

Forty Pages

The *sp²*

Price Five Cents

FARMERS MAIL AND BREEZE

Vol. 44.

January 24, 1914

No. 4.

Eggs
When
Eggs
Mean
Money

Plans
and Cost
of Pit
Silos



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Use You
Make
of
Food

No
Dual
Purpose
Animals?

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A motor as large and as powerful as the power plant in most \$1200 cars.

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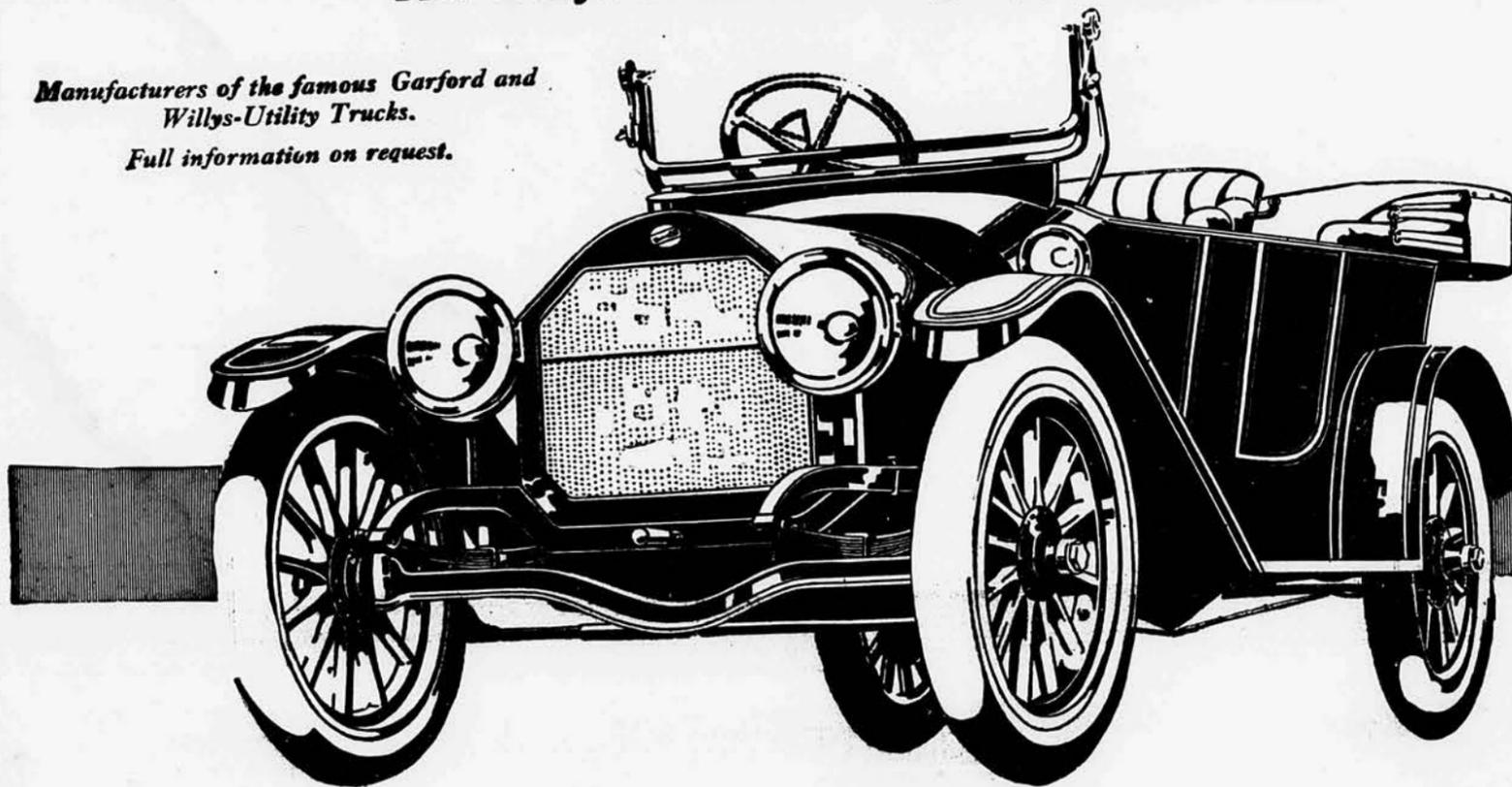
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THE FARMERS MAIL AND BREEZE

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Some of These Berks Go to Market

And Some of Them Stay at Home to Improve the Quality of Kansas Hogs—Alfalfa and Shorthorn Methods on the Bayer Homestead Farm

BY F. B. NICHOLS, FIELD EDITOR

MORE than 200 head of purebred Berkshire hogs are produced every year on the New York Valley Stock farm, on Owl creek, eight miles from Yates Center, Kan. This farm consists of 312 acres owned by J. T. Bayer. About one-half of these hogs are sold in the open market. The others go to breeders. The trade in breeding hogs reaches almost all over the United States. A small herd of Shorthorn cattle also is kept.

Much of the feed of the hogs in the summer is obtained on alfalfa pasture. About a one-fourth grain ration is fed to all the hogs, and in addition the pigs get some slop, which consists mostly of shorts. Mr. Bayer fully appreciates the value of protein for growing hogs, and when the alfalfa pasture gets a little short he begins to feed tankage. The protein in alfalfa is much cheaper than that in tankage, of course, so he prefers that the hogs shall get it from the crop when they can. When the alfalfa becomes woody, so the hogs do not eat it eagerly it is mowed, so that a good growth will start.

Considerable use is made of alfalfa hay in the winter as a source of protein, but some tankage is used also. Mr. Bayer believes that tankage can be used as an important supplement to alfalfa hay in supplying protein to hogs in the winter. The amount of slop and corn that the hogs receive is increased in the winter, but no effort is made to get the breeding hogs fat. The aim is to get growth, not fat. This is the reason such close attention is paid to the protein.

The hogs usually are sold for meat when from seven to eight months old when they weigh about 250 pounds. All these hogs are purebred, and some of the animals that go for meat have very good quality. Mr. Bayer believes that only the very best animals should be sold for breeding purposes. By enforcing this rule strictly a reputation for high class animals has been built up and it has paid.

Much of the good growth made by the Bayer Berkshires is due to the fact that they are on good alfalfa pasture. The soil along Owl creek is mostly of a limestone formation, well adapted to this crop. There now is about 40 acres of alfalfa on the place of which 10 acres is in hog pasture. The remainder is fenced hog tight, so it can be used if necessary. Alfalfa was the most profitable crop on the Bayer farm last summer, as indeed it is every year.

No special trouble has been encountered in getting a stand of alfalfa. The crop is sown in the fall following a spring grain crop. The land is plowed just as soon as the grain shocks are removed, and it then is worked after every rain until the seed is sown. Mr. Bayer tries to get a rather compact seedbed, and to have some loose dirt on top. This is obtained by the proper use of a disk and drag harrow, when a crust has formed on the ground.

Alfalfa usually is sown the last week in August, if the moisture conditions are right. Mr. Bayer does not like to sow the seed unless there is enough water in the soil to germinate it. The seeding is delayed until September if rain does not come; but it is not well to delay this seeding too long, or the crop will not make enough growth to withstand the

winter. When the rain does not come until well along in September, the seeding is done in the spring. It has been the experience on this farm that the fall sown alfalfa does the best.

Special effort is made to cut the alfalfa promptly, just as soon as the bloom has started. Mr. Bayer does not like to cut it before a few leaves of the new growth have started from the crown.

The hay is raked after it is well wilted, and most of the curing is done in the windrow and shock. Special effort is made to save all the leaves, and to get the hay into the barn with as good a color as possible. When rain comes—as rain has a special habit of doing when the first two crops of alfalfa are being cut in eastern Kansas—it is not possible to get the hay cured out well in the field, although this always is preferred when possible. When it is necessary to put hay containing much moisture into the barn it is often spread loosely over a large part

of the man who is mowing away the hay that he must not jump on it or drop heavy forkfuls on it. When A. M. TenEyck was professor of agronomy in the Kansas Agricultural college he cured some alfalfa hay in the barn by much the same method Mr. Bayer uses, and when he came to take out the hay in the winter he found that it had kept fairly well except in one spot, where it had spoiled. When he found this, he sought an interview with the man who had mowed the hay away. This man cheerfully admitted that he had jumped down on the hay on that spot in getting from the platform where the hay was dumped to the door.

As Mr. Bayer tries to pasture the alfalfa late in the spring and early in the fall, only four crops are cut on the regular hay land. The remainder of the growth is taken by the hogs. Considerable seed was harvested in 1913, which was the rule on many of the alfalfa fields in that section. Most of the crop yielded three tons of hay and six bushels of alfalfa seed an acre last summer, so it was profitable. The seed was threshed early and sold at once, and most of it went at a good price; from seven to eight dollars a bushel. This is higher than seed sold later in the season. It has been the experience of Mr. Bayer that alfalfa straw has considerable feeding value, and a profitable use always is made of it.

Thirty bushels an acre was the average yield of wheat on the Bayer farm in 1913. This was on rich soil, but the main reason for the high yield was good seedbed preparation.

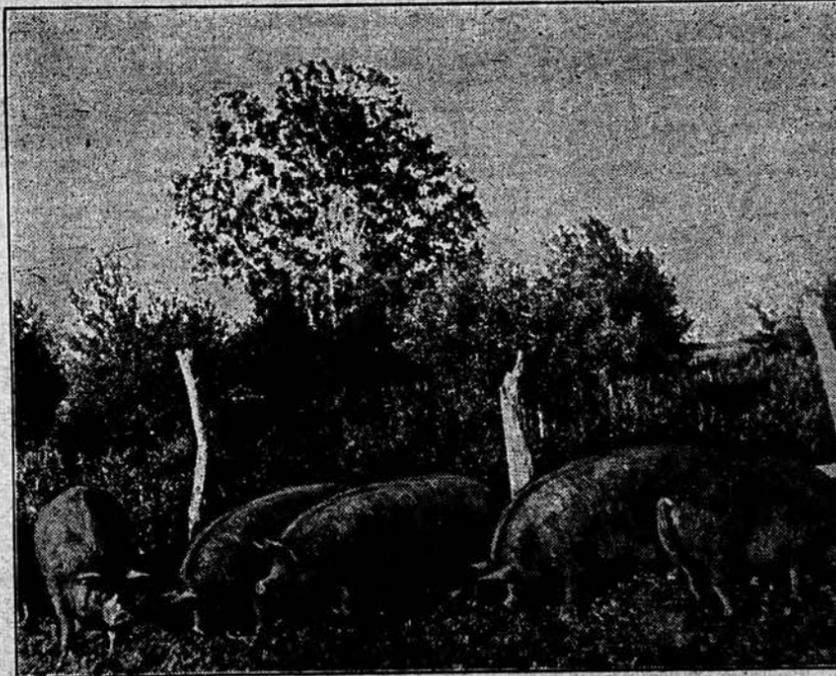
"We believe in deep, early plowing for wheat," Mr. Bayer said. "Our land is plowed seven inches deep just as soon as possible after the shocks of the previous crop are removed. This crop usually is oats, as we keep to our rotation program quite closely, but sometimes we grow wheat after wheat. The soil is worked after every rain until seeding time, and this puts the land in excellent condition in the latter part of September when the seed is sown."

A special effort is made with corn on the Bayer farm for quite a bit of the crop is sold for seed. Boone County White is the main variety grown, although some yellow varieties also are planted. The seed is

both top planted and listed. The listed corn made the best yields in 1913, which is the rule in a dry year. Some good ears were grown even if moisture was deficient, and several prizes were won at the Kansas State Fair at Hutchinson, and at the local fairs. Much of the good yield was the result of late cultivation. Mr. Bayer believes that the cultivation should not be stopped when the corn is too large for larger cultivators. He continues to stir the soil with smaller cultivators drawn by one horse.

The supreme aim in the farming on the New York Valley Stock farm is to conserve the fertility of the soil. All manure is hauled out on the land promptly, and there is considerable fertility in this, as almost all the crops grown on the farm are fed there. The wheat and some seed corn is sold, but more than enough feed, largely tankage, shorts and corn is purchased to make up for this. A very

(Continued on Page 29.)



Hogs form the principal source of the income.

of the mow, so the air can get to it and dry it out, and not deep enough to cause heating.

Sometimes it is necessary to pile up the uncured hay, and when this is the case it is piled just as loosely as possible. The hay is dumped on a rack, and mowed away by hand. No hay is dumped on the pile and no one walks on it. In this way the hay can be piled up in a loose manner so that it will cure. This method is successful, and it will give hay of good quality. It takes more work than that required with field cured hay of course, and for that reason the curing always is done outside when possible. This method is especially valuable in the spring, and much hay is saved in this way that would otherwise be badly damaged by rain.

When a man wishes to put moist alfalfa hay into the barn it is very important that he should impress

DEPARTMENT EDITORS
 Livestock Editor.....Turner Wright
 Field Editor.....F. B. Nichols
 Farm Doings.....Harley Hatch
 Markets.....C. W. Metzker

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PASSING COMMENT—By T. A. McNeal

Our Educational System ^{1/24 14}

A subscriber writes to ask whether, in my opinion, our educational system does good.

Certainly. I think that it does a great deal of good. One of the best evidences of its value is the effect on a community where there are educational institutions, both the ordinary and advanced. The people in the vicinity of these educational institutions are better educated, more orderly and law-abiding and more enterprising and prosperous, as a rule, than the people living in localities where there are few or no educational advantages. There is no doubt whatever in my mind that our educational system has been of immense benefit to the country.

Now if this subscriber had asked me if I believed that our educational system is as useful as it might be and ought to be I would answer that I certainly do not. I think that all honest educators will agree with that. Educational systems however, are evolutionary like government and civilization. Educators are learning by experience. Some of them are old fogies, reactionaries who do not believe in experiments. They would travel always in the same old beaten paths. They are built just like reactionaries in politics, in business, in religion.

Personally I am of the opinion that one fault with our present educational system is that it pays too much attention to the so-called higher education and too little to the foundation. Our rural schools as a rule are very far from being what I think they ought to be. I believe that with the proper kind of a revolution in our system of rural schools a great deal could be done to make country life more attractive and prevent to a considerable extent the drift of boys and girls from the farms to the cities and towns. I have mentioned this before, but now that I have this letter of inquiry it gives me an opportunity to speak of it again.

I would have the central school. My Socialist friend, Mr. Allen, wants the village system and we may come to that. There are some strong arguments to be made in favor of it, although the tendency of this country, even among those people who came from countries where they lived in villages and went out from them to their farms, has been away from the village idea, possibly because of the size of the farms out in this western country and the difficulty they had in getting to and from their work when they lived in villages.

The village idea would be this: Good roads radiating out from the central village of the district. Conveyances, perhaps auto wagons which would take the farmers to their work in the mornings and bring them back to the village in the evening. In the village would be the school building; where both a grade and a high school education would be furnished. There would also be an assembly room where the people could meet for entertainment purposes and for the purpose of discussing matters of interest to both the community and the state. Also, if people ever get sense enough to drop their foolish bigotry they could use this same assembly room as a place of common worship.

In connection with the school building would be a tract of not less than 40 acres of ground which would be cared for by the pupils of the school. It would be used as an experimental farm, and for garden and horticultural demonstration. Here would be tried out all sorts of experiments in the growing of grains, of fruits, and flowers, shrubs and trees. In connection with the school would be taught the latest discoveries in domestic science. Efficiency, economy and scientific methods both in the growing of grains, livestock and fruits would be taught, but also the most efficient methods of storing and marketing them after they were raised.

The village plan I confess appeals to me strongly for both social and economic reasons. For example, with the village certain public services could be performed co-operatively at less cost than they could be performed individually. The village could have its common water plant that would cost less than the aggregate cost of individual wells with individual pumps. It could have a common heating plant which I think would be a great improvement over the present method of heating. However, what I started out to talk about was what I conceive to be a great improvement over our present method of education.

If we cannot have the village then let us have the central country school with the same conditions as to the size of the experimental farm and the same idea to be carried out in the way of study and experiment.

One of the most serious problems that is facing

this country today is the waste of our agricultural resources. By our present haphazard, slipshod, unintelligent methods we are robbing our lands of fertility. We are destroying not only present possibilities of profit but what is worse, we are destroying the heritage of our children.

It is wrong, wicked almost, to go on as we are doing and leave to succeeding generations a land impoverished. For an impoverished soil means poverty everywhere, misery everywhere and finally bloody revolution and the overthrow of the republic.

Some Inquiries About Taxes

W. A. H., Fowler, Kan., asks the following questions:

1. Has the taxpayer the right to give in his personal property such as livestock, farm machinery, etc., outside of the city limits to save taxes?

Ans. I presume the inquirer means where the taxpayer resides in the city and may have some personal property outside of the city limits. No, he is supposed to list his personal property where he resides and pay on it whatever the tax rate may be there.

2. Where one resides in one county and holds a mortgage on land in another county, where should he give in the mortgage? Where the mortgage is or where he lives?

Ans. It is the note that is supposed to be taxed, not the mortgage which is given simply as a security for the note. The note being personal property, should be listed and taxed as other personal property, where the taxpayer has his residence.

Ventilation of Schoolhouses

Every person who has had experience teaching in the ordinary country schoolhouse knows how difficult it is to get proper ventilation. If the windows are kept closed there is a lack of fresh air and fresh air is necessary to the health and progress of the children. If the windows are either raised or lowered the cold wind is very apt to blow in on the heads of some of the pupils causing them to catch cold.

W. Moate, of Smith county, himself a school teacher I believe, makes the following very simple suggestion which has the merit of being very easily put into operation. Mr. Moate's suggestion is this: Cut a 1 by 4 board of a length that will fit perfectly in the window frame and place it under the bottom sash in each window. This will cause the incoming draft of air to flow upward between the upper and lower sashes so that it will not strike the heads of the pupils. The incoming draft would be on the side from which the wind happened to be blowing, while the foul air would be carried out with a downward draft on the opposite side of the building.

It will cost almost nothing to make this experiment and I believe that it will do the business.

Change the System

A subscriber at Elgin, Ia., writes me a letter which reads in part as follows:

Editor The Mail and Breeze—I have an only brother who enlisted five years ago this fall and like so many others got so lonesome for home and so sick of army life that he deserted after being in something less than a year. Now he is roaming the country, first one place and then another, causing great sorrow and many gray hairs to his widowed mother who needs his support. He enlisted in Chicago five years ago when he was 20 years of age and when asked by an officer how old he was, was told to lie as they would not accept anyone under 21 years of age.

This is one of a good many letters I have received from different parts of the United States and which is just another bit of evidence showing the fault of our present military system.

The government prints and posts a lot of seductive pictures for recruiting purposes showing a smart looking officer and his orderly. In the distance is the camp. The view is most pleasing and the impressionable lad gets the impression that army life is mostly a dress parade holiday. When he gets into actual service he discovers how badly he was mistaken but it is then too late to back out.

He finds that he made a mistake when he enlisted and then often makes a much greater mistake by deserting. He then becomes a hunted criminal, with a price for his capture and a term in prison ahead of him if he is caught. From our small standing army thousands desert every year. And so the army, which is supposed to stand as the embodiment

of order becomes under our system a creator of outlaws and vagabonds.

And this is wholly unnecessary. If we must have a standing army, which possibly is necessary until we get more civilized than we are at present, let that standing army be made a useful organization for the proper training and education of young men. Do away with penalties for desertion in time of peace. If the soldier wants to quit permit him to resign. Under the system I have suggested there will be no trouble in filling his place any more than there is now trouble in filling a vacancy at West Point. Do away with all social distinctions on account of rank. Make all promotions from the ranks after education and experience and on merit alone.

Limit the term of enlistment to six years and do not make the soldier life permanent. Divide the hours of the day into periods of work, study, recreation, with a reasonable amount of drill.

In short, make the army a great practical school which will pay a considerable part of its cost in useful service and best of all, will turn out a body of men eminently well fitted for every walk in life.

There need be no army of deserters, no fathers and mothers grieving over sons, disgraced, skulking fugitives with rewards offered for their capture.

They'll Repudiate Such Doctrine

A reader of the Mail and Breeze sends me the following extract from a recent issue of the Appeal to Reason:

The Progressives say they want to give every man a square deal; that is, they will decide what is a square deal, and then make a bluff at giving it to you. Socialists tell you to decide for yourselves what is a square deal for yourselves and then go get it. Get it out of your heads once for all that anybody is ever going to give you anything. Find out what you want and then take it. That's the only way you'll ever get anything worth while and be able to keep it.

I wonder if the writer of that paragraph stopped to consider what it meant. I can hardly think so, for it is not only dishonest but it is contrary to the doctrines of Socialism of which the writer pretends to be an exponent. When analyzed it is anarchy pure and simple. It means the rule of might and not the rule of justice.

"Find out what you want and then take it." Do honest Socialists approve of that? The honest Socialist claims that it is a fundamental doctrine of his belief that men shall have what they earn, not what they can take.

Socialism may be a faulty theory but it came about as a protest against the very doctrine preached in this clipping from the Appeal to Reason. Certain powerful individuals found what they wanted and took it. If the Appeal is right they were justified. They had the power to take and did it.

The history of the world is full of instances of that sort. The weak always have been crying out against the injustice and cruelty of that infamous doctrine. It was the basis of human slavery. The strong wanted the services of the weak and took them without compensation. The powerful few wanted the land and took it and lived in ease and luxury off the toil of others who had been robbed of their just rights. The powerful noble of feudal times saw the wife of his vassal and wanted her and took her, utterly disregarding the rights of the poor man.

David the king, saw the wife of Uriah and took her, conveniently getting rid of the husband by placing him in the front rank of battle that he might be killed. And for that injustice David was called to account by the fearless prophet of Israel.

Socialists say that every man should have the product of his own toil, but this doctrine would permit a lazy loafer to rob him of his earnings if he happened to be strong enough to do it. That doctrine would justify every aggression of capitalism, every robbery of the bandit, every thief that breaks into your house and steals your property.

And here is another quotation from the same paper:

There are four rules for getting rich: Be honest, be industrious, be hopeful and be patient. These rules, when applied by you, are sure to make the other fellow rich.

If that means anything it is condemnation of the cardinal virtues of industry, hope and honesty. It is not so evil as the first quotation but it is bad enough.

I happen to know a good many Socialists who are both intelligent and honest. They respect the rights of others and do not believe in the doctrine that a man has a right to take what he happens to want

if he has the power, nor do they scoff at honesty and industry. What's more, the writer of the first paragraph quoted does not dare to put his own doctrine into practice. If he did he would land in jail. Sensible Socialists know that such talk as this from the Appeal to Reason does infinite harm to their cause.

The same subscriber sends me a clipping concerning the action of Eugene V. Debs in taking the out-cast woman into his own home where he and his wife cared for her, and asks what I think of that. I say unhesitatingly that it commands my admiration. I know that there are people who say that Debs was simply grandstanding for advertising purposes, but I do not believe it. I have a great deal of admiration for Debs. He is a man of great heart and great ability. He is probably not fitted to hold the office of president for the reason that almost any smooth rascal in my judgment could work on his sympathies—not that I think Debs would knowingly favor a rascal, but because his sympathy and big heartedness would overbalance his judgment.

But as a private citizen and as an advocate of the equal rights of man, Debs deserves great credit and will have a place in history as a benefactor of his race.

Let us try to form our judgment of men and measures without prejudice.

An Optimistic View

Editor The Mail and Breeze—I have before me a letter you allowed to appear in the loyal old Mail and Breeze and will say it shows to us old hayseeds the fairness of your way of looking at the great problems of the times. I refer to the pessimistic view written by one A. B. C., commenting on another letter written by Mr. Hadley.

I am an old subscriber to the Mail and Breeze and like it above all farm papers that come to my home. One of my reasons for liking the paper is because you are not radical and give us a chance to air our heated arguments through the Mail and Breeze.

Now while I think well of Mr. Hadley, also of A. B. C., I cannot for the life of me see where they intend to get off. I am farming and expect to farm as long as I live. I was born of poor parents. They never owned a roof over their heads but they managed to raise 16 children, nearly all of them to manhood and womanhood.

I came to "Bleeding Kansas" in 1869. I own a few acres of the best land in the best state in the world. I find many men who will kick at something and complain about the hard times and rail at the man who happens to make a few dollars. There are others who are cheerful, no matter what befalls them.

I have raised 10 children, most of them nearly grown. Most of them married. They live near me and are happy and content. Some of them are renters. Why should we jump on you or anybody else because we did not get rains and had to go to the banks and borrow money to tide us over until next crop season? I do not think anybody will think any the less of me for that or condemn the banks for lending me the money. I am paying 8 per cent for money, but I have 100 head of young cattle and over 75 head of hogs. I will have to pay \$30 interest on my \$2,000 loan, for six months, but if my cattle do not make me \$1,000 they will not make a dime. The bank is helping me and I am helping myself.

Is not this way of living and trying to let live better than snapping and growling at everybody who is making more money than I am? I don't want the earth. What I want is plenty to eat and wear and to have a chance to lay by a little for old age. The man who farms intelligently and is honest can lay up something for a rainy day.

F. P. MERCER.

Conway Springs, Kan.

And here is another letter that strikes me as a calm and sensible sizing up of the situation:

Editor The Mail and Breeze—I noticed in a recent issue of the Mail and Breeze communications from three different Kansas farmers telling of very unsatisfactory farm conditions in their respective localities. It is true no doubt that the conditions mentioned exist to a certain extent over a large portion of the corn belt states as a result of the extreme drouth during the past season.

The worst feature of the situation is that the present market price of livestock, although by no means low, is too low for the farmer to realize a profit on his stock, taking into consideration the extreme high price of corn and all kinds of rough feed. But these conditions are only temporary and a favorable season and good crops in the year 1914 would bring about a readjustment of values and put farm products and livestock on a paying basis again.

Judging from the tone of the articles written by those men it seems to me they are inclined to look on the dark side of the situation. A. B. C. would have us believe that the average farmer is the most unfortunate son-of-a-gun on the face of the earth. In his gloomy discourse he tells of farms grown old and unproductive; of farms new and in a virgin state with bountiful crops and corn selling at 10 cents a bushel, hogs at \$2.50 a hundred weight, and calamities galore. I suppose it never occurred to A. B. C. that a hog in a good thrifty condition could be fed on 10 cent corn and sold at a profit of \$2.50 a hundred weight.

There are at present and always have been, and no doubt there always will be two classes of American farmers. One class we will call Class B. Fortunately only a small minority of the great army engaged in agricultural pursuits belong to this class. The Class B farmer is generally of not much account; always complaining about hard luck and the drudgery of life on the farm; always cussing some political party or class of men. If he happens to be fortunate enough to get hold of a good farm in the beginning of his career he does fairly well for a few years, until the land begins to show the effects of his slipshod methods of farming; in other words, until it begins to grow old and unproductive as a result of the system of soil robbery he has practiced.

He usually keeps an inferior class of livestock and as a rule it is fed and cared for in a shiftless manner. During the cold winter months his stock wanders about the place during the day, looking

for water or feed, and at night each animal gets on the southeast side of a fence post to escape the cold wintry blasts.

Everything about the place is in a dilapidated condition. His machinery is standing out in the fence corners at the mercy of the elements. Finally his farm gets so poor and run-down it won't raise a disturbance and he is compelled to throw up the sponge and in the language of A. B. C. join the down-and-outs.

Now let us take Class A farmers. Seventy-five per cent of the American farmers belong to this class. The farmer of this class is prospering and his methods of farming are up-to-date. He runs his farm systematically and on a sound business basis, thereby largely eliminating the so-called drudgery of farm life. His farm never grows old nor unproductive. He keeps up the fertility of the soil by rotation of crops and by the application of home-made fertilizers which are always in evidence around the feed lot as a result of marketing all the grain and different forage crops through the medium of livestock fed on the farm for the market.

The Class A farmer is always striving to better his condition. He realizes that life is too short to fool with anything of an inferior quality, therefore everything on his farm in the line of horses, cattle, hogs, sheep or poultry is high class and their owner knows at all times that they are paying for their keep and netting him a profit.

It is a well known fact that this class of farmers is getting more numerous and that in this day and age there is not much room for the shiftless farmer. This is gratifying, as the welfare of the nation depends on the man behind the plow.

JAMES F. MENEHAN.

Summerfield, Kan.

On the other hand, here is a reader whose confidence in me appears to be shattered although he addresses me by an endearing title. He says:

Editor The Mail and Breeze—I would like to say that I have been a reader of the Mail and Breeze for quite a while, and have been a booster for this paper because I thought that you would give the farmers a square deal, but it seems when we come to put you to a test that you will not come through with the goods.

As to A. B. C. in this issue of the Mail and Breeze, you say that you trust he will feel better since getting the above out of his system. There are plenty of just such cases as A. B. C. speaks of here in my neighborhood. In regard to Mr. Joseph Lembeck of Coffeyville, Kan., you say that he is laboring under some mental delusion. Are you this far from the condition of the farmer? If you are I would like to see you get right. I have been a farmer all my life and know whereof I speak.

FRED HARRIS.

Soldier, Kan.

I have no idea as to what I have done to shatter the trust and confidence of Mr. Harris, but sad as it may be, sooner or later the best of friends must part.

But here is a letter that is somewhat different again, as Abe Perlmutter would say:

Editor The Mail and Breeze—Let A. B. C. come again. It is a little the funniest article I have seen in the Mail and Breeze for a long time. It is so foolish. If this A. B. C. sees so many snaps in town why doesn't he sell all his farms and move? I have slopped hogs and fed calves all my life. I am not so stout as Jack Johnson, either.

I will admit we farmers don't get our just dues but I think A. B. C. will admit he just gave the dark side of farming.

A FARMER.

Bern, Kan.

And here is still another farmer who is inclined to take an optimistic view:

Editor The Mail and Breeze—I think a farm, if run on a strictly first class basis is one of the finest occupations in the world. I think any farmer to be successful must practice crop rotation and also must fertilize his ground. Growing the same crop year after year on the same ground is bound to finally exhaust its fertility.

Some people have not the kind of ability that is required to make a good farmer. Such men cannot make a success of farming and maybe at nothing else. In all parts of the United States we have ignorant and uneducated farmers, but do you think they would make a success in the city?

If A. B. C. could see and know the condition of hundreds and thousands of poor people who live from hand to mouth in every city of any size in the world he would perhaps not think the farm such a dreary, miserable place of existence after all.

The farm is like the city in this respect. We have well-to-do and poor people on the farms, as there are poor and rich in the cities, only there are more of the destitute class in the city than on the farms.

CLAY WAGONER.

Matfield Green, Kan.

And on the other hand, here is a letter from a breeder of Hereford cattle and Duroc-Jersey hogs in South Dakota:

Editor The Mail and Breeze—For several years I have been very much interested in "Passing Comments," but must say that A. B. C. in a "Pessimistic View," in the January 3 issue hits the nails square on the head and drives them every one home with facts that cannot be argued away.

We have several of those dudes up here. They tell us we surely ought to have consolidated schools so our boys can learn to play ball and get the necessary exercise; also that we should tax ourselves to make roads so that the leisure class can run their autos from 60 to 80 miles an hour.

Hope some more level-headed tillers of the soil will take the time to write a few lines in the Mail and Breeze and I shall be tempted to subscribe for another year.

L. B. BARKLEY.

Wagner, S. D.

Now when farmers whose interests are supposed to be in common, will differ so widely as these letters indicate and all of them presumably honest in their opinions, is it remarkable that sometimes things do not seem to move along so very fast?

My own judgment is that the farmers of the United States can secure in the way of legislation whatever they want, provided they ever arrive at anything like a unanimity of opinion as to what they really do want.

Kansas Needs Better Roads

The Farmers' Grange Favors Good Highways

BY H. J. WATERS
Kansas Agricultural College

The farmers favor federal and state road roads, because it be- poor roads exact a heavy who use them; that they necessarily the cost of get- icts of the farm to the he consumer; that they in the way of the devel- atisfactory system of rur- at they contribute mater- eacy of the rural church; d the drift of young peo- country to the city, and le to the development of rural civilization.

has favored every move- to the betterment of the unities. It used its in- omote the establishment ee mail delivery, the par- agricultural experiment evelopment of the Depart- culture, and considers a n for the improvement of f equal importance with

or Motors Alone.

Grange recognizes the in- automobile owners and r in cross-state highways, on is firm in its convic- economic needs of the he consumer are of para- ance, and therefore, be- market roads should be improved. This is in line asiness principles, and it aterial saving in the most in proportion to the bus- adated. For illustration, tate Highway commission usive traffic records in that howed that the main road he country from the mar- the second or third cross- tance of from two to four our or five times as much he roads beyond this dis-

public roads at Washing- that 20 per cent of the lic highways in the Uni- y 90 per cent of the traf- o Better Roads. There is ve that 10 per cent of the ississippi valley bear three- burden of business. Ob- atest good to the greatest s that the roads that bear ffie should be improved

rt of the expense is borne government, and it should le and fair part, should uch manner as to stim- d local activity in road should be a co-operation state and the local com- carry out this program : manner it will be nec- se, for every state to hwy department, which rely divorced from pol-

ime, Not Miles.

measured in time or cost, it costs no more to trans- of wheat from New York an it does to haul it nine verage country road. It age of 23 cents a ton freight over the average . In Belgium the high- n so improved that this reduced to 8 1-2 cents a a little more than one- it costs us in America. costs 9 cents. In Great ance 10 cents.

have in Kansas one of ms of dirt roads in the n part to the favorable mate and part to the en- farmers and citizens in otherwise keeping up t, according to State En- it is costing about 11 a year to get the product from the farm station. Engineer Gear- that 10 per cent of the lly 75 per cent of the s 10 per cent were im- cost reduced a third, a difference in getting

the products from the farm to the rail- way stations of from 3 to 3 1-2 and 1-2 million dollars—a nice saving indeed, in the cost of living or a substantial in- crease in the profits of farming.

