and Lee's Poultry Book. Free. Geo. H. Lee Co., Mfrs., Dept. 37, Omaha, Neb.

LIVE STOCK

SHETLAND PONIES. CHARLES CLEMmons, Coffeyville, Kan.

HEREFORD BULLS. SEED CORN. W. R. Hildreth, Oswego, Kan.

FOR SALE—PURE BRED PERCHERON stallion, 6 yrs. old, weighing 2060 pounds. Pedigree with horse. Communicate with H. L. Billings, Sterling, Kan.

STANDARD BRED STALLIONS FOR SALE right. D. H. Bibens, Larned, Kan.

FOR SALE—CHOICE OF TWO MAMMOTH jacks. Dick Brown, Baxter Springs, Kan.

REGISTERED RED POLL COWS FOR sale. D. F. Van Buskirk, Blue Mound, Kan.

REGISTERED HAMPSHIRE SWINE BRED in the "Blue" priced to sell. Fred G. Triplett, Lyons, Kan.

REGISTERED HOLSTEIN BULLS, GOOD individuals. Pleasant View Dairy Farm, E. Violett, Altoona, Kan.

FOR SALE — ONE THOROUGHBRED Percheron stallion. One black jack, 4 jennets. W. M. Dice, Tecumseh, Kan.

FOR SALE—3 MAMMOTH JACKS OR will trade for young horses, mules or cattle. B. F. Wallace, Imperial, Kan.

FOR SALE—REGISTERED ANGUS BULLS, the very best of breeding. Write for prices. J. W. Taylor, R. 8, Clay Center, Kan.

FOR SALE CHEAP—4 YEAR-OLD PERCHeron horse; good breeder. Female Scotch collie. A. W. Toews, Inman, Kansas.

FOR SALE—BLACK JACK, 16 HANDS high, extra good one; going to quit the business. J. E. Dreier, Hesston, Kan.

FOR SALE — TWO AMERICAN BRED saddle stallions. Write for price and breeding. Jno. O. Evans, Asherville, Kan.

FOR SALE—FIVE MAMMOTH JACKS and seven mammoth jennies, extra good. Will sell choice. A. H. Breeden, Lenora, Kan.

FOR SALE—A COMING 3 YR. OLD REGISTered Percheron stallion, black, will mature 2200 lbs. John Lortscher, Fairview, Kan.

FOR SALE—REGISTERED PERCHERON horse and jack; extra good stock. Come and see them. A bargain. A. N. Mason, Stockdale, Kan.

HOLSTEIN FRIESIAN HERD BULL FOR sale; dropped Sept., nineteen seven; out of dam making over 22 lbs. butter per week. Milkyway Farm, Abilene, Kansas.

POLLED HEREFORDS. 3 GOOD YOUNG cows; one extra good herd bull, one grade bull calf, 2 good heifer calves. Write at once. Ben Anderson, Route No. 1, Lawrence, Kan.

SIX REGISTERED GALLOWAY BULLS. Also registered Percheron stallion, coming two. Write for prices. J. M. Innes, Beardsley, Kan.

FOR SALE, AT A BARGAIN, ONE Percheron stallion "grade," weight eighteen hundred and excellent breeder; six years old; color black. H. B. Humble, Sawyer, Kansas.

FOR SALE—ONE REGISTERED DUROC-Jersey boar; Crimson Chief, 18 months old, weighs 300 pounds; an excellent breeder and from one of the best herds in the state. Walter Murray, Isabel, Kan.

JAUNEAU, PURE BRED IMPORTED black six-year-old Percheron stallion, will be offered in T. H. Smyth public sale three miles south of Beloit February 9th. Also 81 cattle, 75 coming 2 and 3 year old steers.

SEEDS AND NURSERIES

COW PEAS—NEW ERA. SAMUEL KELler, Caney, Kansas.

TWO CARS CANE SEED FOR SALE. Geo. H. Tate, Lakin, Kan.

STRAWBERRY PLANTS $2.00 PER 1,000. List free. J. R. Sterling, Judsonia, Ark.

CHOICE NONIRRIGATED ALFALFA SEED 14 cts. per lb. Wallace Libbey, Larned, Kan.

WANTED 100 BU. ALFALFA SEED DIrect from grower. Ernest Raasch, Norfolk, Neb.

FOR SALE—1500 LBS. RED CLOVER SEED $8.00 per bushel. Lyons Bros., R. R. 3, Coffeyville, Kan.

CHOICE FRUIT TREES AND PLANTS cheap. Send for price list. John Remsburg, Potter, Kan.

FOR SALE—BLACK AMBER CANE SEED $1.00 per bushel; baled prairie hay. Fettrich, Altamont Kan.

SWEET CLOVER—WHITE AND YELLOW; biennial; choice seed; prices lower. R. E. Purdy, Falmouth, Ky.

FOR SALE—500 TONS OF HAY; CORN, kaffir corn and cane seed. Ask for prices. A. M. Brandt, Severy, Kan.

FOR SALE—RED TEXAS SEED OATS. Extra heavy, 75c per bushel. Ben Anderson, R. No. 1, Lawrence, Kan.

PURE SUDAN GRASS SEED. GUARANteed free from Johnson grass. 50c per lb. W. R. Mitchell, Verden, Okla.

SUDAN, GUARANTEED FREE FROM Johnson grass, 5 to 10 pounds 40c pound. Charlie Clemmons, Verden, Okla.

SUDAN GRASS AS GOOD AS THE BEST, 45 cts. per lb., this station, sacks free. W. A. Beaumont, El Dorado, Kansas.

WE WANT ANY PART OF CAR LOAD OF good alfalfa seed. Send samples and price. Brooks Wholesale Co., Ft. Scott, Kan.

SEED CORN—HILDRETH YELLOW DENT $2.50. Pure rust proof Texas oats 75c bushel. C. E. Hildreth, Altamont, Kan.

SUDAN GRASS SEED, GUARANTEED free from Johnson grass, 50 cents per pound. Walter Jenkinson, Pond Creek, Okla.

10 ELBERTA AND 5 CHAMPION PEACH trees for 95c, by parcel post prepaid. Wellington Nurseries, Box B, Wellington, Kan.

FANCY SWEET CLOVER SEED—PURE white, hulled, recleaned; fourteen dollars per bushel F. O. B. J. F. Sellers, Florence, Kan.

DWARF BLACKHULL KAFIR SEED, REcleaned and graded, $2.00 per hundred pounds; sacks free. C. P. Putnam, Emporia, Kan.

E. H. FISHER, ELKHART, KAN., BUYER and shipper of grain and seeds. Maize, kafir, feterita, and cane seed in car lots are less.

LET ME SAVE YOU 40 PER CENT ON trees this spring. Get my wholesale prices. Fruit book free. W. F. Schell, Box B. Wichita, Kan.

SUDAN GRASS—KANSAS GROWN. GUARanteed free from Johnson grass. Officially inspected and approved. Wilson G. Shelley, McPherson, Kan.

WHITE BLACK HULLED AFRICAN kafir, won first prizes at southwestern and state fairs, $2.50 per bu. Louis Bauersfield, Liberal, Kan.

ALFALFA SEED — WESTERN KANSAS dry land alfalfa seed for sale. Samples and prices on application. P. O. Box 276. D. O. Chessmore, Atwood, Kan.

SEED CORN. MOST DEPENDABLE VArieties, hand picked and graded. Description and prices free. J. B. Armstrong, Shenandoah, Iowa.

SWEET CLOVER SEED. PURE WHITE blossom variety. Hulled and recleaned. New seed. $14 a bu., sacks free. Geo. Bingham, Bradford, Kan.

SUDAN GRASS SEED, 40C POUND. QUANtities less. Pure high grade farm seed. By grower, on experimental farm. G. H. Branham, Slaton, Lubbock Co., Texas.

ALFALFA SEED: CHOICE SEED GROWN by farmers around Winfield—thoroughly recleaned by us. Samples and prices on application. Silver Seed Co., Winfield, Kan.

SENEKER'S EARLY BLACK HULL WHITE kaffir, 15 days earlier than old variety, about the same in growth, yields heavy. Pure bred seed, graded, $2.00 per bu. F. O. B. Okeene, Okla. G. W. Seneker.

SWEET CLOVER SEED. PURE WHITE blooming variety. Unhulled, recleaned 24c and hulled, recleaned 27c per pound. Unhulled $14 and hulled $16 per bushel, each of 60 pounds. E. G. Finnup, Garden City, Kan.

ALFALFA SEED—GOOD HOME GROWN, non-irrigated alfalfa seed for sale as follows: $9.00, $8.00, $6.00 bu. All Winona. Sacks 25c ex. All orders filled promptly. Sample sent on request. L. A. Jordan Seed Co., Winona, Kan.

SUDAN GRASS SEED—OFFICIALLY INspected and approved. All about it—and purity guaranteed with every sale. 50c lb., 10 lbs. $4.25 prepaid. Weight 48 lbs. per bu. —Not 32 lb. kind. C. E. White Seed Co., Plainview, Texas.

ALFALFA SEED—HOME GROWN, REcleaned, non-irrigated alfalfa seed $8.40, $9.00, $9.60 per bushel our track. Seamless bags 25c each. No obnoxious weed seeds in this section. Samples on request. The L. C. Adam Mercantile Co., Cedar Vale, Kan.

BUY TREES AND PLANTS AT WHOLEsale. St. Regis Ever Bearing Red Raspberry. Rockhill's Progressive. Fall Bearing Strawberry. The best varieties of all small fruit plants, and general nursery stock. Free catalog. Box 308, Rosedale, Kansas. Holsinger Brothers Nursery.

WE HAVE A LIMITED QUANTITY OF pure inspected Sudan grass seed that we are closing out and it will pay you to write for our special prices before buying elsewhere. Agents wanted. Reference, First National Bank, Lubbock, Texas. Kimbro & Parks, Lubbock, Texas.

SEED CORN—IMPROVED, HIGH YIELDing strains—direct from grower to you. Same great corn that was so much in demand two years ago, following special descriptive article in Mail and Breeze. It's truly a great corn. Write for particulars. Bristow Seed Corn Farm, Wetmore, Kansas.

NORTHERN KANSAS KAFIR AND feterita seed heads. Kafir is Black hulled white, early maturing, heavy yielding; result of ten years' careful field selection. In head only. 5 cts. per lb. in any amount. Add postage for parcel post quantities. J. W. Berry, Jewell City, Kan.

FOR $1 I WILL SEND YOU 8 TWO YEAR budded apple, pear or peach or 5 cherry trees, or 75 blackberry, raspberry or dewberry or 20 grape, gooseberry, currant or rhubarb, or 100 asparagus or 50 ever bearing or 200 spring bearing strawberry plants, or 100 cedar or other evergreens or 8 roses. Catalogue free. Manhattan Nursery, Manhattan, Kansas.

AFRICAN KAFIR SEED—I HAVE SOME excellent seed grown from that which I imported last year direct from South Africa, the sure-crop early maturing kind. This was of medium height. I can guarantee that there was none of the tall nor short varieties grew in this. Discard your mixed, late-maturing seed and secure this pure strain which produces most seed and best fodder. There is not much that is not mixed, so write early for samples and prices. Asher Adams, Osage City, Kansas.

LANDS

BUY SUMNER COUNTY, KANSAS FARMS. H. H. Stewart, Wellington, Kansas.

120 CLOUD COUNTY IMPROVED, GROWing wheat, $5400.00. 1315 Lincoln, Topeka, Kan.

DICKINSON COUNTY FARMS, TOWN properties, business chances. Ray E. Corbin, Enterprise, Kan.

TRADE IMPROVED FARM FOR WESTern farm. Box 36, Armstrong Springs, Ark.

CALIFORNIA ORANGE AND OLIVE LAND for sale. Lineker Land Co., Palermo, California.

CENTRAL MICHIGAN FARMS — FRUIT, grain or stock. Write for free list. Phillip O. Lippert, Stanton, Mich.

173 A. FARM FOR SALE, $40.00 PER A. New barn, 6 room house, 4 springs. Owner, W. H. Crackel, Libertyville, Mo., St. Francois Co.

SELL YOUR PROPERTY QUICKLY FOR cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

FOR SALS: ONE HALF-SECTION, ONE quarter and one 80 near good town with two railroads. For particulars, write Henry Klaumann, Cuba, Kan.

FAMOUS FRUIT BELT, THIRTEEN ACRE highly improved fruit farm. Price is right. Want to sell. Lowell Realty Company, Gentry, Benton county, Arkansas.

FOR SALE OR RENT—640 ACRES WELL improved, 265 acres under plow, balance pasture and hay; good smooth land Charles Wilks, 312 East 12, Emporia, Kan.

$2500 WILL HANDLE THIS DEAL. 160 acre farm one mile from good live R. R. town, 80 acres in wheat. Price $5000. Balance terms to suit. B. F. Foulds, Gate, Okla.

FOR SALE—80 A.'S FOUR MILES FROM Abilene, Kan. Well improved. 160 a.'s near two good towns, unimproved. Write for particulars. Geo. Roggendorff, Carlton, Kan.

400-ACRE RANCH IN BACA COUNTY, southeastern Colorado; fair improvements; sell $6,000 or exchange for smaller in southeastern Kansas. Thos. D. Hubbard, Kimball, Kan.

FREE GOVERNMENT LAND FOR FARMers in prosperous Colorado. Where it is, how to get it. Write for official information immediately. Immigration Dept., 1515 Tremont, Denver, Colo.

SUNNY COLORADO NEEDS 2000 MORE good farmers this year. Opportunities unsurpassed. Ask for free reliable information. Griswold, Farm Specialist, 405 Chamber Commerce, Denver, Colo.

FOR SALE—EXCELLENT FARM IN MOST healthful and prosperous county; suitable for fruit or general farming; also small partly improved, very cheap. R. A. Miniely, R. F. D. 3, Bentonville, Ark.

BIG MONEY IN SOUTH MISSOURI LAND. 20 acres $400. $5 monthly; 40 acres $700; 80 acres $1200. Others are making money. Why not you? Literature, maps free. A. Merriam, Ellis & Benton, Kansas City, Kansas.

WANTED—CATHOLIC FAMILIES TO LOcate around Turon, Kan. New church just built, no debt. Good imp. farms, corn, wheat and alfalfa land. Prices from $35 to $60 per a. fine terms. John Collopy Realty Co., Turon, Kan.

A WELL IMPROVED, WATERED AND located stock or dairy farm of 204½ acres 3½ miles from town. Price $65.00 per acre. Would take small farm near Manhattan or some other good town. C. B. Douglas, Mountain Grove, Mo.

PRODUCTIVE LANDS; CROP PAYMENT or easy terms along the Northern Pac. Ry. in Minn., N. D., Mont., Idaho, Wash. and Ore. Free literature. Say what state interests you. L. J. Bricker, 46 Northern Pac. Ry., St. Paul, Minn.

173 ACRES, FRANKLIN COUNTY; ALL cleared; 4 miles from good town; Kansas City 68 miles; 75 acres in corn and alfalfa; good 6 room house; other improvements poor; $40 per acre; no exchange. Daniel Bontecou, Gashland, Mo.

FOR SALE BY OWNER—160 A. RIVER bottom farm, mile from town, 90 a. in cultivation, fenced and cross fenced, mostly with woven wire, neat improvements, abundance of good water and timber, beautiful home and ideal location; will sell at a sacrificed price. M. T. Dye, Bloomington, Kan., R. R. 1.

FOR SALE BY OWNER—320 ACRES, stock and grain farm, Russell Co., 5 miles town, fair improvements, 110 cultivated, some alfalfa, bal. pasture. Raised 2000 bu. wheat 1914. Price $25 per acre, $3000 down, bal. time. Worth double; act quick. N. Everson, Irving, Kansas.

PROFITABLE LITTLE FARMS IN SHENandoah Valley of Virginia, 5 and 10 acre tracts, $250 and up, easy terms—good fruit, vegetable, poultry and live stock country. Large list of other farms. Send for literature now. F. La Baume, Agr'l Agt., N. & W. Ry., 318 Arcade Bldg., Roanoke, Va.

FOR SALE OR RENT—40 ACRES, 3 MILES of Carbondale, Kan.; 30 under cultivation, balance pasture and little timber on creek; 2-room house, barn, cow lot, chicken house and corn crib; 1 mile to good school; 3 to church and store; fine neighborhood. Am a widow and must sell or rent quick. Bargain. Mrs. Rachel Layman, Carbondale, Osage Co., Kan.

HOMESTEADS—GOVERNMENT LAND IN California—take advantage of low fares—see Exposition during the winter—it opens Feb. 20—secure a homestead. Good land still open. Twenty million acres to choose from. We give information about best homesteads. Maps showing vacant land, description of laws, land ,etc., cost $2.50. Stine & Kendrick, 36 Montgomery St., San Francisco.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from fine school, fine old shade, park like surroundings, lot 61¼ by 205 feet, eight room house, modern in every detail, hardwood finish, four fine mantels and grates, of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses, etc., etc. Fine place for farmer who wants to move to the capital city. Price $5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E., care Mail and Breeze.

OILS

BEST AUTOMOBILE, ENGINE, CYLINDER oils, greases, crude dip, kerosene, etc. Save money by writing for price list. Neosho Valley Oil Co., L. J. Hurt, Mgr., Station "E," Kansas City, Mo.

FARMS WANTED

WANTED—TO HEAR FROM OWNER OF good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

WANTED TO HEAR OF GOOD FARM OR unimproved land for sale. Send description and price. Northwestern Business Agency, Minneapolis, Minn.

SELL YOUR FARM OR BUSINESS QUICKly for cash no matter where located. Information free. Black's Business Agency, Desk 9, Chippewa Falls, Wis.

I HAVE SOME CASH BUYERS FOR SALEable farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

FOR SALE

SCOTCH COLLIES. WESTERN HOME Kennels, St. John, Kan.

HEDGE POSTS FOR SALE IN CAR LOTS. W. H. Bitts, Melvern, Kan.

FOX TERRIERS—GOOD RATTERS. WESTern Home Kennels, St. John, Kan.

PEDIGREED FEMALE COLLIE PUPPIES. R. A. Fullerton, 1304 Tracy, Kansas City, Mo.

DOGS—WHITE SPITZ PUPPIES, BEAUties. Special. Sunnyside Farm, Havensville, Kan.

BELGIAN HARES—RUFUS REDS, FLEMish Giants, Golden Fawns. L. V. Carr, Garden City, Kan.

FOR SALE CHEAP—1 NEW 12 FOOT backgeared wind mill. Wm. Bloss, Route 2, Hutchinson, Kan.

PRATT CITY PROPERTY FOR SALE OR trade for land or breeding stock. Wilbur King, Cullison, Kan.

BALED ALFALFA, PRAIRIE AND BOTtom hay, kafir corn and feterita. A. B. Hall, Emporia, Kan.

FOR SALE—HUBER 30-60 GAS TRACTOR, run one season, like new; one of the best tractors built. Loewen Bros., Meade, Kan.

FOR SALE—SPANISH PEANUTS, WELL matured, five cents pound. Large quantities cheaper. John W. Burkes, Aline, Okla.

FOR TRADE—ONE HUBER 12 HORSE engine, one 33-56 Russell Sep., belts and watertank. Prefer stock. O. D. Hutto, Monument, Kan.

CALIFORNIA HONEY DIRECT FROM THE producer. Light amber $7.00, amber $6.00 per case containing two 60 lb. cans. L. D. Miller, Kerman, Calif.

FOR SALE—A SEVEN PASSENGER JACKson automobile in a good running order; also a 10 year old imported registered Percheron stallion; black; weight 2000 lbs. Address Holger Anderson, Concordia, Kan.

CREAM AND POULTRY BUSINESS FOR sale, two buildings, one new and fenced in yard. Other agencies in connection. Doing fair business, no competition. Good reason for selling. Price $200.00. Address Box 101, Bloom, Kan.

WE CAN SUPPLY YOU WITH PRAIRIE hay, can ship from three to five cars per week. Have both number one and number two. If you are needing hay come and see us. Also have a limited amount of alfalfa hay. Bradfield & Hathaway, Olpe, Kan., Lyon Co.

EXTRAORDINARILY GOOD CANE SYRUP, made from the juice of pure Ribbon cane. Contains all sugars and no chemicals. Especial care given to cooking and skimming, which guards against summer fermentation. Prices free. Sample can 10c. Telmah's Plantations Mills, Houston, Texas.

FOR SALE—NEW ELEVATOR IN 1,500 southeast Kansas town. Galvanized iron bldg. 140x29 ft. Mill portion 2-stories. Bin capacity 6,000 bu. Storage room 15 cars. Fully equipped to manufacture corn products. Cheap, cash price for quick sale. No trades. Louis W. Johnson, 310 Commerce Bldg., Pittsburg, Kan.

FOR SALE OR TRADE

FOR SALE OR TRADE—BEST RANCH in Arkansas. O. T. Martin, Monticello, Ark.

CLEAR INCOME PROPERTY FOR FARM, value about $10,000. Owner 68, Strong, Kan.

MERCHANDISE AND INCOME FOR land; describe and price yours. Funk, Gridley, Kan.

EXCHANGE—NICE COTTAGE AND NEW piano for workhorses or milk cows. J. D. Proffitt, Independence, Mo.

FOR SALE OR TRADE FOR LIVE STOCK, one four cylinder Minneapolis gas or oil tractor, also six bottom engine plow, both in good repairs. E. L. Pitzer & Sons, Pratt, Kan.

FOR SALE OR EXCHANGE; IN NORTHern Kansas, 160 a. farm, 85 plowed, balance pasture, hay land; a good up land. Price $65 acre. Has some mortgage at 5%. Runs two years. Want cash or stock of general merchandise from $5,000 to $6,500 and will take back second mortgage for difference. Address quick. Deal, care Mail and Breeze.

MALE HELP WANTED

I CONDUCTED GOVERNMENT EXAMinations—can help you secure railway mail or other government positions. Trial examination free. Ozment. (38 R) St. Louis.

GOVERNMENT FARMERS WANTED. AGE 21 to 50. Make $125 monthly. Write, Ozment, (38 F) St. Louis.

GOVERNMENT WANTS CLERKS. $70 month. Spring examinations everywhere. Sample questions free. Franklin Institute, Dept. R 51, Rochester, N. Y.

FIREMEN AND BRAKEMEN; $100 MONTHly; experience unnecessary; hundreds needed by the best railroads everywhere; particulars free. 796 Railway Bureau, East St. Louis, Ill.

MOTORMEN—CONDUCTORS; INTERURban; earn $80 monthly; experience unnecessary; qualify now; state age; details free. Electric Dept. 812, Syndicate Trust, St. Louis, Mo.

SALESMEN WANTED FOR FULL LINE fruit and ornamental trees. No experience necessary. Full or part time as you prefer. Prompt pay each week. The Lawrence Nurseries, Lawrence, Kansas.

MALE HELP WANTED—LIVE YOUNG farmers or country school teachers in spare time can make $10 to $25 a week selling our Farm Record and Account Book. Every farmer needs one. Nothing like it. Southern Printing Co., Perry, Okla.

WANT CAPABLE MAN, INVEST $5000.00, take charge improved irrigated alfalfa ranch, near railroad town, western Kansas; ample feed and pasture. Intend build dairy barns, silos, and buy herd milch cows. Fine proposition. K., care Mail and Breeze.

HELP WANTED

CHRISTIAN HELPERS WANTED. MODEL colony. Farming. Jno. Marriage, Mullinville, Kan.

BE A DETECTIVE. EARN $150 TO $300 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

WANTED — MEN — WOMEN — GOVERNment jobs. $70 month. Write immediately for list of positions now obtainable. Franklin Institute, Dept. R 51, Rochester, N. Y.

THOUSANDS GOVERNMENT LIFE JOBS now obtainable. $65 to $150 month. Vacations with full pay. No layoffs. Short hours. Common education sufficient. "Pull" unnecessary. Thousands 1915 appointments. Write immediately for free list of positions now obtainable. Franklin Institute, Dep't R 51, Rochester, N. Y.

AGENTS

AGENTS. WANTED SELLING AUTO SUPplies big profits. Sure repeat orders, exclusive territory. Rockwell Supply Co., Dept. 70, 3516 College, Kansas City, Mo.

WE WILL PAY YOU $120.00 TO DISTribute religious literature in your community. Sixty days' work. Experience not required. Man or woman. Spare time may be used. Ziegler Co., Dept. 64, Philadelphia.

HERE'S YOUR CHANCE. GET COUNTY agency for Champion Bag Holders, just patented. Holds any size any height, anywhere. Every farmer needs one. $50 weekly to live men. Write today. Champion Specialty Co., Majestic Bldg., Detroit, Mich.

$9 DAILY AVERAGE SELLING IMPROVED Advance Pump Governors. They make the hardest working pumps work easy, windmills turn in slightest wind, pumping engines work with less than half the gas; fit all pumps; warranted 5 years; price $5 each. Honorable men wanted to sell them everywhere. International Foundry Company, St. Paul, Minn.

SITUATION WANTED

POSITION WANTED BY MAN AND WIFE, both acquainted with farm work, and not afraid of work. We prefer a tenant house. Two children. G. E. H., care Mail and Breeze.

MISCELLANEOUS

BED BUG EXTERMINATOR RECIPE 25C silver. Address 300 West South St., Dwight, Ill.

QUICK CASH FOR PROPERTY. SPECIAL terms to owners. Dept. F, Co-operative Salesman Co., Lincoln, Neb.

WE GUARANTEE TO CURE HEAVES IN stock or refund your money. For particulars address, Baird Mfg. Co., Dept. C, Purcell, Okla.

WHITE BURLEY NATURAL LEAF TObacco. Chewing 15 and 20c pound; 2 year old smoking 12½c pound. H. H. Ross, Downing, Mo.

LONG GREEN LEAF TOBACCO TO CHEW or smoke. Twenty and twenty-five cents per pound. 100 pounds delivered. Cutler and Gallagher, Holt, Mo.

THE BENNETT TYPEWRITER. NO REbuilt junk, but new and guaranteed. Price $18.00 express prepaid. Send today for descriptive literature and trial offer. Boyero Specialty Co., Distributors, Boyero, Colo.

BIG WESTERN WEEKLY SIX MONTHS 10 cents. Biggest and best general home and news weekly published in the West. Interesting and instructive departments for young and old. Special offer, six months' trial subscription—twenty-six big issues—10 cents. Address Capper's Weekly, Dept. W. A.-12, Topeka, Kan.

A MILLION DOLLAR BOOK. IF WE CAN get ten thousand farmers to read the Equity Text Book, they will join the Equity Union and we will save them one million dollars per year as we are doing for our present membership. Send fourteen two cent stamps to The Equity Union, Greenville, Ill., for the book and read carefully our plan of co-operation which holds ten thousand farmers together in a business union. C. O. Drayton, Greenville, Ill.

Do Not Sacrifice Cattle

Indications Are That Prices Will Be Higher Before Long

BY C. W. METSKER

CONSIDER the facts in the case and draw your own conclusions. The market for fat cattle is bad now, "shot to pieces," as salesmen say, and heavy marketing will make a bad condition worse. Before cutting loose fat cattle, however, consider that such winter feeding states as Illinois, Indiana and Ohio have almost cleaned up their feed lots; that Iowa and Missouri have marketed freely owing to high prices for corn and adverse winter conditions; that the stocker movement into territory from the Missouri river east has been, for the last four months, the smallest ever known in any similar period.

Kansas, Oklahoma and Nebraska have made large purchases of thin cattle, but fully 50 per cent of their buy has been light weight stockers, suitable only for roughing through the winter. Demand for beef is at low ebb and will expand with spring activities and will increase as the beef supply diminishes. The feeder now has every assurance that the market will be no worse than at the present, and he has every reason to believe that a very decided improvement will occur in the next 30 or 40 days.

Don't Sacrifice Thin Cattle.

As the quarantine for the foot and mouth disease now exists there is only a narrow outlet for thin cattle. Such cattle usually keep out in the open and incur small risk of infection from any disease. To send the stocker and feeder classes to market now means low prices. Conditions may arise which would tie them up at market or feeding points indefinitely. When conditions become normal again there is every reason to believe that prices will be such that owners will be more than paid for holding the cattle. The big part of the winter is over, and urgent spring demand for thin cattle is assured.

The Car That Brought Trouble.

The palace stock car which brought the dairy cows from Wisconsin into Kansas, has been traced from Oxford to Mulvane and Winfield, by the Santa Fe, coming over the Northwestern out of Wisconsin. It did not pass through the Chicago or Kansas City yards, and the cattle were not unloaded in transit. The car was interned in Wichita, and scrubbed and disinfected.

Can Pork Product Be Financed?

If the big packers are able to get the assistance of ready credit on the pork product already in store, the lowest point of the hog market has been passed. If not, still lower positions will be forthcoming for fat porkers. The situation is that for the next few weeks conditions are bearish, but for the long run they are bullish. At present prices of hogs which are the lowest in more than two years past, packers are cutting as much into fresh pork as possible. Owing to slack industrial conditions and the failure of cotton states to buy, pork product is accumulating. If loans continue to bolster up further accumulations of stocks of meats, large buying of hogs will continue up to the time that the big end of the hog crop has been gathered. Packers now are buying freely anticipating an end to the big movement within 60 days. Prices last week were $6.60 to $7 in the West and $6.75 to $7.25 in the East. Light weight hogs commanded a premium over the heavy grades.

Sheep Market Firm.

Sheep prices last week were the highest this year, and in a position where a little more urgency in demand would have swung lamb prices above 9 cents. The market seems to be gaining strength for a March advance, and many sheep men say that 10 cents will be paid in April. Mutton will be held in more or less restricted demand by weather conditions and the relative cheapness of beef and pork. The market should derive considerable strength from the actual supply on feed.

Urgency In Wool Demand.

What promises to be the most active season ever known for western wool is approaching. Early shearing will begin in the Southwest in the next three weeks, and many heavy sheep on feed will be shorn before they are turned to market.

The Movement Of Livestock.

The following table shows receipts of cattle, hogs and sheep at the five western markets last week, the previous week and a year ago:

	Cattle	Hogs	Sheep
Kansas City	44,400	82,200	41,400
Chicago	20,400	156,000	43,000
Omaha	18,500	52,200	60,100
St. Louis	26,800	92,500	18,550
St. Joseph	10,100	60,600	12,000
Total	120,200	443,500	170,050
Preceding week	115,700	459,800	176,400
Year ago	103,300	374,000	184,600

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1914:

	1915	1914	Inc.	Dec.
Cattle	176,486	155,102	21,384	.....
Calves	5,845	9,802	.....	3,957
Hogs	330,571	243,049	87,522	.....
Sheep	183,038	194,384	.....	11,346
H. & M.	18,865	14,508	4,357	.....
Cars	12,382	10,115	2,267	.....

The following table shows a comparison in prices of best offerings of livestock at Kansas City and Chicago for this date and one year ago:

Per 100 lbs.	Cattle 1915	Cattle 1914	Hogs 1915	Hogs 1914	Sheep 1915	Sheep 1914
Chicago	$9.00	$9.50	$7.10	$8.67	$9.00	$6.90
Kan. City	8.80	9.25	7.02	8.60	8.90	6.90

Horse Markets War Depots.

Plenty of activity is going on at the large markets for horses and mules, but in no sense is this trade possessed of the usual open feature. Firms that hold the contracts to supply foreign nations have buyers throughout the country hunting for supplies, and such as are consigned to the open market meet but the one outlet. Buying now on foreign orders is as large as at any time in the last few months, and there is no indication of an early abatement. When it is considerd that this country is being rapidly picked of its horses and mules, countrymen should see that prices are advanced. Too close selling is bound to cause higher prices later.

A Wild Market For Wheat.

Advances of 3 to 6 cents, and declines of 8 cents, in a few hours were some of the "stunts" of the grain market last week. Prices bounded into new high positions for the season and for a number of years past. Cash wheat in Kansas City sold up to $1.61, and up to $1.66 in Chicago. Conditions that advanced the price since the crop of 1914 was marketed at from 80 cents up, are still active in the market and the only bearish factors are those that originate from peace rumors or reports that English shipping is demoralized.

In January exports of wheat were 33,149,000 bushels, compared with 9,705,000 bushels in the same month last year. Exports from July 1 to February 1, were 211,093,000 bushels, against 101,881,000 bushels in same period last year.

Corn prices have fluctuated 3 to 5 cents, but failed to sustain any material net rise. The market is heavy owing to curtailed feeding operations, but export demand is beyond precedent for this season of the year.

The following comparison shows prices on best grades of wheat, corn and oats at Kansas City and Chicago for this date and one year ago:

	Wheat 1915	Wheat 1914	Corn 1915	Corn 1914	Oats 1915	Oats 1914
Chicago	$1.68	96¼	77½	66	58½	40
Kan. City	1.61	89½	79	68½	57½	48

Hay Quotations.

Prairie, choice	$12.50@13.00
Prairie, No. 1	10.50@12.00
Prairie, No. 2	8.00@10.00
Prairie, No. 3	6.00@ 7.50
Alfalfa, choice	15.00@16.50
Alfalfa, No. 1	13.00@14.50
Standard	11.50@12.50
Alfalfa, No. 2	10.00@11.00
Alfalfa, No. 3	8.00@ 9.50
Timothy, No. 1	15.50@16.00
Timothy, No. 2	13.00@15.00
Clover, choice	14.00@14.50
Clover, No. 1	13.00@13.50
Clover mixed, choice	15.00@15.50
Clover mixed, No. 1	14.00@14.50
Straw	5.50@ 6.00

Feed and Seed Quotations.

Feed—Kafir $1.48@1.50; milo maize $1.48@1.50; bran $1.13; shorts $1.23@1.35; corn chop $1.45; barley 75c; rye $1.24.

Seeds, per cwt.—Clover $13.50@15; alfalfa $12@14; timothy $5.50@6.50; flax seed $1.63@1.65; cane seed $1.25@1.35; millet $2.25@2.50.

Butter, Eggs and Poultry.

Kansas City, Mo., Feb. 8.—Quotations on 'change were as follows:

Eggs—Extras, new white wood cases included, 25½c a dozen; firsts, 23½c; seconds, 17c.

Butter—Creamery, extra, 30c a pound; firsts, 27c; seconds, 25c; packing stock, 20½c.

Live Poultry—Springs, 2 to 3 pounds, 16c; hens, No. 1, 14c; No. 2, 16½c; young roosters, 10c; old, 9c; turkeys, hens, 16c; young toms, 15c; old toms, 14c; ducks, 14c; geese, 10c.

To bring the highest price a draft horse must be able to move well. He must be especially good at the walk.

Go after the dollars, the pennies will come tagging along.

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WE WANT AGENTS TO SELL OUR steel silo fixtures. Sixty-ton silo $75. The original flooring silo. In use in fourteen states. Liberal commissions. Get booklet with testimonials. Bonita Farm, Raymore, Mo.

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Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

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A GOOD improved 160 at $50 per acre. Write Decker & Booth, Valley Falls, Kan.

REAL ESTATE MEN, write for special land deal. Lock Box 166, Syracuse, Kan.

ALLEN CO. FARMS at owners' prices. Write for lists. R. L. Thompson, Iola, Kan.

ALFALFA land, Sedgwick Co. Write for price list. G. R. Davis, Valley Center, Kan.

80 ACRES, rich soil, well located, dandy home, $5500. Fouquet Inv. Co., Andale, Ks.

BOTTOM farms on interurban, 20 mi. Wichita. Write Harling Bros., Sedgwick, Kan.

$2700 for fine 80, enc. $700, or will trade for Mdse. Bowman Realty Co., Coffeyville, Ks.

NORTHEAST Kansas farm bargains. Write for list. Compton & Royer, Valley Falls, Ks.

LAND in Nemaha, Marshall, Pottawatomie Cos. $30 and up. T. E. Rooney, Seneca, Kan.

FARMS and ranches, northeast Kansas, $35 to $125 acre. Geo. Loch, Marysville, Kan.

IMP. FARM Pottawatomie Co. $35 per a. Write me. O. H. Martin, Severy, Kansas.

FREE! Illustrated booklet describing richest Co. in Kan. Hosey Land Co., Columbus, Ks.

240 A. finest Kaw Valley bottom land, imp. Easy terms. J. M. Conlan, St. Marys, Kan.

A BARGAIN. 480 a. close in; good land, impr. Terms. J. F. Voran, Belpre, Kan.

FREE LISTS of Ness County grain, stock and alfalfa land. Fine land at $10 to $15 per a. Easy terms. West, Ransom, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Ks.

IT'S $9250.00—185 acres, well improved, 3 miles Mound Valley. Free gas. 1700 rods hog tight. J. P. Donahue, Mound Valley, Kan.

TWO Lyon County bargains, best of alfalfa land; easy terms. Possession March 1st. Write for description. Box 104, Allen, Kan.

MUST sell three well improved Kansas farms before March 1st. Get descriptions, locations, prices. Melvin Smeltz, Durham, Kan.

268 A. farm; 65 a. in alfalfa and clover, 30 a. prairie meadow, bal. pasture; good 6 room house; barn 50x50; granary. Price $35 a. Terms. Write "Sewell," Garnett, Kan.

440 ACRES meadow or grazing land, good grass, living water; good fence. 2 miles railroad, Pottawatomie County, Kan. $25 an acre. A. A. Murray, Westmoreland, Kan.

FOR SALE. One of the best 240 acre farms in Reno County, Kan., 2 mi. from good town. Soil black sandy loam; level; good improvements. Close to school, R. F. D., etc. 200 a. now in crop. Write owner, M. G. H.—173, Capper Bldg., Topeka, Kan.

FOR SALE. Choice alfalfa farm, improved, near railroad. Price low; terms easy. Tate, Howard, Kansas.

FOR BARGAINS in improved farms in Catholic settlements. Exchanges made. Write Frank Kratzberg, Jr., Greeley, Kansas.

HARPER COUNTY, Kansas. First class land, $30 to $45 per acre. Write us now. J. E. Couch Land Co., Anthony, Kansas.

GOOD, smooth wheat and alfalfa lands at $15 to $25 per acre. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kansas.

TWO FARMS for sale; 80 acres 5 miles out, $3200. 160 acres 2 miles out, $6400. Easy terms, good improvements, good land. Write Guss Schimpff, Burns, Kansas.

FOR SALE. 640 acres improved ranch. 120 a. cultivation, bal. pasture. 75% tillable. Living water. Will consider income property for part purchase. Price $25 per a. L. E. Pendleton, Dodge City, Kansas.

3120 A. IDEAL RANCH—Adjacent to Ness Co., Kan. In compact body; 90% tillable; 1,000 a. bottom alfalfa land; rich soil; 600 a. in cultivation. Two sets imp. Can lease 3,000 a. joining. Abundance water. Price $30,000, terms. For particulars address C. F. Edwards, Ness City, Kansas.

80 A. WELL IMPROVED, fine location, 3½ mi. Ottawa. Natural gas for fuel. Will sell with $2500 down.
160 a. 2 mi. Princeton, Kan., nicely improved. Close to high school. Price $9000. Easy terms. Possession at once if wanted.
120 a. 3½ mi. Ottawa, well improved. Will be sold at bargain.
These are special bargains and are priced worth the money. Owners do not want to rent them. Write for full description or come at once.
Mansfield Land Co., Ottawa, Kansas.

NOW IS THE TIME to get more land; prices will advance. Have you small farm? We have good deals on larger farms in E. Kan. Write what you have and want. Iola Land Co., Iola, Kan.

EASTERN KANSAS 136 a. imp., lays well, $40.00. 80 a. improved, lays well, $35.00. Exchanges made. T. K. Brockett, Pleasanton, Kan.

KIOWA COUNTY

Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

80 Acres Only $750

Only 4 mi. Wichita; good smooth black loam soil; plenty bldgs.; possession; only $6000; only $750 cash, time on bal. R. M. Mills, Schweiter Bldg., Wichita, Kan.

DON'T BE A WORM

You might get caught—be the early bird and come to Garden City. I want to show you good land in a practically undeveloped country where opportunities abound. If you can't buy, I'll trade—what have you? R. B. Wadsworth, Garden City, Kansas.

Chase County Farm

160 acres 3 miles from Saffordville and 12 miles from Emporia. 125 acres fine land under cultivation, balance meadow, pasture and some timber. 25 acres in alfalfa. 200 ton silo, 7 room house, stable, etc. Daily mail, telephone. $11,000.00. Terms on half. No. trade.
J. E. Bocook & Son, Cottonwood Falls, Kan.

Sedgwick Co. Farm Bargains

120 a. farm, 7 room house, barn; smooth good land; fine location. $65 per a. $2500 handles. 240 a. farm, good house, large barn; valley land, 40 a. in alfalfa; 2 large silos; near Wichita. $75 per a.; this will suit you. 1600 a. ranch; best of grass, well watered and fenced; improved; only 4 miles to R. R. town, 3,500 people. $28 per a. 40 a. alfalfa land; 3 miles of Wichita. This snap $100 per acre.
H. E. Osburn,
227 E. Douglas Av., Wichita, Kan.

ALFALFA FARM FOR SALE

480 acres one mile to Meade, Kansas, 110 a. seeded to alfalfa, 15 a. wild hay, 70 a. plow land, balance good farm land and in pasture. 12 a. in grove, 7 room house plumbed hot and cold water, bath and toilet, barn 24x100, 100 foot cattle shed, cow barn, granary, tenant house and other buildings. Four artesian wells. 250 a. valley land. Crops the past year, 250 tons hay, 75 bu. alfalfa seed, 1100 bu. barley, 300 kafir, 100 feterita, besides other crops. Price $55.00 per acre, some terms. This will stand the closest investigation. Write
J. A. Denslow, Meade, Kansas.

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1,000 Apple Trees. Rich, 140-Acre Farm.

One of the finest properties in rich New York farming section; beautiful rolling fields, smooth, easily worked, deep, rich soil, big crops and 50 to 60 tons hay, stream and spring-watered pasture for 25 cows; 40 acres wood, 1,000 bearing apple trees, lots of pears, plums, cherries, raspberries; 10-room house, cellar, telephone, barn, 30x70, running water, hay fork, silo, another barn, milk house, poultry house, ice house; maple shade; charming view; only 1½ miles to hustling railroad town; owner has other business and it is going now at a bargain; price $7,500, easy terms, full details, page 3, "Strout's Winter Farm Bargains," copy free. E. A. STROUT FARM AGENCY, Station 3125 Union Bank Bldg., Pittsburg, Pa.

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BARGAINS in farms in high school district. S. S. Grier & Co., Stafford, Mo.

WRITE Bedell & Co., Springfield, Mo., for prices on grain, stock and dairy farms.

STOP! Listen! 120 acre impr. farm $900. Other farms. McGrath, Mountain View, Mo.

CHOICE Vernon Co. prairie farms. Easy terms. $20-$60 a. W. H. Hunt, Schell City, Mo.

83 A. close town; spring, house, barn; 20 a. cult. $650. Other bargains. McQuary, Seligman, Mo.

40 ACRES 4 miles Lebanon, 30 a. apple orchard; house, 6 rooms. Stable, etc. Price $1600. Stillwell Land Co., Lebanon, Mo.

FRUIT and timber, clover and bluegrass land, $10 to $25. Write for lists. South Missouri Land Co., Mountain View, Mo.

700 A. well impr., 640 high state cult., $30.00. Write for description. Ozark Realty Co., 424 College St., Springfield, Mo.

IF YOU WANT farms or stock ranches in the Ozarks of Missouri, write A. J. Johnston, Mchata. Nat'l Bank Bldg., Springfield, Mo.

WHITE RIVER CLUB sites on lake. Farms, ranches, city property; mineral, fruit, poultry land. White River Realty, Branson, Mo.

480 A. STOCK RANCH, Estanchia Valley, N. M. Valley land, well imp., $9,600. Near R. R. Want income. F. M. & C. G. Morgan, Springfield, Mo.

POOR MAN'S CHANCE. $5 down, $5 monthly buys 40 acres good land and timber; near town. Healthy location; Southern Missouri. Price $200. Box 36, Excelsior Springs, Mo.

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If you want a home in a mild, healthy climate with pure water and productive soil and where land can be bought at a reasonable price write Frank M. Hammel, Marshfield, Mo.

120 ACRE FARM, high, level, 75 a. clear; rest good timber; 100 fenced, 60 a. winter oats and wheat; orchard; 5 room house; good different buildings; finest location, ½ mile town, R.R. switch, joining farm. Owner too old to work. Take $24 per acre; ½ cash. Rest to suit. F. Gram, Naylor, Mo.

SPECIAL BARGAIN

578 a. stock farm in Western Mo. 180 a. in cultivation, 500 a. tillable, some timber, but very little waste land, black limestone soil, all fenced, good improvements and everlasting water. This place will pay for itself in a short time at $37.50 per acre, liberal terms. We also have other cheap farms and ranches in Mo., Kan., Neb. and Okla. Ask us for what you want. THEODOR C. PELTZER INV. CO., 534 Scarritt Bldg., Kansas City, Mo.

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FOR LISTS and prices N. E. Okla. farms, write Elliott & Mabrey, Fairland, Okla.

F. M. TARLTON & CO., will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma.

EASTERN OKLAHOMA lands are now selling fast. If you are interested in this Productive Country and want to know more about it write The Craig-Mayes Realty Company, Big Cabin, Oklahoma.

320 A. prairie pasture; good sod; 2 miles city, this county 3000. Good water. 50 a. tillable. $6.50 per a. Terms. Write us about 1200 acres, all prairie; ½ tillable. Southern Realty Co., McAlester, Okla.

REAL FARM BARGAINS—I own or hold under option, several of the best farms in this state, 50 to 640 acres each, and can sell these lands at a most reasonable figure, with a very small cash payment down, balance easy terms. C. H. Brown, 306 State Bank Building, Oklahoma City, Okla.