During the months of September, Oc- tober, November and December, when the country roads are good, we always have a car famine, and there is more or less agitation to compel the railroads to fur- nish more prompt service. The railroad men best able to judge estimate that it would require seven times as much equipment as the railroads now have, and would mean an expenditure for the business of Kansas alone, for ex- ample, of 100 million dollars for new cars, if the bulk of the shipping were done immediately following threshing. These extra cars would be idle for the balance of the year, and another heavy investment would have to be made to provide storage room for them while they are not in use.

At present the grain and other farm products are stored in Kansas City, St. Louis, Chicago and New York, in eleva- tors and refrigerators located on ground worth from \$25 to \$50 a square foot. The stored grain when in large bulk must be moved about every 30 days to keep it from heating. This grain should be stored in co-operative elevators in the country where land is cheap and the perishable farm products should be held in co-operative storage houses so that they might be delivered to the market centers at periods of the year when the prices were most satisfactory.

Prevent Double Hauls.

This would relieve all car shortage, and the farmer would get a better price for his products without adding any burden to the consumer. This plan also would prevent much of the double rail- way hauling that now is so common. We ship products out of the locality in which they were produced, and later ship the same products, or their exact equivalent back to these communities to be consumed.

The more complex our types of agri- culture become, the more they are de- pendent upon the means of rapid and uninterrupted transportation. In the early days when our system of agricul- ture was primitive and our mode of living simple and almost wholly de- pendent upon what was raised on the farm or in the local community, if we did not get to town one week, the next would answer almost as well. Our pres- ent population cannot be fed under the old system of production, and will not long be fed adequately under our present system of farming.

We need to stimulate and develop dairy, fruit and vegetable farming, as rapidly as the increase in consumption will justify, for these are the types of farming that sustain the densest pop- ulation. But, without good roads these industries will not thrive, only such types as hay and grain farming survive under a system of indifferent roads. The dairy districts of Wisconsin and Illinois have more than 60 per cent of their roads improved. New Jersey, the leading vegetable and canning state of the Union, was the first to grant state aid to highway improvement and one of the first states in the Union in point of highway development.

Roads Help Schools.

Good roads have always been closely associated with and a necessity for de- veloping a good system of rural schools. In the five states of the Union which have the best system of public roads the average length of the school year is 180 days. In those states that have given the least attention to road im- provement the school year is less than half as long. Of equal significance is the fact that in the states with im- proved roads the average daily school attendance is 78 per cent while in the states with unimproved roads it is 59 per cent.

There are 55 oaks in the United States, about evenly divided between the east and the west. The eastern species, and particularly white oaks, are the most valuable.

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Answering Questions From the Farm

Problems in Feeding and Caring For Livestock, Solved in Our Own Service Bureau For Mail and Breeze Readers

By Turner Wright, Livestock Editor

THE Farmers Mail and Breeze has served its thousands of readers for many years. It has been one of its chief pleasures, too, to give the service that meant the saving of dollars and cents for its big family. It proved this last fall when it published free, hundreds of advertisements from stockmen who wished to buy feed and from farmers with feed to sell—a service still actively in operation. This one departure brought feed and feeders together in the most satisfactory manner at a time when just that kind of service was needed.

Every letter received in the Mail and Breeze editorial rooms is answered as promptly as possible. Sometimes the livestock editor, the field editor or the poultry editor may be out of town, for these men did not learn their agriculture in an office—and they spend much of their time in the field. Sometimes letters remain unanswered for several days, but every effort is made to give them prompt attention. Every letter is welcome. The service bureau belongs to the Mail and Breeze readers.

Does Silage Injure Cows?

How long can a cow be fed silage before it injures her stomach and teeth?—C. S. Nuckolls county, Nebraska.

I have never known silage to injure the teeth or stomach of dairy cows or of any other class of cattle. Silage has been fed to cattle for many years and I know of no instance where it has had this effect. I have seen several high producing cows that have been fed silage for 10 or 12 years without any bad results. Maid Henry, the record Holstein cow owned by the Kansas Agricultural college, has been fed silage all her life. She is now 14 years old and still has all the teeth that a cow is supposed to have. Our correspondent need not fear to feed silage because of any danger of this kind during the natural period of usefulness of the cow.

Feeding Flaxseed Meal.

I notice in your issue of December 27, that you advise W. J. of Kay county, Oklahoma, to feed his calves flaxseed meal. Where can you get flaxseed meal at from one to two cents a pound? It is impossible to buy it here for less than eight cents a pound.—J. D. P., Lyon county, Kansas.

In the article in question the term "oil meal" was used instead of "flaxseed meal." The writer of the article had reference to the byproduct commonly known as linseed oil meal and not the ground flaxseed. Flaxseed meal contains about 20.6 per cent digestible protein, 17 per cent digestible carbohydrates and 29 per cent digestible fat. It is not, however, used to any considerable extent as a feed because of the value of

the seed in the manufacture of linseed oil, and the expense of grinding. The fat and carbohydrates, or fat forming material, contained in corn answers the same purpose and is much cheaper.

Linseed oil meal, old process, is the residue left after the oil is pressed out of the flax seed. This residue usually is ground into meal and sold for feed. It contains more protein than flaxseed meal and not so much oil or fat. Every 100 pounds of old process linseed oil meal contains about 30 pounds digestible protein; 32 pounds digestible carbohydrates and 6.9 pounds digestible fat. Old process linseed oil meal was quoted on the Kansas City market December 27 at \$29.50 a ton.

Artichokes for Hogs.

Will some of your readers please tell me what they think of artichokes as a feed for hogs? They were grown for hogs in this community years ago but we never see or hear of them now.—C. N. B., Lewis county, Missouri.

The fact that persons who formerly grew artichokes for hogs do not grow them now is significant. I know of no one who has grown them many years in succession. They have been often recommended as a hog food but notwithstanding this they have not come into general favor among hog growers. Pasture crops and other succulent foods seem to be more profitable.

The Oregon experiment station, bulletin 54, reported an experiment in which six pigs, weighing from 113 to 215 pounds, were fed on artichokes and grain. The grain fed consisted of wheat and oats. About 310 pounds of grain in addition to the artichokes was required to produce a hundred pounds of gain. They may be harvested as potatoes or the pigs can root them out of the ground at will.

Remedy for Worms.

I have some fall pigs that are wormy and unthrifty. Can you give me a remedy?—E. I. G., Sedgewick county, Kansas.

Keep the pigs off feed 24 hours and then give 8 grains of santonin and 4 grains of calomel to every 100 pounds live weight of pigs. It is best to separate the pigs into bunches according to size, so that every pig will get the right amount of medicine. There should be no more than 10 pigs in a bunch for best results. Stir the proper amount of medicine, for a bunch, into a thin slop of wheat middlings or shorts. Be careful to mix the medicine thoroughly with the feed and break all lumps. Do not give more feed than the pigs will eat readily. Give a feed of wheat bran in the form of a slop about six or seven hours after giving the medicine. This

will help to carry off the worms. Keep the pigs in close pens so that the excretions can be burned or thoroughly disinfected. Quicklime is a very efficient disinfectant. If the hogs are badly infested it will be well to repeat the dose in seven or eight days.

It will be a good practice to give the government formula as a tonic and preventive at intervals of two or three weeks, after the pigs are free from worms. This formula is given here:

Government Formula.

Wood charcoal1 lb.
Sulphur2 lbs.
Sodium chlorid (salt)2 lbs.
Sodium bicarbonate (baking soda)2 lbs.
Sodium hyposulphite2 lbs.
Sodium sulphate (glauber salts)1 lb.
Antimony sulphide (black antimony)1 lb.

These ingredients should be completely pulverized and thoroughly mixed. In case there is profuse diarrhea the sulphate of sodium may be omitted. A large tablespoonful once a day for each 200 pounds live weight of hogs to be treated is a dose. The medicine should be thoroughly mixed with the feed, which should be soft.

Pasturing Frosted Kafir and Sorghum.

I sowed some sorghum and kafir last summer and as dry weather prevailed it did not come up until late. It made enough growth to cut and then wet weather came. It was killed by frost before I could cut it. Will there be any danger of its injuring horses if they are turned in the field?—R. S., Marion county, Kansas.

There is always some danger in pasturing frosted kafir and sorghum though it is usually slight. I do not think there is any more danger of loss from pasturing these feeds than there is from feeding similar feed that has molded in the shock. It seems that with the present scarcity and high prices of feed farmers will have to take some risk in order to keep from running up a feed bill that will amount to more than the worth of their stock.

Feeding Alfalfa Hay to Horses.

As I have never fed alfalfa hay I should like to know its value as a feed for work horses in the spring. I can get alfalfa hay at \$16 a ton, corn at 70 cents a bushel, and mill run at \$1.30 a hundred. Which of these feeds will be the best to buy? Will caked alfalfa hay that was baled too green hurt the horses? I consider mill run and corn chop, mixed equal parts, an excellent feed.—E. S. L., Neosho county, Kansas.

Alfalfa hay, judiciously used, is a good feed for farm work horses and one of the cheapest the farmer has at his disposal. It should be cut at the proper time and be considered as a concentrate rather than a roughage. We say, ordinarily, that the proper time to cut alfalfa is when it is one-tenth in bloom but this makes a hay that is too "washy" for horses. It should be more

mature when cut to make good horse hay, and care should be taken to prevent spoiling or moulding. Mouldy or musty hay is injurious to horses. The caked hay that was cut too green will not be a good feed.

If fairly well matured, well cured, clean alfalfa hay can be bought it may be substituted at the rate of about one pound of alfalfa for one and one-half to two pounds of prairie or timothy until from one-third to one-half of the prairie or timothy has been replaced with alfalfa. The amount of mill run can then be reduced until the grain ration is two parts of corn and one part mill run, or if bran is much cheaper than mill run, it can be fed instead.

Feeds for Dairy Cows.

I can buy cold pressed cottonseed cake at \$22; cottonseed meal at \$28, and cottonseed hulls at \$8 a ton. Which of these feeds will be the cheapest for dairy cows?—K. C., Harvey county, Kansas.

Cottonseed meal will be the cheapest of the feeds named. Cold pressed cottonseed cake is lower in protein and higher in crude fiber content than the meal and is, therefore, less valuable as a concentrated feed for dairy cows. Cottonseed hulls are very low in protein and can hardly be compared with the other two feeds because they serve a different purpose. It is generally estimated that cottonseed hulls have a feeding value a little less than that of oat straw.

Winter Pigs Have Scours.

I have had more or less trouble with scours in my winter pigs for several years. The trouble comes when I try to feed the sows shorts, skim milk, tankage, or even alfalfa hay as a supplement to corn.—L. E. P., Cowley county, Kansas.

It is impossible to say just what is the cause of the trouble without a direct study of the existing conditions. The most frequent causes of scours in young pigs are damp beds, insufficient exercise, overfeeding, feeding sour feeds, and abrupt changes in feed. The most likely cause in this instance is overfeeding and lack of exercise. The addition of the milk-producing feed to the mother's ration causes an increased flow of milk and if sow and pigs are not encouraged to take exercise digestive troubles in the little pigs are the result. Care should be taken to prevent the young pigs from getting out in muddy lots on damp, cold days as colds and indigestion are sure to follow. It should be remembered that exercise, sunshine and dryness are the best tonics we have for little pigs. If they show signs of scouring the mother should have 1 or 2 teaspoonsful of tincture of opium in the feed twice a day until the trouble is checked.

A Good Book For Boys

BY JOSEPH HAWK,
The Office Boy.

Any country boy can read "Joe, the Book Farmer" and become a successful, scientific farmer if he will strictly follow the instructions given by the government agricultural papers. The methods are so simple and so easily understood that any boy who is not afraid of a little hard work could convert poor soil into good land, and in one season bring in large returns. Joe realized the importance of strictly following the instructions of the government papers he was reading. So could any boy succeed if he would read this book and farm exactly as Joe did no matter how inexperienced.

Joe is a boy of good common sense and business-like ideas. He was honorable in his dealings with Mr. Somerville, and his manliness in his home would impress boys with his fine character, and influence them for good. The book would be fine for this reason if

no other. Instead of reading so many books that are not beneficial it would be better to read this one because the characters are so good. Any ambitious boy can secure valuable farm training by putting into practice the ideas set forth in the story of "Joe, the Book Farmer."

The foregoing review was written, as the caption shows, by the office boy. The assignment was given him because the editor wished, first, to see if the office boy valued what he read, and second, to see what effect such a book really had on a thoughtful boy. It is hoped that Harper & Bros., the publishers, will see the value of the office boy's review. The piece is printed precisely as the boy wrote it.

Forage Crops For Growing Pigs

Farmers and pig growers do not always appreciate the value of green feeds and succulent pastures for their animals. Too often the hog is considered a scav-

enger and his ability to use waste is regarded as his chief value. However well he serves this purpose, he will pay well for good care, feed and housing.

Forage crops are especially beneficial to young growing animals. It is possible to grow them much more profitably and successfully when a good green field of palatable and nutritious pasturage is provided. Experiments and practical farmers' experiences prove that gains in weight are made at less cost on forage than in the dry lot. Brood sows can be carried through the season on pasture at less cost than when grain fields are entirely depended upon. Foraging induces the animal to exercise and obtain fresh air, and these prevent diseases being contracted, and when the animals are put in the fattening pen their gains are unusually rapid and profitable. The green feeds eaten are of much value just to keep the pig's digestive system in good condition and the appetite keen.

The entire hog herd can be run on forage crops and will profit by this

method of management. Younger animals seem to derive the most benefit, and fattening hogs the least. Herd sows and the herd boar are benefited by having green feeds. It is a good plan to have the brood sow running on green pasture at farrowing time, as this is conducive to a strong, healthy litter of pigs. She should be kept on green forage from the time she farrows. The young pigs will soon learn to eat, and the exercise and the green food in its natural state will start them along in good condition.

The method of feeding when on pasture will necessarily vary according to the kind of crop used. If the crop grown be rape, alfalfa, clover, cowpeas, soy beans, or other crops high in protein content, the grain ration need not be supplemented by feeds high in protein. If bluegrass, rye, oats or other non-leguminous crops are grown, it is best to add a small percentage of feeds high in protein to the grain.

You can't do much for a young man who buys jewelry and cigars on credit.



A Yard of—Who Knows What?

Few Persons Have Ever Seen a New Wool Dress

BY MRS. B. W. BIRDSALL
Kansas Agricultural College

AMERICAN people are so accustomed to an abundance of wool clothing, and the knowledge that wool is produced in almost every country is so reassuring that it is a surprise to learn that the sheep of the United States produce yearly only 21 ounces of new wool for each person. Add to this the wool imported, amounting to 40 ounces, and we have a total of 61 ounces for each one of the 90 million inhabitants of the United States. Reduce this quantity by waste in manufacturing, and we find that all the new wool produced, if manufactured without admixtures, would yield only 43 ounces of wool cloth as a year's supply for each person—barely enough for one suit of clothes.

Many other things such as carpets, rugs, blankets, felts and upholstery, are made of wool. Yet the supply of wool goods seems to be plentiful. This is explained by the fact that wool may be used over, not only a second time, but innumerable times, until the fibers are worn out. Wool is therefore blended. It is seldom that a pure wool is used for fabrics; if it is pure, the material is costly.

One-third of the woolen cloth on the market is made from old rags worked back into fiber and respun. These rags are ground, washed, and prepared for mixing with new wool. These substitutes are called by various names—shoddy, mungo, noils, flocks and extracts. If an all-wool fabric is wished these cheap wool substitutes are used. Cotton is another substitute frequently used. There is not so much danger of adulteration in staple goods as in the "novelties," which come out in different patterns each season. These one-season materials, whether high or low priced, are frequently manufactured of made-over products or loaded with cotton.

There are several tests that can be applied to woolens, but the one by touch is the only one that can be made at the stores. The buyer must be familiar with the "feel" of goods to make that test. It is best to get a sample of the material to take home. Put it in a solution of caustic potash and the wool will dissolve, while any cotton fibers present will be seen floating in the solution.

For service nothing equals storm serge; twills are also good. It is not wise to buy material that has a fuzzy surface on one side, for such goods is adulterated with shoddy, which will soon wear off, leaving the cloth worn looking and old. Beware also of so-called woolen goods that wrinkles easily; it is quite certain to be loaded with chemicals.

May Be Silk, and May Be Not.

Silk, the most beautiful of all the textile fibers, lends itself easily to adulteration. A variety of materials are made from silk, ranging from chiffons, laces, dress fabrics and underwear to upholstery and hangings, and the demand for low prices has caused the manufacturer to use adulterations and to substitute other fibers for it. Unfortunately, not even a high price insures a silk that will wear well.

Expensive silk that had split where there was no strain has been tested and found to be weighted with 5 to 58 per cent of adulterants. In the old fashioned silks there was so small an amount of adulteration that they were virtually pure. When strong chemicals are used to remove the color from the solid ground, as in polka dot or sprigged materials, it will "rot" the material. Some of the substitutes used instead of silk are spun silk, Lea Island (a fine grade of cotton), mercerized thread, resembling

silk, and artificial silk, which is a derivative of cellulose or gelatine and has much luster but lacks the strength and elasticity of real silk. All these substitutes materially decrease the cost of production.

Pure silk requires no dressing. It is finished by pressing. Cheaper silks have dressings of rice water, starch, glue, isinglass, gums, waxes, gelatine and dextrine. All these have a tendency to weaken the silk, until the fibers easily break down. Silk when it is pure and well manufactured is strong, light, clean and durable. But it is often loaded before it is dyed with such substances as bichloride of tin, mineral salts and dyes, and until the yarn has absorbed from twice to four times its weight of these adulterants.

One who is so fortunate as to get hand woven silk will find upon examination that the threads are perfectly round. Most of this silk is imported. If the threads are flat it is certain to be machine woven.

Pure Linen Wears for Years.

Because of the great value of linen it is also often adulterated. The flax fiber, from which the linen is made, is strong, and when properly manufactured will wear for years, as is proved by the remnants of our grandmothers' homespun. It absorbs water, does not fluff up, is smooth, stiff, slippery, cool, and heavy in weight. Owing to these qualities linens are to be recommended for household purposes, hygienic clothing, and surgical use. Adulterations in linens are due to gums, starches, glues and clays. Large quantities of this sizing give to the poor qualities of linen an attractive appearance; all these adulterations are removed by washing.

When the flax fibers are combined with cotton they produce a cheap linen which does not wear well. This mixture can be detected by the surface wearing rough and fuzzy. Calendaring, or heavy pressing, is also sometimes used to deceive. It gives a high gloss, and when cotton is treated this way a good imitation of linen is produced.

Even Cotton Is Deceptive.

The quality of cotton cloth depends upon the strength of the fiber, the fineness or coarseness of the material, weave, color, design, and the adulterations. Cotton is never adulterated with any other fiber, but its weight is often increased by additional sizing after the cloth is woven. Sizing is the process of adding a dressing to a fabric. It does not increase the wearing qualities, but on the other hand may have a tendency to injure the fibers, through the chemicals used. Light sizing is 10 to 25 per cent of the weight of the yarn, medium sizing 25 to 50 per cent (used on light fabrics), and heavy sizing 50 to 100 per cent of the weight of the cotton yarn.

This adulteration may be easily detected by the feeling, as a large quantity imparts harshness to the material. In very thin fabrics sizing may be detected by holding the cloth up to the light. Tearing will often cause the starch to fly, while washing or boiling will show the amount of sizing present.

Cotton materials depend greatly upon finishing for their effect. In the soft and supple finishes glycerine, fats, oils, and waxes are used. Gloss, such as is found in percalines, silesias, and percales, is furnished by starch, mucilage, and gums, and by the hot calendaring or pressing. Mucilage and gums are also required in swisses, tarletans and lawns. Cretonnes and canvas are weighted with clay to give a solid appearance. Cotton

is substituted for half silk, wool, and linen. Mercerized cotton is much used in combination with other fibers.

Since women are supposed to spend the family income economically, and since 12½ to 15 per cent of the income must be spent on clothing and household furnishings, they will find it well worth while to give a careful study to this phase of household economy. More thought must be given to the purchase of common fabrics. Certain standards should be secured for textiles, that the consumer may be able to buy intelligently. "Pure textiles," like "pure foods," should be enforced. In both cases the term "pure" should mean material honestly standardized and labeled.

No Women's Party in Kansas

By the unanimous vote of the judges, the prize of a silver cup, offered by Arthur Capper for the best letter from a Kansas woman telling how the newly enfranchised women voters could use their power for the best interest of the state, was awarded to Mrs. Lula R. Fuhr, Meade, Kan. High honorable mention was awarded to Mrs. Grant Hornaday of Fort Scott, and Mrs. Lizzie W. Smith, wife of Judge C. W. Smith of Stockton.

The first thing the women of Kansas should do, said Mrs. Fuhr, is to instruct themselves in the wise use of the ballot. They should seek information from every reliable source and vote independently.

Mrs. Fuhr does not believe that women should have special issues for which to stand. Their good is the common good of all. She says:

"Women should not have any special issues of their own. The best results are obtained where men and women work together side by side. Men and women should counsel each other, come to joint conclusions, and enact their common opinions into necessary laws. If women begin with pet issues of their very own, they may end by the practice of political bargaining, which fosters corruption in the body politic."

In her letter Mrs. Fuhr says the greatest need of Kansas is for wiser mothers and more patriotic politicians. The hope for betterment is in organizing for the study of eugenics, psychology, civil government and political economy.

Making a Pit Silo

As I have helped introduce the pit silo in northwestern Kansas I think I can help your correspondent, at Hill City, who has had trouble with his silage. The moisture does not escape through the walls of the silo as he intimates, for if it is made right it will hold water like a jug. His silage probably spoiled because the walls of the silo were not true and smooth so that it could settle properly. A rough or slanting wall keeps the silage from packing, thus allowing the air to enter and the silage spoils.

The plaster will not freeze and crack if some sort of cover is put over the silo. We have two pit silos that we have used for two years and the walls are as perfect as they were the day they were finished. If the pit silo is made right it will give as good results and be almost as convenient as the overground silo. In fact the overground has only one advantage over the pit and that is in getting the silage out, but this advantage is not

so great as one who had never used the pit silo would think.

The quickest, easiest, simplest, and cheapest way to get the silage from a pit silo is to set two tall forked poles, one on either side of the silo, and then put a cross bar or pole in the forks of the other two. Fasten a pulley to this cross bar. Make an old-fashioned windlass with a 6-inch rope drum to use for hoisting. Next make a bucket, with a trap bottom, that will hold about 150 pounds of silage. A man with ordinary strength can quickly draw up this amount. The block and tackle method is all right in theory but the ropes twist so badly that it is not practicable.

A good ladder will be indispensable with any method. We like this one. Take six 2 by 4's 8 feet long and bolt them together in sets of threes, lapping the ends about a foot. Use two bolts at each lap. Nail on the steps or rounds and then remove the bolts. This will give a 22-foot ladder in three sections.

Lean one section of the ladder against the wall when 4 or 5 feet of the silage has been fed and when 8 feet of the silo has been emptied fasten the top of the ladder to the cover of the silo so that it will hang against the wall. Lean the second section against the first when 4 or 5 feet more of the silage has been fed and when it is down 16 feet, the second section can be bolted to the first. The third section can be added in the same way. This ladder is made for a 25-foot silo.

Norton, Kan.

E. Wray.

Let the Breakfast Call

mean a dish of crisp, golden-brown

Post Toasties

served with a sprinkling of sugar and some rich cream.

This delightful food made of choice Indian Corn—flaked and toasted—is ready to serve direct from the package.

Just the thing for breakfast, lunch or supper, winter or summer.

A try tells why!

Toasties are sold by grocers—everywhere.

The Chinch Bugs Cost You Millions



First in the Wheat and Then in the Corn They Rob the Farmer's Store

BY J. W. McCOLLOCH
Kansas Agricultural College



BY EARLY November in Kansas all the chinch bugs have gathered in bunch grass and other clump-forming grasses, under rubbish, in the tangle of grasses along fences, in waste places, and in corn shocks, cane piles and woodlands. In fact, where present in large numbers, the chinch bugs appear to take shelter wherever it can be found, and in the late fall and early winter it is difficult to find shelter of any sort within a reasonable distance of corn, cane and kafir fields entirely free from them. By the time, however, that winter is well started the great mass of bugs is found in clumps of bunch grass, which forms a characteristic feature of all native grass pastures, fence rows and waste places throughout most of that portion of Kansas suffering serious damage from the chinch bugs.



Full grown, long-winged chinch bug, enlarged.

Of the clump-forming grasses, the chinch bug unquestionably prefers the type popularly known as little bluestem. This grass forms a dense upstanding cluster composed of many stems, from which spring narrow-leaves that die and decay in the bunch. Leaves, pieces of decayed stems and wind-blown soil collect in the base of these bunches, forming a soft, porous mulch, ranging from almost nothing to an inch or more in depth. The crown of the bunch stands slightly above the general level of the ground about it. Thus a hiding place is formed, well above the flooding of ordinary surface water and protected from snow and wind.

For the purpose of ascertaining the temperatures in the bunch-grass mulch where the chinch bugs prefer to winter, a soil thermometer bulb was inclosed in a typical unburned bunch of grass, at the point where the mulch was present, in such a manner that the only loss of heat would be through the mulch, as is normally the case. The result was surprising, showing that the chinch bug's choice has a very sound basis. While the temperature outside was ranging from 15 to 13 degrees Fahrenheit, the temperature inside ranged from 21 to 13 degrees Fahrenheit. Putting the same general matter in another way, the chinch bug outside would have from December to May to withstand average daily changes of 24.6 degrees and minimum temperature of 13 degrees Fahrenheit, while the bug inside would have to endure 6.4 degrees daily variation and a minimum temperature of 13 degrees Fahrenheit.

In the chinch bug scheme of things, wet weather is more to be dreaded than extreme cold, because wet weather encourages the growth of its terrible scourge, the chinch bug fungus. Let us, then, inquire into the way in which this bunch grass protects it from the wet. In view of the readiness with which the mulch is wetted by even a light rain and the slowness with which it dries out, the bunch grass would appear under wet conditions to be hostile rather than hospitable to the chinch bug. But this is only apparent, because while the temperature is high enough to permit the

growth of fungus, the bug is either not in the bunches or remains in them on top of the mulch.

In the fall of 1909, J. B. Parker found that during the warm sunshine following a rain the bugs ascended the stiff stems of the bunch grass, apparently to dry off and escape the wet, and that with falling temperature and drying out of the clump they descended. Thus it is seen that bunch grass affords the bugs an opportunity to escape the bad effects of wet weather. The only exception to this fact was observed during the spring of 1912, when, owing to a very late spring, the bugs did not leave the mulch until a considerable number had perished with the fungus and from loss of vitality.

Passing the winter principally in clumps of bunch grass and similar clump-forming grasses, the chinch bugs begin emerging with the advent of warm weather, and continue to come out with greater or less rapidity, depending on the weather, until all are out. Cold days put a temporary stop to this migration, but it is resumed as soon as the temperature moderates.

During the period of spring migration the bugs may travel considerable distances—just how far there are no conclusive data to show. Our observations indicate that they make their way to the nearest wheat or barley field, and that they do not travel farther than is necessary to get a sufficient supply of food. Here, by thrusting their beaks into the tissues of the tender plants, they break their long winter fast.

About three weeks after the first spring flight is noticed, the eggs begin to appear. They are deposited in cracks and crevices of the ground mainly on or near the stems and roots of the plants, but sometimes widely removed from all plants. They are also often thrust in between the leaf sheaths and stems of the plants. In fact, the location of the eggs appears to vary with any factor that affects the distribution of the bugs. Where the bugs find food plentiful and conditions to their liking, they congregate, and there the eggs are laid. The egg is a tiny, oval, reddish object about .03 of an inch long and one-fifth as wide. One end is blunt and bears four small, rounded lumps near the center.

In due time a tiny, pale yellowish-red bug, bearing an orange-colored spot on the dorsal aspect of the abdomen, emerges from each egg. The newly hatched bugs are very active, and quickly make their way to stalks of wheat, barley or grasses, from which they draw abundant sustenance by inserting their beaks into the sap stream.

With the ripening of the wheat, the



ily the time of migration depends on the food supply, and begins when the wheat ripens or is cut. If food gives out while the majority of the bugs are still immature the migration is made on foot, but if the food supply holds out until the bugs mature, distribution takes place both on foot and on the wing. Bugs migrating on the wing cannot be trapped and destroyed, while bugs migrating on foot can easily be killed. The farmer should, therefore, force the bugs to leave while yet immature, by cutting his wheat as soon as it will do and by disking or burning the grassy stubble.

When migration must be made on foot, the bugs avoid the heated parts of the day and confine their travel to a few hours in the evening. On cloudy or cool days they pass more or less all day. They begin passing about 3 p. m., reach a maximum about 5:45 p. m., and cease by 7:30 p. m. Where a stone fence or hedge afforded shade they begin passing considerably earlier. They seem to make every effort to avoid exposing themselves to high temperature.

bugs, only a few of which have reached the adult stage, must seek food elsewhere or starve. Of course, when small-grain fields are weedy and grassy the bugs can obtain food from the grasses, but when compelled by hunger they start out on foot toward the nearest corn, cane, kafir or millet field. Ordinary migration depends on the food supply, and begins when the wheat ripens or is cut. If food gives out while the majority of the bugs are still immature the migration is made on foot, but if the food supply holds out until the bugs mature, distribution takes place both on foot and on the wing. Bugs migrating on the wing cannot be trapped and destroyed, while bugs migrating on foot can easily be killed. The farmer should, therefore, force the bugs to leave while yet immature, by cutting his wheat as soon as it will do and by disking or burning the grassy stubble.

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Indeed, during the heated parts of the day the exposed soil becomes sufficiently hot to destroy them.

On reaching a field of succulent corn they congregate on the first few rows in sufficient numbers to blacken the stalks and to suck them dry of sap, and before the corn has become mature many of the outer rows of corn may be sucked dry and killed. Here the bugs feed until they reach maturity, when they rise on the wing and distribute themselves generally over corn fields and other sources of food supply. By the middle of July, at Manhattan, the females are depositing eggs, and eggs continue to appear until the middle of August. As in the spring, the eggs are deposited where the bugs habitually stay, and they are found between the leaf sheath and stalks of corn, cane and kafir, in the leaf sheaths of grasses, and on the roots of weeds and grass in the corn, cane and kafir fields.

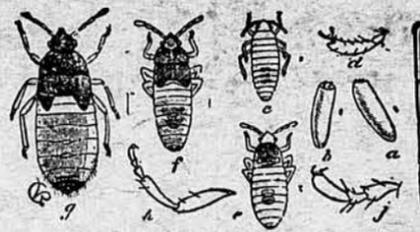
From these eggs come the well known tiny red bugs, which at once begin sucking the sap from the corn, cane or kafir and from grasses in fields devoted to these crops. Here the young bugs continue to feed until the plants become too dry to serve as food. Usually by the time the supply of food is thus cut off most of the bugs are mature and

the season is far enough advanced that they begin to seek winter quarters. At this time of year they sometimes concentrate on kafir, which remains succulent much later than other crops of which they are fond. In some cases they have been known to attack and destroy early-sown winter wheat.

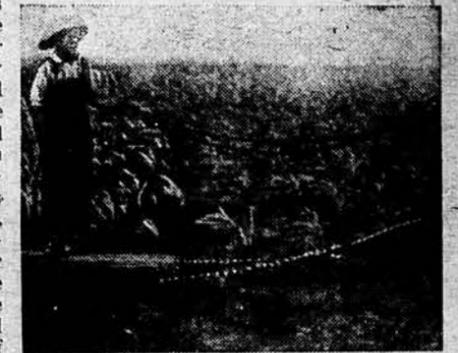
Although the chinch bug undoubtedly prefers certain species, all grains and grasses are used on occasion. Wheat, barley and corn are the ones most commonly attacked in this state, although millet and the sorghums are very acceptable. Of the last group, milo is usually the worst sufferer. Oats are sometimes attacked, but only when other foods are absent. If necessary, rice, rye, Bermuda grass, foxtail, timothy, bluegrass, crabgrass, bottlegrass, and all wild grasses can be used. In Kansas the usual menu is about as follows: When just out of the winter quarters, wheat, barley, rye, oats, and occasionally corn and grasses are used, and when these sources of food supply give out in mid-summer the bug turns to corn, sorghums, millet, crab grass, foxtail, bluestem, and other native grasses.

The chinch bug has damaged Kansas crops to a greater extent than has any other injurious insect, for from the time the settlers began to plant the prairie to the present it has exacted merciless toll. While in wet seasons its work has not been noticed, in dry ones it has destroyed a high percentage of both wheat and corn. Although there is no way to determine accurately the monetary value of crops destroyed by the chinch bug since Kansas was first settled, it is safe to assume that the amount reaches many billions of dollars. In a single year, under favorable conditions, it is conceivable that the chinch bug may do 25 million dollars' worth of damage to Kansas crops. The individual farmer may lose a heavy percentage of his wheat, barley and oats, and all his corn and sorghums.