OKLAHOMA LAND FOR SALE

Good land in Northeastern Oklahoma, which was part of the old Indian Territory, price from $20 to $35 per acre. Write for price list and literature. Agents wanted. W. C. Wood, Nowata, Okla.

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160 acres; Muskogee County; fine, level, valley land; half in cultivation; balance fine hay meadow; 4 miles from railroad town; good deep soil; will raise alfalfa, corn, wheat and oats. Price $30 per acre, easy terms. Can sell half at same price.
40 acres; Muskogee County, fine level land; joins State Agricultural College ground; 1½ miles to railroad town; part in cultivation; balance in hay; $35 per acre; easy terms.
Beard Land Co., Muskogee, Okla.

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J. C. PINKERTON, the land man, Green Forest, Ark. Write for information.

ARKANSAS farms, all sizes. Healthy. Prices right. J. C. Mitchell, Fayetteville, Ark.

LITTLE RIVER valley lands rich and cheap. On railroad. Robt. Sessions, Winthrop, Ark.

$375 BUYS improved 80 a. fruit and grain farm close in. Leslie Land Co., Leslie, Ark.

WRITE YOUR WANTS for Arkansas lands. W. B. Lane, Hope, Ark.

SPRINGDALE—Best part of Ozarks. Free lists. Fredricks, Springdale, Ark.

240 A. 5 mi. of Berryville, highly improved; $30 a.; farm list free. Dept. B, Eslinger Agency, Berryville, Ark.

WRITE for land list and tell us just what you want to buy or trade. Horton & Company, Hope, Arkansas.

IF INTERESTED IN N. E. ARKANSAS farm and timber lands, write for list. F. M. Messer, Walnut Ridge, Ark.

25,000 ACRES fine farm, stock land, cheap. Northern colony. Cash or long time. Free map. Tom Blodgett Land Co., Little Rock, Ark.

160 ACRES smooth prairie farm, improved, nicely located on mail and phone line. Price, $45 per acre. Gentry Realty Co., Gentry, Benton Co., Arkansas.

FOR SALE.
280 acres RICH BLACK LAND; 140 acres cultivation, 25 acres alfalfa, complete stock, wagons, gin, etc. $40.00, good terms.
Porterfield Co., Hope, Ark.

FOR SALE, twenty 40 acre tracts, improved and unimproved, located in the famous Judsonia strawberry district, Judsonia, Ark. Write for full particulars. J. G. Howard, Little Rock, Ark.

345 ACRES; 75 acres fenced and 30 in cultivation; two sets of improvements and located in the heart of stock raising district; price $10 per a. Write for list of bargains. Arkansas Investment Co., Stuttgart, Ark.

IT IS OUR BUSINESS to tell you about Siloam Springs, Benton Co., Ark. Sometimes we make fair exchanges, but have some big bargains for CASH. We want you to inquire what we have down here. Farmer & Perry, Siloam Springs, Ark.

HOMESTEAD YOUR FARMS in the Arkansas Ozarks. We locate you. Thousands of acres open to Homestead entry. New division of the Mo. & No. Ark. R. R. has brought this section in reach of markets, free range for hogs and cattle. Abundance of spring water. Send 25c for state map showing reserve and descriptive book giving number of acres in each county; also showing cheap lands or 50c which will include 5 months' subscription to the North Arkansas Traveler, a magazine devoted to homestead lands and development of N. Arkansas. A. Speirs, Chief Engineer, Mo. & North Arkansas Colonization Co., Harrison, Ark.

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EXCHANGES, all kinds; free list. Foster Bros., Independence, Kan.

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IMPROVED farms and ranches. City property for ex. Fugate Land Co., Lawrence, Kan.

WRITE for my large sale and exchange list. Jess Kisner, Garden City, Kansas.

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TRY BIGHAM & OCHILTREE, they sell and trade farms and property. 116 N. 8th St., St. Joe, Mo.

480 A. CLEAR; highly imp. Want Iowa, Ill., or Missouri farm. Will assume as much as $15,000. W. C. Bryant, Elk City, Kan.

20 BEAUTIFUL residence lots in Beebe, Ark., to trade for improved farm lots, worth $2500. C. C. Chumley, Beebe, Ark.

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The Allen County Investment Co., Iola, Kan.

CLEAR INCOME, for Pawnee or Hodgeman Co. land. Dwelling and business building, in Little River, Kan., value $10,500. Bremyer, McPherson, Kan.

FINE STOCK AND DAIRY FARM.
230 acres in Elk County, Kan. Well located, fine improvements, up-to-date, a wonderful bargain. Owner wants town property or smaller farm. Hunter Bros., Independence, Kan.

FOR SALE OR TRADE.
No. 3 Austin Stone Crusher, 25 H. P. Engine with tools and equipments. Owner died, otherwise would not sell. Ray Smith, Stillwater, Okla.

480 A.; 250 a. wheat, 50 a. alfalfa, to trade for small farm. 400 a. wheat farm, all bottom, joining county seat, to trade for small farm in eastern Kansas. Theo. Voeste, Olpe, Kan.

200 ACRES of fine land, smooth, well improved, Anderson Co., Kan., well located, raises everything. Price $80 per acre, would take $5000 in good property or smaller farm. J. F. Ressel, Owner, Colony, Kan.

TO TRADE FOR MERCHANDISE—Two farms, 320 acres each, in good neighborhood, well located, both well improved, good quality land, one mile from church and school. Will trade clear or carry part on land. Address
Chas. W. Eilsaesser, Liberal, Kansas.

Buy or Trade with us—Exchange book free Bersie Agency, Eldorado, Ks

FOR EXCHANGE

Improved half section not far from Wichita for hardware. H. C. Whalen, 413-14 Bitting Bldg., Wichita, Kansas.

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Northwest Missouri, Iowa and Nebraska choice farms; the greatest grain belt in the United States. Get my bargains.
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FARMS, ranches in Texas, Okla., Ark., Mo., Kansas direct from owners. To buy, sell or trade. **Land Buyers Guide, McKinney, Tex.**

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We have for sale two hundred thousand acres of good agricultural land located on the south plains in the Panhandle of Texas, price $17.50 to $22.00 per acre, you select your location, also your improvements, we build them for you adding cost of improvements to price of land, you pay $2.00 per acre cash, $1.75 per acre annually with 4% interest. Write us for further information. **H. J. Newman & Co., Miami, Texas.**

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Financing Farm Purchasers. Why our plan is better than renting or homesteading: 1st, if you rent you are paying for a farm which you do not own; 2nd, homesteads now open for entry are mostly in arid regions, culled over, and too far from market and settlement to be desirable. Better to buy land on the CROP PAYMENT PLAN, near town, in midst of settlement and thrifty agricultural district, where corn, small grain, tame grasses and live stock are produced in abundance, where crop failures are unknown. Ask for particulars, stating in first letter, what you have in stock, finances and equipment for farming.

GREAT NORTHERN LAND & STOCK CO., 310 Commerce Bldg., St. Paul, Minn.

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80,000 ACRES cut-over lands; good soil; plenty rain; prices right and easy terms to settlers. Write us. **Brown Brothers Lumber Co., Rhinelander, Wis.**

Upper Wisconsin Best dairy and general crop state in the Union; settlers wanted; lands for sale at low prices on easy terms; ask for booklet on Wisconsin Central land grant; state acres wanted. If interested in fruit lands, ask for booklet on apple orchards in Wisconsin. Address, **Land Department, Soo Line Railway, Minneapolis, Minnesota.**

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IRRIGATED FARMS and ranches for sale or trade. Most healthful and mild climate. Plenty of pure water. "No trouble to answer questions." **Braley & Ball, Portales, New Mexico.**

MINNESOTA

SETTLERS WANTED for clover lands in central Minnesota. Corn successfully raised. Write **Asher Murray, Wadena, Minn.**

LISTEN! Chances for big profit. Stock, dairy, potato land. $4 to $20 per acre. Terms. **Ebert-Walker Co., Duluth, Minn.**

CORN AND CLOVER FARMS near Twin City markets. No drouth. Ask for descriptions. $25 to $75 per acre. **Carter Land Co., Near Union Depot, St. Paul, Minn.**

WASHINGTON

CORN, wheat, oats, alfalfa and fruit lands. **Reliance Realty Co., Wenatchee, Wash.**

COLORADO

TO SETTLERS ONLY—320 acres for $200. Rich corn, alfalfa and wheat land, no sand. **J. A. Tracy, Ft. Morgan, Colo.**

CHOICE farm lands, Elbert County, near Limon, $8. Direct from owner. MUST SELL. **T. H. Hagen, Board of Trade, Duluth, Minn.**

FOR SALE, desert and homestead entries, improved, under ditch; near R.R. $10 per a. In Logan Co., Colo. **Wm. Tew, Sterling, Colo.**

FOR BEST 320 ACRE HOMESTEADS with shallow water, see or write **Warren Musgrove & Co., Lamar, Colo.**

WYOMING

Improved Farms For Sale

We own and will sell at bargain prices, possession this spring, if wanted, terms 10 annual payments, on both principal and interest on crop-payment plan, 160 acre level improved farm 6 miles R. R. town; also 320 acres improved adjoining R. R. town. Good schools, fertile soil, pure water, no hot winds, no irrigation. Banner winter wheat section of the West. Write at once for detailed particulars and descriptive literature. **FEDERAL LAND CO. (Owners), Dept. I, Cheyenne, Wyo.**

For Sale By Owner

My thirty-five thousand dollar stock of general Hardware, Furniture, Implements and Buildings, situated in the new County Seat town of Torrington, Wyoming, in the North Platte valley, doing a Fifty Thousand business, per annum. Or my Mountain Stock Ranch, Laramie Co., Colo., of 2240 acres, fine running water in all parts of ranch. 150 acres irrigated under private ditch. 150 tons of native and timothy hay. Good improvements and all fenced. Price $10 per acre. **W. O. Eaton, Torrington, Wyoming.**

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and West Okla., 614 So. Water St., Wichita, Kan.
John W. Johnson, N. Kansas and S. Nebraska. 820 Lincoln St., Topeka, Kan.
Ed R. Dorsey, North Missouri, Iowa and Illinois, Cameron, Mo.
Jesse R. Johnson, Nebraska, 1937 South 16th St., Lincoln, Neb.
C. H. Hay, S. E. Kan., So. Mo. and E. Okla., 4204 Windsor Ave., Kansas City, Mo.

PUREBREED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Feb. 15—Joshua Morgan, Hardy, Neb.
Feb. 16—L. E. Klein, Zeandale, Kan., at Manhattan, Kan.
Feb. 17—J. H. Harter, Westmoreland, Kan. Sale at K. S. A. C., Manhattan, Kan.
Feb. 18—J. L. Griffiths, Riley, Kan.
Feb. 19—W. A. Baker, Butler, Mo.
Feb. 19—A. J. Swingle, Leonardville, Kan.
Feb. 20—Jas. Arkell, Junction City, Kan.
Feb. 20—John Belcher, Raymore, Mo.
Feb. 23—J. D. Mahan, Whiting, Kan.
Feb. 25—T. M. Willson, Lebanon, Kan.
Feb. 26—Lambert Bros., Smith Center, Kan.
Feb. 26—W. E. Epley, Diller, Neb.
Mar. 1—Gronniger & Sons, Bendena, Kan.
Mar. 2—H. B. Walter, Effingham, Kan.
Mar. 3—H. C. Graner, Lancaster, Kan.
March 3—Gilbert Johnson, Osceola, Neb.
Mar. 4—Olivier & Sons, Danville, Kan.

Spotted Poland Chinas.

Feb. 24—Alfred Carlson, Cleburne, Kan.

Duroc-Jersey Hogs.

Feb. 16—J. M. Layton, Irving, Kan.
Feb. 17—E. A. Horton, St. Joe, Mo.
Feb. 20—Blackshere & Weaver, Elmdale, Kan.
Feb. 25—Martin Kelly, Verdon, Neb.
Feb. 25—C. C. Boyd, Centralia, Mo.
Feb. 27—E. N. Farnham, Hope, Kan.
March 2—Chas. W. Finley, Otterville, Mo.
March 5—Samuelson Bros., Blaine, Kan.
Mar. 12—G. C. Norman, Winfield, Kan.
March 17—Mott & Seaborn, Herington, Kan.

Shorthorn Cattle.

Feb. 23—J. D. Nutter, Morrowville, Kan., sale pavilion, Washington, Kan.
Mar. 10—D. E. Reber & Sons, Morrill, Kan.
March 11-12—Nebraska Shorthorn breeders' sale, Grand Island, Neb. J. C. Price, Lincoln, Neb., Mgr.
March 17—F. A. Egger, Roca, Neb.
March 18—Rudolph Firme, Hastings, Neb., and A. A. Stone, Hanson, Neb.; sale at Hastings.

Angus Cattle.

Feb. 16—F. W. Schaede, Yates Center, Kan.
Feb. 17—Bartlett & Coolbough, Stockton, Kan.

Hereford Cattle.

Feb. 18-19—Nebraska Hereford Breeders' sale. Grand Island.; Robt. Mousel, Cambridge, Neb., Mgr.

Jersey Cattle.

Mar. 17—Dr. J. H. Lomax, Leona, Kan.; B. C. Settles, Sales Mgr., Palmyra, Mo.
Mar. 31—E. Wiley Caldwell, Fulton, Mo.; B. C. Settles, Sales Mgr., Palmyra, Mo.

Percherons.

Feb. 16—R. Schroadter, Emporia, Kan.
Feb. 22—F. A. Cole, Barnard, Kan.; sale at fair grounds, Beloit, Kan.
Mar. 2—Lee Bros., Harveyville, Kan., at Sale Pavilion, Manhattan, Kan.
Mar. 10—D. E. Reber & Sons, Morrill, Kan.
March 17—F. A. Egger, Roca, Neb.

Belgian Horses.

Feb. 16—R. Schroadter, Emporia, Kan.

Clydesdale Horses.

Feb. 16—A. Montgomery, Smith Center, Kan.

Jacks and Jennets.

Mar. 6—G. C. Roan, LaPlata, Mo.
Mar. 8—G. C. Roan, LaPlata, Mo.
March 12—W. J. Finley, Higginsville, Mo.

Combination Livestock Sales.

Feb. 26—Smith County Breeders' association sale, Smith Center, Kan.

S. W. Kansas and W. Oklahoma

BY A. B. HUNTER.

Ewing Bros., Pawnee Rock, Kan., are breeders of Percherons and have at present decided to reduce their herd. They have ranging from weanlings to stallions and mares of mature age; 60 head of Percherons. Their display advertising starts with this issue and if you want a good Percheron stallion it will be to your interest to get in touch with Ewing Brothers.

Harris Bros. Sell Stallions.

Harris Bros., Great Bend, Kan., are selling a Percheron stallion every few days. They have an assortment and they are priced right. Their stallion barn is located right in town and if you are in the market for a stallion it will be to your interest to read their display advertising in this issue. Write them what you want and when you will call and look at their stallions. Please mention Farmers Mail and Breeze.

Big Kentucky Jacks.

Saunders & Maggard, Poplar Plains, Ky., have just arrived at Hutchinson, Kan., with a carload of the best Kentucky bred jacks they have ever offered to their customers. This jack firm has been shipping jacks from their breeding farms at Poplar Plains, for the last 20 years and they have a broad acquaintance throughout Kansas and the whole Southwest. Their business methods have built for them a prosperous jack business and they are keenly alive to the fact that the demand for the better class of jacks is on the increase and that the little, dinky kind is no longer in demand. This carload at Hutchinson is made up of the best and only the best and those of our readers who want the kind of a jack that will get the big marketable kind of mules and that will stand in high favor in his territory, should send today for their private sale catalog, now ready to mail. These jacks are right in the city and the thing to do is to drop off at Hutchinson and see them. Write today for catalog, addressing Saunders & Maggard, Hutchinson, Kan. Please mention Farmers Mail and Breeze.

Percheron and Belgian Sale.

Rudolph Schroadter, Emporia, Kan., will sell at the Pyle Barns, Emporia, Tuesday, February 16, some of the best imported and American bred stallions and mares that have ever been offered at auction in the state. Those who are looking for the best in Percheron and Belgian blood and conformation should arrange to attend this sale. It is true this is not a large sale in point of numbers, but it makes up for this in point of quality. Please read display advertising in this issue and be at Emporia, for bargains sale day, Tuesday, February 16.

Big Poland China Sows.

John Blough, Bushong, Kan., offers about 30 head of tried sows, fall yearing and spring gilts of strictly large type Poland China breeding. They are by such boars as Melbourne Jumbo's Equal, Exemption and Valley Coin and out of King Hutch, Exemption, Chief Price Again and Jumbo sows and all are bred for February, March and April litters to the splendid boar, A Great Orphan. These are the kinds that will please you if you want the big smooth kind and the prices are right. Call and look them over or write soon. Please mention Farmers Mail and Breeze.

Blackshere & Weaver's Sale.

Blackshere & Weaver, Elmdale, Kan., will sell their entire herd of 60 breeding Durocs at auction Saturday, February 20; all their great producing herd sows go in this sale, show herd and all. This, without doubt, will afford a rare opportunity to those wishing to purchase high class, registered Durocs. Over 50 head of this offering are now showing in pig to the herd boars, Big Chief, J. R.'s Chief and Model Bob. All three of these excellent herd boars go in the sale. Read the display advertising in this issue and send your name today for illustrated catalog, mentioning Farmers Mail and Breeze.

Shorthorns At Frankfort, Okla.

Levi Eckhardt, Winfield, Kan., wishes his customers to understand that his herd of breeding Shorthorns are most all located at his ranch on the Midland Valley Railroad at Frankfort, Okla., and that timid buyers need not fear any inconvenience on account of quarantine regularions. No commercial cattle of any kind have been handled on this ranch since last August and they are all in good condition and perfect health. Mr. Eckhardt some time since decided to sell out this good lot of breeding Shorthorns and those who visit this herd will find a nice lot of Shorthorns and at figures you will consider reasonable. Write or call mentioning Farmers Mail and Breeze.

Bred Sows and Gilts.

Olivier & Sons, Danville, Kan., can supply their customers with a splendid lot of bred sows and gilts. They have an unusually good herd of large type Poland Chinas that have been bred and fed for breeding purposes. They are in position to fill large or small orders and if you want bred sows or gilts of the big type kind do not fail to turn to their advertising and read it carefully. If you want to start in the hog business here is a good place to start. Get their prices, where you take six or more of these sows and gilts. Get on the train and go straight to Danville, Harper Co., Kansas, and buy six or eight of these good sows and gilts and go into the hog business right.

Percheron Sale at Wichita.

C. B. Warkentin, Newton, Kan., proprietor of Little River Stock Farm, Halstead, Kan., and C. F. Molzen, Newton, Kan., will hold a Percheron sale at Wichita, Kan., Thursday, March 4. The sale will be held in the new horse and mule sale pavilion opposite the exchange building, Wichita Stock Yards. There will be seld 33 head, consisting of 32 Percherons and one imported 6-year-old Belgian stallion, weighing 2100 pounds. The Percherons will consist of 16 stallions and 16 mares, ranging from weanlings to mature age, several that weigh a ton and others that will mature into the ton class. Ten head of the offering from Little River Stock Farm are by the good sire Oneida, a line bred Brilliant, whose get show bone, size and quality. Of the Molzen consignment, seven head are by and others are in foal to the imported stallion, Jacquemont, a highly bred individual, whose get must be seen to be fully appreciated. You cannot afford to miss this sale if you want good Percherons. Read the display advertising in this issue and write today for sale catalog. Address C. B. Warkentin, Newton, Kan. Please mention Farmers Mail and Breeze.

N. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

Ralph P. Wells, Formoso, Kan., is offering choice Duroc-Jersey bred sows and gilts at private sale. He has issued a private sale catalog and if you are interested write him for one.

J. R. Jackson, Kanopolis, Kan., has a lot of Duroc-Jersey bred sows and gilts for sale. Also some good last spring boars. Look up his advertisement in this issue and write him for prices.

J. D. Mahan's big dispersion sale of Poland Chinas is advertised in this issue of

LIVESTOCK AUCTIONEERS.

ANIMAL PHOTOGRAPHY and sketching; all kinds of farm animals. Write for prices. Harry Spurling, Taylorville, Ill.

John D. Snyder AUCT., successfully sells pure bred live stock, real estate and general sales. HUTCHINSON, KAN.

FLOYD CONDRAY, Stockdale, Kansas Livestock auctioneer. Write for open dates.

BOYD NEWCOM Wichita, Kansas. AUCTIONEER. Real Estate a Specialty. Write, wire or phone for dates

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.

Jas. T. McCulloch, Clay Center, Kan. Reference: The breeders I am selling for every year. Write for open dates.

WILL MYERS, Livestock Auctioneer BELOIT, KANSAS. Ask the breeders in North-Central Kansas. FOR DATES ADDRESS AS ABOVE.

RUGGELS & SON SALINA, KAN. BEVERLY, KAN. Livestock, Real Estate. Address either place.

JESSE HOWELL, HERKIMER, KAN. of Howell Bros., breeders of Durocs and Herefords can make you money on your next sale. Write for dates.

W. A. Fisher, White City, Kan. Livestock Auctioneer. Write or Phone for dates.

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages. Next 4 weeks term opens Apr. 5th, 1915. Are you coming?

MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres
818 Walnut St., Kansas City, Mo.

MULE FOOT HOGS.

Mule Foot Hogs All kinds for sale. Gilts sired by and bred to my first premium winning boars at Ohio and Indiana State fairs of 1913 and 1914. Some fine fall pigs in pairs not related. **Zene G. Hadley, Box C, Wilmington, Ohio**

BERKSHIRES.

Hazlewood's Berkshires Spring boars, bred gilts—immune: priced to sell. W. O. HAZLEWOOD, WICHITA, KANS.

Large English Berkshires 2 outstanding fall boars now ready for service, price $40.00 and $50.00 each. 20 head of spring boars at $25.00 to $40.00 each. 50 head of sows and gilts bred for spring litters, price $35.00 to $75.00 each. Address H. E. Conroy, Nortonville, Kan.

Walnut Breeding Farm BERKSHIRE boars and gilts, spring farrow, grandsons of Barron Duke 50th, Big Crusader and Masterpiece 77000 and out of Lord Premier sows, also an imported brod outstanding 2-year-old boar and a few good Hereford bull calves. Leon Waite, Winfield, Ks.

OUTSTANDING BERKSHIRES Priced to SELL Six spring boars ready to ship; two at $25 each; two at $35 each and two at $50 each. Also one of our herd boars, Ideal Centerpiece 178545 at $50. 15 sows and gilts and 30 pigs ready to ship. Buy early and save money. J. T. BAYER, YATES CENTER, KANSAS

Special Offering Sutton Farm Berkshires

125 head for sale, 10 service boars, 15 bred sows and gilts, 100 fancy spring pigs, at attractive prices. Write today.

SUTTON FARM LAWRENCE KANSAS

BERKSHIRES

Special offering of sows and gilts bred to Starlight Premier 6th and Rivaleer 130548. There will be quality and prices to suit all purses. Weanling fall pigs priced to sell. Write today.

KIESLER FARMS
A. J. McCauley, Perryville, Mo.

DUROC-JERSEYS.

DUROC GILTS bred and a fine lot of fall pigs at farmers prices. A. G. DORR, OSAGE CITY, KANSAS

IMMUNED DUROC-JERSEYS Best of blood lines. Big type. Plenty of all ages. Prices right. Guaranteed. MOSER & FITZWATER, GOFF, KANSAS.

DUROC JERSEY BRED GILTS Bred for March and April farrow to Van's Crimson Wonder and Dora's Climax. Also a few September male pigs. Prices reasonable. GARRETT BROS., Steele City, Nebr.

RICE COUNTY HERD DUROCS Spring and summer boars, 30 fine gilts and sows bred for March and April farrow. Good Enuff, Colonel, Crimson Wonder, Ohio Chief blood lines. Prices right, herd immune. Write today for prices and descriptions. G. M. SHEPHERD, LYONS, KANSAS

WOODDELL'S DUROCS Herd headed by Rex E. Nuff by Good E Nuff Again King and brother to Otey's Dream. Spring boars and gilts priced reasonable. Satisfaction guaranteed. G. B. WOODDELL, WINFIELD, KANSAS

DUROC-JERSEYS.

Durocs of Size and Quality

Immuned boars and bred gilts, all from large prolific stock. Band C's Col., Superba, Defender, Perfect Col., Good E Nuff Again King, and Olio Chief blood lines. Description guaranteed. **John A. Reed, Lyons, Kansas**

Immuned Boars and Sows

Twenty immuned Duroc-Jersey boars ready for service, $25 to $35 and up. 100 immuned sows bred to Buddy K 4th, Wide Awake, Cremo and others, $30 to $50 and up. Ready for immediate shipment. Geo. W. Sebesch, Clay Center, Nebr.

Hirschler's Durocs

Herd headed by Graduate King, by Graduate Col. Gilts by Tatarrax Chief and E. L.'s Col. bred to him; also a fine lot of spring boars, priced for quick sale. Write today.
E. L. HIRSCHLER, HALSTEAD, KAN.

Uneda Herd Unexcelled Durocs

March boars of excellent breeding, color and quality. Weight, 175 to 200 pounds and not fat. $30, $35 and $40. Choice Sept. boars $20 to $25. The Duroc Bulletin one year with each boar. Tyson Bros., McAllister, Kas.

IMMUNE DUROC SOWS For Sale

Duroc sows guaranteed in farrow and cholera immune. Shipped to you before you pay.
F. C. CROCKER, FILLEY, NEBR.

Get This Private Sale Catalog

Duroc-Jersey bred gilts. Choice spring gilts and a few fall gilts priced right. Get my prices. Write for my private sale catalog.
RALPH P. WELLS, FORMOSO, KANSAS

DUROC BRED GILTS PRIVATE SALE

Will not hold public sale and offer privately 25 choice yearling gilts, and 15 tops of spring crop. All sired by Royal Wonder and bred to Big Critic a richly bred 800 pound boar when mature. Every representation guaranteed.
D. S. COCHRAN, LINCOLN, NEBRASKA

Good E. Nuff Again King, Grand Champion

Crimson Wonder 4th, second, Kansas State Fair 1913. Otey's Cream, junior champion Kansas State Fair 1914. Herd boars and grand champion prospects for sale. W. W. OTEY & SONS, WINFIELD, KANS.

Howe's Bred Sows and Gilts

Immune spring gilts, fall yearlings and tried sows; extra good breeding. Bred for spring litters to Crimson Hero by Crimson Wonder 4th whose first six sires were grand champions. Prices reasonable.
J. U. HOWE, Route 2, WICHITA, KANSAS

Elm Creek Herd Durocs

A few extra good Duroc Jersey gilts, bred for March farrow. Also one good yearling boar.
J. O. Hunt, Marysville, Kansas.

50 BRED SOWS AT PRIVATE SALE.

20 tried sows 18 to 24 months old, 20 fall gilts and 20 spring gilts. All bred for spring farrow. Dreamland Col. heads my herd. A lot of choice spring and fall boars. Close prices on everything. Address, J. R. Jackson, Kanopolis, Kan. (Ellsworth Co.)

BANCROFT'S IMMUNE DUROCS

We hold no public sales; nothing but the best offered as breeding stock. Choice spring boars, also gilts, open or bred to order for spring farrow. Customers in 13 states, satisfied. Describe what you want. We have it.
D. O. BANCROFT, OSBORNE, KANSAS

IMMUNE Duroc-Jerseys

5 head of spring boars, 2 show boars. 30 spring gilts bred to Watson's Defender, a son of Defender. Satisfaction guaranteed.
R. C. WATSON, ALTOONA, KANSAS

IMMUNE BRED GILTS

Choice spring gilts by a grandson of both H Climax and the world's fair champion sow, Doty. All safe in pig to Wonder of Kansas by Crimson Wonder IV, and out of Lady Good E Nuff by the champion Good E Nuff Again King. If you want good gilts bred in the purple we have them marked down in price so any farmer or breeder can afford them. Write today
A. F. SIEGLINGER, PEABODY, KANSAS.

Private Boar Sale

Top boars from our 115 March and April Duroc-Jersey pigs. Nothing but choice ones priced. Extra size, best of breeding. Prices reasonable and satisfaction guaranteed.
HOWELL BROS.
Herkimer, Marshall Co., Kansas.

Big Bred Sow SALE
February 27

All boars fit to ship sold. Will sell a few bred gilts at private sale. Write for prices and my big bred sow sale catalog. Everything immune.
E. N. FARNHAM, HOPE, KANSAS
(Hillcrest Farm Durocs)

Maplewood Farm Durocs

We offer 40 bred sows at attractive prices. Big, well grown spring gilts. Best of breeding. Address,
MOTT & SEADORN, HERINGTON, KANSAS

the Farmers Mail and Breeze. Your attention is called to his advertisement and it is one of the real Poland China events of the season. Fifty-five head go in the sale. Mr. Mahan is closing out his herd and the 55 head are the actual tops of this good herd. Send bids to J. W. Johnson in care of Mr. Mahan.

This is the last call for J. M. Layton's Duroc-Jersey and O. I. C. bred sow sale which will be held at Irving, Kan., Tuesday, February 16. Forty bred sows will be sold—20 Duroc-Jerseys and 20 O. I. C.'s. It is a good offering and you better be on hand. Write today for catalog. Send your bids to J. W. Johnson in care of Mr. Layton at Irving, Kan. Mr. Layton will take good care of you if you attend his sale.

Alfred Carlson, Cleburne, Kan., sells 50 big boned, spotted Poland Chinas at his farm near Cleburne, Kan., Wednesday, Feb. 24th. His advertisement appears in the next issue of the Farmers Mail and Breeze. This is the strongest herd of big boned spotted Poland Chines in central Kansas. The foundation came from three prominent eastern herds. Watch for his advertisement next week and arrange to attend.

This is a last call for L. E. Klein's Poland China disperson sale at Manhattan, Kan., Tuesday, February 16th. The sale will be held as advertised in a sale pavilion near the Baltimore hotel. Breeders from a distance register there as guests of Mr. Klein. As has already been said this is an offering of the best of big type Poland China sows and spring gilts. Also two herd boars that have proved themselves the best of sires. Send bids to J. W. Johnson in care of Mr. Klein, general delivery, Manhattan, Kan.

J. D. Nutter, Morrowville, Kan., is dispersing his herd of Shorthorns Tuesday, February 23. The sale will be held in the sale pavilion at Washington, Kan. The offering is one of good useful cattle in their everyday clothes. They have not been fitted for a sale but will be sold just as they are in Mr. Nutter's yards. There will be 27 bred cows and heifers, five open heifers and eight young bulls. Look up the advertisement in this issue of the Farmers Mail and Breeze and write for catalog.

Price Brothers, Salina, Kan., offer three Mammoth jacks for sale and one registered Percheron stallion. The jacks and the Percheron stallion were in service in their breeding barns for the last two seasons and it will be an easy matter to convince anyone desiring to buy a jack or stallion of the worth of these animals. It is necessary to sell them as a change in business affairs is being made and you had better write them today for prices and descriptions. Mention the Farmers Mail and Breeze.

Joshua Morgan's sale of big type Poland China sows will be held at his farm near Hardy, Neb., and Republic, Kan. Come to either place and you will find accommodations for getting to the sale and back again in time for trains. Remember this is one of the great opportunities of the season to buy the big kind. 40 sows go in the sale. Send bids to J. W. Johnson in care of Joshua Morgan, Hardy, Neb., and they will be handled right. Remember it is next Monday. Wire bids if too late to reach there with a letter.

Thos. M. Willson, Lebanon, Kan., sells Poland China bred sows at his farm near Lebanon, Thursday, February 25. This is the day before the Smith County Breeders' association holds their combination sale at Smith Center, Kan. Mr. Willson is a member of this association but his offering was too large to consign so he is holding a sale of bred sows at the farm the day before the combination sale. Thirty-five sows will be sold and some high grade Polled Durham cows and heifers. Also a good Percheron stallion. Watch the Farmers Mail and Breeze for his advertisement, which appears in the next issue.

W. E. Epley, Diller, Neb., is holding his Poland China bred sow sale at Fairbury, Neb., in C. W. Smith's big sale pavilion this year to better accommodate his Kansas friends, who desire to attend. The railroad facilities to Fairbury are good from Kansas by way of Belleville. You can arrive in Belleville in good time for the sale and return in the evening connecting at Belleville for trains both east and west. Mr. Epley will sell 40 head of sows and gilts in this sale and it certainly is a great offering. Ask him for his catalog and arrange to attend his sale. Watch for his display advertisement which appears in the next issue of the Farmers Mail and Breeze.

In a recent fieldnote in which we mentioned D. E. Reber's Shorthorn cattle and Percheron horse dispersion at Morrill, Kan., on March 10, we said that Mr. Reber would sell Diamond Goods. This was an error as Mr. Reber does not own Diamond Goods, this great bull being the property of Bellows Brothers. Diamond Emblem is the bull for which Mr. Reber paid $1,095. He is included in the sale. Mr. Reber has no daughters of Choice Goods now, but grand daughters and great-granddaughters of this great sire will be included in the sale. You can ask him to book you for a catalog any time.

E. N. Farnham, Hope, Kan., sells Duroc-Jersey bred sows, 40 of them at Hope, Kan., Saturday, February 27th. This is indeed a choice offering of the best of breeding and gilts of splendid individual merit. A number of the best gilts in the sale was sired by Select Chief, the grand champion boar at several of the best state fairs last fall. Others are by Col. Harris, the champion boar in 1912. Everything has been immunized with the double treatment. The 40 sows are bred to four or five different herd boars for spring farrow. Write today for the catalog and arrange to attend the sale. Watch the next issue of the Farmers Mail and Breeze for his advertisement.

Harter's Big Sow Sale.

J. H. Harter, Westmoreland, Kan., sells 50 Poland China bred sows and gilts at the Agricultural college, Wednesday, February 17th. This is his regular annual sale and the writer knows whereof he speaks when he says this is the best offering by far that John Harter ever made and he has made some good ones as you know if you are up on Poland China events in Kansas. It is the first sale in the big Riley county Poland China bred sow sale circuit and will be held in the livestock judging pavilion at the college. You can attend the L. E. Klein

Herman Gronniger & Sons' Annual

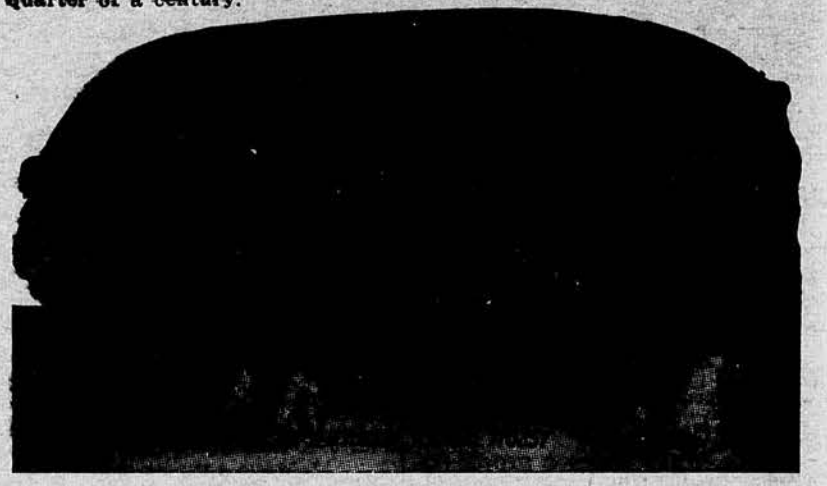
Poland China Bred Sow Sale

At the Farm 25 miles west of St. Joseph

Come to Denton on the Rock Island which is two miles from the farm or Severance on the Grand Island which is four miles from the farm. Free transportation from either place and free hotel accommodations at both places.

MONDAY, MARCH 1, 1915

This is the regular annual sale of big prolific Poland China bred sows made by this firm each winter. The offering they are making on the above date is remarkable in the size and quality which it combines. Herman Gronniger, the senior member of this firm has bred the larger type of Poland Chinas on this farm for more than a quarter of a century.



The last season's prize winning boar that was bought by the Gronnigers at the St. Joseph Stock Show where he won first in class. He also won in several other leading shows. Many of the best things in the sale are bred to him.

The offering numbers 51 head. There are nine tried sows, 15 fall yearlings and 27 spring gilts. The tried sows are by such boars as Look's Reserve by Great Look, Sampson Chief, Mammoth Hadley, Defensive, Pawnee Giant, Sampson Ex. 2nd, and bred to the best advantage to the different herd boars. There will be 15 fall gilts of unusual size and quality. They are by Tec. Ex., Knuckler's Rival and Defensive. The 25 spring gilts are exceptionally good and by the same boars as the fall gilts. All the gilts are bred for early spring farrow to the different herd boars. Attractions in the sale will be a March 4th gilt, by Long Jumbo out of Big Lady Wonder and bred to Futurity Recall, for a March litter. Also a choice gilt by Mabel's Wonder out of Long Prize Lady and bred to Futurity Recall. Futurity Recall is a strong acquisition to their already strong list of herd boars. Catalogs ready to mail. Address

HERMAN GRONNIGER & SONS, BENDENA, KAN.

Auctioneers: "Bob" Harriman, C. M. Scott, C. J. Foster. Fieldman, J. W. Johnson.

Circuit
Herman Gronniger & Sons, Bendena, Kan. ..... March 1
H. S. Walter, Effingham, Kan. ..... March 2
H. C. Graner, Lancaster, Kan. ..... March 3
U. S. Byrne, Saxton, Mo. ..... March 4

BIG TYPE UNPAMPERED BERKSHIRES

250 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetype, King's Truetype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Eighty bred sows and gilts to farrow soon. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, BURLINGTON, KANSAS.

Royal Scion Farm Durocs

The great Graduate Col., Gano's Pride, Cherry Scion and Graduate Scion head this herd. Bred sows and boar sale March 12th. Write for catalog.
G. C. NORMAN, Route 10, WINFIELD, KAN.

BALDWIN DUROCS

Fall boars $30. Long, growthy gilts $30, bred to "Bell The Boy," the undefeated first prize winner at the "Kan. State Fair" the "Tenn. State Fair" and the "Interstate Fair". Immune. Rose Comb Rhode Island Reds. Winners at big shows. 19 Incubators. Eggs $5 per 100. Baby Chicks 15c each. Call and see us.
R. W. Baldwin, CONWAY, McPherson Co., Kan.

REDS $2

THE GET OF CHAMPION BOARS

Duroc-Jersey spring boars and gilts sired by 800 and 1,000 lb. champion boars and out of one of the best herds of sows in Mo. Big boned, strong boars ready for service, $20 to $25; gilts bred to farrow in March, $25 to $35. Register papers furnished without extra charge. Send your check and get your money's worth. R. W. TAYLOR, Olean, Mo.

BONNIE VIEW STOCK FARM

For Sale: Tried sows and bred gilts by Tat-A-Walla and Jayhawk Crimson Wonder. Sows bred to Tat-A-Walla and, gilts bred to A Critic.
SEARLE & COTTLE, BERRYTON, KANSAS

CAMPBELL'S DUROCS

A few yearling sows, also spring pigs—the handsome, stretchy kind. Ohio Chief, Col. and Model Top blood lines. Can ship via Rock Island or Santa Fe. Satisfaction guaranteed.
A. T. CAMPBELL, MARION, KANSAS

Durocs Priced to Sell

60 Head

20 Bred Sows and Gilts
20 Choice Spring Boars
10 Handsome June Gilts
10 Fancy June Boars

They are most all by or out of sows by Tattler, by the champion Tatarrax, Smith Graduate, a grandson of the famous Graduate Col., and Gold Medal, a grandson of Crimson Wonder 4th. The sows and gilts are safe in pig to C. J.'s Col., by Col. Harris. They are the kind that farrow and raise large litters. The spring boars include both the rugged, stock-farmer kind and the kind suited to the breeder. The June boars and gilts have unusual quality. These hogs are fashionably bred, good boned, good colored, handsome headed and the type that will please you.

No Public Sale I prefer to give my customers the benefit of what a sale would cost. These 60 hogs must sell the next 60 days. Special Reduction on Six or More. Come to the farm on interurban R. R., near Newton, Kan., and let me help you select. If you cannot come write me exactly what you want. Yours for quick business.

J. R. SMITH, Newton, Kansas

dispersion sale in Manhattan the day before and the J. L. Griffiths sale at Riley the day following. Remember this is the big Riley county circuit and all the breeders interested are well known big type breeders and all the offering are first class. Free hotel accommodations and all of the sales but one held in town. 250 sows on this circuit. Send bids to J. W. or J. R. Johnson in care of Mr. Harter, general delivery, Manhattan, Kan.

Dairy Cattle Sale.

Mrs. R. E. Hersey & Sons, of Abilene, Kan., will sell dairy cattle on February 25th. The offering will include 28 head of high grade Holsteins and Jerseys. Of the Holsteins there will be eight cows, three springing heifers, eight open heifers, two grade bull calves and one registered bull 7 months old. Of the Jerseys there are four cows and two heifers. All this offering is choice milk stock suitable for the foundation of a good dairy herd. Write for free descriptive list and mention Farmers Mail and Breeze.

High Class Angus Cattle.

Bartlett & Coolbough, Stockton, Kan., are dispersing their great herd of Angus cattle at their ranch near Stockton, Kan. This is very likely the most important sale of Angus cattle ever held in north central Kansas. 85 head of bulls, cows and heifers will be sold. Also 40 head of high grade yearling and two-year-old heifers and steers. There will be 16 bulls of serviceable ages. They represent the most popular families and it is a rare chance for anyone looking for Angus breeding cattle. Bartlett & Coolbough are identified with the cattle industry in Kansas and are men of sterling character. They will offer nothing for breeding purposes that is not right in every way. Write them today for a catalog and arrange to attend their big sale. Mention the Farmers Mail and Breeze when you write. Look up their advertisement in the issue of the Farmers Mail and Breeze.

Albert's Dispersion Sale.

In this issue will be found the advertisement of C. P. Albert's big dispersion sale of registered Percheron horses, registered Standard bred horses and registered Shorthorn cattle. The sale is a big clean up sale. It is a high class offering of both registered and high grade stock. There will be one 6-year-old jack that is a good breeder. All of the farm machinery and implements wil be sold. Mr. Albert is one of the well to do and popular farmers and breeders of Mitchell county and is retiring from the farm. He has been a good buyer at leading Percheron sales and has always been a successful exhibitor at the big Mitchell county fair. Write him today for his catalog and arrange to attend the sale which will be held at the farm, four miles south of Glen Elder, (Mitchell county) Kansas, and two miles west. Mention the Farmers Mail and Breeze when you write.

Swingle's Poland Sow Sale.

A. J. Swingle, Leonardville, Kan., holds the third position in the big Riley County Poland China bred sow sale circuit. He will come to the Griffiths sale which is the day before and take everyone to his own hotel in Leonardville the evening of the Griffiths sale. His sale will be held at his farm joining Leonardville and he is selling 38 head. The fall gilts, of which there are about 15, will prove as choice young sows as ever went into a sale ring. The entire offering is good and most of it was sired by Gritter's Surprise and Big Orange Again, the two great sires that made his last bred sow sale one of attractions. The offering is an unusually strong one and you will be more than pleased with it. Good connections will be made from Leonardville for Mr. Arkell's sale at Junction City by way of Clay Center. If you can't come send bids to J. W. or J. R. Johnson in care of Mr Swingle, Leonardville, Kan.

Combination Stock Sale.

The Smith County Breeders' association combination sale of registered stock will be held in the sale pavilion at the fair grounds, Smith Center, Kan., Friday, February 26. About 75 registered animals will be sold and everything is being consigned by members of the association. C. A. Cowan, Athol, Kan., consigns Poland China bred sows and Shorthorn cattle. His herd is one of the best herds in central Kansas. H. J. Danneberg, Gaylord, Kan., and H. L. Abercromble of the same place and S. D. Seevers of Smith Center consign Hereford bulls and J. H. Duston, Cedar, Kan., consigns Guernsey bulls. R. H. Gedney and Mr. Hammond, both of Gaylord, sell registered Percheron colts. Lambert Brothers, Smith Center, are well known Poland China breeders and are the principal consignors of Polands. They offer 35 choice bred sows. A few Holsteins will be sold. The sale will be conducted by the officers of the association. For a catalog which is now ready address W. H. Lewis, secretary, Smith Center, Kan.

Bred Sows At Auction.

J. L. Griffiths, Riley, Kan., holds second position in the big Riley County Poland China bred sow sale circuit and sells the day following J. H. Harter's sale at the Agricultural college. Riley is only 18 miles from Manhattan and you can go to Riley after supper from the Harter sale and Mr. Griffiths has arranged for good hotel accommodations for you in Riley. He will take you out to his farm the next day where the sale will be held in a big tent and where you will have a fine dinner at Mr. Griffiths's home. That evening Mr. Swingle will take you to his own hotel in Leonardville where you will be well cared for. Mr. Griffiths sells 50 sows, 20 fall gilts and 25 spring gilts and all by that great sire, King of Kansas. A big per cent of them is bred to Long Jumbo Jr. The offering is one of the best ever made in northern Kansas and is not overfitted but in splendid breeding condition. Come to Manhattan and on to Riley and be at Mr. Griffiths's sale. If you can't come send bids to J. W. or J. R. Johnson of the Capper Papers in care of Mr. Griffiths.

Arkell's Big Sow Sale.

Jas. Arkell, Junction City, Kan., holds the fourth and last position in the big Riley County Poland China bred sow sale circuit. He sells in Junction City in a nice warm pavilion on Saturday, February 20th. You can come to his sale from Mr. Swingle's sale at Leonardville the day before with very little expense and make the best of connections out of Junction City, Saturday night for

POLAND CHINAS.