The history of the chinch bug in Kansas reaches back to a point in time before the white man came. Coming from the South, say, the region of Panama, according to Webster's ingenious and plausible theory, the bugs migrated along the east and west coast of Central America and Mexico. The west-coast strain continued northward into



CHINCH BUG.
(a, b) Eggs; (c) Newly Hatched Larvae; (d) Its Tarsus or Leg; (e) Larva After First Molt; (f) Same after Second Molt; (g) Last-Stage Larva. The Natural Sizes Are Indicated by Small Lines at Side; (h) Enlarged Leg of Perfect Bug; (j) Tarsus of same, More Enlarged; (at Right) Proboscis or Beak, Enlarged. (From Riley.)



Dragging a log for dust.

what is now California. The east-coast division passed northward, then eastward along the gulf coast, and here split, one section going northward into the Mississippi valley and the other continuing its movements along the gulf coast to the Atlantic and northward into New England. The Mississippi valley strain spread out over the Mississippi, Ohio and Missouri basins.

Through the Farmiscope

Verse and Humor for the Mail and Breeze Family

BY ARTHUR CHAPMAN
(Copyrighted.)

Wail of the R. F. D. Man.

Carriers in the Rural Free Delivery service will leave their guns and game bags at home while they are on duty. —Postoffice rule.)

When we're drivin' 'cross the prairie,
'Mong the cottontails and grouse,
And a jackrabbit is started,
Lookin' bigger than a house,
We have got to keep on movin',
We have got to let him be,
And life ain't half so pleasant
On the R. F. D.

No more the trusty rifle
Is reposin' close at hand;
We can't bring down some deer meat—
It is Uncle Sam's command;
We wave the pronghorns bye-bye
When they skim the prairie sea,
'Cause they won't allow no shootin'
On the R. F. D.

We uster fill the game bag,
And we kept ourselves in meat,
But your Uncle Sam suspicioned
We was loafin' on the beat;
Now it beats tarnation thunder
How much game we allus see
Since they's banished shootin' irons
From the R. F. D.

Inevitably.

Optimo: Here's a county that has had no prisoners in its jail for a year or two and is going to rent the place as a chicken coop.
Pessimo: About the time the change is made, that county will probably be submerged in a 'wave of crime' and a lot of deserving chickens will be without a home.

Explaining It.

"No wonder the rush to the city goes on."
"Why?"
"Did any secretary of agriculture ever give any credit to the hired man for the enormous crops the country harvests every year?"

Honor Where Due.

A was a statesman wise who sat
Beneath a gilded dome;
His brow was bulgy, 'neath his hat,
But somehow spite of all of that,
He's now forgot at home.

He filled the mails with speeches brave
Beneath his much-used frank,
But now neglected is his grave,
And o'er it three-foot grasses wave,
Luxuriant and rank.

But next to him sleeps Farmer B,
Whose grave is neatly mowed;
For he it was that built, you see,
A work that brings each year new
glee—
A first-class country road!

Statistics.

Someone with a craze for statistics has figured it out that Uncle Sam's annual lard demands would fill a pail 334 feet high and 295 feet in diameter. But no one has ever had the courage to attempt to figure out the pail that would be required to hold our national whitewash demand.

No Ideal Eaters.

A Middle Western farmer has succeeded in producing an ideal ear of corn. But there is no indication that the person who likes corn on the cob is going to be made to appear any more ideal in the act of eating.

Jealousy on the Ranch.

Tex Jenks come home the other day—
He'd been East with a load of steers
And now he's goin' back, they say;
He's signed up fer to act two years
With one of them movie stunts;
And maybe this ol' Tex ain't proud;
He's told us forty times, if once,
How big a salary he's allowed.

Since he's come home ol' Tex ain't done
A lick of work that I can see;
He peddles brag-talk by the ton

And slings his "I's" around quite free;
But we have got to throw the ropes
And do the brandin' and all such
While Tex is tellin' how he hopes
To git on Fame the grizzly clutch.

It seems he don't report until
About a month or two from now,
And me and Pecos and Slim Bill
Can't figure out exactly how
We're goin' to stand his guff till then;
A month or two is long to wait
When one of these here actor men
Has wore you to a nervous state.

Left Out.

There's a minimum wage for Sister,
And a minimum wage for Brother,
But there's none to say
What's the minimum pay
For the toil performed by Mother.

The Real Problem.

The department of agriculture experts have decided that it should be "catchup" and not "ketchup," but what the public wants to know is about this "tomahito" or "tomayto" pronunciation business.

Bird Lore.

The most useful bird in the world is the gull.
The gull is found anywhere in the city or the country. It buys lightning rods, gold bricks, worthless stocks and valueless real estate. There are few laws for its protection, and these laws are generally enforced in lax manner. The gull keeps money in circulation, and furnishes thousands of men with their favorite indoor and outdoor sport. Long may his feathers wave!

Use the Home Seed

A subscriber asks if northern grown seed corn will equal Kansas seed. As a rule it will not, and the foreign seed should never be planted when good home grown seed can be obtained. It is probable that some seed will have to be brought in from other places this spring, however, and when this is the case it should be bought in localities as near as possible.

If you are glad you are in the world the world will be glad too, and have reason to be.

WONDERED WHY

Found the Answer Was "Coffee".

Many pale, sickly persons wonder for years why they have to suffer so, and eventually discover that the drug—caffeine—in coffee is the main cause of the trouble.

"I was always very fond of coffee and drank it every day. I never had much flesh and often wondered why I was always so pale, thin and weak.

"About five years ago my health completely broke down and I was confined to my bed. My stomach was in such condition that I could hardly take sufficient nourishment to sustain life.

"During this time I was drinking coffee, didn't think I could do without it. "After awhile I came to the conclusion that coffee was hurting me, and decided to give it up and try Postum. When it was made right—dark and rich—I soon became very fond of it.

"In one week I began to feel better. I could eat more and sleep better. My sick headaches were less frequent, and within five months I looked and felt like a new being, headache spells entirely gone.

"My health continued to improve and today I am well and strong, weigh 148 lbs. I attribute my present health to the life-giving qualities of Postum."

Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in pkgs.

Postum now comes in two forms:
Regular Postum—must be well boiled.
Instant Postum—is a soluble powder. A teaspoonful dissolves quickly in a cup of hot water and, with cream and sugar, makes a delicious beverage instantly. Grocers sell both kinds.

"There's a Reason" for Postum.

Get Your Canadian Home From the Canadian Pacific



We will make you a long time loan—you can move on the land at once—your Canadian farm will make you independent and

We Give You 20 Years to Pay

Rich Canadian land, \$11 to \$30 per acre—*one-twentieth down*. Long before final payment comes due your farm will have paid for itself.

We Lend You \$2000 For Farm Improvements Only

No other security than the land. You are given twenty years to pay with interest at 6%. In case of approved land purchaser, we advance live stock to the value of \$1,000 on a loan basis.

Or if you want a place already established, you will find one on our Ready-Made-Farm. All planned by our experts, and our service and advice is yours free.

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Finest on earth for general mixed farming—irrigated and non-irrigated lands. Located on or near railway. The famous Canadian West has magnificent soil, good climate, churches, public schools, good markets, good hotels, unexcelled transportation—and 20 years to pay. Time is precious. Write today.

G. M. THORNTON, Colonization Agent
Canadian Pacific Railway Colonization Department
112 West Adams Street, Chicago, Illinois
FOR SALE—Town lots in all growing towns. Ask for information on industrial and business openings.

Manure Spreader \$64⁷⁵ Prices Slashed! 64^{Up}

My low direct-from-factory prices will save you \$25 to \$50. My prices on complete spreaders, \$64.75 to \$79.50. Attachments only \$39.50 up. Think of it! Prices never before equaled. Lowest ever made! Write today—get quick. These special prices good for 60 days only.

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Backed by a \$25,000 legal bond. Five year warranty. 40,000 Galloway spreaders now in use. Proved best by actual test. Get my catalog and special 1914 offer and lowest special prices. WRITE TODAY—ACT NOW!

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49 Railway Station (442) Waterloo, Iowa

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The grip of the SQUARE DEAL is exemplified in every knot on SQUARE DEAL Fence. You should get acquainted with this grip if you want fence that will cost you less, and last longest. Stock cannot go through it or under it.

Square Deal Fence

has one-piece stay wires—33 to every rod. Each stay wire acts as a post. There are many other reasons you should know about. Write us for price list, dealer's name, and we will send you Kopp's Net Calculator—worth its weight in gold—FREE.

Keystone Steel & Wire Co.
1130 Industrial St. PEORIA, ILL.

BROWN FENCE

13 Cents Per Rod Up

Strongest, heaviest wire. Double galvanized. Outlasts others nearly 2 to 1. Low prices direct from factory. Over 150 styles for every purpose—fence and gates of all styles. Mail postal for catalog and sample to test and compare with others. Address Department 13 THE BROWN FENCE & WIRE CO. Cleveland, Ohio

ADVANCE WOVEN WIRE FENCE

Write for new catalog and prices on farm, hog, sheep, poultry and rabbit fence. New styles farm and ornamental gates. No middlemen. Direct to you at low factory prices. 2 ADVANCE FENCE CO., 135 N. State St., Elgin, Ill.

431 Valentine, Easter CARDS, Scenes, Seals, Views, Silver, Gold, Art colors, Beautiful Doves, Rabbits, Eggs, etc. ALL for ONLY 10c

4 Pgs. 24c, 20 Pgs. for \$1.00

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808A, 542 Dearborn St. Chicago

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WE PAY HIGHEST CASH PRICES FOR FURS

We positively pay the prices we quote and remit cash in full the same day shipment is received. No commissions; no undergrading. "Rely on Lyon." It pays. Write today.

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226 DELAWARE ST., KANSAS CITY, MO.

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Why submit to have 5% deducted from the price of your skins when you can ship to "BIGGS," get top-of-the market price and get every cent of it.

Traps, Guns at Factory Cost.

We want more trappers to ship us their furs so we sell surplus stock at factory cost. Largest stock in the West, including the Victor, Newhouse, Onesta Jump, and Stop This! All sizes.

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Salt Cured Hides.....13 3/4c lb.
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Honest weights, highest prices, and no commission. Your check sent same day shipment arrives. This company has been highest in favor for 45 years. Ship today or write for free price list and tags.

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This catalog shows the latest styles in furs. Another book "A Trip Through a Modern Tannery" illustrates how "Best Tan" is made, and why it is best.

GLOBE TANNING CO.,
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C. W. SWINGLE, 323 S. 9th St., Lincoln, Nebr.

Fewer Eggs Next Spring

Feed Being Scarce Farm Flocks Have Been Reduced

BY HARLEY HATCH

A FARMER living near our county seat town has 65 Rhode Island Red hens that laid 594 eggs during December. The smallest number of eggs laid in one day was 12, the greatest 27. In the flock were eight old hens, the rest being pullets. The good results from this flock of hens strengthens a theory we have always had about feeding layers. We have always contended if you wanted to fatten a cow or hog or a work horse quickly, you gave them all they could eat. Then why should not a hen have all she can eat when she is laying regularly? The farmer's hens which laid so well had the run of a feed yard where they could get all the corn they could eat.

The facts are that nearly all the chickens in Kansas are being kept on short rations this winter. Half of all the chickens in the state go to bed hungry every night. So long as such conditions continue there is not going to be much egg laying. Next summer, when insects and grasshoppers are plentiful, there will be more eggs, but next spring we expect a smaller egg crop in the West than for many years. Not only is chicken feed scarce but fewer hens are being kept on farms than usual. This means fewer eggs next spring at the very time when they will be needed most. The effects of the 1913 crop failure will be felt for a long time, especially by the man who has to buy all he eats.

The Gridley stock buyers paid \$7.35 for hogs weighing more than 200 pounds this week and corn could be bought there at the same time for 73 cents a bushel. This begins to look a little better for the hog feeder.

Usually it is figured that 10 pounds of pork can be made from a bushel of corn. How this will work out depends on so many things that the rule is little better than a wide guess. Weather, pasture, milk, or lack of milk, and the condition of the hogs make a great difference.

We are still getting letters inquiring about alfalfa seed. In reply we wish to say the price now charged is higher than at threshing time. Probably about \$8 would be asked now by most men with seed to sell. Every week letters and advertisements from men who have the seed for sale appear in the Mail and Breeze. The thing to do is to write them for samples of seed and the prices.

An Oklahoma reader inquires about the Holstein association. Several farmers in his neighborhood intend to go into the dairy business and wish to get some information about Holsteins at first hand. The address of the secretary of the Holstein-Friesian association is F. L. Houghton, Brattleboro, Vt. For Oklahoma conditions we think the Holsteins would be all right.

We like both the Holstein and the Ayrshire dairy cattle for regions where there is much roughness to be fed. These two breeds consume roughness in large quantities better than the Channel breeds of dairy cattle. Also the Ayrshires are a fair beef-producing cattle considered as dairy animals. They are hardy and good rustlers but more nervous than the Holsteins. For milk production there is no breed to equal the Holstein. We would hesitate to say what is the best dairy breed for all have their good points and anyone will fit into certain conditions better than the others.

During the dry time last summer several deep wells were drilled in the northeast part of this county and reached salt water. We have been told recently that some of these wells are now furnishing good water, the salt seeming to become less the longer the wells are in use. When first drilled the water from one of them was so salty that it seemed totally unfit for stock but the man who had it put down was so desperately in need of water that he gave it to the stock anyway. The animals apparently got along all right on it and the longer the well was used the less salty the water became until it now is about right. Does any reader know of

a similar case? Will water that has salt in it or which is strongly mineral when first struck get better as time goes on? What is the effect of giving the stock water which is moderately impregnated with salt?

A number of years ago, before the present water system was installed in the city of Lincoln, Neb., the water in use there was so salty one not used to it could not get it down. We could never drink it at that time without holding our nose and not tasting for a long time after the water was down. We watered the horses at Lincoln when we moved to Kansas, having to rest there all of one day. The stock drank little and what they did drink seemed to make them even more thirsty. When Kansas City was reached the animals had raging thirsts. Yet we were told that livestock accustomed to the water at Lincoln drank it freely with no bad effects. Is any reader using water like this for stock? If so, we should like to hear how they thrive on it. There is plenty of water in this locality at the depth of about 100 feet but it is all salty.

The co-operative Grange store in Burlington has now been in operation a little more than six months and in a settlement January 1, with its patrons made a showing of \$734.67 profit above all expenses. This amount was returned to the patrons of the store. We do not know the amount of capital, nor the volume of trade on which this profit was earned. Prices charged for goods at this store are the same as those charged at all the general stores in Burlington. The patrons get no lower prices to start with but they get the profits at the end of every six months, if there are any. So far the stockholders seem well pleased with the enterprise.

The inflated prices given out in real estate transactions during the year in Coffey county are causing the county assessor to do some thinking about how he is to explain matters to the state tax board. The state board bases land values to a great extent on the recorded sales of real estate during the year, but that is a poor way to arrive at a base. For instance, many sales are made where the consideration is only \$1, while in others it is given as high as \$60 to \$75 an acre, though perhaps not more than \$40 was paid. This is done to help future land sales, also to give an idea of greater value to be used later, if need be, as a basis for loans. If the state tax board can't take the word and judgment of sworn local officials in regard to the value of land it had better dismiss them and do the assessing itself.

We have taken this time of muddy and frozen roads to overhaul the motor car and to make such repairs as are needed. We find the drive pinion which connects with the differential is somewhat worn, so we will put in a new one while the parts are taken down. It might wear for a long time yet, but we will not run the risk now that we can so easily put in a new one. The chief reason for taking the machine down was to put in new axles. The axles in the car were not broken or even worn, but it is commonly understood that with this old type of axle they should be renewed every 5,000 to 7,000 miles. This is because the axles crystallize and break and it is better to put them in just before they break than to wait and have a breakdown on the road. The new type of full-floating axle is not subject to this crystallization as the weight of the car is not carried on the axle. The axles never wear out for the wheels do not turn on them except when rounding a corner, or something like that. In this they work just like the axles on a mowing machine. When axles crystallize they become very hard at the point where wheel and housing meet and the atoms of iron seem to lose hold of one another. This is caused by the continuous jar and strain.

The pigs from sows that come through the cholera are more or less immune from the disease.



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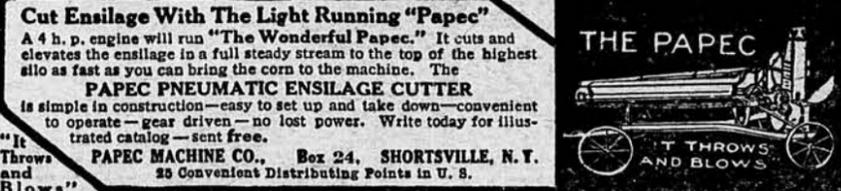
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The Use You Make of Food

Good Health Depends Largely Upon the Things You Eat

BY ADAH LEWIS.

THE difference in the properties of foods is the result of varying proportions of the five food constituents. No matter where we find a food or what its characteristics may be, it is always composed of one or a combination of two or more of the food principles. There are only five of these principles or constituents, and without a general knowledge of them and the use of each to the body, the housewife cannot expect to feed her family intelligently.

The five food principles are carbohydrates, proteids, fats and oils, ash or mineral matter, and water. We will first discuss the occurrence of these constituents and their use to the body; and even if their scientific names are not remembered, it will be found helpful to remember the common representatives of each class.

Eat a Bit of Bran.

The carbohydrates are represented by such substances as starch, sugar and cellulose—the woody, stringy parts of fruits and vegetables. They occur chiefly in the products of the vegetable world as in fruits, vegetables and cereals. Carbohydrates perform the function in the body of supplying it with heat and energy. They cannot build muscular tissue. Cellulose does not supply the body with heat or energy, neither does it build muscular tissue; but it does serve a very important function in the dietary, namely, that of supplying a stimulant for digestion. The movement of the intestines which propels the food along the digestive tract in the process of digestion is known as the "peristaltic action." The cellulose is useful in performing this function by giving bulk to the digesting material. For this reason individuals who are troubled with constipation may often find relief by partaking of a diet rich in cellulose materials. Foods such as mushes and the coarse breads and wafers would be included under this class, as well as the tougher parts of fruits and vegetables.

Proteid Foods Supply Muscle.

The fats and oils occur in plentiful quantities in both the animal and vegetable kingdoms. Lard, tallow, butter and cream are familiar representatives of the fats occurring in the animal kingdom, and in the vegetable world we find examples in olive oil and cottonseed oil. The various nut butters contain large amounts of fats. The fats and oils serve the same purpose in the dietary as the carbohydrates, that of supplying heat and energy for the body. Owing to the fact that they are rather difficult of digestion we do not partake of them as freely as we do carbohydrates. Fats and oils cannot build muscular tissue for the body.

Proteid material occurs freely in the animal foods such as meat, milk, eggs and cheese. The leguminous plants such as peas, beans and lentils also contain protein material. This food constituent is the only source of muscular tissue for the body. No other food is able to supply it. Proteids also have the power to furnish the body with heat and energy in case there is a deficiency of fats and carbohydrates in the diet. As a rule, however, we consider them a very expensive source of heat and energy, for they are the highest priced foods we have.

In the process of digestion and assimilation of the food products by the tissues there are always certain excretory products formed which are eliminated from the skin by means of the lungs, kidneys and intestines. The carbohydrates and fats are converted into products that are easily eliminated, but proteid material forms a residue which must be eliminated by means of the kidneys. The body can utilize only a limited amount of proteid material, and any above this amount only necessitates an extra tax upon the kidneys in eliminating the waste products formed from the proteids. Hence we should not indulge in a diet too rich in proteid substances.

It is impossible to give any hard and fast rules regarding the amount of proteid we should consume, for circumstances alter cases; but as a rule the average individual consumes more pro-

teid material than is necessary for the maintenance of his body. Disease is a penalty for an overconsumption of any kind of food; this is particularly true of proteid material. A superfluous amount often leads to kidney disorders. Remembering that the proteids are represented by the animal foods largely, it is well to give care to the selection of our diets that we do not consume too many of these foods at each meal, or that they are not served in too plentiful amounts during the three meals each day.

We may well test our diets by subjecting them to the following questions:

- (1) Are they satisfying to the appetite?
- (2) Are they laxative or constipating in effect, according to the needs of the individual?
- (3) Are they easy of digestion?
- (4) What will be the ultimate effect upon the health of the individual?

These points should always receive due consideration from the housewife in planning the meals for the family.

Editor's Note.—The first article in this series of food talks appeared in the Mail and Breeze of January 10. If these articles are clipped as they appear they will be found to form a valuable discussion of the subject of foods and their preparation for the table.

Something to Do for Asthma

In the December 20 issue of the Mail and Breeze an Iowa reader is asking what to do for asthma. I had been a severe sufferer for 14 years, and had tried many warranted cures with little or no relief. The fall of 1912 a friend insisted that I try a muskrat skin. I had heard of it before but had no faith. This time I concluded to try it. The plan is to take a rather fresh skin, line the meaty side with a piece of cloth, and pin it over the chest to the underwear with the hair next to you. At night pin in your night clothes. It caused intense itching and my chest broke out with white blisters, but I have not had a symptom of the asthma for over a year and can exercise as I could not in 14 years.—Mrs. O. R. Ashby, Cadua, Colo.

Change of climate will do more good than most doctors. We lived in Ohio. My wife had asthma and hay fever and I was getting lung trouble. We doctored with several doctors without much help until six years ago when on the advice of a physician we came to western Oklahoma, and she has never been bothered with asthma since. She doesn't look like the same woman. She does all her work for four children, often for two hands, and through harvest for a header crew. In Ohio we kept a girl most of the time and had a doctor's bill, too. I don't know of a case of asthma around here.—W. E. S., Supply, Okla.

I had been a sufferer from asthma for five years. My hardest attacks were in cold weather. At last, after I had been so bad for a week I could not lie down, sleep or eat. I called for the kerosene can and a spoon. I poured out about two tablespoonful of oil and drank it; within half an hour I was resting easy, and I went to bed and slept all night. I omitted taking it the next night but the third night I took another good tablespoonful. It penetrated through all my system. Within two days phlegm began to rise without the slightest exertion. Within a week's time I had no trace of asthma, and have had no signs of it since, and that was three years ago.—Mrs. Allie Aldrich, Independence, Kan.

A Sew and So Circle.

After reading your paper a long time I thought I would write and tell you of our club or circle which we farm women organized two years ago. We call it the Sew and So circle. We meet every two weeks at the homes of the different members, and we have a committee to arrange a program for each meeting. We have literary programs, spelling matches, guessing games, and so on, and give little prizes for the winner. Also serve light refreshments if we care to, this being a matter of taste. We also

sometimes take our note books and exchange recipes. We have a president, a secretary and a reporter. We have no dues. We organized this as a means of getting better acquainted with our neighbors, and getting away from home one afternoon in two weeks surely does us all good. We have about 25 members. We take our children with us, and they seem to enjoy it almost as much as we women. I neglected to say that our membership consists only of wives and mothers. I think more of the farm women who live a humdrum, stay-at-home existence such as most of us do, would find a great pleasure in a club of this kind. Mrs. W. N. Scott.

Kansas.

Muzzle the Clothes Wringer

[Prize Letter.]

After running the baby's finger through the clothes wringer we immediately doctored the dear little member to the best of our ability and then I doctored the wringer so we need not fear a recurrence of any such trouble. Our wringer is the kind with the wooden frame and exposed cogs. I took a piece of strong tin about 4 by 5 inches, bent it through the center to a right angle and tacked it to the upright post nearest the top so the cogs were entirely covered. It's a short and simple job, and a wise precaution. W. A. Oakley.

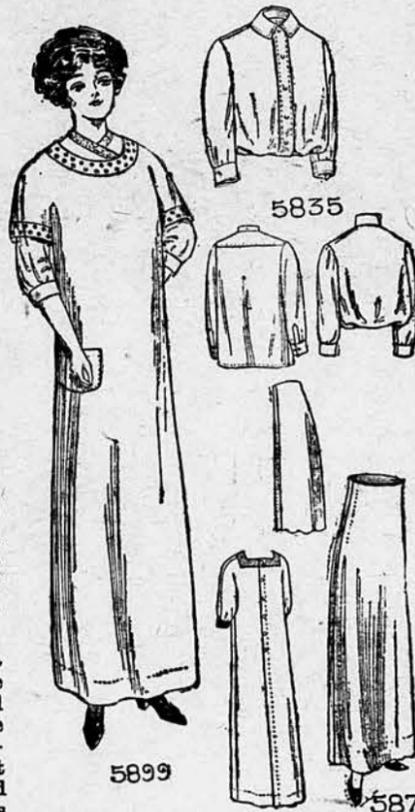
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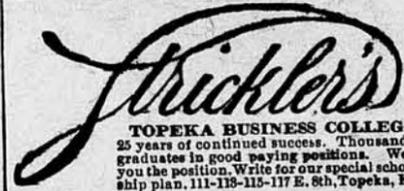
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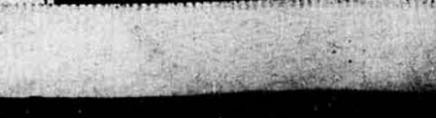
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LA FOLLETTE'S WEEKLY, Dept. 412, CHICAGO, ILL.

Wanted a Vote.

There once was a woman of note
Who very much wanted to vote;
Her neighbors said, "Here,
You stay in your sphere!
Go home and have babies to tote!"

She then formed a club literary
Which studied child life, civics and dairy;
They found out their right
To make the world bright
And decent, and homelike, and cheery.

They studied of home and the nation,
And learned each to each the relation.
"We'll have better laws,"
Said these women, "because
We'll work for our country's salvation."

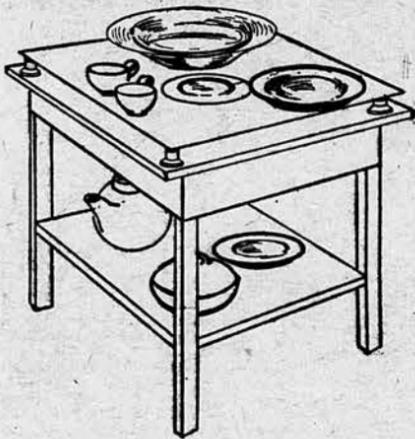
And now in ten states women vote
On questions both near and remote;
"Our banner's unfurled,
And our sphere is the world."
Says this wonderful woman of note.
—Mrs. John B. Parker.

The Woman Who Was Tired

BY LOUISE L'AHMUTY NASH

"Can't you devise something that will save you going to and from the kitchen so often?" my son inquired.

He was with us during his father's absence, but because he was lame he could not help me as he would have wished. So I set to work to try to ease his affectionate heart. I told him how I had once lunched with some titled aristocrats in England, when a "dumb waiter" was used. Everything



The table that saved steps.

likely to be needed was placed on this, and the men servants were dismissed for the remainder of the meal. I soon made up my mind that I would go them one better, and keep things warm as well as handy.

I brought down stairs an oblong table about 2 feet long. I got the tinner to cut me a sheet of thick galvanized iron the size of the table. It was strong enough to hold the dishes level; but it might have been as well to have had the edges turned up a little, to make it safer for them. The tinner has done this for me since, with other things.

I happened to have a small alcohol lamp, which had been used on an afternoon tea-table, and I bought another the same height. I laid the galvanized iron on top of the table, put an empty cotton spool between them at each corner, and glued them all together. The spools were a little higher than the lamp wicks. The lamps when lighted were pushed into the open space between the table and the sheet of iron, and soon the iron was heated through. The dishes were set on top, and I regulated their position according to the amount of heat that was best for them.

We always began dinner with soup. There was room on the warm shelf for meat and vegetables, a warm dessert, and a pile of plates as well. If there was too much heat over the spot where the lamp stood a piece of asbestos rectified it. The table had an under shelf which held the dessert plates, and later the soup plates. After the next course there was room on the outer shelf for the smaller set of plates. The plan was quite successful, and gave my son much pleasure.

[Editor's Note—Mrs. Nash does not mention the castors on her "dumb waiter," but these were undoubtedly among the "other things" that were added later. With castors on the table it can be filled with dishes and food from pantry and kitchen then rolled to the dining room, and everything taken in at one trip.]

Eating on a Bed of Roses

BY LUCILE BERRY.

A simple white dish costs no more than a heavily beflowered piece of china, but how much better things taste out of it! Isn't it a bit disconcerting when

you think of it, to have butterflies flitting near your breakfast coffee or your bacon sizzling on a rosette?

If one is feeling good he can see the humor in serving butter on a picture of the state capitol building or Niagara Falls. If that person has a leaning toward dyspepsia though, a detail of that sort in evidence thrice daily is likely to throw him considerably out of kilter. Digestion experts insist that a person's state of mind has an effect on his digestive processes.

Dishes are made to serve one purpose and one only; that of holding and conveying food. They aren't ornaments or souvenirs. What can be more artistic than plain white china for every day use? The common dishes are constantly being broken. If each broken dish is replaced by a white one, before long all the dishes in common use will be white.

It is usually impossible to match a design from time to time in a country store, and if it is attempted a collection of assorted china probably will be the result.

White china and linen furnish an excellent background for simple table decoration. A flower or spray placed on the table at the last minute may bring a world of good cheer if it is noticed. It won't show up well with dozens of painted roses and forgetmenots.

Suet May Be as Useful as Lard

HOW TO RENDER THE FAT.

Some women have a habit of throwing good suet into the garbage pail or using it for soap making, because they say they do not like it for cooking. Suet possesses the same food value as lard, and if properly tried out is a satisfactory substitute for lard for frying purposes and for shortening. Suet is the hard fat about the kidneys and loins in beef and mutton and corresponds to the fat of hogs from which leaf lard is made. Suet can be so rendered as to make a soft, usable fat, practically free from any distinctive-flavor or odor. The following is the simplest method for trying out suet:

Remove the skin and lean parts from beef fats, and cut it into small pieces. Put it into a saucepan and cover with cold water. Place it on the stove uncovered so the steam may carry off any disagreeable flavor. When the water has nearly all evaporated, set the Kettle back and let the fat slowly "try out." When the fat has ceased bubbling and the scraps of skin are shriveled, allow the scraps to settle at the bottom of the kettle, strain the fat through a cloth, and set it away to cool.

This fat is so valuable in cooking that housewives will do well to save all suet from their meat and try it out. For those who want a mixture of suet and leaf lard the following recipe will be useful:

Take 2 parts of suet and 1 of leaf lard, finely ground in the meat grinder, and mix together. Render this with whole milk in the proportion of 1-2 pint milk to 2 pounds of the mixed suet and lard. (Render means to melt down or clarify by melting.) The mixture may be heated in a double boiler. When allowed to cool the fat will form a cake on the surface of the liquid and may be easily removed.

This fat has a good odor, color and texture, and is softer than the suet alone. It is useful for frying and for shortening foods with high flavors.

The unpopularity of fried food in many families is due to the fact that the fat has been burned in cooking. A slightly burned taste can often be removed from fat by putting into it thick slices of raw potato and heating it gradually. When the fat ceases to bubble and the potatoes are brown, the fat should be strained off through a cloth placed in a wire strainer.

Marion Wheat Looks Good.

W. M. Schlehuver, one of the wealthiest farmers in Marion county, Kan., where he has been farming 40 years, remarks that he never saw wheat looking better in midwinter than now. On his large farm, Mr. Schlehuver has 500 acres in wheat this year. "Then a very large acreage of alfalfa was put in last fall, and it too, looks exceptionally well," Mr. Schlehuver added. "Altogether the outlook for a good crop is very promising."



Mitchell Big Six \$2,350.00

An uneven road plays hob with an automobile that isn't properly constructed and which lacks engineering balance. It strains the frame, the axles, the springs and the motor of a cheaply built car and no amount of repairs can ever make it good.

The Mitchell car is built to give where the give is necessary—to resist the strain and sudden jolt—to surmount these and other difficulties without the disastrous wear and tear which makes other cars burdens after a year's use—or less.

Farmers need better cars than people who live on smooth boulevards and there are hundreds of modern farmers who will tell you that the Mitchell has lasted them—in constant use—five, six, seven and eight years and are still the splendid utilities today that they were when bought.

The Mitchell car is more car and better car for the money than any other car in existence and we commend it to the farmer who wants an economical utility rather than an expensive luxury.

The Mitchell Models for 1914:

- The Mitchell Little Six—fifty horse-power—132-inch wheel base—36x4 1/2 inch tires—two or five-passenger capacity - \$1,895
- The Mitchell Big Six—sixty horse-power—144-inch wheel base—37x5 inch tires—seven-passenger capacity - \$2,350
- The Mitchell Four—forty horse-power—four cylinders—120 inch wheel base—36x4 1/2 inch tires—two or five-passenger capacity \$1,595

Equipment of all the Mitchell Models included in the List Prices Here Given: Electric self-starter and generator—electric lights—electric horn—electric magnetic exploring lamp—speedometer—mohair top and dust cover—Jiffy quick-action side curtains—quick-action rain vision wind-shield—dismountable rims with one extra—Tungsten valves—double extra tire carrier—Bair bow holders—license plate bracket—pump, jack and complete set of tools. Prices F. O. B. Racine.

Mitchell-Lewis Motor Co. Racine, Wis., U.S.A.