SMUGGLER GILTS bred to KING HADLEY for early spring farrow. J. B. MYERS, Galva, Kansas.

Sam Herren, Penokee, Kas.
Booking spring pigs sired by my great young boar by old A Wonder and out of the great sow Lady Major.

I HAVE SOME FALL PIGS for sale at a bargain. Priced to sell. Sired by my blue ribbon, reserve champion and grand champio boars W. Z. BAKER, RICH HILL, MISSOURI

Poland China Bred Sows, Norton, Kan., Feb. 13.
40 sows and gilts. A few choice spring boars at private sale. J. F. Foley, Oronoque, Kan. (Norton Co.)

Poland Chinas with size and quality herd boars King Hadley, Chief Giant and Long Look. Cholera immune. Stock for sale. LAMBERT BROS., SMITH CENTER, KAN.

SPECIAL BOAR BARGAINS
15 yearling and spring boars for sale, sired by Cavett's Mastiff by King Mastiff and Sterling by Brookside, by Hadley. $20.00 to $30.00 to move them quick.
A. L. ALBRIGHT, WATERVILLE, KANSAS

Strauss' Big Poland Chinas
Six last fall boars and 18 spring boars by Model Wonder (900 pounds) and Blue Valley Chief by Blue Valley. Write me your wants.
O. R. STRAUSS, MILFORD, KANSAS

Klein's Big POLANDS
Two herd boars at attractive prices. I will hold my bred sow sale on Feb. 16th at Manhattan on Poyntz Ave., in pavilion. Write for catalog. L. E. KLEIN, ZEANDALE, KAN.

POLAND CHINAS
BIG TYPE, PEDIGREED BRED SOWS
Boars, Fall pigs. Shipped on approval.
DAVIS BROS, Box 12, LINCOLN, NEBR

Gephart—Long King
A few choice spring boars at attractive prices. I will sell 50 bred sows and gilts at the Agricultural College, Feb. 17. I start the big Riley County circuit. Write to day for my catalog. J. H. HARTER, Westmoreland, Kansas.

Fairview Herd Poland Chinas
Choice Fall Yearling and Spring Gilts, bred for March and April farrow, offered at prices to sell quickly. Write us for guaranteed descriptions.
P. L. WARE & SON, PAOLA, KANSAS

SHEEHY'S BIG IMMUNE POLAND CHINAS.
Fine big gilts bred to farrow early; some fine big stretchy fall boars and gilts, extra good and priced to sell. E. D. SHEEHY, HUME, MISSOURI

Blough's Big Poland
Big, growthy spring gilts, safe in pig to the splendid sires, Valley Coin or a Great Orphan. And at prices we can both afford.
JOHN BLOUGH, BUSHONG, KANSAS

Poland China Boars
March and April farrow. Also a few choice fall yearlings. These are actual tops and for sale at reasonable prices. Strictly Big Type. Gilts reserved for bred sow sale.
JAS. ARKELL, Route 4, Junction City, Kansas

Axlines' Big Type POLAND CHINAS
Choice gilts bred for April and May farrow to a big strong Chief Mastiff boar, out of a Price Again dam. Prices reasonable. Write to
J. E. AXLINE, WELLSVILLE, KANSAS, or E. E. AXLINE, INDEPENDENCE, MISSOURI

Geo. Bingham
Bradford, Kan. (A Pioneer Iowa Herd)
50 strictly big type Poland China sows and gilts at private sale. Inspection desired. Prices and descriptions by return mail. Address GEO. BINGHAM, BRADFORD, KAN. (Wabaunsee County).

POLAND CHINAS.

King of Kansas Bred Sow Sale
20 fall and 20 spring gilts sired by the above great boar. Five choice proven brood sows bred to King of Kansas. A big percent of the gilts bred to Long Jumbo Jr. Write to day for catalog. J. L. GRIFFITHS, RILEY, KANSAS

Becker's POLAND CHINAS
Spring gilts, Hadley, Expansion, Mastodon, and other leading strains and safe in pig to Orphan Boy, by Orphan Chief. Fall pigs, pairs and trios, by Orphan Boy and Hadley's Wonder, a grandson of A Wonder.
J. H. BECKER, NEWTON, KANSAS

POLAND CHINAS.

Big Spotted Poland Chinas
50 Big Spotted Poland China sows and gilts in my Feb. 24 bred sow sale. I want you to come. Write today for Catalog. The Farmers Kind.
Alfred Carlson, Cleburne, Kan.

ENOS' Big Type POLANDS
25 head of my top sows and gilts for sale, bred to two great boars, Orphan Chief and Mastodan King, a great young boar. Three July boars that are strictly herd headers by Orphan Chief. A. R. ENOS, Ramona, Kan.

DOOLEY'S SPOTTED POLANDS
Etterville Breeding Farm, home of the old original spotted Poland Chinas. I am selling spring pigs, either sex, sired by five of the biggest and best spotted boars of the breed. Pairs and trios not related. Get your order in early as they are going fast. Over 100 head to select from.
EDGAR DOOLEY, EUGENE, MISSOURI

LOOKABAUGH POLAND CHINAS
600 Head. Best of Large Type Breeding.
A Wonder, Hadley, Designor, Long King and other noted blood lines.
ANY FARMER CAN AFFORD ONE **100 SPRING BOARS**
They grow big and mature early and will breed just that way for you. Why not have a crop of pigs next spring that, not only will look good, but make hogs big enough to ship out next fall before the weather gets cold. I want to sell 50 of these boars to farmers the next 30 days and when your pigs arrive if you are not satisfied you have made a good buy I will refund your money cheerfully. But you must do business quickly if you get one of these good boars. Also bred sows and gilts.

H. C. LOOKABAUGH, Watonga, Oklahoma

HOGS! HOGS!! HOGS!!!
Big Type Poland Chinas
Every hog shipped on approval. Time if desired.
60 Head Must Sell, Next 30 Days

King of All Wonders
To make room for our spring crop of pigs we are making special prices on tried sows, fall yearling and spring gilts, also a few good young boars. They carry the blood of such noted sires as Blue Valley Quality, Blue Valley Hutch, Blue Valley Price, Giant Expansion, Expansion, Big Orange, Revenue Chief and other large type sires of note. Most of these sows and gilts are safe in pig to King of All Wonders and A Wonderful King, two wonderful stretchy sons of King of All and out of Lady Jumbo 4th, No. 1 in the Lawson sale catalog and said by several to be perhaps the best sow A Wonder ever sired. They are the kind that are bred to produce both size and quality. Others are in pig to Logan Price, a show prospect of great size and quality.
Start In The Hog Business Now
Special prices will be made to parties buying several head. They have been fed and bred for breeding purposes and we guarantee every hog sold. Come and get first choice. Farm near town. Write, wire or phone us when to meet you. Yours for quick business.
OLIVIER & SONS, Danville, Harper Co., Kans.

J. D. Mahan's Dispersion Sale of Big Type Poland Chinas
Whiting, Kansas, Tuesday, February 23
55 Head Of The Best—55
The offering is the tops and cream of one of the strong herds of Big Type Poland China herds of the West. There will be 20 tried sows representing such boars as **Expansion Look, Moore's Halvor, Hadley Golddust, Referendum, Big Hadley's Likeness and Jumbo Jr.** These sows are bred to **King John, Expansion Look** and **John Halvor.** There are 14 yearling gilts sired by **Expansion Look, King John, Moore's Halvor** and **Expansion Look.** There is also 20 spring gilts. The 34 fall and spring gilts are bred to **John Halvor.** Also 40 last fall pigs about half of each sex that are great. Mr. Mahan is closing out his herd and is putting in all of the tops. No reservations. Get his catalog and be convinced that it is one of the really great offerings of the season. The sale will be held in a big tent. Free hotel accommodations for breeders from a distance. Ask him for the catalog today. Write today and address,
J. D. MAHAN, WHITING, KANSAS
Send bids to J. W. Johnson of the Farmers Mail and Breeze in care of Mr. Mahan.

POLAND CHINAS.

Erhart's Big Type Polands

25 head of our top sows and gilts for sale, bred to four of the greatest big type Poland China boars in use today including Robidoux, a 1200 lb hog; also fall pigs from Orphan Big Gun, Big Hadley, Mr. and Big Giant, at $20 each; three for $45.00; a few Robidoux fall males at $25 each for quick shipment.

A. J. Erhart & Sons, Ness City, Kan.

HAMPSHIRES.

REGISTERED HAMPSHIRES 150 gilts and boars, all ages. Cholera immuned. Description guaranteed. C. E. LOWRY, Oxford, Kan.

HAMPSHIRES Best of blood lines, well marked pigs, pairs or trios, with young boar to mate gilts. Breeding stock at all times for sale. Satisfaction guaranteed. S. E. SMITH, LYONS, KANSAS.

For Hampshire Hogs, Dutch Belted Cattle, Arab Stallion COLLIE DOGS AND GEESE FEATHERS. WRITE C. W. WEISENBALM ALTAMONT, KANSAS.

SUNNY SLOPE FARM

HAMPSHIRES

Pure bred, registered, well-belted, growthy, vigorous and immune Hampshire Hogs. I guarantee to please you or adjust any difference to your complete satisfaction.

FRANK M. PARKS, Olathe, Kansas

O. I. C. HOGS.

O. I. C. BRED SOWS and gilts. Priced right. Elmer R. King, Hesston, Kan.

Choice O. I. C. BRED GILTS and TRIED SOWS HENRY KAMPING, ELSMORE, KANS.

Coon Creek O. I. C. Herd

32 Sept. pigs, both sexes, spring boars and gilts, and choice brood sows for sale. A. G. Cook, Luray, Kan.

SunnySide Herd O.I.C.

80 Spring pigs both sex, pairs and trios not related, best of breeding, priced right. W. H. Lynch, Reading, Kan.

Grandview Stock Farm

25 O. I. C., March and April, boars and gilts. Special prices for the next thirty days. ANDREW KOSAR, Delphos, Kan.

O. I. C. BRED SOWS and GILTS

A few tried sows and gilts bred for spring farrow; boars ready for service, pairs and trios not related. Best I ever offered. Very reasonable prices.

JOHN H. NEEF, BOONVILLE, MISSOURI

MAPLE GROVE O. I. C's.

Pigs farrowed first part of November, $10.00. September pigs $12.50 each. Bred gilts $22.50 to $25.00. Bred sows $35.00 each. 5% off on all orders for two or more animals. Will have lots of extra good pigs coming between now and next April. Am booking orders now. Write me your wants. Satisfaction guaranteed.

F. J. GREINER, BILLINGS, MISSOURI

POLLED DURHAMS.

Good Enough X8933

3 years old; also registered black Percheron stallion, a sure foal getter. T. M. WILSON, LEBANON, KANS.

Double Standard Polled DURHAMS

Six yearling bulls. A number of under yearling bulls. 2 good French draft stallions and some jacks. C. M. HOWARD, Hammond, Ks.

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED CATTLE

Choice bulls, cows and heifers for sale. Best of breeding. Write or better come and see CHARLES MORRISON & SON, Phillipsburg, Kan.

RED POLLED CATTLE

BEST of BLOOD LINES and cattle that will please you. Cows, heifers and young bulls, at attractive prices. I. W. POULTON, MEDORA, KAN.

ABERDEEN-ANGUS.

FROM WORKMAN RUSSELL, KANS

Aberdeen Angus Cattle
DUROC HOGS
Johnson Workman, Russell, Kan.

ANGUS CATTLE

I will sell my herd bull Rutger Heatherson 3rd, 118104 and eight coming yearling bulls; also some females, open and bred. My herd consists of animals of the best breeding, strong in the blood of the Blackbirds, Queen Mothers, Bruce Hills, Heatherblooms and Lady Jeans.

W. G. Denton, Denton, Kansas

HEREFORDS.

Sedlacek Herefords

I offer a few herd and range bulls. Maple Lad 34th 397607 by the International champion Bonnie Brae 8th in service. Write your wants. J. F. SEDLACEK, Blue Rapids, Kan.

almost any point. Chief Big Bone and Longfellow Again are the big factors in making this sale attractive. Chief Big Bone is the great sire bought by Mr. Arkell last sumer from the Cedar Bank Herd owned by Tom Miller at York, Neb. He is one of the real outstanding good ones, both individually and as a sire. A good per cent of the offering is bred to him. Mr. Arkell is putting in this sale an unusually fine lot of tried sows, fall gilts and spring gilts. They are well grown and have size and quality. Bred as they are to the great boar mentioned they certainly are attractions. Mr. Arkell has provided good hotel accommodations which are free to visiting breeders. Go with the crowd from Mr. Swingle's sale and we will guarantee you are pleased.

Cole's Percheron Dispersion Sale.

This is the last call for Mitchell County's great Percheron sale, which is the F. A. Cole dispersion with consignments from other Mitchell county Percheron breeders. The sale is one of the best ever made in Mitchell county and three international prize winning Percherons are included. Look up the advertisement in this issue. McDuff and the two international prize winning mares featured in the advertising should prove attractions and bring Percheron breeders from all over the country. J. R. Albert, Glen Elder, Kan., is consigning a choice young stallion. R. G. McKinnie, a stallion coming three years old. Winnefred Johnson is putting in a choice three-year-old filley, by Carnot. Many of the young stallions in the Cole dispersion are by the great McDuff. One of the young mares is by Calypso. Mr. Cole's herd of Percherons has always been considered one of the very best in the West. The stallion McDuff has paid for himself over and over again in the hands of Mr. Cole. He is one of the most popular stallions ever owned in Mitchell county. Ask for the catalog today and arrange to attend the sale which will be held in the pavilion at the fair grounds, Beloit, Kan.

Lee's Percherons at Manhattan.

Lee Brothers, Harveyville, Kan., will sell 45 registered Percherons from their Blue Ribbon Stock Farm on March 2. This is their third sale at Manhattan and as usual it will be held in the livestock judging pavilion at the Agricultural college. In this sale, which is very likely the g reatest sale they have ever attempted to make, they will sell 20 mares bred to Scipion, the great imported grand champion, at the head of their Blue Ribbon herd. There will also be young stallions and mares by him and in fact their entire show herd will go in this sale with the exception of Scipion and two of his sons that will go in their show herd at San Francisco next summer. Lee Brothers have an enviable reputation in the public sale business. Everything that goes in the sale will sell and nothing is included in the sale offering that is not desirable. They are Kansas boys who have built up one of the most successful Percheron herds in the West. They are taking lots of pride in the offering which they are making at the Agricultural college on the above date and those who attend will have the opportunity of buying the best and from a reliable and progressive firm of Percheron breeders and importers. Write them for their catalog today and mention the Farmers Mail and Breeze when you write. Look up their big display advertisement in this issue of the Farmers Mail and Breeze.

Graner's Annual Sow Sale.

H. C. Graner, Lancaster, Kan., will hold his annual Poland China bred sow sale at his farm near Lancaster, (Atchison county) Wednesday, March 3. He is selling in the big circuit which Herman Gronniger & Sons start at their farm near Bendena on March 1. H. B. Walter sells on the day following at his farm near Effingham, H. C. Graner the day following, and U. S. Byrne at Saxton, Mo., on the 4th. The offering which Mr. Graner is making on the above date is one of the best offerings of the season. The 10 tried sows in this sale are attractions of the highest quality both as producing sows and as individuals of up to date breeding. They are by such boars as Moore's Halvor, Long King's Best, Big Price, a herd boar in use in Tom Miller's herd at York, Neb., O. K. Lad and others. They are tried sows that have proven their worth as producers and last season raised an average of over eight pigs to the sow. They are bred to Moore's Halvor, Long King's Best and A Wonder's Equal, by old A Wonder. There are several attractions in the sale and one of them is the top gilt in U. S. Byrne's last fall sale. She is bred to Mabel's Wonder Jr. The entire offering is one of real attractions and it has been handled with care and its future usefulness is well assured. Henry Graner is one of the best farmers and stockmen in Atchison county and is a believer in purebred stock of all kinds. You will be taken good care of at the hotel in Lancaster and at Mr. Graner's home if you attend his sale. Write today for his catalog and mention the Farmers Mail and Breeze when you write.

The Gronniger Sale.

In this issue will be found the advertisement of Herman Gronniger & Sons, Bendena, Kan. They are advertising their regular annual Poland China bred sow sale and are selling in a big circuit with their sale opening the circuit at their farm near Bendena on Monday, March 1, at which time they will sell 51 head of sows and gilts. H. B. Walter at Effingham sells on Tuesday, the 2d, H. C. Graner at Lancaster on Wednesday, the 3d, and U. S. Byrne at Saxton, Mo., who closes the circuit on the 4th. The 51 sows and gilts that make up the Gronnigers' offering is one of the very best offerings ever made in northeastern Kansas. The nine tried sows in the sale are 2 and 3 years old and are real values in any breeder's herd. They represent some of the best breeding in Iowa, Nebraska and Kansas and are bred to one or the other of the great sires in this firm's great herd. The 15 fall gilts are by Exaulter's Rival, Tec. Ex., and Big Look, all herd boars owned in this herd. The 27 spring gilts are by the same boars. Tecumseh Ex. is one of the real good breeding boars owned in northeastern Kansas. He was sired by Expansive and was the sire of the $100 boar bought by Walter Hildwein in their last fall sale. Futurity Rexall is a boar bought by this firm at the St. Joe stock show last fall where he won first in class. He was the property of Mr. Meese of Ord, Neb., and later at Lincoln, Neb., won first in the open show, first in the futurity show and was junior champion pig. He was shown at other shows, including Springfield, Ill., where he was first as junior boar

Lookabaugh's Shorthorns

More and better Shorthorns for my customers than ever before. $20,000 worth of pure bred Registered Shorthorns to sell the next 60 days. $1000 properly invested in these cattle will make you rich. Come early and get your pick; we pay your car fare home if you do not buy.

Foundation stock that carry the blood of the very best Scotch families.

2 heifers and a bull — milking strain, not related —$250.

2 fresh milk cows, calf at foot and rebred—milking strain—$350.

THE FARMER'S COW

Strong in the blood of the most noted sires of the breed.

8 head of heifers, milking strain and Scotch herd bull all for $1,000.

A car load of rugged young bulls, $100 to $150 each.

A WORD TO MR. BREEDER

It is easy to increase the value of every Shorthorn you raise from $10 to $30, simply by using a better breeding bull. Stop and figure what this means even on the first crop of calves, whether you have 5 or 50 breeding cows and heifers in your herd. I have never before had such splendid herd bull material from which to select. I want to place these bulls where they will do the most good. The success of those who buy these herd bulls will prove more than all my prize winning and show ring honors my ability as a breeder. Come and see them, you will say with others they are the greatest bunch of herd header material you ever saw on any farm.

CALL ON OR WRITE

H. C. Lookabaugh, Watonga, Okla.

ECKHARDT'S SHORTHORNS

OVER 100 HEAD From Which To Select

The breeding females are located on Midland Valley Railroad at Frankfort, Okla. No commercial cattle or cattle of any kind have been handled to this ranch since August and they are all in good condition and perfect health. Many of these cows and heifers are dropping calves and are due to calve the next 60 days to the great breeding bull, Rosewood Dale, a good son of the champion, Avondale.

COME TO FRANKFORT, OKLAHOMA

but wire, phone or write me at Winfield, Kan., when to meet you. We have raised these cattle and know what they are. They are strong in the blood of milking strain Shorthorns. They are the kind that will please you.

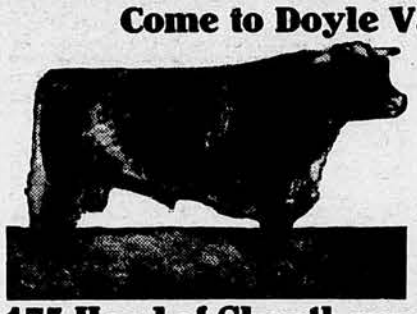
SPECIAL PRICES ARE BEING MADE

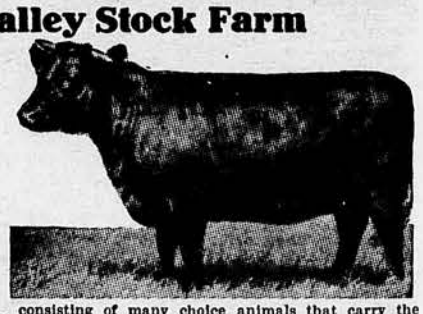
on choice young heifers and bulls eight and twenty months old to those who buy in lots of four or more. These are attractive Shorthorns and priced at right prices. Address

Levi Eckhardt, 1203 E. 10th St., Winfield, Kas.

Reduction Sale of Shorthorns

Come to Doyle Valley Stock Farm





175 Head of Shorthorns consisting of many choice animals that carry the blood of noted sires and fashionable families. Built up from foundation stock purchased from the best breeders of the Southwest.

50 HEAD MUST SELL IN 60 DAYS. Here Is the Bargain Counter for the man who expects to start in the Shorthorn business. All Kinds of Shorthorn Breeding Stock from which to select— Cows, Heifers and Bulls, cows with calf at side others due to calve soon. Included are grandsons and daughters of such sires as Avondale, Prince Oderic and other noted sires. If you want Shorthorns come now. Write, wire or phone me when to meet you at Peabody either Rock Island or Santa Fe Depot.

Yours for business,

M. S. CONVERSE, Peabody, Kansas

HIGH GRADE and REGISTERED

HOLSTEINS

OVER 100 HEAD OF COWS, HEIFERS AND BULLS.

The silo and dairy cow are here to stay. There is big money and sure profit in the dairy farm if you use the right kind of cows. The Holstein has proven her worth in the North and East and is sure to take the lead in the southwest. Visitors welcome; call or write today.

Clyde Girod, Towanda, Kansas

HOLSTEINS Herd headed by Sir Julianna Grace's DeKol. Dam one year, semi-official, milk 22087 pounds; Dam one year, semi-official, butter 924 pounds. Sire's dam one year, semi-official, 1026 pounds butter, as a three-year-old (world's record) and over 3,000 pounds butter in three years (world's record). We will let this great bull to a few good cows this season at $25.00. We have several young bulls for sale. Write for particulars to

SHULTHIS, ROBINSON & SHULTZ, (Owners), Independence, Kas.

GALLOWAYS.

Registered Galloways
250 in herd. 40 bulls from 5 to 18 months, sired by the 2200 lb. Carnot. Imp. breeding. W. W. DUNHAM, Doniphan, (Hall County), Nebraska.

CAPITAL VIEW GALLOWAYS
Bulls from 6 months to 2 years; also a few females of modern and quick maturing type.
G. E. Clark, Topeka, Kan.

DAIRY CATTLE.

HOLSTEINS —CHOICE BULL CALVES
H. B. COWLES, TOPEKA, KANSAS.

Higginbotham's Holsteins
Registered Holstein bulls for sale, from a month old up to two years old, many of them from A. R. O. Dams. They are priced so they sell readily. If you need a bull see ours before you buy.
HIGGINBOTHAM BROS., Rossville, Kansas.