Eighty Years of Faithful Service to the American Public

Over \$1,000 in Prizes Given Away in Farm Life's Big Prize Contest



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including a \$600 National Concert Grand Player Piano, \$285 Harley-Davidson, 1914 Model, 8 H.P. Twin Cylinder Motorcycle, \$60 Crusader Bicycle, \$45 White Frost Refrigerator, \$25 Westman Good Watch, \$20 Stevens Double Barrel Hammerless Shot Gun, \$15 De Luxe Kokus China Dinner Set, \$10 Silver Set, \$10 Eastman 2A Brownie Camera, \$5.00 High Power Telescope.

Every person who answers this ad will be entitled to be considered in the awarding of Grand Prizes in our contest—just starting—closes midnight, March 21st, 1914.

UNLIMITED CASH REWARDS TO EVERY ONE who takes part in this contest. SEND US NO MONEY—everything is free. The quicker you send your name the better chance you will have to win the \$600 Player Piano—the \$285 Motorcycle—or one of the other Grand Prizes. Answer this ad today and we will send you 1,000 FREE POINTS and tell you how to get the \$600 Player Piano—the \$285 Motorcycle—or one of the other Grand Prizes Free. FARM LIFE, DEPT. MTR. SPENCER, INDIANA.

GAPS, GLOVES OR MITTENS FREE

FREE High Grade Work FREE

If you will send me a horse, cow, steer or bull hide to be tanned and made into a coat or robe. I do the work at a reduced rate and give you free either a cap, a pair of mittens or a pair of gauntlet gloves. Either one of these goes to every customer who will send me a horse, cow, steer or bull hide to be tanned and made into a coat or robe. I have reduced tanning to a science, having had 25 years' practical experience. I can make better prices on good tanning and finely finished coats and robes than other tanners and yet afford to throw in one of the above. My modern plant also enables me to make these reduced prices and this startling offer.

H. B. MICKLE, President, MICKLE FUR COAT & ROBE CO., 522 West 7th St. MASON CITY, IOWA.

SEED CORN

ARMSTRONG'S IOWA GROWN

Seed Corn selected by experts. Carefully sorted according to Armstrong's Standards backed by 25 year's experience. We specialize in high test reliable seed corn at farmers' prices and can give you the best of the kind you want. Large Yellow, Large White and some extra early varieties that make big crops and big profits. Write now and reserve your seed corn. Get our prices and special proposition and find out what "Armstrong Quality" is.

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THE COLUMBIAN METAL SILO

At last a perfect silo! All metal, air tight, indestructible, only silo reinforced with five thicknesses of metal at joint. Will not shrink, crack, warp nor sag. Absolutely tight metal hinge doors, lever clamp. Sold under guarantee. Perfect silage from wall to center. Non-porous, unaffected by weather conditions. Will last life time.

Mail us this ad at once and receive our free illustrated catalog describing the Columbian Silo together with valuable pointers on feeding ensilage.

COLUMBIAN STEEL TANK COMPANY
1600 West 12th St., Kansas City, Mo.

NAME.....
P. O..... STATE.....

Things the Girls Can Make

Nimble Fingers, Simple Stitches and a Little Time When Put Together Always Mean Pretty Things

EVERY girl likes to make pretty things, of course; if she didn't she'd be a funny girl, you'll all agree. Boys like to make things, too; but the difference is boys like to pound with a hammer while girls like to make a good many of their nice things with a needle.

Everyone knew that Mail and Breeze girls could sew, but no one knew just how nicely until the dusting cap contest, which was held just before Christmas.

Darning Stitch

Those beautifully even little stitches took time to make; and the girls who know how to sew so nicely are just the ones who will be successful in embroidering, because many embroidery stitches are much like those used in sewing. The darning stitch, for instance, is known as the running stitch in sewing. The picture shows just how it is done; and the things you can do with this stitch are very wonderful.

First of all, when we are going to embroider we will remember never to make a knot. Begin by making three tiny stitches and one back stitch, putting them in a place where they will be covered up by stitches you will make later.

This is to hold the end of the thread. Then, if you are going to darn, take a stitch a quarter of an inch long, pick up a few threads of the goods, then take another long stitch. Finish this row before you begin another, being sure to keep a straight line, then make the second row, setting the stitches so the picked-up threads of the second row come in the center of the long stitches of the first row. Keep the rows the same distance apart until the entire space has been filled.

The darning stitch is often used in filling in the petals of flowers, in making flags, and other things like that; but it is used still more often for filling in a background. A beautiful pillow can be made by making all the background of darning stitch, outlining the petals of the flowers, and filling in the centers of the flowers with French knots.

Outlining is the most used of any embroidery stitch. It is worked with the point of the needle toward you, each stitch lapping back two-thirds on the previous one, so when it is finished it looks like a tightly twisted cord. Always keep the thread on the left side of the needle.

When you are outlining a curve the stitches should be shorter than when they are on a straight line.

Another stitch that everyone wants to know how to make is the French knot. Besides being used for the centers of flowers it is used to trim collars and for a lot of other pretty things. The picture shows just how it is made. Bring up the thread through the cloth, and with the left hand wind it around the needle three or more times according to the size of the knot desired. Stick the needle back into the cloth close to where the thread came out, and with the left hand draw the twists tight until all the thread has been drawn through, then fasten with a stitch on the wrong side of the cloth.

You can find all kinds of pretty things at the stores stamped ready to work with these three stitches. Girls who know how to draw can draw their own flowers with a lead pencil and make anything they please.

Try It on Your Chum.

Here is a trick for you to try on your playmates in school, and grown folks will be just as much interested. Ask them

to stand up against a door, with the side of one foot and the shoulder pressing against the door. As long as they stay in this position it will be impossible for them to move the other foot. If you don't believe it try it yourself.

Who Has the Brightest Dog?

Who has the brightest dog in Kansas? We're asking because we want to know. Almost every dog knows how to do some tricks, but some dogs have done things that almost made you think they had brains, like folks. If you have a dog like this the Mail and Breeze would like to hear about it. Of course, if a boy or girl from Oklahoma, or Missouri, or Nebraska, has a dog that can beat a Kansas dog we want to hear about that. For the best letter, and the second best letter a prize will be given of a copy of Roosevelt's Trip to Africa. This is a big clothbound book with lots of pictures. Third prize, if won by a boy, will be a cowboy watch fob; if won by a girl, a hand carved bone brooch. Address your letters to the Junior Editor, the Farmers Mail and Breeze, and mail them so they will reach the office by February 10.

Here's A Thrifty Boy.

I started saving my money when I was 10 years old. Papa paid me 30 cents a month for milking; when I got a dollar I bought a pig. When the pig was worth about \$4 it died with cholera, but papa gave me another one. I kept it till it was big enough and traded it for a little calf. I kept the calf till it brought me \$14, and now the money is out on interest. I bought a ball suit, a fielder's mitt, a catcher's mitt, ball and bat, also a bicycle, out of my milk money and I have \$1.45 left. I want to save enough more to buy me a rifle. I am now 12 years old. I make all the money I can other ways. Lester A. Carr. R. 1, Derby, Kan.

Hands Seem to Be Full.

A most eccentric, yet interesting man was Bishop Brooks of Brookville. Although not a large man, wherever he went, night or day, he was always accompanied by, or carrying two playful animals, a number of small animals of a less tame variety, a member of the deer family, a number of whips without handles, some weapons of warfare, the steps of a hotel, two places of worship, two scholars, two coverings of kettles, two musical instruments, two standards of measurement, several articles a carpenter uses, two lofty trees, and two kinds of flowers. The account of this eccentric man was sent by Helen Irene Francis of Gorham, Kan. The answers will be published next week. How many can you find before that time?

Beef From Wheat and Silage

Dan Meyers of Clay Center, Kan., is feeding 200 steers on ground wheat and silage. Last week he bought 200 more in Kansas City to handle in the same way. Mr. Meyers's way of feeding wheat is to partly fill the troughs with silage and then cover it with ground wheat. He says he has fed the 200 steers more than 3,000 bushels of wheat, that they made excellent gains and are now ready for market. He also feeds some cotton seed meal and corn.

Lyon's Co-operative Experiment

Our Lyon County Farmers' Produce association has made great progress, and we did not expect to be rushed with business six weeks after starting. We are selling the farmers corn at cost, and getting more for their hay than could have been realized on the market. We are certainly well pleased with the results from our advertisement in the Mail and Breeze. If you had guaranteed one-half the returns we have had, we would have taken it for a joke. One nice thing they all say is, "I saw your ad in the Mail and Breeze."

A. B. Hall, Manager. Lyon County Farmers' Produce Association, Emporia, Kan.



Our Pink List gives current weekly prices of field seeds. Sent free.

GARDEN SEEDS

Special Prices! on early orders.

Not untried seed that may prove worthless, but clean, pure, tested seed from the old reliable BARTELDES Kansas Seed House. Will grow fine garden and keep your table loaded with fresh vegetables and fruits all summer.

Reduced prices good only until February 20th. Order now.

Big Catalog Free! 112 pages, hundreds of illustrations. Also BARTELDES FARM GUIDE, a splendid book of ready reference. Free with Garden Seed orders of \$3.00 or more. Don't fail to get it.

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Reliable and Full of Life

SPECIAL OFFER
 Made to build New Business. A trial will make you our permanent customer.

PRIZE COLLECTION Radish, 17 varieties, worth 15c; Lettuce, 12 kinds, worth 15c; Tomatoes, 11 the finest, worth 20c; Turnips, 7 splendid, worth 10c; Onions, 8 best varieties, worth 15c; 10 Spring Flowering Bell-peppers, worth 25c—55 varieties in all; worth \$1.00.

GUARANTEED TO PLEASE.
 Write today; mention this paper.

SEND 10 CENTS to cover postage and packing and receive this valuable collection of seeds. Together with my big instructive, beautiful Seed and Plant Book, tells all about Buckbee's "Full of Life" Seeds. Plants, etc.

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The Kind That Produces Per Acre in Profits **\$90**

Can be grown anywhere successfully. The secret is pure seed—the Galloway kind—and system of inoculating and growing. Investigate today. Don't expect to invest any longer. Don't waste time and money. Write for

GALLOWAY'S Big 1914 Pure Seed Book

or send ten cents and get our new 62-page 25-cent book entitled "How to Grow Alfalfa, the Wonder Crop"—a mine of information; tells how to get a sure "catch," prepare ground, inoculate, protect, harvest and many other new facts and important discoveries.

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BUY — Trees At Wholesale
 and Save Agents' and Dealers' Profits.

Apples 7c; Peaches 7c; Cherries 13c; Plums 15c; Pears 15c. A complete list of varieties.

SPECIALTIES

St. Regis Everbearing Red Raspberry	\$4.00 per 100
Black Pearl Black Raspberry	\$4.00 per 100
Giant Himalaya Blackberry	\$5.00 per 100
Senator Dunlap Strawberry	\$2.75 per 1000
Carolina, Lombardy and Norway Poplar	\$3.00 per 100
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Many other items equally low in price. Quality the best.

Headquarters for Small Fruit Plants of all kinds—Flowering Shrubs, Roses, Perennials, Asparagus, Rhubarb, etc. **We Pay the Freight on all orders amounting to \$10 or over. Free Catalog.**

HOLSINGER BROS. NURSERY,
 Box 208, Rosedale, Kansas.

Do You Have to be Shown?

I'm told that I have the best quality of seed, give the largest packages and have the most complete non-sensational book in the bunch. And I'm willing to admit it.

Do you have to be shown? All right, I live close to the Missouri line and I'll "show" you. I'll send you the Seed Book and a package of garden seeds, and you can judge for yourself. **NO CHARGE FOR EITHER,** and you need not even send the postage unless you wish.

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

HENRY FIELD, Pres.
 HENRY FIELD SEED CO., Box 60, Shenandoah, Iowa.

Cane Saves Corn

AN acre of sorghum has more food value than an acre of corn. It is the best kind of winter forage. Assure yourself a good yield by buying Griswold's good seed, government tested, and backed by our guarantee. Write for instructive free book. All kinds of seed at money-saving prices.

GRISWOLD SEED CO.
 111 So. 10th Street, Lincoln, Nebr.

32 NICE POST CARDS different sorts, and one year. The **WHOLE THING** for only ten cents.

ROBERTS & CO., 3247 WOOD ST., CHICAGO, ILL.

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 Tells all about

SALZER'S Oats

Free

Here we outrank. Our seed Oats outyield any and every variety known to the trade. One of our specialties. A dozen splendid full-blooded varieties. Catalog tells, so also about Wisconsin's famous Barleys, Corns, Wheat and Potatoes.

10 Big Sample Packages 10c

For 10c we gladly mail one package each new \$1,000 Marquis Wheat, 20th Century Alfalfa, Rejuvenated Bonanza Oats, Silver King Barley and other farm seed packages. America's headquarters for Alfalfa, Clovers, Grasses, Oats, Rye, Barley, Wheat, Potatoes, Seed Corn, Onions, Tomatoes, Peas, Beans, etc.

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 139 S. Eighth St., La Crosse, Wis.

Seed Corn

that tests 95 to 100%

AINSWORTH

Sold under absolute germination guarantee. Test the corn yourself twelve days. If not up to germination guarantee enclosed with shipment, return at our expense and we refund purchase price. Every bushel of Ainsworth corn is dried in the plant and hand sorted three times. All crate corn dried on racks. We own our own farms—1,000 acres—grow our own seed—do not ship an ear of "crib corn." We have both 1913 and 1914 crop. The largest Seed Corn drying building in the world. Get our 32-page 1914 Corn Book FREE. **W. T. AINSWORTH & SONS, Box W, Mason City, Ia.**

FUNK'S Seed Succeeds

Because it is mated and bred, like pure-bred stock, to give high yields—on an average (1,600 cases)

15 BUSHEL MORE OF CORN; 6 bushels more of oats; 12 bushels more of wheat to the acre than low-priced commercial or homegrown seed.

FUNK'S TESTS 96 to 100 per cent. Funk's are recognized leaders in scientific corn breeding, 25,000 acres. Headquarters also for oats, wheat, alfalfa, clover—all farm seeds. Send for Funk's corn book. Complete illustrated description of how seed is selected, bred, picked, dried, sorted, tested, stored and shipped. Explains why it is worth more than what we ask for it; how little more per acre it costs to plant the very best obtainable. Free. Address **FUNK BROS. SEED CO., 1516 W. Washington St., Bloomington, Ill.**

GOOD SEEDS

BEST IN THE WORLD
 Prices Below All Others

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

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

R. H. SHUMWAY, Rockford, Illinois

Shallu

THERE IS MONEY in growing Shallu, new grain from India; also called Egyptian wheat. Yields 100 bushels grain per acre and large quantities hay. Drought resistant. Full description and sample free.

VEGETABLE SEEDS; 10c Premium Offer—Send 10c and we will mail you regular 10c packet Fireball Beet, 10c packet Improved Big Boston Lettuce, 10c packet of Sunshine Muskmelon, 5c packet Petrowski Turnip, 10c packet Vegetable Marrow and coupon good for 10c on any order of 50c or over. Seed Book Free.

De **GIORGI BROS.,** 1405 3d St., Council Bluffs, Ia.

PURE SWEET \$600 CLOVER 6 Per Bu.

BIGGEST MONEY-MAKER KNOWN—INVESTIGATE
 The greatest forage plant that grows. Superior to all as a fertilizer. Equal to Alfalfa for hay. Excels for pasture. Builds up worn-out soil quickly and produces immense crops, worth from \$50 to \$125 per acre. Easy to get started, grows everywhere, on all kinds of soil. Don't delay writing for our Big 76-page free catalog and circular giving full particulars. We can save you money on best tested guaranteed seed. Sample Free. Write today.

A. A. BERRY SEED CO., Box 103, CLARINDA, IOWA

TIMOTHY SEED

The choicest selections from Iowa fields, carefully re-cleaned. Bought and sold under the microscope. We protect you from weeds. Prices are low this year. Ask for samples and quotations. Large illustrated catalogue of Farm and Garden Seeds free upon request. Write today.

IOWA SEED CO. Dept 20, DES MOINES, IA

DON'T MISS

these announcements that are now appearing in this publication, from time to time, relating to

Landreth's

Seeds Which Succeed

There will be another one soon. Look for it. It tells you how to get the big new catalogue for the coming season.

D. LANDRETH SEED CO.
BRISTOL, PENNA.

VEGETABLE AND FLOWER SEEDS BY MAIL POST PAID



Best Western Grown. Tested and Pedigreed. Safe delivery guaranteed. Write NOW for large **FREE CATALOG** Tells all about our Dependable Grades of Seeds, Trees, Shrubs and Nursery Stock; also Poultry Supplies. Try our selected **DRY FARMING SEEDS.** **COLORADO SEED AND NURSERY CO.** 1509 CHAMPA STREET, DENVER, COLORADO.

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50 Concord Grapes \$1
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Hardy, vigorous, thrifty. All guaranteed. Only best stock shipped. Catalog and 25c Dues Bill sent FREE.

Fairbury Nurseries
Box J, Fairbury, Neb.

Greenwood County Nursery

Established 1890. Write for catalogue and price list of Fruit Trees, Grapevines, Berry Plants, Rhubarb, Asparagus and Speciosa Catalpa. Certificate of Nursery Inspection with each Shipment.

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A complete line of FRUIT, SHADE and ORNAMENTAL TREES, SHRUB VINES, FOREST SEEDLINGS, etc. It pays to buy good stock. Write today for catalogue.

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Best Crop Insurance

MISSOURI BRAND SEEDS are tested, selected and adapted to your section. Increase your crop by sowing the right kind of seeds. Write today for our new free catalog.

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SEED CORN

Test before paying a cent. Our northern grown seed corn is best for your locality. We have the kinds that will make good with you. Our guarantee positively the strongest. You keep the seed corn 15 days before paying us. Write for free catalogue today

Vermillion Seed Co., Vermillion, South Dakota



40 ACRES sold to So-

gressive, Americans and other best everbearers. Get acquainted offer for testing. Send us 10c for mailing expense, and we will send you 6 high quality everbearing plants (worth \$1) and guarantee them to fruit all summer and fall, or money refunded. Catalogue with history FREE if you write today.

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Sand Vetch

The Hardest Forage Crop and Greatest Fertilizer

Our harry Sand Vetch will grow anywhere, regardless of heat, cold or drought. Especially good for sandy, dry land. Crops range from 6 to 10 tons per acre. Excellent feed for growing animals or milch cows; 25 per cent more valuable than any other fertilizer. Send for free catalog.

Griswold Seed Co., 141 So. Tenth Street, Lincoln, Neb.

CLOVER \$5.00 AND TIMOTHY \$5.00

INVESTIGATE—Best and Cheapest Seedling Known. Alsike Clover and Timothy raised. Fully 1-1/2 tons, a big bag. Greatest hay and pasture combination grown. Write for Free Sample and 24-page catalog and circulars describing this wonderful grass mixture. Seeds anything you can sow and ridiculously cheap. We handle only best tested reselected seed guaranteed. Write before advance.

L. A. BERRY SEED CO. Box 535, Clarinda, Iowa

Grange Program For February

BY L. S. FRY,
Lecturer, Manhattan, Kan.

For February meetings of the Kansas State Grange, the following suggestive program has been prepared:

First Meeting—Roll call, responded to with something about the early school days, the teacher, the school house or some incident relating to your chums of those days.

Discussion—How to make a day or evening at the Grange worth more than we are now getting from it.

Current events of the old year that are of special interest to the members of our order, by a sister.

Second Meeting—Fifteen minutes' song practice; the benefits to be derived from a lecturer's conference, by the lecturer.

Debate—Resolved, that the government should purchase and operate the telegraph and telephone lines of the United States.

Discussion—By a sister, How, when, and why use a King road drag? Meeting to be interspersed with songs and recitations.

Some additional topics:
Resolved, that Kansas should have a high school for each six or eight country school districts.

Chances for saving in the home.

gine—that is, portable rigs or a stationary rig.

Providing you wish to use a saw with this engine, I would advise that you use a 24-inch circular saw, not over 28-inch. You should use a balance wheel which should weigh not to exceed 70 pounds; I think 50 would be better.

If you wish to buy the stationary rig for this size saw and motor, it will cost about \$22; the saw will cost about \$4, or for the total, about \$26.

Tenants Need a Fair Deal

Why not think of the landless farmers? They read articles on building up the soil, rotation of crops, conservation and home-building. How is a renter going to do any of these things when his occupancy of the farm may terminate at the end of the year? Most landlords will only rent from year to year, because they are afraid they will discover some discrepancy in their tenant, or they will want to raise the rent on him if they find he is doing well and is contented.

I had that experience once. I raised the rental value of a man's farm from \$4 to \$10 an acre, giving one-half share crop rent and; then he came back at me the next year for three-fifths of the crop because he thought I was making

A Kansas Day Soliloquy

By Mrs. Belle Diehl, Dodge City, Kan.

We're going out to Kansas
To join the farmer band,
To settle on a homestead
Or buy a piece of land.

We'll send the kids to college
When through with public school.
We'll plant crops in rotation
By scientific rule.

We'll wrestle with stern nature
As pioneers must do—
Build characters that conquer,
In men and women too.

We'll use gang plows and engines
And big Missouri mules
To help us in the handling
Of farm and farming tools.

I heard a sleek land agent
Tell where to get a home,
That beats the land o' Canaan
For fertile, prairie loam.

This sounds a lot like building,
Of castles in the air—
These idle dreams of Kansas
When we are settled there.

He calls it "Sunny Kansas",
This land of hopes and joys.
So its westward ho, we'll journey
To raise our girls and boys.

But Kansans seldom falter
In what they aim to do.
Their pluck and perseverance
Just make their dreams come true.

We'll build a roomy cottage
Wherein to dwell and rest,
Enjoying all the blessings
Abounding in the West.

We'll cultivate our talents
And make of each the best
While building up an empire
And homes out in the West.

It must be neat and cozy
With room enough to spare,
But full of human kindness
And comforts everywhere.

Some may prefer a palace
Or cottage by the sea,
But a simple Kansas homestead
Is good enough for me.

How much is lost in this neighborhood by improper care of eggs?

Could this Grange and neighborhood support a course of lectures or entertainments?

Resolved, that a man working in the house is a bigger nuisance than a woman out of doors.

What is meant by the Torrens system of land transfers?

I am planning for a few conferences during February at points as convenient as possible for the Granges concerned. I shall be glad to receive suggestions as to localities and time for holding meetings.

Engine for a Saw

A. C. Dannenberg of Hiawatha, Kan., writes the Motor Car department of the Mail and Breeze asking for advice in getting an engine to operate a circular saw. The reply is from the Automobile Training School, Eleventh and Locust streets, Kansas City, Mo.:

In the first place, I think you will find that a one and a half horsepower gas engine is too small for practical use with a circular saw. Of course for sawing small material such as stove-wood and such, it would possibly be entirely satisfactory. Usually a three or four horsepower engine is used for this purpose and you can buy rigs which are supplied with or without the en-

too much. Now that is not only my experience, but I will venture to say that it has been the experience of others, only perhaps in a different way.

Another thing, if a renter increases the productiveness of the farm, beautifies his surroundings and increases the desirability of the place as a home, the correspondingly increases the number of his competitors for the farm. If they do not get the place away from him, they will cause his landlord to raise the rent on him. Because of his industry he has raised the rental value of the land and also the market value of it.

I know a renter here in Sedgwick county who lived 19 years on the same farm, and never set out a shrub or tree of any kind, but had to build his own stables and bins. He never hauled a load of manure on the place unless it was necessary. And all that time he never had a single competitor for the farm. I suppose he would have been there yet if he had also housed his landlord's grain, and not suffered it to get damp and spoil.

Now this is not an isolated case of landlord and tenant at all, as my fellow renters will agree. Let us hear something in the Mail and Breeze that we can apply to our own condition, as I believe more renters read this good farm paper than all others combined.

H. B. Malone.

R. 4, Wichita, Kan.

SEED CORN

Our corn is grown in Oklahoma. Hand-selected and tipped. It is much better for Kansas and Oklahoma than Northern-grown corn. Prices delivered your station freight paid and bags free.

	Bu.	5 Bu.
White Wonder	\$2.00	\$19.00
Silver Mine	2.15	20.00
Golden Beauty	2.15	20.00
Improved Strawberry	2.25	21.00
Bloody Butcher	2.25	21.00

Samples on request from **STAR MILL & E. CO., Amarillo, Texas**
P. S. We specialize in Texas Red Rust Proof seed oats.

Get ISBELL'S Seed Catalog!

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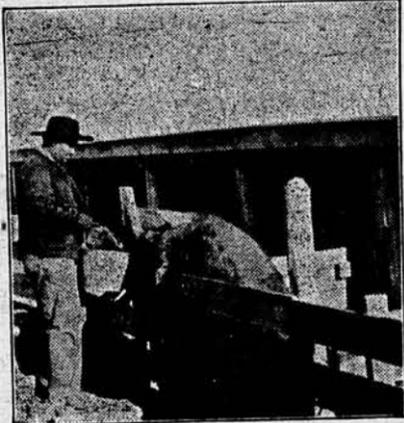
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These Farmers Get Results

With a County Agent the Leavenworth Progressive Agricultural Club Makes a Record

THERE has been a large increase in the acreage of legumes in Leavenworth county since the Leavenworth Progressive Agricultural club was organized in February, 1911. This association has 109 members. It was the first county organization in Kansas to obtain a farm agent. P. H. Ross began work as the county farm agent of Leavenworth county, August 1, 1912.



"Let's have that dinner."

Leavenworth county had 2340 acres of alfalfa when the county club was organized. This had increased to 6,348 acres by 1912. Now there is more than 8,000 acres of this crop in Leavenworth county. The acreage of the other legumes has increased also, with an especially keen interest in cowpeas.

The club was exceedingly active in the fight against chinch bugs last fall. The members are divided into 10 township organizations, and these appointed leaders in the chinch bug war for every school district. November 26 was selected as the "burning day" for chinch bugs, and the blastem and bunch grass went up in smoke in most communities on that day. Some burning was done later.

Mr. Ross wrote to the railroads, and obtained good co-operation from them in the work. All section foremen in the county were ordered to see that the grass was burned on the railroad right of way. This was important, for the grass along the railroads and public roads is where a high proportion of the bugs live in the winter.

Much effort, also, has been made in the fight against the Hessian fly. The fly damage has been considerable in Leavenworth county in the past, largely because the farmers have been sowing their wheat too early. Seeding should not be started before October 1. The farmers were so well united this year that more than 85 per cent of the crop was sown after that date, although the rule has been that seeding usually was started about September 15. There is almost no damage to the late wheat.

An excellent example is to be seen on the farm of W. R. Green in the southwest corner of Leavenworth county showing the difference in Hessian fly damage on early and late sown wheat. Mr. Green sowed all of his wheat after October 1, and there is no fly in it, but some volunteer wheat that came up in an adjoining field about the time the first wheat usually is sown in that section was almost killed by the insects.

"I regard the increasing interest in alfalfa as a healthy sign for a better agriculture in this county," said Mr. Ross, the agent. "We have a glacial soil that will grow alfalfa well if it is properly handled; and it is one of the most profitable crops that can be grown even without considering the soil."

"Farmers have obtained good stands

of alfalfa here in many ways, of course, but one of the methods that has given especially good results is to sow the crop after oats. The preparation of the seedbed should be started at least a year before the seed is sown by plowing the ground deeply, at least seven inches, in the fall. Leave the ground rough through the winter and sow three bushels of oats in the spring for hay.

Cut these oats just after they have passed out of the milk stage, and double-disk the land promptly; this usually will be the third or fourth week in June.

"The land should then be disked enough to keep the weeds down and leave a good soil mulch on the ground until the seed is planted. Alfalfa can be sown the first time in August that the moisture conditions are right. It is not best to sow the seed unless there is enough moisture in the soil to germinate it and all the plants to grow properly. The seedbed for alfalfa must not be loose; it must be rather firm with a little loose dirt on top. In this way one generally can get this condition without much trouble."

It is extremely important that good alfalfa seed should be used and for that reason Mr. Ross has been making an earnest effort to encourage seed testing. He has had all the field seeds tested free of charge, that have been brought to him. There are two important things to guard against in buying alfalfa seed: One is to get seed that will germinate well and the other is to have it free from weed seeds. Mr. Ross believes that 15 pounds an acre is enough if one drills the seed, but if he sows it broadcast 20 pounds is better.

"Soil inoculation with alfalfa bacteria is important in Leavenworth county, and these bacteria should always be added when one is sowing the crop on the ground for the first time," Mr. Ross said. "One should use 200 pounds of soil an acre from an old alfalfa or sweet clover field, as this method is more certain than artificial cultures. It can be sown broadcast from a wagon. It is important that the work should be done on a cloudy day, so that the bacteria will not be injured by the bright sunlight. The ground should be harrowed soon after the soil is sown."

While alfalfa usually grows well in Leavenworth county, there is considerable interest in fertilizers for it, so this fall Mr. Ross made five tests with commercial fertilizers, to see what profits could be made. John Gable, near Lansing, and W. A. Amend, near Basehor, are co-operating in fertilizer tests on wheat. There is not so much need for fertilizers in Leavenworth county as there is in some other places, but some of this material is being used. Consider-

(Continued on Page 37.)



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No Dual Purpose Animals?

Kansas Stock Breeders Apparently Don't Believe There Is Such a Thing—Notes of the Annual Meeting

KANSAS livestock breeders believe that the farm animals of the state must be improved if the business is to continue to be profitable. Many influences are at work to change the conditions in the industry, two of the important ones being the high price of feed and the low tariff rates, and it is only the high class animals which are efficient meat producers that can make a profit. These facts were forcefully brought out and discussed last week in the meeting of the Kansas Improved Stock Breeders' association in Topeka.

Most of the livestock men have no belief in the dual purpose animal; they don't believe there is any such animal. As Professor A. S. Neale of the Kansas Agricultural college said: "There have been a great many efforts in recent years to breed high-producing dairy cattle carrying the heavy fleshing characteristics of the beef cow, but failure has been the result. The thick fleshing

objection made favorable mention of the work of the college. It is evident that the Kansas Agricultural college has some mighty good friends in the Kansas Improved Stock Breeders' association.

There was much interest taken in a talk made by A. C. Pierce of Junction City. Mr. Pierce built the first silo in Kansas 35 years ago, and it is in good condition yet. Clarence H. White of Burlington read a paper on "Who Shall Be a Breeder of Shorthorn Cattle?" in which he made a forceful plea for better beef cattle on the average Kansas farm. J. L. Papes of Mulvane read a paper on the "Development of a Dairy Community" in which he told of the growth of the dairy industry at Mulvane. In the course of his address, he said:

Dairy Cow Neglected.

"The man who causes two blades of alfalfa to grow where but one grew before is something in the way of a human benefactor. But he really is not in the same class with him who increases the herd of dairy cows to eat that alfalfa, and convert it into milk. Much attention has been given the beef steer, which after two years of fruitless existence, yields considerably less than a thousand pounds of food from his carcass. The efficient dairy cow has been almost wholly neglected. Yet she will produce from 6,000 to 10,000 pounds of nourishing human food in a single year and at the same time produce an offspring that one chance in two will duplicate the production inside of three years. And the dairy cow does not die to do this, but will do as well or better next year."

Mulvane, according to Mr. Papes, was helped materially when the milk condensary was established at that place. The farmers had been raising wheat, and the land was gradually losing its fertility. Now that dairying has taken the place of beef and wheat, something is being put into the soil that is increasing its value.

In the last three years, the amount of milk delivered to the condensary was about 30 million pounds, and the cash value has exceeded 1/2 million dollars. In 1912 one convert to the dairy business made \$1,436 off 17 1/2 acres. On seven acres of this he raised corn and the other 10 1/2 acres produced alfalfa. The value of the milk marketed during 1913 was more than \$200,000, and within the next few years the community expects to market 1/2 million dollars' worth, annually.

Kansas has about 6,000 silos, and the community of Mulvane has 150 of them. The Mulvane farmers realized that the silo was a good guarantee against total crop failures.

Stubbs's Dairy.

Ex-Governor Stubbs owns a half section of land near Mulvane and has started to make of it a high class dairy farm. He has placed at the head of his herd the famous sire, Gem Petertje Paul DeKol, who headed the Pabst Holstein herd at Oconomowoc, Wis. These facts were given by Mr. Papes to illustrate that Mulvane is becoming the Holstein center of Kansas. Breeders in that section have organized the Southern Kansas Holstein Breeders' association.

Mrs. Cora W. Bullard of Tonganoxie, spoke on the relation of the home to the development of the farm. She contends that there should be much co-operation between members of the family. Mrs. Bullard gave a few raps at bachelors in the course of her address.

Dr. A. E. Holt of Manhattan, spoke on "Fighting Off Peasantry or Prevention of a Scrub Stock." The speaker said that it must be recognized that the city has offered the high goal in American life. The rural population is decreasing, and the farmers in many sections of the country for the most part do not own their own land. In Kansas between 30 and 40 per cent of the farmers till soil which they do not own. There should be better organization in the communities, according to the speaker. Leaders with progressive ideas should be given a chance to use their ability for good.

T. H. Terry of Bavaria, was elected president of the Kansas Improved Stock

(Continued on Page 37.)



T. H. Terry, president of the Improved Stock Breeders' association for 1914.

characteristic of the good beef cows is not combined with high and profitable milk production of the good dairy cow. Each are special purpose animals inheriting the tendency in one case to turn feed into beef, in the other to turn it into milk."