Sunflower Herd Registered Holsteins
A number of choice young bulls all from A. R. O. dams and from proven sires and grandsires. (A good bull is a profitable investment, a cheap bull will prove a disappointment.) Buy a good one from
F. J. SEARLE, OSKALOOSA, KANSAS

Linscott JERSEYS
Premier Register of Merit Herd Est. 1878. Bulls of Reg. of Merit, Imported, Prize Winning stock. Most fashionable breeding, best individuality. Also cows and heifers. Prices moderate.
R. J. LINSCOTT, HOLTON, KANSAS

Holstein Herd Material
Choice Bull Calves: Serviceable Bulls; and Females:
Herd headed by Wauseons King Korndyke, a grand-son of Pontiac Korndyke, that sired 102 A. R. O. daughters.
T. M. EWING INDEPENDENCE, KAN.

SOMMER--BLADS
GUERNSEYS!
TUBERCULIN TESTED.
Some matured cows and young bulls by Chief Glenwood Boy of Haddon, Penwyn 2d and Flash of Fenmore (A. R. 55). Address
ERNEST KENYON, Nortonville, Kansas

GUERNSEYS
I have one very choice Guernsey bull of serviceable age, out of imported sire and dam; also one six-months' old bull—very choice.
OVERLAND GUERNSEY FARM,
OVERLAND PARK, KANSAS

SHORTHORNS.

17 SCOTCH TOPPED BULLS
9 yearlings past and 8 yearlings. Big, strong, rugged bulls, mostly by Victor Archer. Reds and roans. Write today for descriptions and prices WILL GRANER, Lancaster, Kan.

SHORTHORN BULLS
4 Shorthorn bulls, 9 months old, white and roans, sired by Golden Cruickshank, pure Scotch. From the same family as Lavender Lord, by Avondale.
C. E. HILL, TORONTO, KANSAS

Shorthorns Priced to Sell
A nice lot of Scotch and Scotch topped bulls 8 to 20 months old: also cows and heifers safe in calf. These cattle can be bought so they will make you a good profit. Do not wait, first come, first served.
H. C. Stephenson
CLEMENTS, (CHASE CO.) KANSAS

SHORTHORNS
Choice Young Herd Bulls 10 to 14 months old.
A few Choice Young Heifers.
Some Cows close to calving.
Everything guaranteed free from tuberculosis, or any other contagious disease. Prices very reasonable.
C. H. White, Burlington, Kan.

SCOTCH and SCOTCH TOP BULLS
Four bulls; one yearling and three 8-months-old calves. Two pure Scotch, one Orange Blossom and one Brawith Bud. Also three or four choice yearling heifers. All by Secret's Sultan. Priced to sell.
S. B. AMCOATS, CLAY CENTER, KAN.

Pearl Herd Shorthorns
Valiant 346162 and Marengo's Pearl 391962 in service on herd. Choice early spring bulls by Valiant for sale. Thrifty and good prospects. Scotch and Scotch Topped. Correspondence and inspection invited.
C. W. Taylor
Abilene, Kansas

pig. A nice lot of the best things in this sale are bred to this young fellow. Melbourne, Jumbo, Exaulter's Rival, G.'s Defender, and Big Wonder are other herd boars in this herd that are factors in this sale. Their catalog which is now ready to mail gives all the information about breeding and the offering generally. Write for it today and mention the Farmers Mail and Breeze.

N. Missouri, Iowa and Illinois

BY ED. R. DORSEY.

A. Latimer Wilson, Importer, Creston, Iowa, writes that he predicts good draft geldings, 1,250 to 1,500 pounds to sell in April much higher than in the history of this country because over 200,000 artillery chunks of this kind have already gone to war and if they can be bought, fully 200,000 more will go to war by May 1. Most of these artillery horses must be replaced by other horses. The large number of cavalry horses that have gone to the allies does not affect the market because we had a surplus of them. But we have no surplus of good chunks and he predicts much higher prices on these chunks. See Mr. Wilson's ad in this issue.

Boyd's Duroc Sow Sale.

Col. C. C. Boyd of Centralia, Mo., will hold his annual Duroc bred sow sale Thursday, February 25. The colonel is selling 40 sows, seven open and 33 bred, also six extra summer males, to give a variety for the buyers. He has engaged Col. P. M. Gross, formerly of St. Louis, but now located in Macon, Mo., to do the selling. We expect buyers from considerable distance as there are no better bred herds than this one. At the head of this herd is Select Col. 2d 118209, sired by the great prize winner of Kentucky, Indiana, Ohio, Illinois and Iowa, B. & C.'s Col., out of Bell of Crimson, by Crimson Wonder Again. He is assisted by the state fair champion C. C.'s Col., by the champion Chief of Cols., out of Anna Stroud, by Muncy Chief, by Ohio Chief. The third herd hog is by Cherry Chief, one of the best known hogs of the breed. He is by Ohio Chief. The fourth hog is C. C.'s Top Col., by C. J. Top Col., he by Morton's Top Col., out of King Lady, by Highland King. The sows in this sale are all in pig by the four herd hogs and are sired by or out of daughters of such hogs as C. C.'s Col., Select Col. 2d, Boyd's Cherry Chief, Beauty's Model Top, C. & C.'s Valley Chief, Fancy Col., Chief of Cols., Proud Col., Ohio Col., Orion Top Col., Crimson Col., R. L. Model Chief, High Notcher, Model Wonder, Cherry Chief, Kentucky Col. and Ransom Chief. Col. Boyd places a health guarantee from cholera for one year from date of sale. Get the catalog.

Nebraska

BY JESSE R. JOHNSON.

Martin Kelly, Verdon, Neb., sells an unusually choice consignment of Duroc-Jersey bred sows at that place February 25th. Arrangements have been made so that a special representative of the livestock sanitary commissioner's office at Topeka will be present with authority to authorize shipments of these sows to Kansas points. Kansas breeders who are desirous of buying first class Duroc-Jersey bred sows who send their bids to Jesse R. Johnson of the Capper Publications in care of Martin Kelly, at Verdon, Neb., can be assured such bids will be carefully handled.

Dulcie Princess Jewel.

The accompanying picture is made from a kodak photo of Dulcie Princess Jewel, 106031, a registered Holstein cow with a 500 pound butter record. Her 2-months-old bull calf, sired by one of the great sires of

the breed, will be sold by Martin Kelley at Burton, Neb., on February 25. This is the date of Mr. Kelley's big Duroc-Jersey sale. Jesse Johnson will handle bids at this sale for parties unable to be present.

S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.

Ed Sheehy, the progressive Poland China breeder of Hume, Mo., is offering gilts bred for early farrow and big stretchy fall shotes of both sexes. The stock is of good quality, vaccinated with the simultaneous method, is in good condition and priced very reasonably. Write Mr. Sheehy for complete descriptions of this offering. Mr. Sheehy is a man of his word and you can depend on any statement he makes in regard to his stock.

Tuesday, Feb. 16th, F. W. Schaede will disperse his splendid herd of Angus cattle. This is without doubt the Angus opportunity of the season. One might write pages about these cattle and yet feel that he had not done them justice. The only way in which you can fully appreciate this kind of an offering is to be on the ground and see them. In the 14 years that Mr. Schaede has bred these cattle he has not raised a non breeder. Is it not worth something to get your start from such a herd? Don't let the quarantine scare you out on this bunch of Angus, for Mr. Schaede has done no shipping this year, and has had his herd at least 7 miles from railway. All stock bought to be sent to quarantine sections will be kept until quarantine is raised.

W. J. Sinney the noted jack breeder of Higginsville, Mo., is fixing for another great jack and jennet sale March 2nd. No man

ABERDEEN-ANGUS.

Aberdeen Angus Cattle
50 Females Yearlings and coming yearlings; also one three-year-old bull.
50 Bulls These are the best cattle we have ever offered and priced for quick sale.
Sutton & Porteous, R. 6, Lawrence, Kan.

JACKS AND JENNETS.

HALEY'S STOCK FARM
or Sale: Three splendid jacks in service last season. Also one reg. Percheron stallion and a few good Percheron mares. Write
JAS. B. HALEY, HOPE, KANSAS

Leavenworth Co. Jack Farm
25 jacks and jennets for sale. 2 good herd headers. Located between Atchison and Leavenworth on Santa Fe R. R.
CORSON BROTHERS, POTTER, KANSAS

Big Boned Jacks and Jennets

Herd won more prizes at Oklahoma State Fair 1914 than all others combined. One of the oldest established herds in the state. J.H.SMITH Kingfisher, Okla.

Three Kentucky Mammoth Jacks
Also registered Percheron Stallion. All in service at our barns the last two seasons. Must be sold. Write us before you buy.
PRICE BROS. - SALINA, KANSAS

HOME OF THE GIANTS
100 HEAD OF JACKS and JENNETS

Herd headers and mule Jacks. The big, black, big boned kind. Everything guaranteed as represented.
BRADLEY BROS., WARRENSBURG, MO.
65 miles east of K. C. on Mo. P. Stock in town. Come and see them.

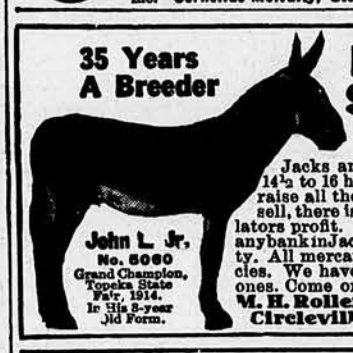
MAMMOTH JACKS
You will find at my barns one of the largest number of best quality registered, big-boned black jacks, 15 to over 16 hands, to be found in the U.S. Reference, Banks of Lawrence. Location 40 miles west of Kansas City on the U. P. and Santa Fe.
Prices reasonable.
Al E. Smith, Lawrence, Kas.

FAIRVIEW STOCK FARM

Registered Jacks, bred to meet modern requirements for bone and stamina. 25 head from weanlings to 7-year-olds and up to 1200 pounds in weight. Good jennets bred to the champion Pharaoh 2491. We won the 1913 and 1914 state fair championships.
H. T. HINEMAN & SONS,
Dighton, Kansas.

GRANDVIEW JACK FARM
STOCKTON, KANSAS. (Rooks County)
At private sale: 18 mammoth jacks ranging in ages from serviceable jacks down to weanlings. All are black with white points and have bone, size and substance. Also 35 jennets in foal. Write for descriptions and prices, and visit my barn at Stockton. Visitors called for at Plainville. If you are looking for the best at reasonable prices write me. Cornelius McNulty, Stockton, Kan.

35 Years A Breeder



John L. Jr. No. 5060 Grand Champion, Topeka State Fair, 1914. In His 8-year Old Form.

For Sale
35 head registered Jacks and Jennets 14½ to 16 hands. We raise all the stock we sell, there is no speculators profit. Reference any bank in Jackson county. All mercantile Agencies. We have the good ones. Come or write.
M. H. Roller & Son, Circleville, Kan.

PUREBRED HORSES.

10 Registered PERCHERON Stallions
ranging in ages from two years to six. Blacks and greys. Strong in Brilliant breeding. Write for prices and descriptions.
WILL GRANER, LANCASTER, KANSAS

German Coach
70—Horses—70
The great general purpose horse. Satisfaction guaranteed. Write or call.
J. C. BERGNER & SONS, Pratt, Ks.

60 Head Registered PERCHERON HORSES
From weanlings to matured horses, of both sexes. Stallions one to five-year-olds; ton horses, herd headers and mares of the best breeding. Matched teams; All recorded in the Percheron Society of America. Also Shetland ponies and Shorthorn cattle. Herd headed by Velvet Chief 398640. Come and see us before you buy. 6 mi. north of Pawnee Rock or 10 mi. west of Great Bend, Kas.
F. H. EWING, Route 1, Box 28, Pawnee Rock, Kas.

IMPORTED AND HOME-BRED STALLIONS

FOR SALE. Can show buyers more registered stallions and mares than any firm in America. Come and see my horses and mares and visit the best and liveliest horse country in the West. Reference: Any bank in Creston, Iowa.
A.LATIMER WILSON, Creston, Ia.

Imp. Stallions and Mares

Percherons, Belgians, and Shires 2 to 6 yrs. old; weight, 1900 to over 2100. Paris, Mamers and state fair winners. Best guarantee, prices right. Terms to suit reliable parties. Also Shorthorn bulls and heifers.
Joseph Rousselle, Seward, Neb. (26 MILES WEST OF LINCOLN).

JACKS AND JENNETS.

FOR SALE OR TRADE Five jacks, 3 to 6 years old. W. E. LOOMIS, Route 10, Emporia, Kans.

KENTUCKY JACKS AND SADDLERS
Fine Kentucky Mammoth Jacks and Jennets, Saddle Stallions, Mares and Geldings. Kentucky quality is the best. Low express and freight rates. Home cured Blue Grass Seed. Write us describing your wants. The Cook Farms, Box F., Lexington, Ky.

SCOTT'S JACK and Jennet Sale

will be held in Savannah, Mo., March 4th; will sell 24 large black registered Mammoth jacks, 3 to 7 years old and 12 bred jennets of same type as the jacks; the best offering I have ever made. Write for illustrated catalog. G. M. SCOTT, Res, Mo.

Jacks and Jennets

A good lot of two to six-year-old jacks, well broke and quick servers, the kind that gets business in any community. Reduced prices for the next 30 days. Call or write.
PHIL WALKER
MOLINE, KANSAS

BUY YOUR JACKS OF PRAIRIE VIEW JACK FARM

We have shipped jacks for 35 years. The same reliable guarantee goes with each sale. We have forty jacks and jennets to sell from 2 to 5 year olds, 15 to 16¼ hands high. We sell more jacks at private sale than any other firm. 40 miles north of Kan. City and 40 mi. east of St. Joe. ED. BOEN, LAWSON, MISSOURI

Kentucky Jacks

We have shipped from Poplar Plains, Kentucky, to Hutchinson, Kansas, 20 head of fine registered jacks. Range in age from three to eight years old, and from 14½ to 16 hands, standard, all good colors, with large, heavy bone and plenty weight. We have been shipping jacks to the West for years, and this is the best load we have ever shipped, and they are for sale privately. Come and look them over and we will make prices right. For private sale catalog, address,
SAUNDERS & MAGGARD
At Midland Barn. HUTCHINSON, KANSAS

who is in any way interested in jacks and jennets can afford to pass this great sale up. In this sale will be big black registered jacks of serviceable age and nothing over 7 years old. In size these jacks are hard to beat. They will run close to the 16-hand mark and some of them will beat it. They are not only tall but heavy boned and exceptionally heavy bodied, and remarkably smooth. In looking over this splendid array of jacks, one cannot help but be greatly impressed with the color and markings of them. When Mr. Finley wrote that every one was a black he should have underscored the word "black" several times; for he certainly has the black jacks. Another remarkable feature of these jacks is their being so uniform. The offering is largely the blood of Mr. Finley's great herd jack, Dr. McCord, and when you see the great bunch of jacks that go in this sale you will agree with me when I say that he is one of the greatest breeders in the world. Mr. Finley is now using for his herd jack, Dr. McCord 3rd, a son of the great old jack. He demonstrated his ability as a defender of the great family, by siring a number of the good things that go in this sale. Dr. McCord 3rd is one of those jacks that would be hard to improve upon, and we feel sure when you see him you will want one of his colts. Jack men, opportunity will knock at your door March 2nd. Get your name in early for a catalog. Please mention this paper when writing.

Big Missouri Jacks.

Bradley Brothers of Warrensburg, Mo., are offering at private sale over 40 head of big black jacks and more than 40 jennets with colts. Bradley Brothers have been breeding jacks for several years and have shown at Sedalia the last five years, always winning their share of premiums. Bradley Brothers breed them as large as it is possible to breed them and at the same time preserve the quality. Their mature jacks will run from 15 to 16 hands, standard, with worlds of quality. We recommend that prospective buyers see this herd before purchasing.

Duroc Herd Boar For Sale.

R. C. Watson of Altoona, Kan., is offering a special bargain in a Duroc-Jersey herd boar for the reason that he has a very large number of this boar's gilts in his breeding herd. He is offering R. C.'s Buddy, a three-year-old son of the grand champion Buddy K IV and out of Belle's Star Girl, second dam, Belle Wonder, by Crimson Model. R. C.'s Buddy has proven himself an exceptional sire. In full flesh he will weigh 1000 pounds. He is for sale cheap. Write Mr. Watson about this boar or other good Duroc-Jerseys and mention Farmers Mail and Breeze.

Made a Satisfactory Average.

The combination sale of Shorthorn cattle and Poland China hogs was very satisfactory to E. E. Carver & Son, of Guilford, Mo. All of the Poland Chinas were less than 10 months old, except one sow and the entire offering averaged $43. They sold from $35 to $50. It was the Carvers' first cattle sale and it has been some time since we have had the privilege of selling a better lot. The offering of 20, many of them not a year old, brought an average of $135. While there was not an animal sold, either hogs or cattle, that brought more than a real business value, they brought enough to make the sellers a good, fair profit and the buyers made a splendid investment, getting stock that will go on and make money.

Last Call Baker's Poland Sale.

Every Poland China breeder who goes to Butler, Feb. 19th, is going to be very agreeably surprised when he sees the kind of sows and gilts these breeders are offering. This is positively the greatest bunch of sows the Bakers have ever sold, which is a very broad assertion for they have sold some very good ones. Whenever a breeder can go out and clean up at the state fair and other fairs as the Bakers did this fall, you may know they have something good. Mr. Baker is a foresighted breeder and has bred Poland Chinas long enough to know about what certain crosses will do. He realized that to make an improvement on the sows he should have an extra good boar, so he purchased of Mr. Willey of Steele City, Neb., the sensational young boar, Big Bone's Son Jr., the champion of three states last fall. This great young boar is assisted by Big Look, winner of two firsts and 3 seconds in 1913, and Mo. Wonder. This is a sale that you cannot afford to miss if you can use a good sow. There is not a better lot of sows to be sold in this section this year, and there will be 50 head to select from. Address W. A. Baker & Sons.

Big Mammoth Jacks.

Al E. Smith, the big jack breeder and dealer at Lawrence, Kan., has built up one of the best jack businesses in the state. He has done this by handling strictly high class jacks and in treating his customers on the square. These statements can be verifed by any one of Mr. Smith's numerous customers. His guarantee covers both performance and breeding. The best guarantee that can be given on a jack. At present he has more than 50 head of high class jacks to sell. They range from 15 to more than 16 hands, standard. Most of them are black with mealy points, the kind the discriminating buyer is looking for and the men who inspect these jacks usually buy. Mr. Smith does not keep two or three good jacks for advertising purposes but his entire offering is of strictly high class, big, handsome jacks. These jacks have been inspected by good judges from different states and pronounced the best lot ever seen on one farm. The prices are reasonable and right. Mr. Smith can ship over the Union Pacific, Santa Fe or Rock Island. If in the market for a strictly high class jack get in communication with Al E. Smith at Lawrence, Kan.

Last Call Belcher's Sale.

In last week's issue we ran a display ad for Mr. Belcher, announcing his February 20 Poland China brood sow sale. Again we wish to urge upon our readers the importance of this great sale. Mr. Belcher is not only selling one of the grandest lots of sows he has ever offered but the fact that they are bred to the greatest boar he ever owned, and a boar that is considered to be one of the greatest boars in the corn belt, makes this offering of double importance. Most every breeder realizes the importance of buying blood lines that are the most popular. Pigs from popular sires and dams sell readily and at advanced prices. We know of no boar in the state of Missouri that is more popular today than Smooth Columbus, and yet he is just starting on his career. Barring misfortune, he has a good many years before him; and from all indications now, Smooth Columbus may be truly called the coming sire. If you haven't already received one of Mr. Belcher's catalogs, write today. By all means plan to attend this sale. You cannot afford to be without some of this great hog's pigs if you wish to keep your blood lines up to the minute and the quality of your herd at the top of the ladder.

Publisher's News Notes

With many the problem of increased acreage has not been so much the want of additional land on which to raise bigger crops as it has been the scarcity of labor—another condition which the war has directly brought about through practically cutting off immigration, and thus depriving this country of its main supply of agricultural workers. But, happily, progressive farmers are not dismayed, for they are turning stronger than ever to improved farming implements, and laying larger plans because of such efficient helpers as Planet Jr. tools, which actually do the work of three to six men. Take, for instance, the No. 72 Planet Jr. 2-row, 2-horse cultivator that cultivates two rows of corn, potatoes and similar crops at one passage, and works in rows of irregular width, checkrows, and lister corn with human-like exactness and super-human capacity. Or take the Planet four-row beet and bean cultivator that works even four rows at one passage. What an incentive is this tool for the raising of sugar beets to help stem the deficiency in the production of beet-sugar abroad. Or consider the hand-working tools such as the Planet Jr. combined seeder, wheel hoe and cultivator, which takes care of every stage of cultivation—preparing the ground, sowing the seed, covering, and then cultivating all through the season.

Tools like these have already revolutionized farming methods but their value is appreciated more this year than ever before in the history of farming on account of the unusual conditions that face us, and the masterful manner in which these implements enable us to meet them.

The complete catalog for 1915 issued by S. L. Allen & Co., Box 1105P, Philadelphia, Pa., manufacturers of the Planet Jr. tools contains 168 illustrations and descriptions of over 55 farm and garden tools, which may be had without cost by writing them for it.

The Farmer and the European Struggle.

No American rejoices in the European war situation, but it does present a duty and an opportunity to American farmers. And in 1915 it is the duty of our farmers to increase their crop acreage and the acre yield.

The Unadilla Silo.

On page — is a new advertisement for the Central Unadilla Silo Company, 636 S. W. Ninth St., Des Moines, Iowa. It's a good silo unquestionably. Any silo is good, but all silos are not equally good. The Unadilla is one of the real good ones. If you are thinking of buying a silo you owe it to yourself to find out about the Unadilla. This company is sending out a fine free book to those who ask for it. Entitled "Bigger Silo Profits". Write the company for it.

Free—To Land Owners.

The Keystone Steel & Wire Co., 825 Industrial St., Peoria, Ill., makers of the famous "Square Deal" fencing, are giving a valuable mathematical calculator free to land owners. This handy reference book clearly explains problems that usually require an hour or two to solve, such as interest, weights, measures, wages, costs, giving the correct answers instantly. If you are a land owner and have not received your copy of this handy, vest-pocket Calculator, send your name and address to the Keystone Co., and you will receive a free copy, postpaid. Incidentally you will be given some facts about "Square Deal" fence that are worth knowing.

A Corn Year Coming.

Upon one of the beautiful upland farms of southern Iowa lives a wide-awake young farmer, who within the last few years has jumped from comparative obscurity into national prominence as an authority upon corn. When only 17 years old on his father's farm, he became interested in the corn plant, and at 20 was called to act as associate editor of one of the largest corn-belt farm weeklies. At 23 he was made judge at the National Corn Exposition. Today, 12 years after he first became imbued with a real desire to improve corn, this young man is at the head of one of the fastest growing seed corn businesses in the corn belt. This young man believes that 1915 is to be the greatest year in history for good corn growers, from a profit standpoint, and he feels it incumbent upon every farmer to raise every bushel possible to meet the demand growing out of the European war. He points out that inordinate demand, lack of reserve supply, and exhaustion of labor in other fields must inevitably make corn prices in 1915 set records never before approached. What this means to the farmers who get in early with big crops of well matured corn can be readily understood. His injunction to farmers to grow every possible bushel, taking advantage of the best known implements and methods of cultivation, the best seed obtainable, and seed certain to mature, so that corn will be available for export, is worth considering seriously. On another page this corn expert, who is known under his real name, or as proprietor of the famous Sunkist Farms, has an announcement well worth reading, if one is interested in more corn to the acre. Turn to it and write for the interesting Moore Corn Book for 1915. See ad on page —, this issue.

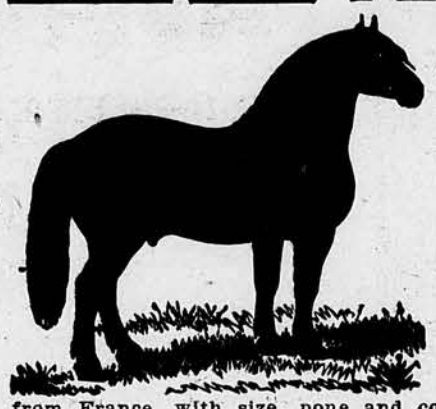
The man who sows brome and reaps quack comes to believe in pure seed laws.

Train the colt to go straight ahead; a wobbly gait will condemn an otherwise good animal in the markets.

Harris Bros.' PERCHERONS

50 Head

of Percherons all registered in the Percheron Society of America



Algarve, by Samson, at the head of herd, is a wonderful impressive sire, weighing over 2,200 pounds.

If you want Percheron stallions, we want to meet you and show you our assortment of fine young stallions. Some of them big, young fellows with a wonderful "come," other mature and ready for hard service and ranging from the low-down compact drafter to the big, handsome herd header, that is sure to please. These Percherons are strong in the best blood ever imported from France, with size, bone and conformation the good, big, draft type you are looking for. We are selling a stallion every few days because we have the right kind and at prices that are reasonable. Shipment Mo. Pacific or Santa Fe. Barns right in town. Write, wire or phone us what you want or when you will call. Address

HARRIS BROS., GREAT BEND, KANSAS

LAMER

I have just received a new shipment of 20 Stallions and now have

80-Head-80

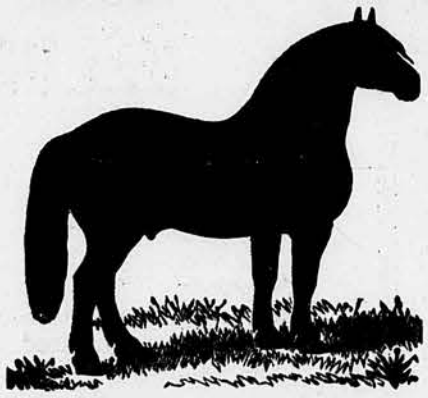
Stallions, Mares, Fillies and Colts

WRITE FOR PRICES

C. W. Lamer, Salina, Kansas

EWING BROS.' Percherons

60 Head of Registered Stallions and Mares



Ranging from weanlings to mature stallions and mares. Including ton stallions, herd headers and mares of the best breeding. Matched teams, fillies and young stallions.

Also Shetland ponies and Shorthorn cattle. Herd headed by Velvet Chief 398640. Come and see us before you buy, or write your wants today. Six miles north of Pawnee Rock or 10 mi. west of Great Bend, Ks.

Ewing Bros., R. 1, Box 28, Pawnee Rock, Kan.

This "Like France" Percheron farm has

the goods, and lots of them. Registered stallions. 1 to 5 yrs. old. Jet blacks, grays. Come where the genuine good ones are. Nobody will tell you that they have Percherons as weighty, heavy-boned, rugged and useful as Fred Chandler's, or as big a bunch to pick from. You, too, will recommend this herd after you have been here. Just above Kansas City. **FRED CHANDLER, Route 7, Chariton, Iowa.**

Registered Percheron Studs

We have them, **big fellows.** 1, 2, 3 and 4 yr. olds. Real Drafters, **big bone,** lots of quality and action, grown right, will go out and make good both as to sires and foal getters. You lose money if you don't look at **Bishop Bros.'** Studs before buying. 20 miles east of Wichita on Mo. P. Ry.

BISHOP BROS., Box A, TOWANDA, KANSAS

Watson, Woods Bros. & Kelly Co.

LINCOLN, NEBRASKA

Imported and American Bred Stallions,

PERCHERONS, BELGIANS AND SHIRES.

We have a splendid lot of stallions of various ages selected especially for the requirements of our trade. They are big, drafty, clean boned, well finished and good actors. We have never offered better bargains.

150 Choice Holstein Heifers unregistered, from best milking strains, soon to freshen.

OUR PRICES ARE RIGHT

Mild Weather Helps Wheat

(Continued from Page 26.)

ing and thawing. Wheat $1.50; hogs $6.50; potatoes $1; apples $1.25 and higher according to grade; eggs 35c; hens 11c; corn 80c; alfalfa $11 to $12.—O. L. Cox, Feb. 6.

Gray County—Several light snows and showers have put the ground in very good condition for wheat when the spring opens. Farmers are quite optimistic over the prospects. Stock doing well and selling high at sales, except hogs which are losing money for the feeders. Wheat is selling at $1.50 and some farmers still have quite an amount to sell.—A. E. Alexander, Feb. 6.

OKLAHOMA.

Delaware County—Weather cold and cloudy but not much moisture. Wheat does not look as well as usual at this time of year. Wheat $1.25; corn 70c; oats 45c; eggs 22c.—Frank Rock, Feb. 6.

Caddo County—Not much severe weather up to this time. An unusual amount of rain for this season of the year. Wheat looking well. Corn 80c; wheat $1.42; hogs $6; broomcorn $25 to $50 ton.—H. Reddington, Feb. 5.

Dewey County—Winter has been dry and open up to this time. Wheat is doing very well. All livestock wintering well. A fair acreage of oats will be put out. Cows and horses selling well. Wheat getting higher. Hogs $6.25; corn 75c.—William Liston, Feb. 4.

Hughes County—February opened up nicely. Farmers plowing. Oat sowing will begin next week if the weather continues good and a large acreage is talked of. We wish to plant our potatoes about February 15. Plenty of feed. Cotton reached the 8-cent market last week and the seed sold for $22 a ton. Hay $9 to $10; corn 70c; oats 50c.—Albin Haskett, Feb. 5.

Texas County—Late wheat is in better condition than it was having received about an inch of moisture and with a good spring it should make a fair yield. Farmers busy butchering and threshing. Having some stormy weather at present. Broomcorn market is a little better than it was a month ago. Prospects good for a large sorghum crop next summer. Wheat $1.40; corn 65c; eggs 20c; hogs 6c; corn, kafir, and milo $1.20 cwt.; barley 75c.—Frank Free, Feb. 5.

Kingfisher County—Cold weather. Plenty of wind and some rain. Wheat and stock wintering well. Those who are feeding cattle on silage and cottonseed meal report no profit. Corn is so high that hog men are losing out. Corn and kafir crops were poor and cotton is too cheap for profit so the wheat man who has not sold all his wheat crop is the only man with a profit. Corn 85c; hogs $6.25 to $6.50.—H. A. Reynolds, Feb. 6.

Uses of Barnyard Manure

BY M. F. MILLER.

Farmers should appreciate more fully the value of manure and of proper methods of handling it. It is worth at least two dollars a ton in crop returns and one should get that amount, or in some cases much more than that out of it by proper handling. Just how it shall be handled will depend upon conditions. The best method where cattle are fed in barns, sheds or lots, is to haul the manure to the fields day by day or week by week as it is made. There is the least loss in handling it in this way, although this plan is not always feasible.

The next best plan is to feed under an open shed where the manure may accumulate and where it will be kept tramped down compactly by the animals. Under such a plan it will be kept sufficiently compact and moist to prevent rapid fermentation, and next to hauling to the fields as made, this is the plan which gives the least loss of fertilizing constituents. One of the cheapest plans is to feed directly back on the fields but too often in this case the feeding is done on some hillside where washing and leaching carries away the larger part of the fertilizing constituents contained or the cattle are fed in some sheltered wood lot where the manure is lost to the fields.

In this connection it should be said that a manure spreader will pay well. Most men think that the value of a manure spreader lies in the saving of labor, and while this is an important reason for its use, it is not the only one. A reason that is as important, or even more important, is the fact that manure put on evenly and rather lightly over a large area will give larger returns than the same manure put on heavily and irregularly over a smaller area. There is one other reason why a man should own a spreader ,and this is that when he has his money invested in such an implement he will almost invariably take better care of the manure than he otherwise would.

The average price paid to farmers for milk last year was 3.8 cents a quart. This is an increase of three-tenths of a cent a quart over the preceding year.

A 15-year-old member of a Utah boys' club raised potatoes valued at $187.77 on an acre of ground. His net profits were $141.07.

Aberdeen-Angus Sale

Dispersion of the Solomon Valley Herd

Stockton, Kansas, Wednesday, February 17th

THE PROPERTY OF BARTLETT & COOLBAUGH

Eighty-five head of bulls, cows, and heifers of the most fashionable blood lines and superior individuality that have ever been offered in the state of Kansas. They represent the most popular families; Blackbird, Queen Mother, Miss Watson, Boghead Vine and others. They are a well developed lot of extra good breeding cattle. Sixteen bulls of a serviceable age are catalogued. All are of the popular type and have quality. Black Knight of Highland included in sale, is now at the head of the herd. The cows and heifers are a choice lot, and every female of a breeding age is safely settled, and the young heifers are in the pink of condition to go on making money.

We are also selling forty-one head of high grade yearlings and two-year-old steers and heifers that will make show cattle. We pay freight on car lots east and south of the state of Kansas.

For a catalogue address

BARTLETT & COOLBAUGH, STOCKTON, KANSAS

Sales Manager, M. A. Judy, West Lebanon, Ind. Auctioneers, Cols. John W. Travis and Ira Hazen.

Mitchell County's Greatest Percheron Sale

In the Sale Pavilion at the Fair Grounds

BELOIT, KANS.

Monday, February 22

In this sale F. A. Cole is dispersing his herd of registered Percherons and in addition to the great stallion, **Macduff** and the great mares featured in this advertising, is selling young stallions, one three-year-old, three coming two-year-olds, three weanlings. Also 10 mares ranging in ages from six years old down to yearlings. Many of the stallions are by Macduff and one of the mares is by **Calypso**, three by the great champion **Olbert**, others by other noted sires. There will be plenty of evidence of the worth of the great stallion, Macduff sale day.

Other Mitchell County Consignors

Mitchell county is noted for its good Percherons and several breeders have consigned choice animals with Mr. Cole's offering as follows: J. R. Albert, Glen Elder, a fine young stallion; R. G. McKinnie, Glen Elder, a young stallion coming three, out of one of the great international prize winning mares he shiped to this county four years ago; Winnefred Johnson, Solomon Rapids, a three-year-old filly, by **Carnot** and out of the other International prize winning mare brought to Mitchell county by Mr. McKinnie. Both were imported mares. P. H. Pauley, John Pickett, Morris Moore and Chaput Bros. are consignors. Thirty-four head in all will be sold and will be one of the best offerings of Percherons of the season. Catalogs ready to mail February 10th. Send your name for one to

F. A. COLE, Barnard, Kansas

Mention the Farmers Mail and Breeze when you write.
Auctioneers—R. L. Harriman, Will Myers, Harry Vanamburg.
Fieldman—J. W. Johnson.

Stallion Macduff 45562 P. S. A.

Foaled Jan. 28, 1905. Won in 1906 as follows: First at International, first at Iowa State Fair, first at Minn. State Fair, first Illinois State Fair, first Wisconsin State Fair, first Indiana State Fair. 25 firsts that year and six gold medals. Also first as aged stallion at Mitchell County Fair later.

Mare Lora C. 40165 P. R. Co.

Foaled May 10, 1902. First and champion mare any age at International, 1905. Weight about 2100 pounds. Has raised a colt every year since Mr. Cole has owned her. He sold two yearlings and one two year old at the farm for $3500.

Mare Cora C. 40816 R. P. Co.

Foaled March 24, 1903. Won 2nd at the International same year. Lora C won first, competing with her. Won first in special class. Weight about 2100. A splendid brood mare.

Dairy Cattle Sale

28 Head High Grade Holsteins and Jerseys 28

Abilene, Kansas
Thursday, February 25

The herd consists of Holsteins, eight cows, three springing heifers, eight open heifers, two grade bull calves, one registered bull, seven months old; Jerseys, four cows and two heifers.

The above offering is choice milk stock and will lay the foundation for good dairy herds. Write for full descriptive list.

Mrs. R. E. Hersey & Sons,
AUCTIONEER—J. N. Burton. **ABILENE, KANSAS**

Nutter's Shorthorn Dispersion Sale

In the Sale Pavilion, WASHINGTON, KAN.

Tuesday, February 23rd

This Type of Shorthorns Will Pay on Any Farm.

I have decided to disperse my entire herd of Shorthorn cattle on the above date and will sell 27 bred cows and heifers, five open heifers and eight young bulls ranging in ages from 6 to 14 months. The sale will be held in comfortable quarters and Washington has the best of railroad facilities. The cows and heifers are bred to Prairie Sulton 399309, by the great Meadow Sulton owned by Achenbach Bros., of Washington, Kan. The dam of **Prairie Sulton** was sired by **Orange Cup.** Other cows and heifers are bred to **Choice Master 2nd, by Choice Knight, by Choice Goods.** Everything will be found in ordinary breeding condition. Nothing is loaded with fat but is just as it was intended for our own use. Write for further information. Address,

J. D. NUTTER, Morrowville, Kans.
Auctioneer: Jas. T. McCulloch. Fieldman, J. W. Johnson.

Duroc-Jerseys—Boyd's Annual Brood Sow Sale

CENTRALIA, MISSOURI Thursday, February 25

He will sell thirty-three bred Duroc sows, seven open gilts and seven summer males. Twenty-two of the leading Duroc males of America are represented in this annual bred sow sale. No better breeding on record. Catalog is ready for inspection. Get one now and pass your judgment on the blood lines of this offering. Every hog is guaranteed free from cholera one year from the sale date Feb. 25th, 1915.

You will have the pleasure of hearing Col. Gross who has sold more livestock than any other man in the world. Received $725.00 for one day's work in Denver, Colorado.

If you cannot come send bids to Ed. R. Dorsey in my care.

C. C. BOYD, Centralia, Mo. (Box 333)
When you order catalogs mention this paper.

Immune Poland China Bred Sows

H. C. Graner's Annual Bred Sow Sale

Lancaster, Ks., Wednesday, Mar. 3

The Sale Will Be Held At The Farm

The Outstanding Mabel's Wonder Litter Developed By Mr. Graner That Produced the Splendid Young Herd Boar, Mabel's Wonder Jr.

40 head are cataloged and is one of the strongest offerings of strictly big type Poland China sows to be sold in the state this winter.

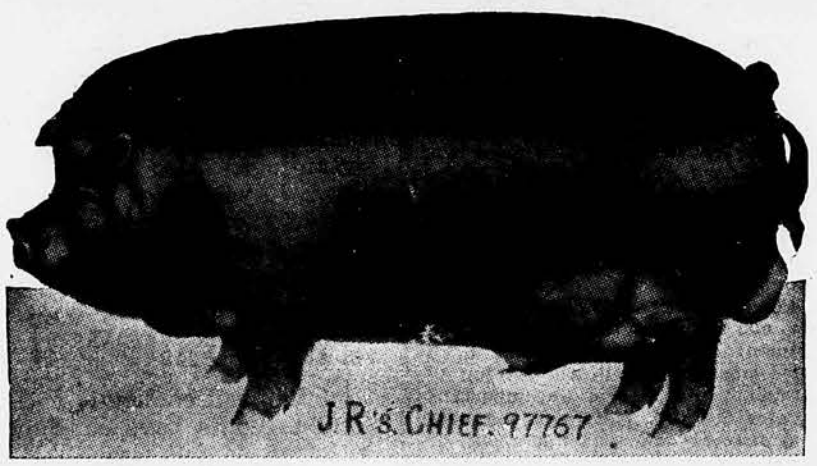
The 10 tried sows in the sale are real attractions. They averaged a little over eight pigs to the litter last season and are proven producers of great merit. They are bred to **Moore's Halvor, Long King's Best** and **A Wonder's Equal. They** are by such noted sires as **Long King's Best, Big Price, Captain Hutch** and **O. K. Lad.** 12 fall yearlings by **Moore's Halvor** with two or three by **Long King's Best.** They are bred to the same boars as the tried sows with two or three to **Mabel's Wonder Jr.** 18 spring gilts, nearly all by **Long King's Best.** About two thirds of the spring gilts are bred to **Mabel's Wonder Jr.** and the rest to **A Wonder's Equal** by A Wonder. An attraction in the sale is the top gilt in U. S. Byrne's last fall sale. She is bred to Mabel's Wonder Jr. for a March litter. Also another spring gilt by Sampson Ex. 2nd, bred to A Wonder's Equal. Catalogs ready to mail. Write for one today and mention the Farmers Mail and Breeze. Address

H. C. GRANER, LANCASTER, KANSAS
Auctioneers: H. S. Duncan, C. M. Scott. Fieldman, J. W. Johnson.

Circuit
Herman Gronniger & Son, Bendena, Kan.....March 1
H. B. Walter, Effingham, Kan.....Ma ch 2
H. C. Graner, Lancaster, Kan.....March 3
U. S. Byrne, Saxton, Mo.....March 4

DISSOLUTION SALE of Durocs

Elmdale, Kan., Saturday, Feb. 20th



60 HEAD which includes our breeding herd, show herd, fall yearling and spring gilts; also our three herd boars, Big Chief, J. R's Chief and Model Bob. 25 tried sows, 20 fall yearling and 15 spring gilts all in pig to these good boars among them such producing herd sows as Lady Wonder, Miss Tat by Tatarrax, King Surprise, Baby Girl 2nd, Top Notcher Girl, Pearl Orion 2nd, among which are producers of champions.

Show Herd and All Goes

In this sale, which is a complete dispersion of the Blackshere & Weaver herd. All excellent breeding stock. Culls all go to the packers. We offer without reserve this entire herd at your price. Send your name today for catalog.

Blackshere & Weaver, Elmdale, Ks.
Aucts.: John D. Snyder, Wood & Crouch. Fieldman, A. B. Hunter.

C. P. ALBERT'S Percheron and Shorthorn Dispersion Sale

At his farm four miles south and two miles west of Glen Elder, (Mitchell Co.) Kans.

WEDNESDAY, FEB. 17th

Commencing at 10 O'clock Sharp.

This is a big clean up sale of stock and farm implements and everything will positively be sold as Mr. Albert is leaving the farm. The registered Percherons include Sampson A, a stallion foaled in 1912, wt. 1650 pounds, sired by **Normandeer 59313**, dam **Bertha 75592; Woodrow 103168**, foaled April, 1912, sired by **Russell 50805**. His grand sire was the great **Casino**. There is also a number of registered mares and fillies and high grade Percheron mares in this sale. Also **five registered standard bred stallions, mares and fillies.** Also **one large Mammoth jack**, six years old and sure breeder. One brown coach bred mare, three years old.

SHORTHORN CATTLE—There are 17 head of cattle, registered Shorthorns and high grades. There are two registered bulls, one two years old and the other coming one year. Also several registered cows and heifers. Also some Poland China hogs including a registered herd boar. Also purebred Bourbon Red turkeys. Mr. Albert has been a good buyer of registered Percherons and standard bred horses for a good many years and what he is selling on the above date is as good as will be found anywhere. Write him today for his catalog and mention the Farmers Mail and Breeze. **Next Wednesday is the date.** Address,

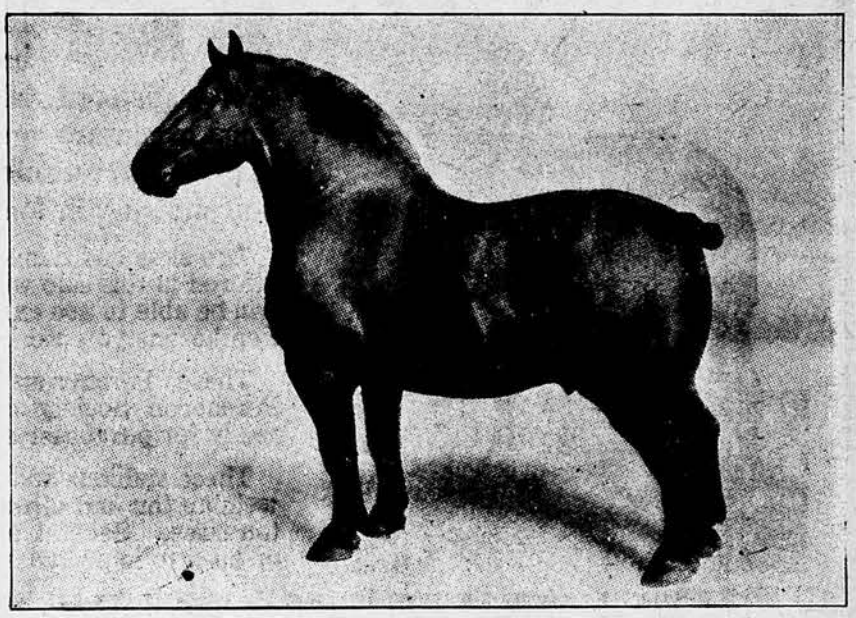
C. P. ALBERT, Glen Elder, Kans.

Auctioneers—John Brennen, Will Myers, H. H. Vanamburg.
Fieldman—J. W. Johnson.

Seven Extraordinary Percheron and Belgian Stallions and Mares

Sell At Auction in M. Pyle's Barns, 1-2 Mile From City of

Emporia, Kans., Tuesday, Feb. 16th



"Wide as a Wagon" and "Peaches and Cream" Are Terms None Too Broad to Use in Describing These Horses.

The Percherons

IMP. JUVENLITE, a 5-year-old ton stallion by Acrobat, dam **Lisette**, is a show horse that has never been shown; sure foal getter and a splendid sire with plenty of bone, style and action.

KANSAS KING, a 1600 pound coming two-year-old stallion, by Juvenlite and out of the imported prize winning mare, Venita, weighing over a ton also sells. Imp. Venita, sired by Boulivet, dam Jule and safe in foal to Imp. Juvenlite, weighs over a ton; she was first prize winner at Kansas State Fair, 1913. You can travel many a mile without finding her equal. All are registered in the Percheron Society of America.

The Belgians

DALL, by Imp. Electrique, dam Grusette, an 1800 pound, three-year-old, broke to service, and to harness; the true Belgian type. His sire was the best in a whole carload of imported stallions and he has license to make a better horse than his sire.