W. A. Cochel's Talk.

W. A. Cochel, professor of animal husbandry in the Kansas Agricultural college, spoke on "Roughage in Beef Production." He showed that with the increase in the price of grains and concentrated feeds it is essential that more of the gains with beef animals should be made with roughage. He called attention to the differences this was causing in the feeding practices; many years ago one of the main boasts of a feeder was that his animals were eating more than a half bushel of corn a day, but now he was equally proud of the fact that equal gains were being made with less than a peck of corn and a more careful use of roughage.

Professor Cochel made a plea for a larger acreage of the legumes, especially alfalfa, and for an increase in the number of silos. Kafir and cane silage have a feeding value that is equal to corn silage, as was shown in the feeding results at the Kansas Agricultural college last spring, and Professor Cochel believes that there should be a great increase in the planting of these crops for silage, where the corn crop may be cut short by drouth. He believes the crop should be planted for the silo which will make the largest amount of silage.

After Professor Cochel had finished, one member objected to the feeding of show animals at the college, on the grounds that the gains were not financially profitable. In answer to this, Professor Cochel showed that the premiums and sales from the breeding herd for the last three years had been more than enough to pay the costs, and in addition to this the college has received an immense amount of publicity from the show herd. A large number of the members of the association took part in the discussions about the show herd, and all except the member who raised the origi-

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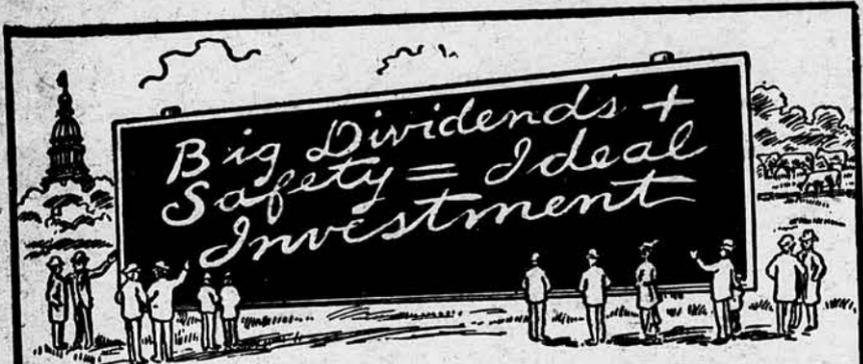
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I DUG a pit silo 16 by 18 feet as an experiment because I had been advised that a pit silo was not a success in our part of the state. But I have found that they are all right here where the ground is high and dry and well drained. I first laid off a circle 16 feet across and spaded a trench 8 inches wide and 16 inches deep just outside the circle, all the way around.

I then made a frame of lap siding as wide as the trench and one foot above the level of the ground, then filled this trench and frame with concrete. After letting this set for two days I started five men to digging. They dug straight down inside the wall. I think this wall is necessary as it prevents caving and in case one wishes to build above the ground afterward, there is a good foundation.

The first day the men threw the dirt out and I removed it with a wheel scraper, but after that I erected a beam 32 feet long over the silo extending it from the center of the silo to one side so that I could drive a team under it. I then made two boxes with loose bottoms each holding about 500 pounds, and bought 16 feet of track and a car and rope such as is used in a barn loft. This was hung to the beam.

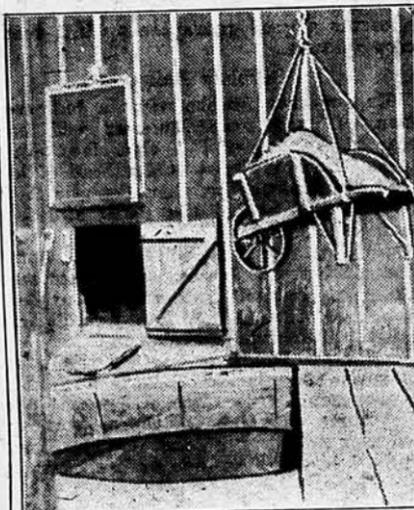
I used a team to hoist the dirt and dumped it just outside the silo. One box was filled while the other was emptied. I then removed the dirt with a wheel scraper and when the digging was finished the dirt was all hauled away. The silo was plastered with good, heavy cement.

The cost of this silo was as follows:
Five men 4 days at \$2 a day for digging—\$40;
Eighteen sacks of cement at 55 cents—\$9.90;
Blacksmith bill for making rods and stays for boxes—\$3;
Three men 1 day for plastering—\$7;
Car, track and rope—\$12.25;
Sand—\$5; total \$77.15.

I have been feeding my silage for more than a week. It seems to be in fine condition and the cattle certainly relish it. Next year I will either dig the silo deeper or build it up.
Frankfort, Kan. M. T. Bigham.

Cost More Than Reported

I have read several accounts of silos being dug for \$25 and less, but am under the impression that the writers made no charge for labor and board. We have a pit silo 14 by 20 feet in size. The digging and plastering were done by contract for \$30. We built a 10-inch



Block and tackle, crane, and wheelbarrow to remove the earth.

collar 1 foot in the ground and 18 inches above. It was not necessary to build it so thick but we intend to run it up 3 or 4 feet if it gives satisfaction.

We used two half barrels with block and tackle and pulled the dirt out with a horse after getting down 6 feet. The dirt was kept away from the silo with a team and scraper. We plastered in courses of 5 feet as we dug down, to save the labor of building scaffolding, we used two coats of cement and sand in a proportion of 1 to 2 1-2. It was good spading in joint clay with one

small streak of limestone gravel 4 to 6 inches thick.

The cost of this silo was as follows:
Breaking rock and building cellar, three days at \$1.50—\$4.50;
Digging and plastering—\$30;
Twenty-six sacks cement at 55 cents—\$14.30;
Two loads sand—50 cents;
Hauling sand and cement 11 miles—\$5;
Moving dirt and mixing plaster—\$10;
Boy to lead horse, five days at 50 cents—\$2.50;
Use of lumber for form, rope, etc.—\$1.50;
Board seven days 3 men—\$7;
Total \$75.30.

This looks high, but if any of those men who built silos for \$25 or less, want to build me another for \$40, I would be pleased to take them up.
L. E. Heywood.

Twin Creek, Kan.

Exchange Work With Neighbors

I built a pit-silo 12 by 26 feet, and plastered two others. It took my two boys, aged 12 and 16, and the help of a farm hand, six days to dig the silo. There was one hand on top to handle the dirt and a 10-year-old boy to lead the horse. We used a crane with an arm to hoist the dirt and empty it. After the silo was dug it took two days to plaster it and one day for making the neck and putting in the forms. The actual cost of this silo follows:

Two men five days at \$1.50—\$7.50;
One man 1 day—\$1.50;
Three and one-half loads of sand at 50 cents—\$1.75;
Thirty-two sacks cement at 55c—\$17.60;
Total—\$28.40.

By not counting our own labor or the board, we got our silo for almost nothing. The second silo is 16 by 26 feet and was built by hired labor so it cost much more. Here is the bill:

Six loads of sand at \$3—\$18;
Five men digging 10 days at \$1.50—\$75;
Fifty-two sacks cement at 55 cents—\$28.60;
Plastering—\$7;
Board of hands—\$30;
Total—\$158.60.

Both silos have a cement neck 6 inches thick and 2 feet high. It can be seen from the foregoing that if several neighbors will exchange work, the actual cost of a pit silo will be very small. I have been feeding out of my silo for 60 days and my stock is sleek and fat and as contented as cattle on full feed would be. I filled the silo with corn and the silage has kept perfectly.

I left my silo entirely uncovered through all the rainy weather and there was no perceptible damage to the silage. This silo did not spring any leaks on the sides as some persons seem to believe. One of my neighbors who has a hinge door silo intends to dig a large pit silo this year since he has seen how valuable mine has proved. Frank F. George.
R. 3, Esbon, Kan.

Dynamite Helped in Digging

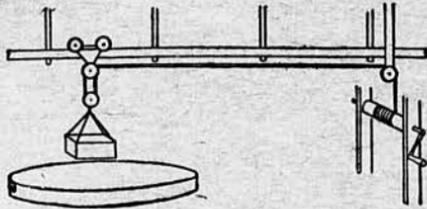
I made two pit silos—one 9 by 22 feet, and the other 12 by 20 feet. The first 10 feet of the digging was in joint clay and yellow clay. It was hard spading. The lower 10 to 12 feet was soft limestone and had to be dug with pick and shovel but this formation makes fine walls. It took two men four days to dig out 8 feet of this limestone with pick and shovel.

When we reached the seamless rock in the 9-foot silo we put in a charge of giant powder, blowing out a funnel shaped cavity in the center. When this was cleaned out we put in two half sticks of dynamite. These were put down 5 feet deep to make a pocket for powder blasts. Thus we filled and fired, and the system was such a success that we had very little use for a pick.

The cement collars at the top are 5 feet deep and 6 inches thick. These are made of a 4 to 1 mixture of sand and cement. Below these collars the walls are plastered with a 2 to 1 mixture. The plastering is done after the digging is finished. A swinging scaffold is so easily made and the plastering is so much better when done without joints. Then there is no danger of tearing the plaster while digging and hoisting the earth. We elevated the earth with a swinging hay derrick and

dumping bucket. After being dumped the earth and stone was removed to a nearby corral with a slip scraper.

The 9-foot silo has a capacity of 26 tons. It cost us \$30 to do the digging, remove the earth, put in collar, and attend the plasterer. The sand at \$1.75 a yard came to \$6.75, cement at 55 cents \$18.70, and blasting material \$2.80. The plasterer's bill was \$2.50, all of which totaled up \$60.75. On the same basis



Silage hoister on the Kyle farm.

the 12-foot silo cost \$85.55 to construct. It holds 40 tons. These figures include our own time and that of the team.

It took 30 acres of fodder to fill these two silos—65 loads in all. In 1912 we had 6 acres of kafir that would have filled them to overflowing. The expense of filling was about \$1 a ton. It cost \$1 an acre to cut the corn which meant almost 50 cents a ton.

We opened the 9-foot silo October 8

gait. He is a willing worker up to the limit of endurance; after that he takes care of himself. The horse, on the other hand, has a tendency to walk faster and hurry when he gets warm. He is thus more easily overheated than the mule and not so safe a work animal for hired help.

There were 822,000 mules in the United States in 1867. These mules were valued at \$66.94 a head. This number has steadily increased until January 1, 1913, there were 4,386,000 valued at \$124.31 a mule. There were 222,000 mules valued at \$114 a head on Kansas farms a year ago. The valuation had increased \$0 a head over the preceding year. The average increase for the whole of the United States was only \$3.80. This shows that the Kansas mule has improved more in quality than the mules of some other sections. The improvement of the horse stock of the state may account for some of this increase in value. The constant demand for better jacks has also brought great improvement.

Some horsemen condemn the mule, but if this animal is bred and used in the right way he may be the most efficient means of bringing about improvement of the horses of the state. One of the best and quickest ways to free the horses of unsoundnesses is to breed



The Farmer's Good Friend.

and eight milk cows and two spring calves have been fed almost exclusively from it ever since. They had very little alfalfa or fodder in addition. Today (December 21) there is still 6 1-2 feet of silage left and it had settled 3 feet below the collar when opened.

I have a shed, open to the south, built over both silos. A Porter track with carrier is swung overhead and the silage is hoisted by means of a windlass at the feedway door. The drawing shows the plan. We raise about 150 pounds at a hoist. When the second silo is opened we will simply move the trip block on the track over this silo and will be ready to take out the silage.

Mankato, Kan. I. W. Kyle.

The Mule, a Good Friend

BY TURNER WRIGHT.

The mule long has been the favorite motive power in the South. He is patient and enduring and is a popular work animal where inefficient labor is employed. This is due no doubt to his inherent nature. When the mule gets warm he goes slowly and no amount of persuading can make him strike a faster

all defective mares, and all mares that are off type to jacks, and thus stop the reproduction of their kind. Mules from this class of mares will earn the farmer more money than horse colts from the same mares.

Mules have held an important place in the livestock world for many years. It has been said that mules never die but that they do pass on. They find a ready market and are shipped out of the country before they are old enough to die. The first account of the mule is when it was found running wild in the woods on Mount Seir. Mules were used to pay taxes 900 years before the Christian era and they have been paying taxes ever since. It is often said that the mule is the same as a bank note. Perhaps that is why King David honored King Solomon by having him placed on his own mule. Mules and other merchandise were shown at the fairs of Tyrus 500 years before the birth of Christ. They form an important part of our state fairs today.

If you make up your mind that you can't do it, that settles it. A good many people tie that stone around their own necks.

Cement Silo Builders

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Poultry Magazine Big 20 to 40 page illustrated monthly magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10c. **Poultry Culture, 800 Jackson, Topeka, Kan.**

When a mother does the work her girls ought to do, she deprives them of valuable training and experience and makes them lazy besides. Then the girls get blamed for it.

THIS BIG, 3 1/2 FOOT TELESCOPE FREE

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 15 inches long and has a circumference of 3 1/2 inches. When all 5 sections are pulled out the full length is over 3 1/2 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 12 cents extra for postage (\$1.12 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

Mail and Breeze
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TOPEKA, KANSAS.



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6 Beautiful Narcissus Silver Tablespoons FREE

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To Mail and Breeze Readers!

Here is a chance for every housewife who reads the Mail and Breeze to secure absolutely free a set of 6 of our famous Narcissus Silver Plated Table Spoons. During the past 5 years we have given away thousands of sets of these beautiful table spoons, but never before have we been in a position to make such an attractive offer as we are now making to the women folks who read the Mail and Breeze.

Owing to our large purchases we have secured a price on these spoons which we believe is about one-fourth the price any local dealer would ask for the same grade of goods. We have searched through the silver plate markets of the world and have never been able to find, at anything near the same cost, goods of such remarkable wearing qualities and of such beautiful design as this justly famous Narcissus set.

Full Standard Length and Weight

These are not small sized dessert spoons which are usually offered as premiums. These spoons are all full standard table spoon size, 8 1/4 inches long—handle 5 1/4 inches long, bowl 3 inches long and 1 3/4 inches wide. They are silver plated and handsomely engraved and embossed in the beautiful Narcissus design, same as the Narcissus teaspoons which we have been giving away for more than two years. Bowl is highly polished and the handle finished in the popular French gray style. The Narcissus design extends the full length of the handle on both sides. The gray finish of the handle contrasts with the bright polished bowl and produces an effect that is decidedly pleasing. We could send you hundreds of enthusiastic letters from those of our readers who have received these spoons on other offers we have made in the past. We know they will please you, too—and if they don't you can send them back within 5 days and we will cheerfully refund every penny of your money.

Here Is Our Offer:

For the next 20 days, or as long as our supply lasts, we will give one set of 6 Narcissus Table Spoons free and postpaid to all who fill out the coupon printed below and send \$2 to pay for a three-year new, renewal or extension subscription to Farmers Mail and Breeze.

We will send one set free and postpaid for three one-year subscriptions to the Mail and Breeze at our regular rate of \$1 per year. One of these subscriptions may be your own renewal, but the other two must be new subscriptions.

If you want to be sure of securing one of these beautiful sets before our offer is withdrawn clip out the coupon and send it in today. Address

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I am enclosing herewith \$2 to pay in advance for a three-year subscription to Farmers Mail and Breeze. You are to send me as a free premium, postpaid, one set of 6 full size Narcissus Silver Plated Table Spoons.

This is a (new) (renewal) (extension) subscription.

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(If you send 3 one-year subscriptions use a separate sheet of paper for the 3 names.)



It's Secretary Mohler Now

F. D. Coburn Resigned From His Position at the Meeting of the State Board of Agriculture at Topeka

THE resignation of F. D. Coburn as secretary of the state board of agriculture and the election of his assistant, Jacob C. Mohler, to that place was the feature of the meeting of the board at Topeka last week. Mr. Mohler was nominated by A. W. Smith of McPherson, the vice-president, and no other name was placed before the board. His election was unanimous. Mr. Coburn's resignation will take effect June 30.

Mr. Mohler has been in the office of the state board of agriculture 22 years. His father was secretary of the board 20 years ago, before Mr. Coburn's term of office began. Mr. Mohler was born on a farm in Osborne county in 1875, and he lived there until he was 13 years old. He came to Topeka in 1888, and attended Washburn until he had to quit and go to work. His connection with the department of agriculture began in 1892.

"I am deeply grateful for the consideration you have shown me," said Mr.



Jacob C. Mohler, new secretary of the state board of agriculture.

Mohler, in the course of an address to the board following his election as secretary. "I pledge myself to do the best work I can for this organization, and for the upbuilding of Kansas agriculture."

Coburn's Great Work.

The kindest of feelings was expressed toward Mr. Coburn by the members of the board, who believe that he has done a great work for Kansas. Mr. Coburn believes that he has been in public office long enough, and he wishes to retire to private life while he still is strong, and able to give the people of Kansas the best service. He does not think that a man should stay in office after he is too old to do active work. Mr. Coburn now is 68 years old. A very kind resolution was adopted by the board expressing sorrow over Mr. Coburn's resignation, which said in part:

Therefore, Be it Resolved, That it is with profound sorrow that we part officially with one who has been so efficient, agreeable and patriotic to the people of Kansas, and assure him that he retires to private life with the confidence, esteem and gracious benediction of not only this board in particular, but of the people of Kansas as a whole, and it is the prayer of all that the blessings of health and prosperity may attend him in all his future endeavors.

George B. Ross, the president of the board, in the course of his opening address, told of the need of encouraging the younger farmers of Kansas to attend the meetings of the board. He said in part: "What we need here is a larger attendance of real, enthusiastic, progressive farmers. They are the ones that put real life in an agricultural meeting. In Kansas today we have a large number of strong and enthusiastic County Farmers' institutes. In order to get these county institutes more closely identified with the state board of agriculture I would suggest a change in our present law, permitting each of the county organizations to send a real, active delegate to the annual meeting of the

state board of agriculture, where he or she would be allowed a voice in the election of our members."

L. A. Fitz, professor of milling industry in the Kansas Agricultural college, made a plea for better wheat in Kansas and better methods of caring for the crop. He believes that the state inspection force should have more power over the state shipments of grain, and that the department should be placed on a civil service basis. He urged that greater care be given to the handling of wheat in the field, so the quality will be high.

A stimulus to agriculture is not given by increased prices, according to R. A. Pearson, president of Iowa State college, who spoke on the topic, "Farmers as Scientists." To prove this, Mr. Pearson

showed that in a period when the price of products increased 7 per cent the prices of building material and labor increased 10 per cent. The farmer is not getting the benefit of increased prices. Mr. Pearson told of the advance of scientific farming and the benefits coming from scientific study of farm study and conditions. "I am speaking this evening on woman, the eternal feminine, as unchangeable as weather," said Mrs. May Belleville Brown in opening her address. "What will woman do with herself? She has started a new chapter in the book of life because of more leisure, due to the changed economic conditions. It rests with women whether she enters new fields or becomes a parasite upon society. Now she must choose and upon her choice lies the hope of civilization."

In addition to the secretary, the officers of the board of agriculture for the coming year will be: George B. Ross of Sterling, president; A. W. Smith of McPherson, vice president, and J. T. Tredway of La Harpe, treasurer. The

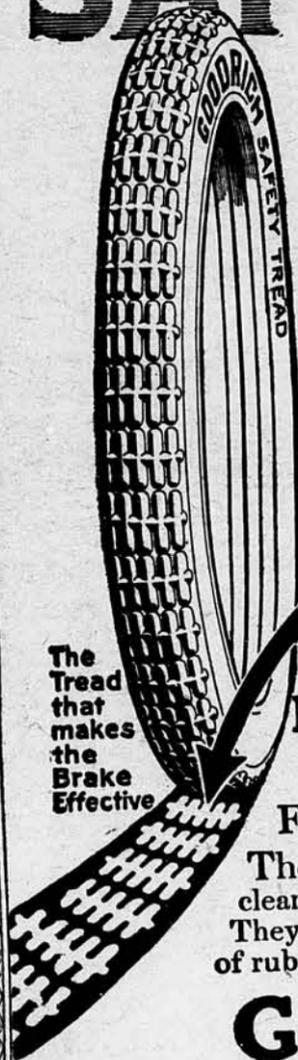
board of directors for 1914 will remain the same as for 1913 with one exception. J. C. Robison of Towanda was succeeded by E. E. Frizell, former mayor of Larned. Thomas M. Potter of Peabody, T. A. Hubbard of Wellington, R. B. Ward of Belleville, and H. M. Laing of Russell, were elected for two-year terms, and H. S. Thompson of Sylvania, for one year. The other members hold over another year.

George B. Ross, F. D. Coburn, H. S. Thompson, and T. A. Hubbard were selected as representatives of the board of agriculture on the Kansas State Fair board.

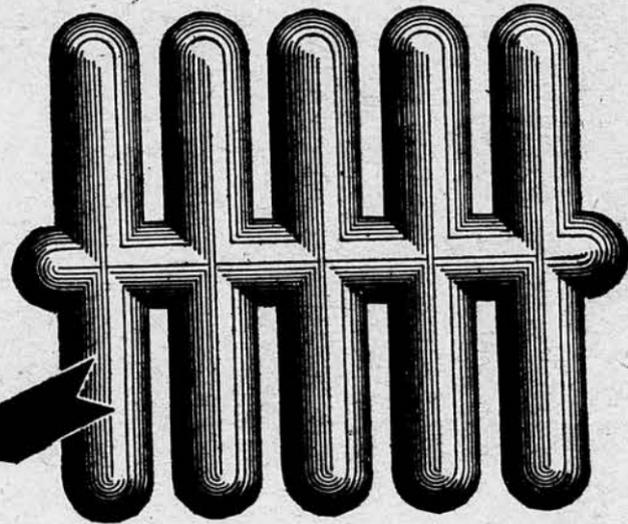
Elk County Has Cows.

G. S. McCallum of Elk county, Kan., calls attention to the fact that he remembers the time when there were no dairy cows in that part of the state. "Today we have several creameries, one of the largest in the state, which receives its supply of cream from hundreds of dairy cows," he said.

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Don't experiment. Don't take chances. Look for the five bars and the crosstie when you choose a non-skid tire. Read the reduced-prices below. Better still, tear out this price list and hand it to your dealer.

Don't pay more than the prices named here for the accepted standard non-skid and smooth tread tires:

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30 x 3	\$11.70	\$12.65	34 x 4 1/2	\$33.00	\$35.00
30 x 3 1/2	15.75	17.00	35 x 4 1/2	34.00	36.05
32 x 3 1/2	16.75	18.10	36 x 4 1/2	35.00	37.10
33 x 4	23.55	25.25	37 x 5	41.95	44.45
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Why Keep Profitless Cows?

Scales and a Babcock Tester Will Give the Answer

BY A. S. NEALE
Kansas Agricultural College

JUST why some men persist in keeping cows that are not paying their board is not easily understood. I think that if all the cows in Kansas were tested today, and those sold that were not paying for the feed they consume, we would not have more than half the cows left in the state. And yet from the dairyman's standpoint, this is exactly the thing that should be done. A pair of scales and a Babcock tester will reveal the exact condition and will open the dairyman's eyes in a way nothing else can do.

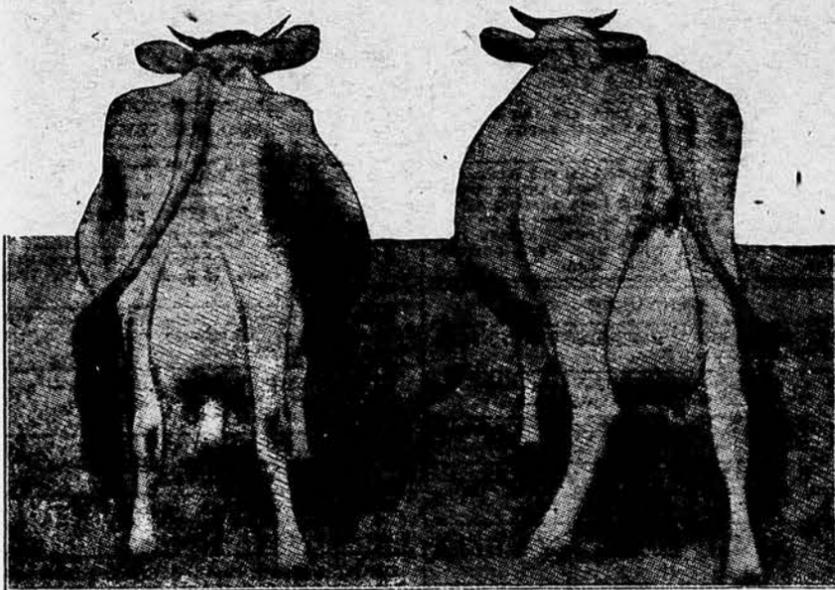
For example, a cow testing association was formed in Dickinson county a year ago, with 379 cows included in the herds under test. Only 133 of these cows completed a year's work. Some freshened during the year, and did not have a twelve-month test, but many were sold as not worth keeping. Those completing the year's work were divided into two groups at the end of the year. Sixty-five produced an average of 7,400 pounds of milk, and 311 pounds of butter fat each, consuming an average of \$40.66 worth of feed; 68 produced 4,872 pounds of milk, and 186 pounds of butter fat, consuming \$30.99 worth of feed to the cow. The best cow of this association produced 546

self at least once, if not several times. She can be made a permanent investment, if by judicious breeding she produces daughters of equal value. Is it not reasonable then to estimate her value considerably above that at which she would ordinarily sell? On the other hand, if the average cow records a loss of more than \$13 a year, is it not folly to pay more for her than she is worth for beef, and is it a good business proposition to keep a lot of such cows on our farms?

Why Not Grade Up?

If such cows as this can be produced by a breeding up process, is it not the wise thing for every man who wishes cows for dairy purposes to begin to grade up at once? It is a deplorable fact that the men who need to study the breeding problems most, that is the farmers with the poorest cows, are the ones who are most careless about it.

A statewide cow competition was held two years ago in Wisconsin in which authentic records were kept for one year of 395 cows. Fifty of these cows were grades. Five were Holstein, 24 Guernsey, 21 Jersey grades. The average production of these grades was 16,879 pounds of milk, and 555 pounds



The man who has special purpose dairy cows, like these two "Jersey milking machines," is fortunate. Often the grade dairy cow properly handled will prove her worth.

pounds of butter fat, 13,698 pounds of milk, and consumed \$65.91 worth of feed. The poorest cow in the lot produced 59 pounds of butter fat and 1,418 pounds of milk, costing \$33.23 for feed.

The Better Cow's Value.

When you compare these records you can get an idea of the value of the better cow. Figuring her returns at 25 cents a pound of butterfat and 30 cents a hundred for skim milk, we have a net return of \$104.33 over feed cost, while in the case of the other cow the return above feed cost is \$8.61. In other words, it would require 12 cows of the latter class to produce as much profit over feed cost as this one best cow produced. If to the cost of feed we add all the other expenses, such as labor, interest on the investment, deterioration and risk, which amounts to not less than \$30 a cow a year, we would find that the poorer cow would leave us \$21.39 in debt, while the better cow would still give a profit of \$74.83.

The question arises as to what is the value of the better cow, the owner has refused \$150 for her and she is only a grade. If we figure her value as an ordinary business investment is figured, we will find that it runs to an enormously high figure. If there were no risks attached to her life and she would continue living and producing this amount year after year, it would be possible to capitalize her at \$1,247.16 on a basis of 6 per cent interest. This cow will live only five or ten years longer and there is considerable risk to run, yet it is perfectly safe to assume that she will reproduce her

of butter fat for the Holsteins; 10,073 pounds of milk and 475 pounds of butterfat for the Guerneys, and 6,890 pounds of milk, and 364.5 pounds of butterfat for the Jerseys. The cost of feed was: Holstein, \$101.26; Guernsey, \$71.12; Jersey, \$62.45, and the net returns were from \$50 to \$81 a cow. If such results can be produced by the grading up process in Wisconsin, there is no reason why it cannot be done in Kansas.

Why go on producing cows that will never pay for their keep when we can have the profitable sort? In selecting the sire to mate with grade cows it is as important to look for high breeding as in selecting the sire for the purebred herd. In fact I sometimes think it is more important. The man with the grade cows needs the improvement more than the man with the purebreds. The better the sire, the greater the improvement. Consequently he should not hesitate to pay a few dollars more and get the best. There are in Kansas many men who have only a few cows, and when they have used the scales and Babcock tester for a year they will have still fewer. They do not feel that they can afford to buy a \$100 bull. Suppose this sire increases the production of a cow only 50 pounds of fat a year; that we get only five cows from him, and that they are in milk six years, our gain is 1,500 pounds of butterfat, worth \$375. We can afford to pay \$100 for him; give him away when through with him; pay interest on investment and cost of keep for five years, and still have \$100 profit. I believe that every man, even

(Continued on Page 25.)

No Excuse for any Cow Owner Being Without a DE LAVAL CREAM SEPARATOR

THERE is no reason why any cow owner who sells cream or makes butter should be without a separator and there can be no excuse for his not having the BEST separator.

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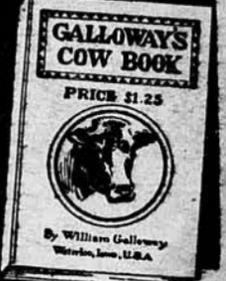
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HIGH SCORING Barred Rock cockerels; guaranteed; \$1.50 each. Harry Cummins, Toronto, Kan.

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FOR SALE—Noftzger strain Partridge Rock cockerels. Three dollars. D. C. Davis, Cimarron, Kan.

"GOLD COIN strain" Buff Rocks. Cockerels and eggs for sale. Rufus S. White, Sapulpa, Okla.

WHITE ROCKS. Fishel strain. Eggs, 15 \$1.25; 50 \$2.75; 100 \$5.00. Mrs. Frank Powell, Buffalo, Kan.

BUFF ROCKS. Pure bred big boned cockerels for sale. Eggs in season. Ed Morgenstern, Oakley, Kan.

BIG TYPE Barred Rock eggs. From ten pound hens, and twelve pound cocks. A. H. Duff, Larned, Kan.

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BUFF ROCK cockerels, prize winners. Eggs \$1.50 and \$2.00 per 15. E. L. Stephens, Garden City, Kan.

CHOICE Barred Rock cockerels at \$1.50 to \$5.00. Big fellows, ready for service now. James H. Parsons, Quinter, Kan.

WHITE ROCKS. Cockerels; large; pure bred; farm raised; \$1.50 to \$5.00. Eggs in season. Ben Miller, Newton, Kan.

EARLY, ringy, weigher-layer Barred Rocks, \$2.00 up. 103 premiums. Pen heads specialty. W. Opfer, Clay Center, Kan.

TWO BREEDS—Pure bred Barred and White Plymouth Rock cockerels and pullets from prize winners. H. F. Hicks, Cambridge, Kan.

BARRED ROCK cockerels. Farm raised. Light colored \$1.50 each; medium dark ones \$2.00 each. Mrs. John Howell, McPherson, Kan.

BARRED ROCK cockerels. Farm raised. Laying strain. Light colored \$1.50 each; medium dark \$2.50. Write to F. J. Willis, Milton, Kan.

BARRED PLYMOUTH ROCKS exclusively. Choice high scoring cockerels; farm raised; \$2.00 to \$5.00 each. L. P. Nichols, Kirwin, Kan.

DOUBLE VALUE, large, barred-to-skin cockerels. Eggs from grandly double-mating pens. Runner duck eggs. Mrs. Edward Hall, Junction City, Kan., Route 3.

BARRED ROCKS. 68 premiums won at Topeka, Manhattan, Clay Center, Denver. Choice cockerels \$3.00 each and up. Mrs. D. M. Gillespie, Clay Center, Kan.

I AM ON DECK with the usual number of choice Barred Rocks, either sex. Write me your wants. Satisfaction guaranteed. Frank McCormack, Morrowville, Kan.

BARRED ROCK cockerels—Utility birds for the farm flock hatched from mated pens. Light colored \$2.00 each; medium and dark, \$3.00 to \$5.00. C. C. Lindamood, Walton, Kan.

IVORY STRAIN White Rocks, 100 big snow white cks. and pullets for sale. Pullets \$1.50 to \$2.00. Cks. \$2.00 to \$3.00 each. Chas. C. Fair, originator of Ivory Strain, Sharon, Kan.

LANGSHANS.

WHITE LANGSHANS. Cockerels only. Wm. Wischmeier, Mayetta, Kan.

PURE BRED Buff Langshan cockerels, \$3.50. Mrs. Ferrell, Ness City, Kan.

WHITE LANGSHANS, pullets, cockerels. Mrs. Howard Erhart, Independence, Kan.

FINE BLACK LANGSHAN cockerels. Scoring 93 1/2. Martha Haynes, Grantville, Kan.

PURE BRED White Langshan hens, pullets, cockerels. Mrs. Geo. McLain, Lane, Ks.

PURE BLACK LANGSHAN cockerels, pullets, \$1 to \$5 each. Mary McCaul, Elk City, Kan.

ANCONAS.

FINE Mottled Ancona cockerels. Verona strain, \$1.50 each. Wm. Soske, Mesa, Colo.

TURKEYS.

BOURBON RED toms, \$3. A. Alkins, Valley Falls, Kan.

50 WHITE HOLLAND turkeys. Mrs. S. J. Bloxom, Pratt, Kan.

THOROUGHBRED Bourbon Red turkeys. John Carroll, Lewis, Kan.

NARRAGANSETT turkeys. Mrs. John Mitchell, Lafontaine, Kan.

EXTRA FINE Mammoth Bronze turkeys. C. E. Poland, Almena, Kansas, Route 2.