CALINE, JEZABELLE and **GRISETTE** are three matured Belgian mares, all imported; one weighing 1900, the other two right at a ton each. All three are showing safe in foal, one to Dall, described above and the other two to Imp. Rozonold, a 2100 pound grandson of a Belgian grand champion. The imported mare Caline was winner of a silver cup and 1st prize at Hutchinson State Fair, 1913. Jezabelle is also a prize winner.

These stallions and mares are all hardened to work, the stallions broke to service and sure foal getters. The imported animals are all acclimated and the mares all safe in foal. If you want the best in either Percheron or Belgian stallions or mares, here is your opportunity. Twenty other horses also sell consisting of six high grade Percheron mares safe in foal to these good stallions, also matched teams of work geldings and mares, fillies, colts, etc. Every animal to sell exactly as guaranteed. Good train service on M. K. & T. and main line of Santa Fe. Write today for catalog.

RUDOLPH SCHROADTER, Emporia, Kansas

AUCTIONEERS—Wood and Crouch. FIELDMAN—A. B. Hunter.

Seventh Annual Sale

The Lafayette County Jack Farm

Higginsville, Mo., Tuesday, March 2

50-Jacks and Jennets-50

25—Big Black Registered Jacks—25

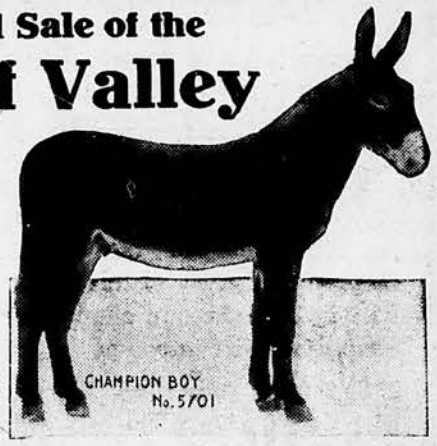
Every one a black one and a big one; some better than 16 hands standard, lots of bone, worlds of quality and some of the best blood in Missouri and Kentucky. Strong in the blood of the great Dr. McCord. Every animal guaranteed as represented. Nothing sold before the sale. Write today for catalog and arrange to attend this wonderful sale, the opportunity of the season.

W. J. FINLEY, Higginsville, Mo.

Auct. Col. Gross. Fieldman, C. H. Hay.

The Sixth Annual Sale of the

Clover Leaf Valley Jack Farm



Will be given at La Plata, Mo.

March 8, 1915

This sale will be given in the largest exclusive jack and jennet sale pavilion in the United States. 24 passenger trains stop at La Plata, each day. Pavilion situated 100 yards from depots. 25 head of the highest class registered jacks ever offered in any sale. 25 jennets of the very best conformation and breeding in America, many of them with colts by side. Blood lines of Mammoth J. C. No. 2046, Orphan Boy 696, Limestone Mammoth 298 and many other of the greatest jacks in the world will be sold both in jacks and jennets.

The Greatest Lot of Jacks and Jennets to be Offered in 1915

If you are interested in jacks or jennets, WRITE for the GREATEST CATALOGUE of this stock ever printed, showing the photographs of each animal and giving the extended pedigree. I SELL MORE HIGH CLASS JACKS THAT PAY FOR THEMSELVES IN ONE YEAR THAN ANY MAN IN AMERICA. Address

G. C. ROAN, Prop., La Plata, Macon Co., Mo.

Auctioneers—Col. Gross, Col. Graham. Fieldman—Ed. R. Dorsey.

Percheron Stallions and Mares

At Auction in New Horse and Mule Sale Pavilion Opposite Exchange Building, Wichita Stock Yards

Wichita, Kan., Thursday, March 4, 1915

33 Head Imported and American bred consisting of 16 pure bred registered stallions ranging from weanlings to mature age, 17 pure bred registered mares from weanlings to those of mature age showing in foal.

The sires and dams of most of the young stock offered in this sale will also be in the sale so you will be able to see exactly what kind of producing Percherons you are buying.

These Percherons are all registered in the Percheron Society of America and the papers ready for purchaser sale day.

These stallions and mares include several that weigh a ton and others that will mature into the ton class. Several are either imported, sired by or bred to imported sires.

This offering is made up about equally from the herds of Chas. Molzen, Newton, Kan., and Little River Stock Farm, Halstead, Kan. 10 head of these Percherons consigned by Little River Stock Farm are by the good sire Oneida, a splendid line bred Brilliant stallion whose get shows bone, size and quality. Of the Molzen consignment, seven head are by and others are in foal to the imported stallion, Jacquemont, a highly bred individual whose get must be seen to be fully appreciated. These Percherons are not only well bred but good individuals and should interest all buyers who are in the market for Percherons. You will find here a good variety from which to select. Included will be a six-year-old Imported Belgian stallion of unusual merit, weighing 2,100 pounds. Every known defect will be called attention to and every animal sold strictly on its merits. Write today for catalog.

C. B. WARKENTIN, Newton, Kansas

Auctioneers—John D. Snyder, J. P. Olivier. Fieldman—A. B. Hunter.

Lee Bros. Greatest Percheron Sale

Sale Pavilion; Kansas State Agricultural College

Manhattan, Kan. March 2, 1915

45 Head

of Imported and American bred Percheron Stallions, Mares and Colts.

Our Show Herd. We are including in this sale our entire show herd with the exception of our herd stallion, **Scipion** and two of his colts that we will include in our show herd at San Francisco next summer.

Samuel, a four year old grey stallion will weigh over 2,200 sale day, **Scipion Jr.** and **Confident** are two great sons of the old Hero, Scipion. Also **Neva,** one of his daughters and Narine, a yearling show filley and **Nadine,** the great two-year-old show mare and **May Belle,** a good black two-year-old filley. Also the great grey team, **Elsie S.** and **Isoline,** the latter an imported mare. This is a blue ribbon offering that will not be excelled this season.

Imported Grand Champion Scipion 27123 (43677) whose get will compete for World's honors at San Francisco next Summer.

45 Head

of Imported and American bred Percheron Stallions, Mares and Colts.

20 mares bred to Scipion. We will sell 20 mares bred to the great Scipion, also several colts, both stallions and mares sired by him.

Our Third Annual Sale at Manhattan. This is our third annual sale at Manhattan from our Blue Ribbon Stock Farm and is the best offering we ever made.

Write for our big illustrated catalog and mention the Farmers Mail and Breeze.

Auctioneers—Cary M. Jones, Chicago; John D. Snyder, Hutchinson; C. M. Crews, Topeka; L. R. Brady, Manhattan. Fieldman—J. W. Johnson.

LEE BROTHERS, Harveyville, Kan.

200 Poland China Sows

The Big Riley County Poland China Bred Sow Sale Circuit

Bids may be sent to John W. Johnson of the Farmers Mail and Breeze

J. H. Harter's Sale

At the Agricultural College

Manhattan, Kan., Wed. Feb. 17th

This is the first sale in the circuit and my regular annual sale. The sale will be held in the stock judging pavilion which is always comfortable.

The 50 bred sows and gilts I am offering in this sale outclass any of my public sale offerings of recent years and I believe will meet with your approval. I am putting in this sale 12 tried sows, none over three years old, that are proven producers that are sure to be money-makers for the man that buys them. 5 are by **Mogal's Monarch,** 2 by **Chief Price** by **Chief Price Again** and one by **Blue Valley Gold Dust** by **Blue Valley Expansion.** The 12 fall gilts are mostly by **Long King** and the 26 spring gilts are by **Gephart** and **Long King.** Everything is bred to the best advantage to **Gephart, Long King** and a splendid son of **Gephart.** My catalog is ready to mail. If you can't come send your bids to either of the Johnsons in my care at Manhattan, Kan., and I will guarantee you are treated right. For a catalog address,

J. H. HARTER, Westmoreland, Ks.

Free hotel accommodations in Manhattan.

AUCTIONEERS—Jas. T. McCulloch, W. C. Curphey and Floyd Condry.

J. L. Griffiths' King of Kansas and Long Jumbo Jr. Sale

Riley, Kan., Thursday, Feb. 18th

My sale is the second sale in the circuit and my regular annual sale. Riley is 18 miles from Manhattan on the Rock Island and good connections can be made for there the evening of Mr. Harter's sale. I will arrange good hotel accommodations for you at Riley.

The 50 sows in my sale consist of 20 fall gilts and 25 spring gilts, all sired by **King of Kansas.** The five tried sows are two years old, selected sows and are rich in Peter Mouw breeding. They are bred for March farrow to **King of Kansas.** A big per cent of the fall and spring gilts are bred to **Long Jumbo Jr.,** and the rest to **Hercules 2nd.** I believe that **King of Kansas** is one of the great sires of the breed. He has not only proven his worth as a sire in my hands but other breeders who bought sows in my last sale bred to him are elated with his get. The fall and spring gilts sired by him and bred to **Long Jumbo Jr.,** (see field notes) will certainly prove profitable investments. If you can't attend in person send your bids to either of the Johnson boys and you will get good treatment. **Everything immune.** For catalog address

J. L. GRIFFITHS, Riley, Kansas

AUCTIONEERS—Jas. T. McCulloch and Jim Cross.

A. J. Swingle's Gritter's Surprise and Big Orange Sale

Leonardville, Kan., Friday, Feb. 19

My sale is the third sale in the circuit and my regular annual sale. Leonardville is six miles from Riley and I will have autos and rigs at Mr. Griffiths' the evening of his sale and take you to Leonardville where I will take good care of you.

I am selling only 38 head in my sale but I believe you will agree with me that it is an offering that I have a just right to be proud of. 13 are fall gilts that have raised litters and that for size, conformation and quality challenge any like number I ever saw. They were sired by **Gritter's Surprise** and **Big Orange Again,** which are the same boars that sired my last February offering that were so well received by the breeders who attended my sale. The 25 March gilts are equally as good and were sired by **Gritter's Surprise, Big Orange Again, Tip Top Wonder** and **Hercules 1st.** More than half of the offering is bred to **Gritter's Surprise** and the rest to **Hercules 1st** and **Orange Wonder** . I want you to attend my sale but if you can't you can send your bids to either of the Johnson brothers and you will be sure of careful and honest treatment. **Everything immune.** For a catalog address,

A. J. Swingle, Leonardville, Kan.

AUCTIONEERS—Jas. T. McCulloch and L. R. Brady.

Jas. Arkell's Chief Big Bone and Longfellow Again Sale

Junction City, Kan., Sat. Feb. 20th

My sale is the fourth and last sale in the circuit and my regular annual sale. It is arranged so you can come to Junction City the morning of my sale very conveniently as Junction City has the best of railroad facilities and you can make the best of connections for your homes. I have arranged for good hotel accommodations for you and want you to be my guests on that date. Sale in comfortable quarters.

My offering consists of 10 tried sows, 15 fall gilts, some of them have raised litters and 20 spring gilts. The 10 tried sows are of proven value, as producers and are just in their prime. They trace to the principal big type families of today. The fall gilts have been selected for this sale and carefully handled and their future usefulness is assured. The same may be said of the spring gilts. The fall gilts are by Pan Look and First Quality. The spring gilts by First Look and Longfellow Again. Everything is bred to Chief Big Bone and Longfellow Again (see field notes). I feel confident that my offering is one of the best that will be made in the West this season. I invite you to be my guests on this occasion. If you can't come send your bids to either of the Johnson boys and you will get square treatment. **Everything immune.** For a catalog address,

JAS. ARKELL, Junction City, Kan.

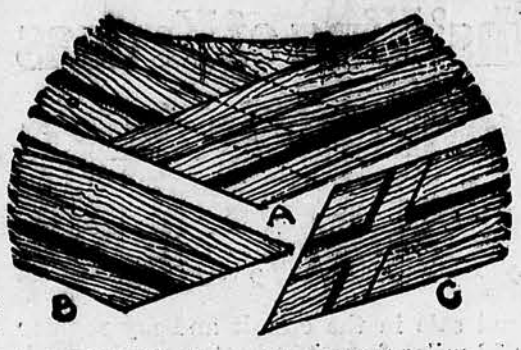
AUCTIONEER—Jas. T. McCulloch.

It's Silo Time NOW!

—time for you to investigate the silo that's leading all others in popularity—the

"TUNG-LOK" SILO

(Made of Yellow Pine or Fir.)



A.—View looking down on "Tung-Lok" Silo sections, showing perfect fit and lock of joint, and inside rounded wall.

B. C.—Reverse or under-side of sections.

THE Tung-Lok Silo is the selling sensation of the country. It follows a new principle of silo building, combining the utmost in simplicity of construction, low cost, durability and dependability. It is **built without hoops, without bands, guy wires or space-wasting braces of any kind.** Every single piece of the "Tung-Lok" is braced and fitted against all the other pieces. It is as indestructible as the side of a mountain, is wind-proof, sun-proof, cold-proof and moisture-proof. There is absolutely no possibility of damage to contents if you put your silage in a "Tung-Lok."

The "Tung-Lok" has more than justified every claim made for it as the one best silo in all the world. Every man who has purchased one is a "Tung-Lok" booster. As a result the demand is increasing rapidly, and we have been working our two big lumber mills overtime for the past six months to put ourselves in position to promptly and satisfactorily care for the many orders that are coming in.

We invite every reader of this paper to write at once for our new illustrated book about the "Tung-Lok" Silo and learn why a "Tung-Lok" so satisfactorily meets every silo requirement.

The "Tung-Lok" has a Special Opening Silo Roof which gives you full benefit of entire capacity of your silo. This roof can be opened at any point, and is not in the way when you are filling your silo.

View of the "Tung-Lok" Opening Silo Roof when closed. Observe its trim, business-like appearance.

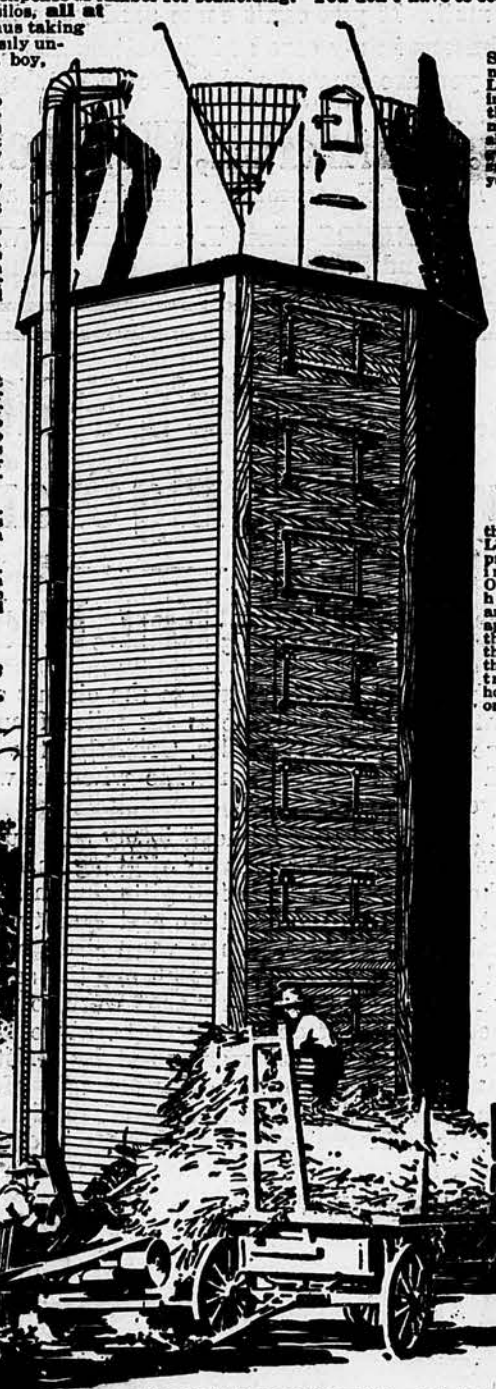
A "Tung-Lok" will save you $50.00 in construction cost!

and you can put it up yourself in your spare time.

Prohibitive first cost and heavy construction expense have kept thousands of farmers from getting silos. The big advantage of the "Tung-Lok" is its simplicity of construction. You don't have to pay $50.00, $100.00 or more for the services of an "expert," sent out by the factory, when you buy a "Tung-Lok" Silo. You have nobody to house, feed and pay. You save all that heavy expense because no "experts" are needed. You also save all the expense of lumber for scaffolding. You don't have to complete the task of putting up a "Tung-Lok," as is the case with stave silos, **all at once.** You can work during spare moments or at odd times, thus taking not a minute from your regular farm work. In fact, with our easily understood building plans you can, with the help of one man or a boy, put up your "Tung-Lok" Silo in surprisingly short time.

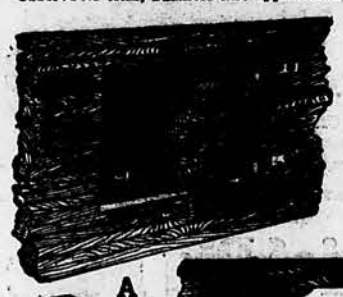
The "Tung-Lok" overcomes every silo objection and meets every silo requirement. It is built entirely of wood (the only perfect ensilage preserver) on the wonderful new patented principle, that of laying the pieces or "units" horizontally, each piece being tongued and grooved and so cut as to fit perfectly, making a solid wall 50 per cent thicker and infinitely stronger and more durable than any other wood silo.

Every piece of material is cut from seasoned lumber, and fitted by special silo machines at our mills. Each piece is made exact in proportions. There is not the slightest variation in size or shape, so that the "units" must fit together perfectly. The pieces for each layer are tied in bundles, numbered and shipped to you direct from the nearest of our two big plants. You simply can't make any mistake putting up a "Tung-Lok" Silo because all you have to do is to fit each piece in its place and drive the nails. When you have finished you have a silo that is absolutely unaffected by weather conditions, that will withstand the hottest sun and the highest wind, and yet has no hoops, bands or guy wires requiring constant attention.



Showing the new "Tung-Lok" Opening Silo roof, the improvement that enables you to get fullest capacity from your silo.

Showing the "Tung-Lok" Silo in process of being filled. Observe the handsome and imposing appearance of this silo and the fact that there are no troublesome hoops, bands or guy wires.



A.—Showing the "Tung-Lok" patented combination ladder and door; the door partly open.

B.—View from the inside, showing how the door swings inward clear out of the way.

Increase height at any time!

"Tung-Loks" are made in any size or capacity wanted. Another great advantage of the "Tung-Lok" over all other silos is that you can, from year to year, add to the height, to meet your needs for more silo capacity. Your only cost will be for the actual number of "Tung-Lok" layers to build up to the desired height. You can increase the height of your "Tung-Lok" Silo to 50 feet, 60 feet or even more, and every foot will be solid as a rock. As height makes weight and pressure and pressure is the best thing known for the proper making of ensilage, it can be easily seen wherein the "Tung-Lok" again surpasses all other silos.

Be sure to investigate the "Tung-Lok" before you decide on any silo. It has special features and advantages possessed by no other silo; regardless of cost, and there are no points of merit possessed by any other silo which you will not find in the "Tung-Lok."

There is a dealer selling "Tung-Lok" silos in practically every town. Full information about this remarkable money-saving silo is also found in our new book, just off the press. You owe it to yourself to investigate the "Tung-Lok" thoroughly before deciding on your silo, and we will gladly send you a copy of the book **Free** if you will send us your name and address.

TUNG-LOK SILO CO.,

104 Long Building, Kansas City, Mo.

The Wonderful New "Tung-Lok" Combination Ladder and Door Hinge, a feature which you can obtain in no other silo on the market today. It is the greatest combination door and ladder feature ever invented. Does away entirely with the building of outside ladder. Door swings *inward*, clear out of the way, when ensilage is being taken out. Ladder rungs are made entirely from one piece of wrought iron bent to form a perfect hinge as well as steps. These rods are as large as a man's thumb. They will support safely the weight of the stoutest farmer, and will last a lifetime. There is no possibility of their ever allowing the door to sag because no weight is ever put on the rungs except when the doors are closed and tightly fitted in place.

When you throw ensilage from a "Tung-Lok" silo there are no obstructions in the way to catch the fork or spill the load.

Closed, the "Tung-Lok" doors fit absolutely tight. They are cut on a bevel out of the sides of the silo itself when being put up. Such doors fit, and that *perfectly*.

Free Book Coupon

Tung-Lok Silo Co.
104 Long Bldg., K. C., Mo.

Gentlemen:

Please send me full information about the Tung-Lok Silo.

My live stock consists of the following

.....Cattle, ...Hogs,

.....Sheep, ...Horses,

I have..... .....acres in corn.

My name.....

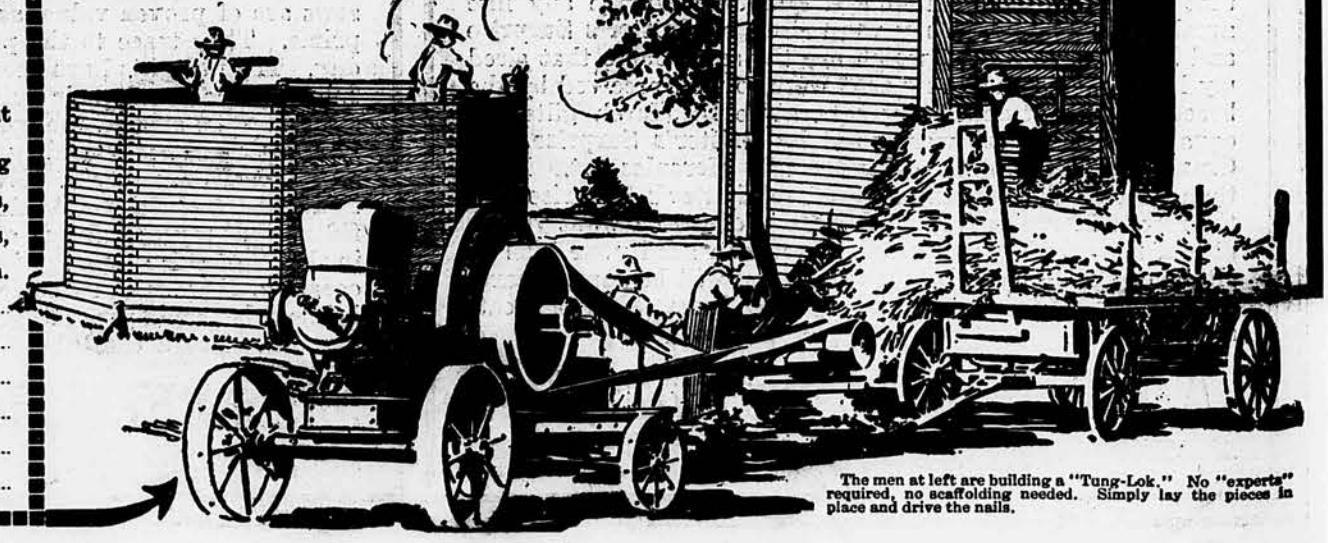
.....

Address.....

.....

My dealer's name..... .....

.....



The men at left are building a "Tung-Lok." No "experts" required, no scaffolding needed. Simply lay the pieces in place and drive the nails.