WHITE HOLLAND turkeys. Toms \$5, hens \$3. Grace Garnett, Columbus, Mo.

THOROUGHBRED Bourbon Red turkeys. Prices reasonable. Fay Egy, Turon, Kan.

MAMMOTH BRONZE turkeys. Toms \$5, Hens \$3.50. H. A. Sandborn, Detroit, Kan.

WHITE HOLLAND turkeys. Toms \$4.00, Hens \$2.00. Mrs. R. A. Lewis, Timken, Kan.

MAMMOTH BRONZE, pure bred turkeys, \$5-\$6. Mrs. Chas. Parsons, Brookville, Kan.

WHITE HOLLAND turkeys. Toms \$3.00, Hens \$2.00. Mrs. Jane Thompson, Cambridge, Kan.

THOROUGHBRED BRONZE toms, \$5.00; weight 25 lbs. Mrs. C. L. Worley, Utopia, Kan.

LARGE White Holland turkeys. Toms \$4.00, hens \$3.00. Chas. W. Zabel, Wetmore, Kan.

MAMMOTH Bronze toms from prize strain, fine plumage. \$5.00. Rosa Knoll, Holton, Kan.

BOURBON RED toms, large and perfectly marked \$5.00. Mrs. F. L. Petterson, Asherville, Kan.

THOROUGHBRED Bronze turkeys. Toms \$5, hens \$3. J. Gould, Route 2, Conway Springs, Kan.

HOLLANDS. From twenty pound hens. Best blood America and Canada. M. E. Burt, Kinsley, Kan.

MAMMOTH White Holland turkeys. Toms \$3.50; hens \$2.50. Also Bourbon Reds. Mrs. Will Jones, Wetmore, Kan.

PURE BRED Mammoth Bronze turkeys; large boned. Toms \$6, Hens \$3.50. Gertrude Tilzey, Lucas, Kan.

PURE BRED Bourbon Red Turkeys, White and Buff Orpington, Partridge Rock chickens. A. M. Farmer, Pratt, Kan.

M. B. TOMS. From stock, hens up to 25 lbs., scoring up to 97, mated to a 35-lb. tom. \$4 to \$7. Cecil McArthur, Walton, Kan.

MAMMOTH White Holland turkeys for sale. Toms \$4, Hens \$3. Eggs in season. Mrs. Ada Poindexter, Medicine Lodge, Kan.

WHITE HOLLAND toms, average 20 lbs., \$5.00 each. Toulouse geese \$5.00 trio. Day old chix in season. Springsvale Poultry Farm, Leon, Kan.

WHITE HOLLAND turkeys. Awarded diploma and prizes Kansas City, 1910, American Royal, 1911, St. Joseph, 1912. Few for sale. Mrs. J. M. Teaney, Lathrop, Mo.

MAMMOTH BRONZE turkeys—First prize winners at Independence and Wichita (State shows), 1914. Large, vigorous, beautiful bronze color. None better. 30 fine young toms and 35 pullets for sale. Eggs from winners. Mrs. H. E. Bachelder, Fredonia, Kan.

WYANDOTTES.

WHITE WYANDOTTES of quality. Mrs. Howard Erhart, Independence, Kan.

CHOICE Golden Wyandotte cockerels for sale. D. Lawver, Route 3, Weir, Kan.

CHOICE Silver Wyandotte cockerels, \$2, \$2.50. Mrs. D. Edwin Shuff, Plevna, Kan.

PURE Partridge Wyandottes; Stock and eggs; \$1.25 up. Rosa Carder, Lyndon, Kan.

PURE R. C. White Wyandotte hens \$10 per doz. Mrs. Geo. Jameson, Garrison, Kan.

A FEW MORE choice White Wyandotte cockerels. Mrs. M. E. Johnson, Humboldt, Kan.

GOLDEN WYANDOTTE cockerels from prize winning stock. M. M. Donges, Belleville, Kan.

25 CHOICE Silver Laced Wyandotte cockerels. Prices right. W. R. Stump, Blue Rapids, Kan.

THOROUGHBRED Silver Wyandotte cockerels \$1.50 each; fine birds. Mitchell Mehl, Bushnton, Kan.

E. S. COMB Golden Wyandotte cockerels. Farm run. Exclusive raised. Guaranteed. C. Folgate, Stanberry, Mo.

FARM RAISED White Wyandotte cockerels; show birds a specialty; breeding males reasonably. G. A. Wiebe, Beatrice, Neb.

WHITE WYANDOTTE cockerels. A few at a bargain. Good ones \$2.00 to \$5.00 each. Eggs in season. Mrs. Geo. Downie, Route 2, Lyndon, Kan.

SILVER WYANDOTTES. Rose Comb cockerels, beautifully marked, large size, great laying strain, one for \$2.00, three \$5.00. Mrs. Wm. F. Schulz, Creston, Neb., R. 1.

COCHINS.

BUFF COCHIN BANTAMS \$2.00 per pair. Lucille Krum, Stafford, Kan.

PARTRIDGE COCHINS. Cockerels and pullets two dollars, 3 for five. Mrs. J. R. Rathbun, Simpson, Kan.

RHODE ISLAND REDS.

ROSE COMB RED cockerels. Mrs. Lizzie Paige, White City, Kan.

ROSE COMB RED cockerels. Scored. C. Shumway, Manhattan, Kan.

FINE R. C. RED cockerels \$1.00, \$1.50 each. Charles Sigle, Lucas, Kan.

THOROUGHBRED S. C. Red cockerels \$1.00 and \$2.00 each. Extra fine. J. W. Williams, Olivet, Kan.

THOROUGHBRED S. C. R. I. Red cockerels \$1.00 and \$2.50 each; extra fine. Mrs. L. J. Loux, Scott City, Kan.

ROSE COMB REDS, \$2.00. Winners American Royal, Kansas, Oklahoma State Fairs. Raymond Baldwin, Conway, Kan.

SINGLE COMB REDS, best blood, good individuals, prize winners. Stock and eggs for sale. J. B. Hunt, Oswego, Kan.

ROSE COMB RED cockerels, Buschmann Pierce strain, thoroughbred, non-fading, \$5.00 and \$10.00 each. Eggs in season. A. Frogge, Oakley, Kan.

50 ROSE COMB Rhode Island Red cockerels \$1.50 to \$3.00 each. Farm raised. Special price on 6 or more. O. M. Lewis, R. No. 1, Hoisington, Kan.

FOR SALE—Rose Comb Rhode Island White cockerel, winner of first prize at Kansas City last December. Write for price. Mrs. J. M. Post, Colony, Kan.

RHODE ISLAND REDS. Males and females in both combs, raised from prize winners at Kansas State Show. Only a few for sale. Write today. A. M. Butler, Wichita, Kan.

SINGLE COMB RED cockerels, \$2.00 and \$3.00 each. Brothers won, first, second and third, at the Eastern Kansas Poultry Show. Satisfaction guaranteed. William Edwards, Westphalia, Kan.

ROSE COMB REDS exclusively, won first, second and fourth cockerel, grand sweepstake silver set for highest scoring pen, all varieties, of Pikes Peak Poultry association, Dec., 1913. Settings \$2. Free mating list. Dr. Crooks, Colorado Springs.

100 ROSE COMB Rhode Island cocks and cockerels that have shape, color and size. Sired by roosters costing \$10.00 to \$30.00. \$1.50, \$3.00 and \$5.00 each. Good hens \$1.50 each. Pens mated for 1914 are the best we ever had. Send in your order early. W. R. Huston, Americus, Kan.

FIFTY Rose Comb Rhode Island Reds, and eggs for setting for sale. Best laying strains—from prize winners and high scoring stock. Bean, Tuttle, Tompkins strains—red to skin—twelve years with the Reds. Prices reasonable. Write me what you want and for prices. J. A. Wells, Erie, Kan.

LEGHORNS.

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

S. C. BROWN Leghorn cockerels for sale. H. N. Holdeman, Meade, Kan.

FINE S. C. W. LEGHORNS. Cockerels and pullets. G. Patterson, Lyndon, Kan.

S. C. WHITE Leghorn pullets \$10 per dozen. Eugene Bailey, Okla. City, Okla., R. 8.

CHOICE Rose Comb White Leghorn cockerels \$1.00 each. Kaveney Bros., Linwood, Neb.

PURE Single Comb White Leghorn cockerels \$2.00 and \$3.00. Hugh Harrison, Jewell, Kan.

ROSE COMB WHITE LEGHORN cockerels \$1 each, 6 for \$5.00. Mrs. J. B. Barmettlor, Ralston, Okla.

SINGLE COMB White Leghorn cockerels. Celebrated, laying Wyckoff strain. Mrs. Lydia Fuller, Clyde, Kan.

ROSE COMB WHITE LEGHORN cockerels, thoroughbreds, \$1.00 and \$2.00. Orla A. Granger, Glen Elder, Kan.

WHITE LEGHORN cockerels, pure bred Wyckoff and Frantz strains, \$1.00 and \$2.00 each. Adolph Berg, McPherson, Kan.

SINGLE COMB WHITE LEGHORN cockerels for sale. Scored and unscored, \$1.50 and up. E. P. Hartman, Lake View, Iowa.

R. C. W. LEGHORN cockerels \$1.00 each, 6 for \$5.00. Eggs in season. Wanted, 2 2-year-old roosters. Fred Hennes, Burns, Kan.

100 SINGLE COMB Buff Leghorns. Cockerels, hens, pullets. Prize winning stock. \$1.00 each. Chas. M. Childs, Pittsburg, Kan., Route 3.

CHOICE lot S. C. W. Leghorn pullets. Nine dollars doz. Few choice White Wyandotte cockerels and pullets. One dollar each. Geo. E. Martin, Sharon, Kan.

ROSE COMB White Leghorn cockerels, blue ribbon winners, thoroughbreds, choice, fine. A few left. Better order. \$1.00 to \$5.00 each and score card circular free. Mrs. W. E. Masters, Manhattan, Kan.

CRYSTAL WHITE Single Comb Leghorns, combination of Young and Ferris strains, bred to lay, high scoring and egg records, all trapped, some fine cockerels for sale. Eggs in season. If you want a flock header write me. Crystal White Leghorn Yards, Carl C. Lamb, Prop., Dunlap, Kan.

DUCKS.

WHITE PEKIN ducks and drakes. Margaret Ribeau, Twin Creek, Kan.

INDIAN RUNNERS, silver cup winners. Burt White, Burlingame, Kan.

BUFF ORPINGTON drakes \$1.50 each. Mrs. T. N. Beckey, Linwood, Kan.

FOR SALE—Pure White Indian Runner drakes. Price \$1.00. W. H. Brooks, Beattie, Kan.

FAWN AND WHITE Indian Runner ducks \$2.00, drakes \$3.00. Pure white drakes \$2.00. G. W. Skinner, Baxter Springs, Kan.

ORPINGTONS

WHITE ORPINGTONS. Incubator eggs \$6.00 per 100. Sharp, Iola, Kan.

SCORED S. C. Buff Orpingtons, Cockerels. A. R. Carpenter, Council Grove, Kan.

BLACK AND BUFF Orpington cockerels and pullets. Flora Watson, Altoona, Kan.

WHITE ORPINGTONS. Eggs and cockerels. Write for prices. H. V. Mallory, Edgar, Neb.

FANCY White Orpington cockerels, two to five dollars. Eggs in season. Carl L. Rose, McCracken, Kan.

FOR SALE—Fancy S. C. White Orpington cockerels, \$1.50 and \$2.00 each. Ernest C. Duprey, Clyde, Kan.

EXTRA GOOD White Orpington cockerels \$1.50 to \$5.00 each. Eggs in season. Geo. Fisher, Custer, Okla.

WHITE ORPINGTON cockerels; Kellerstrass strain; \$3 each. Eggs in season. Mrs. W. Patterson, Yates Center, Kan.

KELLERSTRASS cockerels from prize winning stock \$2 to \$5 each. Eggs in season. Mrs. Edith Vincent, Jamestown, Kan.

WHITE ORPINGTON cockerels, Aldrich strain direct, extra fine, from heavy layers, \$3, \$5, and \$10. J. H. Lansing, Chase, Kan.

A FEW surplus White Orpington cockerels, hatched from Kellerstrass \$30 eggs, at \$2.00 each. Edith M. Jones, R. 6, Columbus, Kan.

WHITE ORPINGTONS. Choice birds. Kellerstrass and Cook strain. Cockerels \$1.50 and \$2.00. Hens \$1.50. Mrs. Geo. Walker, Alden, Kan.

SINGLE COMB Buff Orpingtons. Gertrude Geer's Gold Nugget Golden. Sixty premiums, two silver cups. Pen, fifteen eggs five dol.; 50 four dol.; 100 seven dol. Cockerels. Gertrude Geer, A. H. Hawkins, Route 8, Winfield, Kan.

HOUDANS.

HOUDAN chickens and Rose Comb Red cockerels. Mrs. John A. Smith, Osburg, Kan.

SEVERAL VARIETIES.

TURKEYS, chickens, geese, ducks, Emma Ahlstedt, Roxbury, Kan.

PURE LIGHT BRAHMA cockerels. Carrie A. Beckwith, Wamego, Kan.

STRICTLY high grade Lt. Brahmas. Stock and eggs for sale. Mrs. F. O'Daniel, Westmoreland, Kan.

BRONZE turkeys. Hens and toms. White Leghorns and Hamburg chickens. Stella Snider, Piedmont, Kan.

ROSE COMB WHITE LEGHORN cockerels. Silver Spangled Hamburgs. Chas. Gresham, Bucklin, Kan.

BLACK LANGSHAN cks. sold out. Pullets \$1.50. Houdan cks. \$1.50. Hurry. E. D. Hartzell, Rossville, Kan.

ROSE COMB Black Minorca eggs. Pen \$2.50. Range \$1.50 per 15. Mrs. Olive Hollingsworth, Mound City, Kan.

CHOICE Single Comb White Leghorn cockerels. Fawn, White Indian Runner drakes, \$1.00 each. O. N. Keller, Le Roy, Kan.

FOR SALE—S. Comb White Leghorn, S. Sp. Hamburg cks. M. B. turkey toms, pure bred stock. Vira Bailey, Kinsley, Kan.

ENGLISH PENCIL Indian Runners \$1.00 each and white Embden geese \$6.00 per pair. Mrs. E. M. Cooper, Neodesha, Kan.

43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guinea, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.

50 WHITE FACE Black Spanish hens, one and two years old, for sale. Some choice S. C. Buff Orpington cockerels for sale. Prices right. A. W. Swan, Centralia, Kan.

EGGS for sitting. Every bird in our flock has been "passed on" by Judge Atherton and are now taking orders for eggs at \$4.00 per hundred. Harry Givens, Madison, Kan.

EARLY HATCHED Kellerstrass strain White Orpington cockerels or pens. Prices reasonable. Eggs ready. Also have some good Minorca cockerels for sale. Wm. Billups, Pawnee Rock, Kan.

MAMMOTH BRONZE turkeys from prize winners at Kansas State Poultry show, 1913. Also Buff Orpington chickens and White Indian Runner ducks, pure white egg strain. Mrs. E. D. Ludwig, Waynoka, Okla.

FOR QUICK SALE—Anything in Black or White Langshans. My Blacks are headed by a sire that took second prize at the Royal, 1912. Also a few thoroughbred Mammoth Bronze toms and Bourbon Red turkeys. Stock all guaranteed to be satisfactory upon arrival, or I will refund money and pay return express. Frank A. Vopat, Lucas, Kan.

MISCELLANEOUS.

THE Central Supply House, 627 Quincy, Topeka, will sell you a new incubator or repair your old one. Incubator supplies.

POULTRY WANTED. Turkeys 18c, hens 12 1/2c, light hens 10c, springs 13c, stags 11c. Coops loaned free. The Cope's, Topeka, Kan.

CHICKS DEAD IN SHELL? Latest methods of incubation will stop it. 25 cents postpaid. Edw. K. Stockfield, Lincoln, Neb., Route 6.

POULTRY PRINTING—Letterheads, envelopes, shipping tags, cards. Cuts of poultry furnished. Samples on stamp. State breed. Job Shop,

Eggs When Eggs Mean Money

Cold Weather Methods of Managing Flocks to Make Them Lay

BY OUR READERS

I HAVE had very good success with my hens and think it is due to the feed and proper methods of feeding. I give them just enough good, clean food so they will be hungry the next meal time. The feed is corn, kafir, oats, wheat, and bran. I find that bran is a great egg maker fed moist or dry. It may be moistened just enough to make it damp and crumbly, with either milk or water. Some time ago my supply of bran gave out and not long after that my hens had almost stopped laying. Within a week after I began feeding it again, the hens were laying as usual.

Long Island, Kan. D. A. Nickell.

The "Brownies" Shell Out

[Prize Letter.]

Our Brown Leghorns lay well all winter and furnish all the groceries used by a family of six. We take the best care of them, and furnish them clean, warm buildings and see that they go into winter quarters free from lice. Our chickens are never turned out in the cold, on windy days or when there is snow on the ground.

We feed a variety of grains even when some of them are very high, and give them clean water four or five times daily. The grain is all fed in a deep litter which keeps the birds working during the day for their food. A hot mash, of bran, milk, table scraps and boiled vegetable parings is given late in the evening. We feed them oyster shells once a week, meat twice and green feed three times. The meat used is commercial dried scraps from the packing houses. For green feed we use cabbage or onions.

Jennings, Kan. Pearl Chenoweth.

Variety of Feed Helps.

[Prize Letter.]

I keep more than 100 pured White Plymouth Rock chickens. I have a scratching shed 10 by 40 feet attached to the south side of the main house. This shed has the front entirely open, but covered with 1-inch poultry mesh. I have about 6 inches of wheat straw in this shed.

I feed the chickens 1 gallon of wheat in the morning. Sometimes during very cold weather when they are shut up in the shed, I divide the wheat and make two feeds of it. At noon I feed a dry mash of bran, shorts, corn meal and beef scraps. I vary the ration at night sometimes giving corn and at other times kafir. About twice a week in the winter I feed them cooked rabbit or raw meat chopped fine. When they are shut up I give them alfalfa leaves, cabbage and cut clover for green feed.

Plenty of clean pure water, grit and charcoal is always on hand and with regular feed and plenty of exercise I get eggs enough to more than pay for my trouble.

F. H. M.
R. 3, Garnett, Kan.

Good Care the Year Around.

[Prize Letter.]

After 14 years' experience I find that if hens are properly cared for, the year around there will be little difficulty in getting eggs when the price is high. I usually give my hens a rest in August as the weather during that month is very warm and trying. I give them only about one-fourth the usual amount of grain and no mash, milk or table scraps. My hens run at large and so have almost wholly a vegetable diet. Of course they have plenty of fresh water at all times.

After about three weeks rest I return to the grain diet in full adding table and meat scraps and all the skim milk and buttermilk I can spare. I also give them boiled vegetable parings. On the diet my hens have good health. They moult, put on their new dress and are ready for business in about six weeks after the beginning of their rest. I know that a rest in August is the cheapest rest one can give to fowls.

I have made it a practice for a number of years to dispense with all male birds when the hatching season is over. I also buy my male birds for the succeeding year in the shell and do my own

hatching and rearing. This year my birds are something to take pride in. My grain consists of milo, kafir, cane, millet, corn and wheat. The fowls have unrestrained range at all times of the year. Our hen houses are comfortably warm and admit an abundance of light. I have no scratching shed but I should like to try one.

I have kept no account of the eggs or chickens we use on our table but the sale price from January 1 to December 1, 1913 amounted to \$64.47 for chickens and \$84.10 for eggs. I also have 50 hens and 75 pullets on hand besides my cockerels, for 1914. We raise our feed on the farm.

Norton, Kan. Mrs. Jennie Fulmer.

Then You'll Get Eggs.

[Prize Letter.]

I consider winter eggs the most profitable branch of the poultry industry. In winter the price of eggs is usually double the summer prices and occasionally three times as large. This is my method of securing winter eggs:

First, I pick out the best early matured pullets. I give them a warm, well-lighted, well-ventilated house, free from drafts. Before feeding, I have the floor well covered with fine straw a foot deep in which the whole grain is scattered. A good whole grain ration is 4 parts corn, 4 parts wheat, and 1 part oats, by weight. Feed a dry mash in hoppers, made up of 200 pounds middlings, 100 pounds wheat bran, 200 pounds corn meal, 156 pounds beef scraps, 100 pounds alfalfa meal, 25 pounds charcoal.

See to it that the grit and shell boxes are never empty and that the water pan is always well filled.

Jennings, Kan. G. H. Kump.

Now Comes the "Egg Circle"

Did you ever hear of an "egg circle"? It isn't anything to eat or drink or wear. It is just a new scheme of helping the farm which produces the eggs to get a fair price for the product, and assures the man who buys the eggs that he is getting a first class product at only a small increase on the producer's price.

Ordinarily eggs pass through several hands before reaching the consumer, and he buys without any knowledge of the past history of the eggs. The egg circle, formed by farmers of a given locality, enters here. Each member of the circle stamps his eggs with his number and the number of his circle. The eggs of the entire circle are shipped direct to the distributors whose customers are as interested in quality as in price. If an egg is not all right the number makes it easy to locate the man who was careless. In Ontario, members of circles have been receiving a bonus of from 2 to 15 cents a dozen for their eggs.

Would the egg circle make the hens lay? Certainly not, but the man who could be assured of receiving the top prices for his eggs would take measures to encourage his hens. They will usually respond if he encourages them in the right way.

The Cover Picture

Kansas has horses that compare favorably with those grown in other parts of the world, and they can win prizes in competition with them, too. The Kansas horse shown on the cover of The Farmers Mail and Breeze this week is a Kansas horse that has won prizes both in the United States and France. He was grand champion at the Kansas State fair last year. This animal is owned by Lee Brothers of Harveyville, and he is at the head of the herd there.

The name of the horse is Imported Scipion 27123 (43677). Twenty mares bred to him and several of his colts will be sold in the sale of Lee Brothers at Manhattan January 27. This horse attracted much attention in the herd shown by Lee Brothers on the fair circuit last fall.

Cleanliness is next to godliness when it comes to "pailing the cow."

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 only incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 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 143 chicks from 148 eggs in the last contest.

30 Days Free Trial
Money Back if not Satisfied

Both for **\$10** Freight Paid East of Rockies

140 Egg
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 class this big, all metal covered, dependable hatcher with cheaply constructed machines—and 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, galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tyco Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this advertisement.

IRONCLAD INCUBATOR COMPANY, Box 105, RACINE, WIS.

100,000 More People Will Buy Old Trusty Hatchers This Year

Half a million people now making profits with Old Trusty Incubators. This year there will be 100,000 more. That proves your best poultry profits are assured in the Old Trusty. I believe more Old Trustys are bought than any other three or four incubators put together. Let me tell you why.

Mail a Postal for My 1914 Quick Sale Offer
and get the whole story in the Old Trusty catalog.

No other factory could build an Old Trusty Incubator for less than \$4 or \$5 above my price. Our factory cost is low because of enormous production—largest in the world. We own the whole factory and power plant—no rent—no top heavy organization eating up money with big dividends or fat salaries. We are satisfied with a small profit—7 per cent.

100,000 Old Trustys will be taken quickly this year. I've fixed a price that will do it. Write for this price, freight paid to your station, and get the Old Trusty book that tells all about it.

Johnson, Incubator Man, Clay Center, Neb.

About \$5 Less than any other factory could sell it for. Johnson pays freight and ships promptly.

The Biggest Poultry-Profit Year Why

I advise all my friends to get ready now to take advantage of the greatest demand for Poultry in many years and at the highest prices. There's a big shortage in pork and beef. Poultry raisers must make up the meat deficiency. The sooner you start the longer and bigger your harvest; the bigger your money roll at the end of the season. You can't depend upon the hen to produce your chicks—she's too slow; too bothersome; too unreliable.

The Sure Hatch Incubator
Is the Ever-Ready—Ever-Dependable Chick Producer

It is strongly built of California Redwood, triple-walled, water-heated, self-regulated, economical. Guaranteed for 5 yrs. Yes my direct-to-you factory price 10 LESS than you're asked to pay for many poorly built machines. Poultry picks up what would otherwise go to waste on the place. It is a "pick up" for you, too. No experience is necessary with my machine. It's so simple and absolutely self-regulating from start to finish, guarantee my machine to maintain proper hatching conditions in a room where water freezes; and to hatch every egg that has the germ of life in it. I'm so sure that my machine will do all I claim for it that I'll send it to you on 60 days' free trial and pay the freight. You can try it at my risk. If not satisfied send it back and get your money.

FRANK HAMMOND, Pres. & Mgr. SURE HATCH INCUBATOR COMPANY Box 14, Fremont, Neb. GUARANTEED FOR 5 YEARS

MONEY BACK FREIGHT PAID GUARANTEE

STANDARD POULTRY, Turkeys, Geese, Ducks

Let us save you money on stock and eggs, for hatching; we have lots of stock of the different varieties of standard poultry for breeding and show purposes. Write for description and prices. W. F. Holcomb, Nebraska Poultry Co., Clay Center, Neb. Plans and specifications of pure air poultry house sent FREE.

Bourbon TURKEYS Barred Rocks
Choice young toms for sale. 50 Big Cockerels. Priced right.
J.H. HARTER, Westmoreland, Ks.

Mi O Mi Stock Farm
200 White Plymouth Rock Cockerels at \$2.00 each or six for \$10.00. I guarantee my fowls to please. Also guarantee safe delivery.
RAYMOND JAMESON, OTTAWA, ILLINOIS

Latest Book "Profitable Poultry," 122 pages practical facts, lowest prices on fowls, eggs, incubators, etc. 150 beautiful pictures. Latest improved methods to raise poultry. All about Runner ducks, 52 other varieties pure-bred poultry only 5 cents. Berry's Poultry Farm, Box 129 Clarinda, Ia

YOU can EARN an AUTO
HERE'S YOUR CHANCE TO GET A NEW FORD TOURING CAR FOR A FEW WEEKS' WORK.
By my new, easy plan, anyone over 16 years old can get a brand-new Ford Touring Car for a little easy, respectable work among neighbors. FREE BOOK tells all about it. Postal brings it. SEND. AUTO TOM, 620 S. 16th St., OMAHA, NEB.

NOW READY!

The New 1914 Model

"SAFETY HATCH"

The One DIFFERENT Incubator!

Hundreds of customers declared the old Safety Hatch to be the best incubator that was ever built...

"If I were buying a dozen incubators they would all be Queens."

Mr. Gragg wrote after he had taken off two 95% hatches. The grand record of the

Queen Incubator

is built on service. You can depend on good hatches every time you fill it with fertile eggs...

I'll Start You

and Keep You Going Right in the POULTRY BUSINESS

My World-famous high-quality incubators and brooders, and my Free Poultry Lessons make success easy and sure for you!

SUCCESSFUL Incubators and Brooders

are made right, and with the free advice and lessons I give my customers, no one can possibly fail to make biggest hatches of strongest chicks...

J. S. Gilcrest, Pres. Des Moines Incubator Co. 846 Second St., Des Moines, Ia.

RADIO THE EQUAL HEAT ROUND INCUBATOR

Round like hen's nest--no corners to get cold--heat rises through center with equal radiation. Only hatcher combining heat, complete circuit radiation, visible egg chamber, safety burner attachment which prevents overheating and explosion...

Radio Bantam Hatcher a Brooder set up freight paid. \$6.75

Bee Supply House

You need the latest approved supplies. Buy direct from factory. 28 years experience in making the goods you use enables us to make the best for the price...

Beautiful Watch and Fob

FREE! We have arranged to give away 5,000 of these handsome, guaranteed watches and fobs on the most liberal premium offer made...

How to Get the FREE WATCH We will give away 5,000 of these guaranteed watches just to further introduce our great farm and home magazine, THE VALLEY FARMER...

Treatment For Ailing Stock

Veterinary Pointers on Request of Our Readers

BY F. S. SCHOENLEBER, Kansas Agricultural College

"I HAVE three hogs weighing about 100 pounds each," writes an inquirer from Comanche county, Oklahoma. "There is something wrong with them for when I feed them they vomit. One of them died and on cutting him open I found just one worm in the stomach but it was 14 inches long..."

For worms in hogs, weighing about 100 pounds, I would suggest that you starve the animals for 24 hours and then feed them on empty stomach, a small amount of feed to which has been added 10 grains of calomel and 40-grains of santonin...

Rheumatic Hog.

I have a Duroc-Jersey male that is stiff in his hindquarters and has been so for about a month. He eats well but can hardly walk. What can I do for him?—H. W. K., Finney county, Kansas.

It is possible that your boar is affected with rheumatism, and I would suggest dry, comfortable quarters together with the internal administration of 2 drams salicylate of soda every two hours for the first 10 hours and three times a day thereafter...

Losses from Blackleg.

I lost four head of cattle in the stalk fields and would like your advice. About 4 o'clock one afternoon one became sick and died that night. Two more died the next morning. They first trembled at the neck and shoulders and lay with their heads stretched out...

From the symptoms submitted by you, I am inclined to believe that your animals died of blackleg and I would suggest that you have the remaining ones vaccinated.

Ailing Cow.

One of my cows coughs as if she had something in her throat. Her breath is short and there is a kind of wheeze about her cough. She has just a fair appetite, eating 2 gallons of corn chop a day but not as much roughness as she should...

I would suggest that you have a competent graduate veterinarian make a tuberculin test of your cow as it appears to me that she may possibly be affected with tuberculosis. In case she is, it would be unsafe to use her milk.

Contagious Abortion.

I would like to have you tell me what to do for cows to keep them from sinking their calves. Have had one cow sink a calf that was haired and another lost one not yet haired but both were well developed calves...

Your cattle are probably affected with contagious abortion and you should treat them by cleaning up the surroundings thoroughly with a disinfectant, separating the diseased from the healthy cows. In addition to this, I would suggest that you write to the Vermont Experiment station, at Burlington, Vt., and ask them for their bulletin—No. 174.

Old Cut Troublesome.

One of my colts of last spring was cut in barbed wire, across the shoulder about three months ago. It healed quite fast at first but the joint became enlarged and hard. Then there was a discharge after which it healed over and thought it was well. But a week later it puffed up and on opening it found a thin, bloody matter...

I am of the opinion that your colt was cut so deeply that the outside wound has probably healed up too fast and caused a gathering on the inside. I would suggest that you cut the outside open, scrape the wound out thoroughly, and then treat it with antiseptic washes once daily thereafter.

Pinkeye Treatment.

I am wintering a bunch of spring calves that are out on wheat pasture in good weather and in a good shed on bad days.

When kept up they have wheat straw and oilcake. The cake is fed at the rate of 1 pound a head daily. They are doing well except there is something wrong with their eyes. They water at times and then a scum forms over them. What is the trouble?—B. E. W., Ellsworth county, Kansas.

I do not believe that the oilcake which you are feeding will cause sore eyes. It appears to me that your cattle are affected with pinkeye, which is a contagious disease. You should separate the diseased from the healthy animals and place the former in dark stalls. Their eyes should be washed twice daily with a 2 per cent solution of boric acid and after all symptoms of soreness disappear...

Depraved Appetite.

Last summer one of my steers was poisoned by eating green kafir and now he will leave his feed and eat anything, such as old leather, bones, and similar articles. What can be done for this?—H. W., Chase county, Kansas.

Your steer is affected with the condition known as pica or depraved appetite the treatment of which consists in administering plenty of concentrated, nourishing food. In addition, the following mixture would be of value:

Calcium phosphate..... 4 ounces Powdered nux vomica..... 2 ounces Artificial Carlsbad salts..... 10 ounces

This should be mixed and the animal should be given a heaping tablespoonful in the feed three times daily.

Bone Weakness.

I have had some trouble with my hogs this winter. I get them fat but they get weak in the back and legs. In a short time they can't get up. Have had this disease on the place three times and would like to know what to do for it.—L. A. P., Harvey county, Kansas.

It is difficult to state what makes your hogs weak in the hind limbs. It may be rheumatism, which can be cared by the internal administration of 2 drams of salicylate of soda every two hours after the first 10 hours, and three times a day thereafter. It may be rickets or bone disease which is treated by the internal administration of the following for each 100 pounds of weight:

Calcium phosphate..... 1 dram Powdered nux vomica..... 5 grains Cod liver oil..... 2 drams

This mixture should be given once daily. It is also said that an exclusive corn diet has a tendency to produce this trouble.

Premature Udder—Tumor.

(1) I have a mare 12 years old, weighing 1,400 pounds that is due to foal the last of April. On January 2 I first noticed she had a big udder and some wax had been discharged. Before evening a milky substance began dripping out. I expected her to lose her colt but her condition is still the same. Can her foal be saved?

(2) I also have a gray filly coming 3 years that has a growth in front of her udder about half the size of a hen egg. It seems to be in the skin. Can this be removed?—R. P. R., Johnson county, Kansas.

(1) I believe that as long as your mare does not show anything unusual other than the enlargement of the udder, I would leave it strictly alone, unless it seems to bother her. Then stripping the udder occasionally might be of value.

(2) In regard to your filly, I am of the opinion that it has a tumor, which appear very frequently in grey animals. But if it does not seem to inconvenience the animal, I would advise that you leave it alone. In case you decide to have it treated, the only thing that will do any good, is to have it surgically removed.

1913 Had Queer Weather.

Last year was the sixth warmest and the seventh driest that Kansas has experienced in the 27 years that state-wide weather observations have been made, according to the summary of the weather over Kansas during the last year, which was issued yesterday. The extremes in temperature recorded are 30 degrees below zero and 116 above. The greatest amount of precipitation was 44.19 inches, at Eskridge, and the least 9.57 inches, at Wallace. There was considerably more sunshine than the state ordinarily enjoys in the course of a year.

SAVE-THE-HORSE BOOK FREE

Why We Make a Contract to Cure Mr. W. C. FRALEY, 502 Fisher St., Salisbury, N. C., Mar. 27, '13, writes: I used 2 bottles and cured two horses and one pony of bone spavin two years ago and they are sound as a dollar.

FOUR YEARS AFTER—STILL SOUND Mr. H. G. PUTNAM, dealer in Coal, Danvers, Mass., Oct. 6, '13, writes: Four years ago I sent for Save-the-Horse for thoroughpin and made a cure. The horse has done a good day's work almost every day since on coal wagon.

WE ORIGINATED the plan of treating horses Under Signed Contract to Return Money if Remedy fails. You risk nothing by writing; it will cost you nothing for advice and there will be no string to it.

OUR LATEST Save-The-Horse BOOK is our 15 Years' Discoveries—Treating Every Kind King-bone—Thorpin—SPAVIN—and ALL—Shoulder, Knee, Ankle, Hoof and Tendon Disease—How to Test for Spavin; how to locate and treat 58 forms of LAMENESS—Illustrated.

OUR CHARGES for Treatment ARE MODERATE. But write and we will send our BOOK—Sample Contract and Advice—ALL FREE to (Horse Owners and Managers—Only).

DRUGGISTS everywhere sell Save-The-Horse WITH CONTRACT, or we send by Parcel Post or Express paid.

RAYO Cuts Down Expenses —Does Away With Labor—and Makes \$179.40

"I am sending my order for another Rayo. The returns from my Rayo last year checked up over 500 chicks that lived to produce. Sold 45 cockerels from the lot from \$2 to \$2.50 each; most of the rest I marketed as broilers at 1 and 2 lbs., at an average of 30c per lb. Feeding it up, I find the Rayo made \$179.40 net for me. The machine took very little of my time, and I can recommend it to everybody who wants to make money in the business."—Roy Best, Waverly, Ohio.

What the RAYO Has Done for Others—It Will Do for You Get one and beat your neighbors' hatches and make more money. The Rayo boosts profits, slashes expense, cuts out the drug-gery, over-old-style, lamp-on-the-side machines. Requires only 1 filling to hatch. Runs on 1 gal. of oil; others use 5 gals. Runs with little attention; others need constant looking after. The Rayo does all its work automatically. Hundreds of experienced poultrymen will have no other machine. Beginners sure of success. Low, direct, freight prepaid prices to all.

All Three FREE Money-Making Book and sample of first and only Patent Hatching Chart free to everybody on request. Complete chart and \$1.50 Hygrometer free to all new Rayo purchasers. Ask for Book No. 14. It tells how to Turn Eggs Into Chickens Into Broilers. Rayo Incubator Co., 1016 S. 13th St., Omaha, Nebr.

Big Money in Poultry Get the Facts! 276,000 are making money the Belle City way. They tell you how in my new Book of "Hatching Facts." Free to you. Illustrates in actual colors my 8-Times World's Champion Belle City. You get an exact duplicate of the prize winning World's Champion machines. Backed by my Money-Back Guaranty. Jim Rohan, Pres. Belle City Incubator Co., Box 21, Racine, Wis.

LEE'S LICE KILLER Gemozone, Louse Powder, Egg Maker and other Poultry remedies have a successful reputation of twenty years behind them. They have brought success to thousands of poultry raisers and will to you. Lee's big "New Poultry Book", "Reading Symptoms of Disease" and "Poultry Pointers" free from all Lee's dealers, or write direct. The New Mandy Lee Incubator is a real automatic hatcher. Write for catalogue. GEO. H. LEE CO., 980 Harney St., Omaha, Neb.

You Can Make \$8.00 PER 100 COLLECTING your neighbors' names for our new Directory. All kinds of names wanted. Send 10 cents post. blank book and card! We want a million names quick. WATSON & CO., MCKINLEY PARK, CHICAGO, ILL.

7c Silo Owners! If you own or intend to own a silo, write for this book. Gives hundreds of bona fide letters from users, telling their experience with the BLIZZARD ENSILAGE CUTTER—fastest, strongest, most economical Cutter and silo filler. Get this Free The book tells, for example, in the words of users, how high the Blizard elevates—how much work it does—how big an engine is needed—how long it lasts, etc. Write for this book today—it's free—a post card is enough. THE JOS. DICK MFG. CO., 126 Tuscarawas St., Canton, Ohio.

The Chicago Market in 1913

Receipts Were Smaller, Except in Hogs, and Prices Higher

BY J. M. CARROLL
Union Stock Yards

A TOTAL of 16,413,100 head of live-stock was marketed in Chicago in 1913 as compared with 16,487,223 head in 1912. The approximate value of all stock received was \$385,855,000 against \$375,694,939 for the preceding year. The receipts of all stock, except hogs, were smaller and the value of all except horses and calves was higher than in 1912.

Many new records were made in the cattle market during the year. The average price of beef steers at \$8.30 was 55 cents higher than in 1912 and stood the highest in history. During 1911 an average of \$6.40 was made and during 1910 steers went at an average of \$6.80. The general market for the year as a whole was 50 to 65 cents higher than 1912.

A large supply of heavy weight cattle was included in the receipts of beef steers and while they sold to good advantage in the early months, they were slow sellers late in the year. Yearlings and medium weight animals held the limelight most days during the year and finished showing the most advance in prices. Yearling cattle sold up to \$10.25. A range of from \$5.80 to \$10.25 bought cattle from poorest to best quality during the year. The top was \$10.25 as compared with \$11.25 for 1912.

Good Eastern Demand.

The market was featured by a good demand from the East during most months of the year. Export business was a minor issue in the cattle trade, there being very few taken on that account. Although a large amount of beef was imported and the tariff removed, cattle prices held up well and for the year established average prices never before known.

The supply of western cattle at 129,500 was the smallest on record and many think the number sent marketward during 1914 will be still smaller. Western range cattle sold at an average of \$7.40 as compared with \$7.60 a year ago, the latter being the highest on record. Best western cattle offered during the year sold at \$8.65, against \$10.25 in 1912. The first western range cattle of the year arrived in July and sold at \$7.50. Texas cattle marketings amounted to only a few hundred head and sold in a range of \$5.25 to \$8.10; the latter being meal fed and the former right off the pasture. The crop of distiller cattle totaled about 30,000 head, against 35,000 head during 1912. A new record was made for this class of cattle when a general average of \$8.55 was made for the year, standing 55 cents higher than in 1912. Bulls made a grand average of \$7.20, this also being a new record. The average in 1912 was \$6.35.

The general average price of butcher stock was \$6.10 or 85 cents above 1912 and \$1.75 above 1911. The packers wanted the she stock for cheaper cuts of beef and that is the reason this grade of cattle held up so well during the year. Supply of this class was small in proportion to receipts and many thought this was due to farmers holding cows for breeding purposes. Canners and cutters also made a new record, the average price being \$4.25 as compared with \$3.40 in 1912.

Lower Calf Receipts.

Calf receipts fell about 150,000 head short of the total marketed during 1912. Small receipts caused higher prices and new records were made both in top and average price. The general average price for the year was \$10.10, against \$9.75 in 1912, the previous high mark. The best price for the year was \$12.50, being 50 cents higher than any sold in 1912.

The feeder trade was affected some by the removal of the tariff, especially as far as eastern states were concerned as they were supplied with Canadian cattle. About 150,000 feeding cattle have been sent to this country from Canada since the removal of the tariff. An average price of \$7.05 was made, against \$5.70 in 1912. The top for the year was \$8.35.

The average price of milkers and springers was \$5 higher than in 1912 and \$12 to \$15 higher than in 1911. The best quality cows sold at \$110 to \$125,

while many sales were at \$90 to \$100. Poor, thin stuff was hard to sell.

Hog prices for 1913 at Chicago stood the highest in more than 30 years, barring 1910, and will long be remembered by the producer as an abnormally high year. The average price figured \$8.35, or 80 cents higher than 1912 and \$1.65 above 1911 but ruled 55 cents below 1910 when values were the highest since the early 60s.

An advance was scored even though receipts were the largest since 1908. The demand was unusually broad and a feature of the trade was the liberal buying by the small packers. Eastern shippers bought with freedom, also, and even the big packers were seldom in the mood to raid prices. The total supply aggregated 7,547,800, against 7,180,967 in 1912 while shipments footed 1,658,100 and 1,572,652, respectively.

The top price for the year was \$9.70, that price being paid in April for light hogs, while no medium weights passed \$9.62½ and the top on heavy offerings was \$9.55. None went above \$9.42½ in 1912, while \$8.30 was the 1911 limit, but \$11.20 in 1910 proved the highest in several decades. January proved to be the low month, during which the best price made was \$7.80. The average was \$7.25 on the low day, and at the high time figured \$9.33. Pigs ruled highest since 1910, with a \$7.35 average that showed 95 cents gain over 1912. Pigs reached \$9.50 in July, but in November many choice ones sold at \$6.50 to \$7.25.

Good Quality Was General.

General quality was good and prime offerings were in liberal proportion most months. Light grades sold at a premium until in late months when the heavy kinds reached the top. Iowa and Minnesota were badly affected by cholera and many pigs were lost before they reached marketable age. Wisconsin offerings were healthy and more numerous than usual. Consumers called for light loins and in September fresh pork loins frequently sold at wholesale at 17½ and 18 cents a pound and occasionally up to 18½ cents a pound, prices never reached before in the history of the business.

The average values of aged sheep were higher than any other year but 1910, while yearlings and lambs established new high marks. Extreme top prices, however, did not approach the records made in 1910 and 1912. Sheep averaged \$5.20, or 60 cents higher than 1912 and only 5 cents under the record 1912 level. Yearlings at \$6.35 were 70 cents higher than a year ago and surpassed the old record by 5 cents. Lambs figured \$7.70, or 15 cents higher than ever known previously and ruled 50 cents above 1912.

Heavy liquidation by Montana sheep men, who are going out of the business because of little range and low price of wool, helped to swell receipts and the drought in the Middle West also caused the marketing of many sheep and lambs,

Receipts were light in early months and it was then that prices were highest but the values were lowest in the fall, considerable recovery noted in December. The year's receipts were 5,909,600, the second largest on record. There were 6,055,546 offered in 1912. Shipments were also second largest ever known.

Sheep topped at \$7.90 against \$8 in 1912, but no ewes passed \$7.10. Most western sheep sold at \$4.50 to \$6, with the bulk of natives at \$4.15 to \$5.75. Yearlings changed hands at \$4.50 to \$8.50, most of them at \$5.50 to \$7.25. Western lambs went at \$9.50 at the high time, with natives and Colorados at \$9.40 against \$10.60 for extreme limit in 1912. The bulk of all kinds made \$7 to \$9. Spring lambs showed \$1 to \$1.50 decline

side buyers and consequently shipments were within 8,500 of those marketed.

For Better Kansas Seeds

More than 1000 samples of seeds were tested for Kansas farmers in the seed laboratory of the Kansas Agricultural college last year. This laboratory is in charge of the department of botany, and in speaking of the work, Professor H. F. Roberts of that department said: "In 1911 our laboratory analyzed and tested 246 samples of seeds for farmers and seedsmen. In 1912 the number tested was 552, and it was more than 1000 last year. This means an increase in the amount of state work being done by our seed laboratory in 1912 over 1911 of 124 per cent, and an increase in 1913 over 1912 of 81 per cent. The great service rendered by the seed laboratory to the farmers is best understood when the records of the analyses and the letter files are examined in detail. These show hundreds of cases where all that prevented farmers from sowing impure, weedy seed, low in vitality, was the preliminary analyses sent in to the prospective buyers of this seed. The seed laboratory has raised the standard of agricultural seeds in Kansas."

Here's Your Seed Corn

Mr. Editor—I have about 1,000 bushels of last year's crop which I have held for seed. It is the White Elephant variety, good, sound, well seasoned corn, and possesses high germinating power. Seed selected from my cribs, last spring, yielded almost a perfect stand; price \$2.50 a bushel.

R. I. Troy, Kan. John F. Moser.

Why Keep Profitless Cows?

(Continued from Page 21.)

If he has not more than three or four cows and who is endeavoring to build up his herd, can well afford to pay \$100 for a wellbred sire. But, this is not necessary in most cases, as there can usually be found enough men in one community who will go together and purchase a sire for the community. In this way the cost can be very much reduced to each individual.

Riley County Has Feed.

Jacob Springer of Manhattan, Kan., who has just marketed the last of his late fall fed steers, is not wintering many stock cattle. "The outlook in the fall was for a very short feed supply, so I stayed out," Mr. Springer stated. "But it has turned out that we are having very little winter and good wheat pasture, so those who have stock cattle find it easy so far to handle them."

Comanche Wheat is Good.

According to Spencer Hall of Comanche county, Kan., there are no signs of bugs or flies in the wheat this winter. "Everything now seems to indicate that we will raise a record wheat crop," he said. "Other years at this time we have noticed the presence of these pests, but not a one has showed up so far this winter."

One of the most hopeful signs of the times in Kansas and many other states, is that women have been invited to share the responsibility of dealing with the serious social problems, particularly the laws which affect children. The greatest impetus to social justice will be given when women in every state may vote in favor of such candidates for state and national law-making bodies as will heed their pleas for better conditions in future for the mothers and homes of the country.

and sales were at \$5 to \$11, with bulk at \$7.50 to \$8.75, against \$13 for the top the previous year.

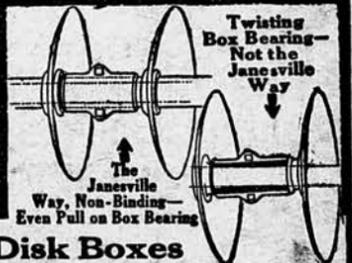
The feeding demand was better than during 1912 even though few went to Michigan. Wisconsin and Minnesota were the most liberal buyers. Sheep and lambs went out on a higher basis, the former kinds showing 25 to 50 cents gain, while latter lots advanced \$1 to \$1.50. Feeding sheep sold at \$2 to \$6.50 and lambs sold at \$5 to \$8.70, the latter price having been surpassed only in 1910. Breeding ewes were scarce and showed 25 cents gain at \$3.50 to \$5.75. Few exporters were in the market but their purchases looked 50 to 75 cents higher, lambs going on foreign account at \$6.75 to \$7.25 and sheep at \$4.75 to \$6.85.

General average price of all kinds of horses received at Chicago during 1913 was \$185 a head, against \$180 in 1912. Values were little changed throughout, but seldom did horses sell cheaply. Even though automobiles and trucks have increased in number the horse still finds a broad outlet but demand usually leans more toward the good heavy ones.

Many drafters sold at \$200 to \$300 while only small aged chunks were secured at \$100 to \$125. Offerings suitable for general purposes cleared largely at \$150 to \$200. The highest price of the year was \$1,500, paid for a pair of drafters which were to be used for industrial and show purposes.

Total receipts aggregated 90,500, against 92,977 in 1912. The greatest part of that number was purchased by out-

The Inside Facts On Light Draft in a Harrow



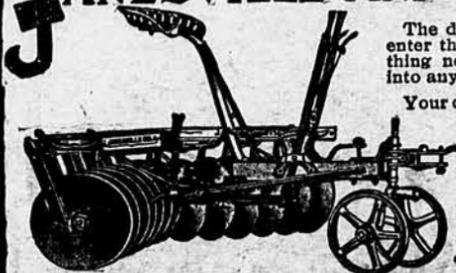
The Result of a Straight-Away Pull with Non-Binding Disk Boxes

There are only two harrows made that do not bind in the disk boxes while the harrow is at work—the Janesville and the Budlong.

Here is the point that effects the draft: Study Fig. 1 to the right—the Janesville way. This is the true position of the disk

box while at work. No side strain—no twisting. The wear on the spool is equalized—oil gets to all parts—the bearings last longer. One man used a Budlong 23 years before he replaced his first set of bearings. It's easy to see what this means for light draft. All the good features known in harrow building are built into Janesville and Budlong Harrows.

JANESVILLE AND BUDLONG HARROWS Have many features that no other can offer



The disks are hung in the machine so that they enter the ground like plow points. This is something new in harrow construction. They will cut into any ground in condition to be harrowed.

Your choice of steel or wood bearings. All bearings

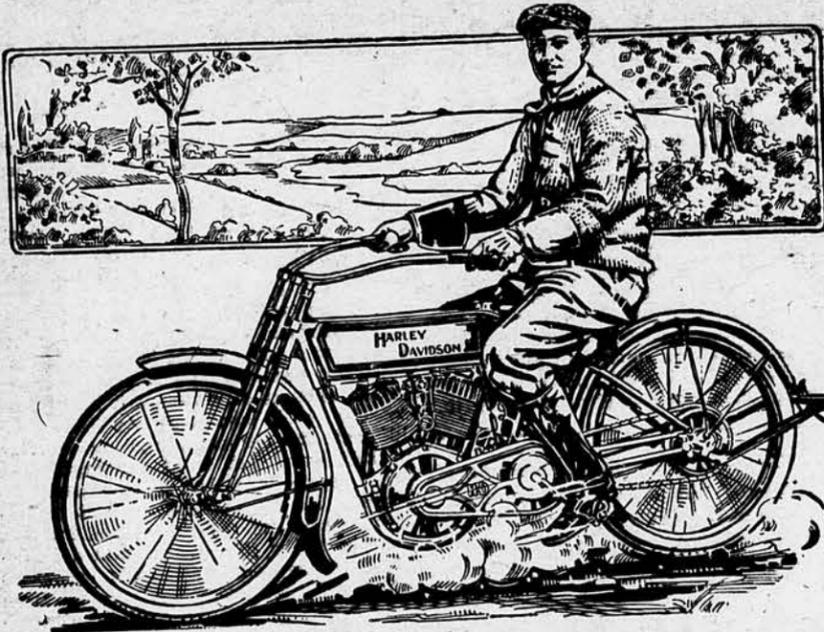
are interchangeable, and we will replace any chilled bearings proving defective within life of the machine. All sizes—concave—plow cut—spading or cut-out disks, one or two levers, with or without tongue trucks and transports.

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and learn why it is to your interest to insist upon having Janesville machines when you buy plows, harrows, cultivators or corn

planters. Every machine has the highest degree of efficiency backed by 52 years' experience. Write today for the catalog. Address

Janesville Machine Co., 42 Center St., Janesville, Wisconsin



You Can Get It Free!

THIS \$285 HARLEY-DAVIDSON WITHOUT ONE CENT OF COST TO YOU

IF YOU would like to have a brand new 1914 model Harley-Davidson Motocycle here is your chance to get it. We are going to give this machine and nine other valuable prizes away in our great subscription contest which starts at once and closes on March 28th. The machine we have chosen for our first prize is the new Model 10-F Twin Cylinder Machine—it has the new step starter and two-speed transmission which are new features this year in motorcycle construction. You can get this fine Motocycle absolutely free by devoting a little of your time to securing subscriptions to our publication, Capper's Weekly—read all of this announcement carefully and then send in your entry.

The Plan of This Contest

Anyone—man, woman, boy or girl—whether a subscriber to Capper's Weekly or not who lives in Kansas may enter this contest and work for the Motocycle or any of the other nine valuable prizes which will be given. All that is necessary is to send in your name and full information and supplies for taking subscriptions will be sent by return mail. Every subscription that you secure will count a specified number of points as follows: one-year subscriptions at 25 cents, 500 points; three-year subscriptions at 50 cents, 1,000 points; and six-year subscriptions at \$1.00, count 2,000 points. A bonus of 10,000 free points will be given each contestant who enters within the next 10 days. This gives you a splendid start toward the Motocycle. The person having the most points at the close of the contest will receive the Motocycle; the second highest \$100 in cash; the third highest a \$50 Diamond Ring, and so on until the 10 prizes have been awarded. If anyone should work in the contest and not win a prize, a liberal cash commission will be allowed on all money sent in for subscriptions. In this way you either get a valuable prize or cash commission check for your effort.

Ten Valuable Prizes Will Be Given

We are listing here ten valuable prizes which will be given to the ten most industrious contestants. These prizes are all strictly first class and guaranteed to give entire satisfaction. A full description of them will be sent you as soon as we receive your name. The prizes are as follows:

- | | |
|--------------------------------|--------------------------------|
| 1st Prize, \$285 Motocycle | 6th Prize, Folding Camera |
| 2nd Prize, \$100 Cash | 7th Prize, Folding Camera |
| 3rd Prize, \$ 50 Diamond Ring | 8th Prize, 7 Jewel Gold Watch |
| 4th Prize, 17 Jewel Gold Watch | 9th Prize, 7 Jewel Gold Watch |
| 5th Prize, 17 Jewel Gold Watch | 10th Prize, 7 Jewel Gold Watch |

Send Coupon For Full Information

Don't wait to think this over but mail the coupon at once because it doesn't cost you anything except a postage stamp to find out about this great contest. You are under no obligation whatever and if you do not want to take up the work after you have investigated you are at liberty to withdraw your entry at any time. Just as soon as we receive your name we will send you full particulars, a description of the prizes, and picture of the Motocycle. The names and standings of the contestants will be published in the February 7th issue of Capper's Weekly so that you want to get your entry in at once and be in the lead when these names are printed. Don't wait, but mail the coupon today.

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Enter my name in your contest and send me full information. This also entitles me to 10,000 free points.

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Spring Weather in January

And Fruit Buds Are in Danger—The Week's Crop News

By Our County Correspondents.

SPRING-LIKE days in January are too much like the good natured look in a mule's eye just before he unlimbers, said a Kansas editor recently. And that is about all the dependence it is safe to put into them. But while this fine weather lasts stock is getting a good living from wheat fields and is rendering the possibilities of a feed shortage all the more remote. In Meade county stock has lost but three weeks off wheat pasture this winter.

Plowing for spring crops is in progress in Oklahoma and will start in Kansas just as soon as frost is out of the ground, should the weather continue mild. An unusually large acreage was fall plowed and with continued favorable winter weather the season's plowing should be well taken care of by the time farming begins this spring.

While the mild January weather has been appreciated there is considerable apprehension over the probability of damage to fruit. Buds have been swelling and should there be a severe freeze while they are full of moisture, the cold would work havoc with the 1914 fruit crop.

Pastures and roadsides are green; daisies in bloom, and mosquitoes buzzing, is the cheerful message of A. C. Craighead of Grant county, Oklahoma.

KANSAS.

McPherson County—Wheat looking good. Cattle high. Horses coming up a little. Wheat 80c; corn 78c.—M. D. Waldo.

Labette County—Fine weather. Wheat being pastured again and looks fine. Farmers got a good lot of plowing done. Butter 30c; eggs 30c; hens 12½c.—Wilbert Hart, Jan. 17.

Nemaha County—Winter favorable for wintering livestock but has resulted in some damage to fall wheat by continued freezing and thawing with no snow for covering. Some hog cholera yet.—C. W. Ridgway, Jan. 10.

Franklin County—Wheat in excellent condition. Stock doing well at sales. Very little hog cholera. Considerable sickness among horses caused by feeding inferior fodder. Corn being shipped in at 70c.—H. O. Cain, Jan. 17.

Washington County—Fine weather. Roads getting better. Farmers getting up wood and attending wolf hunts. Some hog cholera. Haven't heard of much damage to wheat so far. Much corn shipped in.—Mrs. Birdsey, Jan. 16.

Jackson County—Frost all out and the ground is drying. Wheat looking very well. Roads improving again. Stock doing well. There is a good demand for cattle. Hogs \$8; corn 72c; wheat 77c; oats 45c.—F. O. Grubbs, Jan. 16.

Scott County—Weather fine for stock. Very little feeding being done yet. Wheat in fine shape. Not much stock lost by disease. Pigs will be scarce in the spring. Farmers have not wintered the usual number of hens.—J. M. Helfrick, Jan. 17.

Pottawatomie County—Wheat never looked better for this time of year. Everything looks like spring. Cattle are in the pastures again. Stock all well and doing fine now. Corn fodder \$8; hay \$12 to \$13; corn 75c; oats 50c.—W. H. Washburn, Jan. 16.

Chase County—Very few cattle being fed for market. Fine weather for this time of year. Stock feed scarce and prices high. Much road work being done. Eggs 30c; potatoes \$1.40; alfalfa hay \$15; corn 90c bushel.—W. J. Dougherty, Jan. 15.

Mitchell County—Weather fine. Very little snow here this winter. Stock is on wheat again. All feed cheaper than last fall. Some building going on yet. A few sales. Hens laying more eggs. Not much to do but feed stock.—J. H. DePoy, Jan. 15.

Russell County—Have had nice, warm weather the last few days. Stock doing well and most of it is on wheat pasture. Hens not laying yet. Not much wheat in farmers' hands. Wheat 80c; corn 80c; butter 25c; eggs 27c.—Mrs. Fred Clausen, Jan. 17.

Rooks County—Exceptionally fine winter. Cattle and horses doing fine on the wheat pasture, which saves considerable feed. Plowing for spring crops will soon begin if the nice weather continues. Eggs 25c; butter fat 34c; corn 80c.—C. O. Thomas, Jan. 15.

McPherson County—Much rough feed spoiled by rain and snow. Wheat fields in fine condition but too soft for pasture. Money scarce and not much doing but if the rest of the world can get along, the people of this county sure will do it.—John Ostlund, Jan. 15.

Wilson County—Fine winter weather. Some farmers plowing for alfalfa and corn. Wheat doing well, but some flies have been reported in it. Stock holding its own. Kafir fodder badly damaged. Stock brings good prices at sales. Not much doing in land sales.—S. Canty, Jan. 19.

Sumner County—Stock running on the wheat and doing well. Plenty of dry feed yet to run the farmers. A good many sales being held. Cattle selling high. Wheat 80c; corn shipped in at 74c; oats 47c; hogs \$7.85; butter fat 32c; eggs 30c; hens 11c; hay \$14.—E. L. Stockings, Jan. 17.

Pottawatomie County—Fine spring like weather. Frost entirely out of ground and after ground dries a few days farmers will plow. Feed getting very scarce and high. At a sale recently alfalfa hay was sold for \$20 ton and a very poor quality of hay brought \$9 ton.—S. L. Knapp, Jan. 17.

Grant County—The December rains and several light snows have put more moisture

in the ground than has been there for years. Winter has been very mild and stock have done fine so far. Wheat prospects the finest ever. Milo 80c; butter fat 28c; eggs 30c.—J. L. Hipple, Jan. 15.

Butler County—Plenty of rain the last 8 weeks. Roads are beginning to dry. Wheat never looked better. Feed very scarce. Many horses shipped out. Very few cattle and hogs in this locality. Milk cows scarce and high. Corn 73 and 74c; oats 45c; fat hogs \$7.75; eggs 30c; milk cows \$50 to \$80.—M. A. Harper, Jan. 15.

Geary County—Snow is all gone and weather is fine. Wheat pasture still good and cattle doing well. Few fat cattle or hogs to ship out and fewer stock cattle on hand than in former years. Most farmers are buying corn. Wheat 75c; corn 72c; oats 46c; eggs 35c; hay \$14, alfalfa \$16.—O. R. Strauss, Jan. 16.

Meade County—Have been pasturing wheat all but three weeks this winter. Farmers are plowing for spring crops. Silos are giving good satisfaction. Wheat is the best ever seen in these parts. Some hogs being fed. Stock looking well. Horses low. Cows high. Some road and bridge work being done. Not much land changing hands at present. Butter fat 32c; eggs 30c; apples \$1.70 a box.—W. A. Harvey, Jan. 18.

Morris County—Feed situation serious. Most of feed raised not fit to feed horses and very poor for cattle. Damage done by excess rainfall. Weather favorable now for stock but wheat fields are too soft to pasture. Feed of all kinds being shipped in. Many horses have died lately from rotten feed. It is thought. Property at public sales is selling rather low except milk cows. Some hog disease. Corn 75c; oats 46c.—J. R. Henry, Jan. 17.

OKLAHOMA.

Cotton County—Winter wheat in good condition. Weather like spring. Some plowing and listing done. Most of stock in good condition. Corn 65 to 70c; alfalfa \$15; eggs 25c.—Lake Rainbow, Jan. 10.

Beaver County—Having nice warm weather. Plenty of moisture in the ground and wheat is making good growth. Large acreage of wheat this year. Grain short. Indications are for a small acreage of wheat in spring.—M. B. Edwards, Jan. 8.

Pawnee County—Nearly everyone plowing this fine weather. A big crop of oats will be sown this spring. Wheat looking fine. Most of livestock looking good. Corn 60 to 65c; oats 50c; hay \$13.50 to \$15; eggs 25c; butter 25c.—V. Funkhouser, Jan. 17.

Cleveland County—Finest winter weather. Roads dry and dusty. Farmers rushing spring plowing. Stalk fields and wheat pasture holding out well. Some hog cholera reported. Hay and grain being marketed in large quantities at good prices.—H. J. Dietrick, Jan. 17.

Grant County—Weather warm and moist. Wheat looks fine and stock is fat. Pastures and roadsides green. Daisies are in bloom and mosquitoes are buzzing. Hardly enough hogs on hand for home killing. Everybody seems happy and hopeful.—A. C. Craighead, Jan. 19.

Comanche County—Splendid weather for farm operations and the farmers are getting the ground ready for oats. Large acreage of oats will be sown as the ground has a good supply of moisture for that crop. Some corn chops being bought by farmers at \$1.60 a hundred pounds.—Fred E. Wiersig, Jan. 17.

Lincoln County—Fine January weather. Farmers busy building fences and plowing. Ground in fine shape. Stock doing well in stalk fields and on wheat and rye pasture. Farm sales not so numerous as last fall. Considerable alfalfa will be sown this spring. There is plenty of seed corn in this vicinity.—J. B. Pomeroy, Jan. 17.

Cherokee County—Weather somewhat cold. Some butchering being done. Most farmers have some hogs to kill. Feed scarce and rather high. Very little feeding being done. Hogs and cattle high. Some plowing being done. Wheat looks well. Very little snow and not much rain. Eggs 30c; hens 10c; wheat 75c; corn 75c.—L. J. York, Jan. 12.

Custer County—Have had warm weather the last two weeks and ground is in good condition for plowing. Stock doing well on wheat pasture. Kafir and milo threshing about finished. Not as many sales as a year ago. Stuff is selling better at sales than last month or November. Corn, milo and kafir 65c each, hogs \$7.50.—E. E. Baker, Jan. 17.

Caddo County—Weather cool and pleasant. Farmers are killing more hogs for home use than usual since they found how to sugar cure them. President Waters's way. It is fine. Many silos put up last year and silage keeping fine. One thousand or more cattle on full feed in this township. Wheat in good condition. Smaller acreage of oats will be sown than usual. Corn 61c; wheat 80c; hogs \$7.60.—S. A. Gilmore, Jan. 17.

Texas County—Fine weather. Farmers busy butchering, fixing fences, burning thistles, and others are blank listing, plowing and disking. Wheat looking good and stock doing fine on it. Oats and barley crops will be limited on account of the high price of seed. Wheat 75c; corn 85c; barley 75c; potatoes 95c; milo \$1.40 cwt.; eggs 27c; cream 29c; butter 20c; hogs \$7.—Frank Free, Jan. 19.

Who Can Answer This?

Mr. Editor—We wish to build a treadmill to be operated by a bull weighing 1,500 pounds. Would this develop enough power to pump water, run washing machine, and do other light work? Can some reader of the Mail and Breeze help me with directions in building this mill? W. E. Graham, Bunker Hill, Kan.

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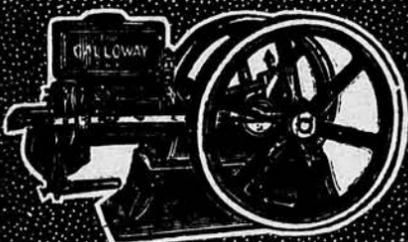
That's the best way to prove the merit of any machine. A test under actual working conditions on your own farm. That's the offer I make you on any of my engines. It's a test they have stood for years and over 30,000 Galloway customers will tell you they've made good. Listen. You and I know that the great problem on the farm today is the labor problem. It's the manufacturer's problem, too. Now, the way a manufacturer solves it is by installing up-to-date, modern machinery that will do the work of several men and in that way it's easier to get good labor. That's the only way you can solve it on the farm, by installing machines that will save a lot of time, labor and hard work, which you now do by hand or have to hire done. Isn't that a fact? All right, then you want a gasoline engine now.

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Small Portables \$31.75, \$39.75, \$45.50, respectively	
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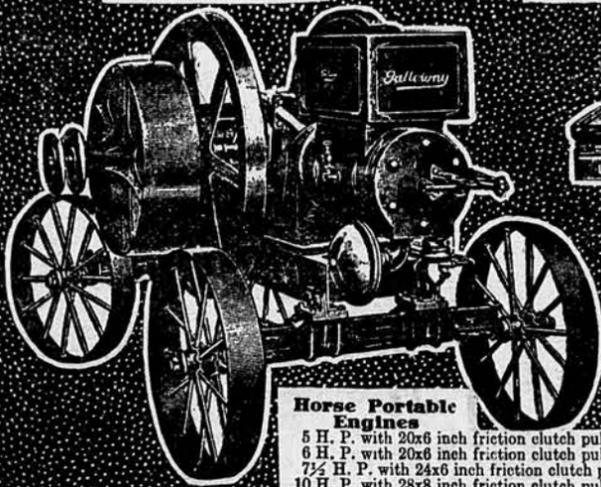
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7 1/2 H. P. 20x6 inch pulley.....	179.50
10 H. P. 24x8 inch pulley.....	247.50
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5 H. P. ".....	110.50
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TWO GOOD imported Percheron stallions, 4 and 5 years old will be sold at auction at Burlington, Kan., January 30th. H. J. Anderson.

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8 HOLSTEIN cows and heifers, good colors, fresh in 60 days. Also the beautiful 15-month-old bull, Bertis Trogan. Jack Hammel, 215 Adams St., Topeka, Kan.

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FOR SALE OR EXCHANGE for cattle, horses, mules under 5 yrs. One black imported Percheron stallion, 7 yrs. old; a good one. Sound every way. Orville Price, Burr Oak, Kan.

AM LEAVING STATE, must sell imported, ton Belgian stallion, sound and sure; also black jack fifteen and half hands; good performer, sound and sure. L. Johnston, Allen, Kan.

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SEEDS AND NURSERIES.

SWEET CLOVER. T. Mardis, Falmouth, Ky.

FOR SALE—Seed—Barley, clean and tested. J. B. Reimer, Inman, Kan.

SOURLESS CANE seed for sale. \$2.00 per bu. E. N. Redfield, Wilmore, Kan.

SEED CORN. Hildreth Yellow Dent, \$2.50. Originator, C. E. Hildreth, Altamont, Kan.

FANCY ALFALFA SEED—Guaranteed pure. \$7 per bushel. John Ryman, Dunlap, Kan.

TREES at wholesale prices. Fruit Book free. Address Wichita Nursery, Box B, Wichita, Kan.

EXTRA good Boone County White seed corn, two dollars bushel. J. B. Hunt, Oswego, Kan.

SEED CORN—Ferguson's yellow dent. First class, \$1.50 per bushel. John Mills, Verden, Okla.

SEED OATS—Texas Red. Car load, 50 cents F. O. B. here. J. M. Brubaker, Ramona, Okla.

SEED CORN—Boone County White; good quality. H. L. Harvey, Grower, Kincaid, Anderson Co., Kan.

FETERTA, German and Siberian millets, Red and Black Amber Cane. Add Bx. 137, Grainfield, Kansas.

CAREFULLY selected, tipped, Dent seed corn, shelled or ear, \$3.00 bushel. L. J. Morrell, Sibley, Mo.

ALFALFA SEED. Choice re-cleaned, guaranteed pure. \$6.00 bu., sacks free. T. S. Booth, Barclay, Kan.

SWEET CLOVER, white blossom variety, re-cleaned seed, for sale by grower. H. C. Day and Son, Hartland, Kan.

SEED CORN—Early yellow dent, heavy and sound, hand picked, \$1.50 a bushel. Charlie Clemmons, Anadarko, Okla.

CHOICE re-cleaned feterita seed. Three pounds, 50 cents delivered. \$2.00 bushel our track. W. R. Hutton, Cordell, Okla.

KHERSON seed oats. Reid's Yellow Dent seed corn in the ear. Alsike and timothy seed. F. M. Riebel & Son, Arbela, Mo.

KAFIR SEED, black hulled white, crop of '13; \$1.25 per 50 lbs., in head or threshed and graded. J. C. Lawson, Pawnee, Okla.

FOR SALE—Hiawatha Yellow Dent seed corn, 1913 crop, tested, hand selected. Exceptionally good seed. Samples on request. Write E. J. Abell, Riley, Kan.

SEED CORN—Boone County White and Hildreth Yellow Dent, carefully selected, \$2.00 per bu. Choice feterita, 12 lbs. \$1.00; 50 lbs. \$2.85. B. A. Nichols, Hutchinson, Kan.

SEED CORN FOR SALE. Reid's, Gold Mine, Silver Mine, and Silver King. Send for booklet. Seed corn honesty. Breeder's calendar free. E. P. Myrland & Sons, Onawa, Iowa.

WHEAT RAISERS. This advertisement cut out and mailed to me with your name and address will bring you a certificate worth one dollar. Do it now. W. S. Wells, Sterling, Kan.

SHAWNEE WHITE seed corn. Best yielder here in 30 years' trial. Adapted to upland or bottom. Seed, selected, tipped, shelled and graded \$2.00 per bushel. J. A. Ostrand, Elmont, Kan.

SEED CORN: Limited amount, graded, single ear, six-kernel, tested, yellow dent, white and calico. Raised by best growers in Marshall county. Marshalltown Seed Company, Marshalltown, Iowa.

FOR \$1 I will send you 8 apple, peach, pear or plum trees or 6 cherry trees or 20 gooseberry, currant, grape, rhubarb or 75 blackberry, raspberry, dewberry or 100 asparagus or 200 strawberry plants. Catalogue free. Manhattan Nursery, Manhattan, Kan.

FARM SEEDS—Choice re-cleaned maize, kafir, cane and millet \$2.50 100 pounds. Feterita \$4.00 100 pounds. Hand threshed red kafir \$3.50 100 pounds. Sweet clover 10 pounds \$3.00, 50 pounds \$12.50. Rock Island R. R. Buy white you can. Claycomb Seed Store, Guyton, Okla.

1912 CORN. All Kansas grown. Boone County White, Iowa Silver Mine, Kaw Valley Imperial White, Reid's Yellow Dent. Ears or shelled. St. Charles White. Germination 95 to 98 per cent. Also very best alfalfa seed. Ask for samples and prices. Wamego Seed House and Elevator, Wamego, Kan.

ALFALFA SEED. Won first prize at Kansas and Oklahoma State Fairs. Also first at our state farmers' institute. Tested 99.9% pure by Dept. of Agr. Non-irrigated. Re-cleaned. Price \$7.00 per bu. Sax free. Send for sample. F. M. Giltner, Grower, Winfield, Kan.

"101" RANCH SEED CORN—Free on request, circulars about our celebrated "101" White Wonder, Bloody Butcher and Improved Indian Squaw seed corn—thoroughly acclimated to all parts Southwest—out-grow, outlive, outyield all other varieties. Miller Brothers, 101 Ranch, Box J, Bliss, Oklahoma.

AM A PURE SEED crank and have cured a fine lot of Minn. No. 13 and N. W. Dent seed corn—excellent quality—germination nearly 100%. Will sell a limited quantity of either, shelled, at \$2.25 per bu., bags included. Also have some genuine Marquis wheat at \$2.00 per bu.—yielded 45 bu's per acre. Money back if dissatisfied. J. J. Piper, Grandview Farm, Faribault, Minn.

SEEDS AND NURSERIES.

SEED CORN—Reid's Yellow Dent and Iowa Silver Mine. Reference, Farmers Exchange Bank. Everman & Everman, Gallatin, Mo., R. 5.

FOR SALE.

ALFALFA HAY for sale. R. C. Boss, Fountain, Colo.

ALFALFA HAY for sale. Robert Hanson, Concordia, Kan.

ALFALFA HAY for sale in car lots. J. A. Shanstrom, Coolidge, Kan.

PET COONS, either sex; pairs if wanted. Frank Johnson, Quincy, Kan.

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ALFALFA HAY in car lots. Write or wire for prices. Geo. R. Wilson, Lamar, Colo.

BAND INSTRUMENTS—Violins, new and secondhand. Cheap. Needles Music Co., Wichita, Kan.

BALED PRAIRIE and alfalfa hay. Alfalfa seed. Lyon County Farmers' Produce Ass'n, A. B. Hall, Mgr., Emporia, Kan.

ALFALFA HAY and seed from the great Platte valley. Choice seed \$7.50 per bu. Rosenberg Hdw. Co., Lexington, Neb.

GROCERY and meat market. Will sacrifice for cash. Trade for anything worth the money. Address Lock Box 71, Manhattan, Kan.

FRESH FROM MILL. 100 lbs. beautiful clean white table rice, freight prepaid to your station \$4.65. C. C. Cannan, 304-9 Scanlan Bldg., Houston, Texas.

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EXCHANGES, 1000, farms, mdse., etc. Everywhere. Write for list. Reidy & Overlin, California, Mo.

FOR SALE OR TRADE—2 improved farms. 520 acres Sevier Co., Arkansas; 170 acres Labette Co., Kansas. Want exchange list from agents and farms for trade from farmers. Pettrich, Altamont, Kan.

TO EXCHANGE—Several 4-5 and 6 room modern residences, good income proposition, all occupied, well located in Muskogee, Okla., for a good desirable 80 to 150 acre farm in eastern Kansas. H. J. King, 705 Lawrence St., Muskogee, Oklahoma.

\$15,000 STOCK general merchandise; \$5,000 stock general merchandise; \$10,000 stock hardware; \$10,000 stock hardware and building. Want clear farms for the above stocks of goods. J. H. Williams, 730 New York Life Bldg., Kansas City, Mo.

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50 BBL. modern mill, Marlon Co., Kan. \$1,000.00 cash; \$1,800.00 time. What have you? Mill, care Mail and Breeze.

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LANDS.

IMPROVED farm in Trago county, Kansas, to rent. Herman Long, Wakeeney, Kan.

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REAL BARGAINS in farm lands; write for list. Exchanges a specialty. B. Frank Youngs, Howard, Kan.

COLORADO IRRIGATED land on railroad; easy terms. Heald, owner, 602 Kitteridge Bldg., Denver.

LAND. 400 acre farm for sale—terms to suit. For particulars address owner, Bob Wood, Strong City, Kan.

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206 A. FINE stock farm, 125 a. in cultivation. Excellent improvements. For particulars, C. O. Carlson, Leonardville, Kan.

170 ACRE farm 3 miles out. Right between oil production. Lease goes with farm. Price \$10,200.00. Box 75, Nowata, Oklahoma.

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LANDS.

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GREAT BARGAIN southeastern Oklahoma. 320 acres, half river bottom, plenty rainfall. Government title. \$6 acre cash. A. Gaiser, Hugo, Oklahoma.

THE BEST BARGAIN in the foot hills. 360 acres. Imp. ideal for stock, alfalfa, grain. Special buy. \$15.00 acre. Allison, Rye, Pueblo Co., Colorado.

YOU CAN SELL YOUR FARM or business quickly for cash wherever it is, by our system. Particulars free. Black's Business Agency, Desk 9, Durand, Wis.

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HALF SECTION smooth second valley, one mile good school town; half cultivation; no improvement except fencing. Ideal dairy, poultry farm. Lee Van Sant, Canyon, Tex.

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2,000 ACRES Kansas ranch for sale or rent. Fenced, never failing water, 300 acres alfalfa land, Lane Co., improvements. Priced right if taken soon. Address Owner, B., care Mail and Breeze.

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160 ACRES fine black land, Wharton Co., south of Louise, in rain belt, Gulf Coast, Texas. Direct from owner. Will make splendid farm. Owner going in business, need cash. Address 1916 Taft St., Fairview Add., Houston, Tex.

ADVERTISE YOUR PROPERTY in Capper's Weekly for quick and sure results. 250,000 circulation guaranteed—among best farmers in Kansas and adjoining states. Advertising rate only 8c a word. Address Capper's Weekly, Adv. Dept., Topeka, Kan.

FARM at public auction, Saturday, Jan. 31st. I will sell my 120 acre farm, eight miles east of Madison, Greenwood Co., half grass, half cultivated, all fenced, with five room house, good barn and other buildings. One-fourth cash. Write for description. Jerome Long, Derby, Kan.

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PATENTED state school land. Just opened for sale on the remarkably easy terms of one-twelfth cash, balance ten years' time. Located near Southern Pacific railroad, only 32 miles from Houston. Ample rainfall; good markets. Big crops corn, cotton, potatoes, fruit, vegetables. Free Texas map and particulars. Write Dr. C. H. Walters, Trustee, 422 First Nat'l Bank Bldg., Houston, Texas.

FOR SALE—To close estate. No. 1 dairy and grain farm, bordering Seneca river and barge canal, in Onondaga Co. near Syracuse. 3 miles to railroads and trolley. Machine worked fields. Fertile mixed loam soil. Always farmed by owners. Good buildings. Cement stables. 14 room house. Never failing supply of running water in house, stock yard and dairy building. Telephone and rural mail. Price \$6,600 cash. For further information address Mrs. Emma Parry, Memphis, New York.

230 ACRE FARM, 35 miles from Minneapolis, 1 1/2 miles from a good railroad town; part under cultivation, balance meadow and pasture land; good soil; good eight-room house, worth \$3,000; barn, granary, corn cribs, cattle sheds, machine sheds, etc.; 14 cows, 20 head of steers and heifers, three horses, hogs, chickens, complete set farm machinery, buggies, wagons, sleds, 50 tons of hay, 1,200 baskets corn, 150 bushels mixed grain, 175 bushels potatoes; in fact, everything on the farm goes except the furniture. Price \$12,000. One-half cash. Schwab Bros., 1028 Plymouth Bldg., Minneapolis, Minn.

LAND.

WHEN you think of Minnesota think of Maxfield. Guaranteed bargains in Minnesota farms. H. J. Maxfield, former commissioner of Immigration for Minnesota, 158 E. 5th St., St. Paul, Minn.

NEW YORK FARMS FOR SALE.

\$11,765 BUYS 181 acres 30 mi. from Buffalo, 1 1/2 from village, rolling, loam soil, no stones, 12 acres timber, abundance fruit, bldgs. worth \$5,000. Including 27 choice Holsteins, 3 horses, 2 sows, 70 hens, all fodder, sugaring tools, farming tools, latest milking machine. Easy terms. Free list. C. J. Ellis, Springville, N. Y.

FARMS WANTED.

WANTED—A farm to work on shares, owner to furnish everything. Good reference. Address Box 12, Americus, Kan.

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WANTED to hear from owner of good farm for sale, reasonable, for cash buyer. Send description. Don't pay big commissions. Western Sales Agency, Minneapolis, Minn.

FARMS WANTED. We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

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GOVERNMENT FARMERS wanted. Make \$125 monthly. Free living quarters. Write Ozment, 38F, St. Louis, Mo.

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WANTED. Reliable men to sell nursery stock. Outfit free. Liberal terms. Pay weekly. Experience unnecessary. Chanute Nurseries, Chanute, Kan.

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MEN for electric railway motormen and conductors; fine opportunity; about \$80 monthly; experience unnecessary; no strikes; state age. Address Box F, care Mail and Breeze.

WE HAVE two dairy farms near Kansas City, well stocked. Want married men with experience in dairying who could put in some money to conduct business on shares by the year. A. Morrison, Jr., Farm Co., K. C., Mo.

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LOCAL representative wanted. Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. All or spare time only. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and become independent for life. Write at once for full particulars. National Co-Operative Realty Company, L-157 Marden Building, Washington, D. C.

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CAN USE a few experienced salesmen in Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

AGENTS WANTED for full line fruit trees and shrubs. Work full or part time, as you prefer. Draw pay every week. We teach you. Outfit free. Lawrence Nurseries, Lawrence, Kan.

WANTED—A farmer or hardware dealer in every town in U. S. as agent to sell Staykitch whiffle tree hooks for implements and buggies. I sample of each and circulars 25c. Saves time, labor and property. B. Hoffines, Gen'l Agt., Larned, Kan.

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FARMERS: We want agents in every school district in the state of Kansas to solicit applications for our popular hail insurance. A little work will give you your insurance free. Write us for particulars. "The Old Reliable" Kansas Mutual Hall, Sterling, Kan.

MAKE \$30 to \$60 weekly selling our new 300 candle power gasoline table and hanging lamp for homes, stores, halls, churches; no wick, no chimney, no mantle trouble; costs 1c per night; exclusive territory; we loan you sample. Sunshine Safety Lamp Co., 1577 Factory Bldg., Kansas City, Mo.

THE WIFE'S FRIEND—Portable oil gas stove. No valves, wicks, wood, coal or ashes. Steady, intense heat; will boil, bake, fry, roast, cook anything; heat rooms, stores, etc. Simple, durable, saves time, labor, money. "Much cheaper, quicker, cleaner than wood or coal." S. Ludwig, Ill. "Safe and clean as a lamp." Mrs. A. R. McClellan, Ill. "Baked pies, cakes and bread; never saw nicer baking done." Mrs. O. Thompson, O. Agents making money. B. L. Heusted, Mich. "Out one day, sold 11 stoves." R. P. Adams, Ia., ordered 3 stoves then 12. C. P. Schroeder, Conn., 40 stoves one order. Price \$3.25 up. Not sold in stores. Show cylinder making gas—people stop, look, get interested—buy. Send postal. World Mfg. Co., 4100 World Bldg., Cincinnati, O.

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WANTED—Small bunch cows to keep for half increase. D., care Mail and Breeze.

WANTED—Fancy poultry breeders. Write us. Shelton & Co., Alcott Station, Denver, Colo.

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SEVEN passenger 60 horse power Winton six, fully equipped, self-starter, top and windshield. Cost \$3,000 when new. Can be bought at a great bargain. This is a great family car and has only been used by owner. Would also make profitable investment as livery car in country town. Smith & Sons Auto Co., 4513 Troost Ave., Kansas City, Mo.

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Warranted genuine gold filled—will wear for years. Most valuable ring ever offered on such easy terms. Set with two rubies and two brilliants, latest style and most substantial mounting. A Ring that is sure to please. One Ring Free to all who send 25 cents to pay for a year's subscription to our big home and story magazine "The Household" and 5 cents extra for mailing expense—just 30 cents in all. Be sure to say what size you want. Address HOUSEHOLD, Dept. 12-R, Topeka, Kansas.

Some of These Berks Go to Market

(Continued from Page 3.)

careful rotation is used. The land is not kept in grain crops longer than four years. It then is planted to alfalfa, or to some pasture or meadow grass. This frequent growing of the legumes and grasses tends to keep up the humus.

A great deal of grass is sown for pasture. Mr. Bayer has found that it is best to have a mixture of grasses for this purpose, and he usually uses five or six kinds. Kentucky bluegrass, English bluegrass, alsike and red clover and timothy are the leading crops in the pasture mixtures. As a rule these do well, for they are just as fond of a limestone soil as alfalfa.

The size of the pasture on the New York Valley Stock farm is what limits the size of the Shorthorn herd. If more



J. T. Bayer's Shorthorns.

pasture were readily available, the number of animals would be increased. It generally is very unsatisfactory to try to keep a herd of registered cattle in a pasture away from home. This is possible with ordinary cattle, but Mr. Bayer likes to have the purebreds near him, where they can be watched carefully. The Shorthorns show good breeding, for good foundation stock was used and great care has been taken in the management. The herds of hogs and cattle were established in 1900.

Mr. Bayer has been a leader in the movement for better farming in Woodson county. He is a charter member of the Woodson County Breeders' association. His two sons are in the animal husbandry course in the Kansas Agricultural college. The whole family believes in the New York Valley Stock farm and in rural life, and all the members are doing much to promote efficiency in both places.

Read the First Mail and Breeze

I have been a constant reader of the good old Mail and Breeze since the first issue. I was then living in Kansas, since then I have lived in several other states, but have always received the Mail and Breeze with a welcome. Now I am moving back to Kansas and expect to remain there. I shall look for it with even more pleasure.

C. A. Austin,

R. 2, Garfield, Ark.

I have taken the Mail and Breeze for a number of years, and think it becomes a better paper each year. We all enjoy its pages very much.

Mrs. Emma Reager.

R. 6, Manhattan, Kan.

I do not want the Mail and Breeze to stop because I could not get along without it. It has too many good things on farming, stock raising and dairying.

Will Weltmer.

I wish to say that the Mail and Breeze is the best farm paper published and that I shall always speak a good word for the paper because it is worth the price.

Vassar, Kan. Henry Scheid.

If you need anything not advertised in this issue of Farmers Mail and Breeze, write us and we'll tell you where you can get it.

Advertisement for O.I.C. IONIA GIRL. THIS O.I.C. SOW WEIGHED 932 LBS. AT 23 MONTHS OLD. IONIA GIRL. I have started more breeders on the road to success than any man living. I have the largest and finest herd in the U. S. Every one an early developer, ready for the market at six months old. I want to place one hog in each community to advertise my herd. Write for my plan, "How to Make Money from Hogs." G. S. BENJAMIN, R.F.D. 21 Portland, Mich.

Advertisement for GALLOWAY OATS. WONDERFUL VARIETIES. Make big crops and big profits. If you plant the right seed, Galloway oats hold the record. From 85 to 141 1/2 bu. to the acre. Follow my special 10c OATS BOOK and be county Oats King. My big, new, free Pure Seed Book for 1914 is just out. Filled with planting information, hundreds of pictures, prices on all field and garden seed, plants, trees, shrubs. Tells about "NITRAGIN," the seed inoculator and my free seed offer. GALLOWAY SEEDS, BOWMAN CO., 42 Galloway St., Waterloo, Iowa.

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122 ACRES located 3 miles of town in Franklin Co., Kan., all tillable; slightly location; 15 acres bluegrass pasture; buildings good; 2 wells; price \$65 per acre. Terms to suit. 80 acres located 2 miles Ottawa; extra good land; splendid buildings; plenty of water; price right; write for land list. Mansfield Land Co., Ottawa, Kansas.

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FOR FARM BARGAINS write for list to J. E. Calvert, Garnett, Kan.

BIG BARGAIN. 120 acre bottom farm, good improvements, 3 1/2 miles town, 1/2 mile school; price \$35 per acre, if sold within 30 days. Gile & Bonsall, South Haven, Sumner Co., Kan.

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160 acres, three room house, large stable, bearing orchard, four miles from Pittsburg with 20,000 inhabitants. One of the best farms in Crawford county. This is a bargain. L. Belknap, Exr., Pittsburg, Kan.

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Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

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320 ACRE STOCK FARM, 6 miles county seat, R. F. D. Never failing water. 25 a. alfalfa; well improved. 65 a. cult. Bal. meadow. Black loam. \$35.00 per acre. Terms. J. B. Fields, Alma, Kansas.

I CAN SELL YOU the finest farms, not to be excelled anywhere for the price. For alfalfa and grain farms. Stock raising. Descriptions and prices on request. Cash and good terms. H. H. Stewart, Wellington, Kan.

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R. & S. Farm for Sale
This famous and well known alfalfa farm so nicely situated only two miles from the city limits of Smith Center, Kan., on Spring creek bottoms, where the soil is especially adapted to growing alfalfa, hogs and the feeding of cattle, is now offered for only \$150 per acre. This last season was a drouthy one, but it produced 150 tons of first and second cuttings of hay, 475 bushels of first grade alfalfa seed for the third cutting and 40 tons of the threshed hay. Also furnished pasture for the raising of 250 purebred Duroc hogs. Get your pencil and figure the proceeds yourself. This last season has been no exception to the possibilities of this farm, as when there is a good seasonable crop year, corn is plentiful and the feeding of cattle made profitable by the use of the enormous crops of alfalfa it will produce makes it a sure proposition wet or dry, as you get the alfalfa seed if dry. Good reasons for selling, as I want to turn my attention to other business. This farm contains only 80 acres, all in alfalfa and especially equipped for the raising of hogs and feeding cattle. Has one of the best hog houses in the state, cattle sheds, water tanks, feed burks, hay racks, windmill and well with inexhaustible water supply, stable, granary, fenced and cross fenced with American hog wire and two barb wires on top, and many other items of expense in fitting up this farm for the purpose it is best adapted. A new farm house which is very comfortable. Correspondence solicited from those who mean business and are willing to come and investigate the place and its possibilities.—A. M. Rinehart, Owner, Smith Center, Kan.

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FOR FARM LANDS in Barry Co., Mo., write J. Y. Drake, Exeter, Mo.

YOU WANT AN OZARK FARM or ranch. What kind? Wesley Marlon, Monett, Mo.

MISSOURI, Ark. and Okla. farms. Conner-McNabney Realty Co., Southwest City, Mo.

WRITE Ozark Realty Co., Springfield Mo., for grain farms, ranches, dairy farms.

160 A. OZARKS; 100 CULT., 2 sets bldgs., spring. \$1,700. McQuary, Seligman, Mo.

WRITE PERRY & BRITE for prices on stock, grain and fruit farms. Monett, Missouri.

OZARK FARMS. Write Southwestern Land and Immigration Co., Springfield, Mo.

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114 ACRES, 80 acres in cultivation, bal. in pasture; one-half bottom land; no overflow; good repair; fair improvements; land is level; three miles to town; good roads and location. Will sell cheap if taken at once. J. E. Hall, Carthage, Mo.

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120 a. farm 2 mi. from Pomona. 75 a. in cult. and orchard, 500 bearing trees, apple and peach, 100 a. fenced, 5 room house, good barn, 2 wells, cistern, phone line, rural mail. 1/2 mi. school. \$38. terms. Farms for merchandise or town property. A. P. Cottrell Land Co., Pomona, Mo.

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Missouri, Kansas, North Dakota, Louisiana and Texas. Tracts for colonization. **FARMERS, ATTENTION.**
We have improved and unimproved farms in the above states, suitable for the growing of wheat, corn, cotton, sugar cane, oats, alfalfa, timothy, clover, potatoes and truck, also grazing lands. Let us know your wants, we can supply them at prices and terms that will please. H. L. Gilbert Land Company, 507 Republic Bldg., Kansas City, Missouri.

SOUTHWESTERN MISSOURI FARM FOR SALE.
60 acres, 4 1/2 mi. from Springfield, on gravel road, telephone, R. F. D.; school and church 1/2 mi., splendid water, good 7 room house, remodeled and painted inside and out recently; new barn 24x30 with cattle shed 10x30, barn also painted; smoke house, corn crib and store room. 4 acres timber, principally oak; covered with luxuriant bluegrass, timothy and clover; all property adjacent and along Springfield road highly improved; splendid home for farmer who wants to make good investment and do light mixed farming in fine climate; good market for all kinds of produce right at hand. Apply W. B. Robinson, 628 Washington St., Waterloo, Iowa.

Come to Howell County, Missouri
Get away from blizzards and drouth. Crop failures unknown, winters mild and short. Fine water, soil and climate. Send for list and descriptive pamphlet. The South Missouri Land Co., Mountain View, Missouri.

Poultry Farms
10 acres of good land for \$250 on terms of \$5 down, \$1 weekly; no interest, no taxes; located in the great Missouri poultry belt near the state experimental fruit and poultry farms. You can't lose on this. Every dollar you pay goes on the price. We even pay the taxes. Write today. Merriam-Ellis-Benton, 603 Minnesota Ave., Kansas City, Ks.

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MINNESOTA FARMS for sale. Easy terms. Write A. G. Whitney, St. Cloud, Minn.

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PAYNESVILLE LAND CO., sell Minnesota farms. Write for list. Paynesville, Minn.

SETTLERS WANTED for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minn.

FINE IMPROVED Minnesota corn and dairy farms \$20 to \$55 per acre. Easy terms. Frick Farm Agency, Saux Center, Minn.

FREE government land: My official 250 page book and paper describes every acre in U. S.; contains township plats, tables, charts showing exact location. Sample copy free. D. J. Campbell, Pioneer Bldg., St. Paul, Minn.

NORTHERN MINNESOTA: The greatest natural cattle section. No drouths. Alfalfa, clover, corn, potatoes, are principal crops. Prairie or timber. Free information. We have no land for sale. W. R. MacKenzie, Immlg. Com., 911 Palace Bldg., Minneapolis, Minn.

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Secure a Home in 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 30 on Wisconsin Central Land Grant. Always state acres wanted. Write about our grazing lands. If interested in fruit lands ask for booklet on apple orchards in Wisconsin. Address Land Dept., Soo Line Ry., Minneapolis, Minn.

ARKANSAS

ARKANSAS FARMS for sale. Terms. List free. J. C. Mitchell, Fayetteville, Ark.

FARM, RANCH and timber land for exchange. W. H. Beach, Lealle, Arkansas.

WE HAVE BARGAINS IN FRUIT, stock and grain farms in northwest Arkansas. Springdale Land Co., Springdale, Ark.

FOR DES. LIT., city props., Ark., and Okla. farm, fruit, timber, grazing lands, write Moss-Ballou & Hurlock, Siloam Sprgs., Ark.

160 A. IMPR FARM; 60 cult., bal. timbered; orchard; 2 mi. Ry. town; on public road; no rocks. \$20 a., 1/2 down. R. Sessions, Owner, Winthrop, Ark.

532 ACRES mostly creek bottom; plenty water, and timber; good orchard; 2 mi. town; creek crosses place. Price \$30 per acre. Write Horton & Co., Hope, Ark.

17,000 ACRES, NO ROCKS, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 20 years at 6%. Teter & Co., Op. Union Depot, Little Rock, Ark.

CORN, OAT, CLOVER land. Sure crops. No swamps, hills. Fine climate, schools, churches. Small pay, 20 years, 5%. Write today, maps, circulars. Tom Blodgett Land Co., Rison, Ark.

QUIT RENTING and write Eugene Parrick, the land man, for fruit, grain and timber farms. Best prices, terms, water and climate in Ark., Missouri and Oklahoma. Describe your wants in first letter. Hiwassee, Ark.

70 ACRES, 1/2 CLEARED, 3 miles from city. \$20 per acre. Other good bargains. Write J. F. Black, Texarkana, Arkansas.

BARGAIN FOR QUICK SALE

40 acre fruit farm, all tillable, 28 acres bearing apples, good five room house, good barn. Price \$7,000. Three thousand dollars cash will handle. We guarantee \$1,000 net returns from fruit this year. Also have a few good farms to trade for land in Kansas or Okla. J. O. Phillips Realty Co., Springdale, Ark.

For Sale

117 acres, part in corporation of Cave Springs, a famous health resort and good railroad town, in Benton county, Ark. 60 acres fine bottom land, 25 acres level upland, balance in timber and pasture, all fenced and cross-fenced, two fine springs that furnish water by gravitation to a five room house with barn and other outbuildings. Land adjoining this selling for \$150 an acre. My price for quick sale \$125. No better bargain in this, the famous Ozark region, and you have all heard of the advantages of this noble country. Will exchange for part payment. Address the owner, S. C. Robinson, Bentonville, Ark.

OKLAHOMA

GOOD FARMS FOR SALE; for particulars write to Harry E. Pray, Pawnee, Oklahoma.

WE SELL THE EARTH that produces alfalfa and corn. W. E. Wilson Realty, Walters, Ok.

EXCEPTIONAL BARGAINS in N. E. Okla. farms. T.C. Bowling, Pryor, Mayes Co., Okla.

980 ACRE RANCH near Sulphur, Oklahoma, well improved. 400 acres bottom in cultivation; no overflow. 200 acres alfalfa. 350 acres hog tight. Sacrifice price \$42,500; half cash. Might accept some trade. State what you have in first letter. T. J. Hartman, Tulsa, Oklahoma.

80 ACRES, 4 ml. McAlester. City 15,000. All bottom. All tillable. No rock. No overflow. 25 a. cultivation. Fair improvements. No better land in county. Double in value in three years. \$33 per acre. Terms. Southern Realty Co., McAlester, Okla.

CADDO COUNTY AGAIN WINS. First on agricultural products at State Fair. Write for information, corn and alfalfa lands. Baldwin & Gibbs Co., Anadarko, Okla.

TEXAS

CORN, COTTON, potatoes and rice are making our farmers good money. Prices from \$25 an acre up. A few special bargains. Fidelity Immigration Co., Eagle Lake, Tex.

BIG CROPS, BIG MARKETS, BIG PROFITS. In the Houston, El Campo district of the Gulf Coast. Write us for Free Booklets, "Where Farming Pays," "Pointers on Where to Buy Land;" also "The Gulf Coast Bulletin" for six months free. Allison-Richey Land Co., Houston, Texas.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

CANADA

COME TO SO. ALBERTA. Land of wheat, alfalfa, cattle. Good markets. Delightful climate. Have several special bargains. Weber Land Agency, Lethbridge, Alberta, Canada.

LOOKING FOR CANADIAN IMPROVED LAND? If so, I have 4 improved farms for sale, which I will take unimproved land as part cash payment, balance crop payments. Write your particulars to W. J. P. SELBY, 2246 McIntyre St., Regina, Sask., Canada.

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CATTLEMEN & FARMERS—ATTENTION. We offer 320 acres fine land, 3 sets good improvements, all under irrigation within 2 miles Delta (the best town in western Colorado)...

320 Acre HOMESTEADS 320 Acre Perfect soil, fine water, climate, schools, crops, people. Our country is coming to the front rapidly. Only a few homesteads and relinquishments left at \$100, up. Get busy. Do it now. It will pay. You can't lose. How? Take the Missouri Pacific for eastern Colorado. R. T. Cline, Towner, Colo.

We Want Farmers

Why buy cut-over, or wild lands in the Frozen North? We can locate you on half-section relinquishment for \$350. Will produce 30 to 35 bushels wheat and corn per acre on sod. Fine hay, good dairy country, 10 to 40 feet to water. Only 12 miles from this city. Land level and soil fertile, clay subsoil. Finest climate in the world. Come and get your choice. Catler & Layton, Fort Morgan, Colo.

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ONE GOOD REAL ESTATE investment NOW in the new town of Homedale is worth a lifetime of labor. Homedale Townsite Company, Minneapolis, Minn.

FLORIDA

FLORIDA, THE LAND OF FRUIT. Flowers and sunshine; good health; prosperity and solid comfort is waiting here for all who invest in homes on St. Andrews Bay. Address Richard McCloy, Lynn Haven, Fla.

GEORGIA

SOUTHERN GEORGIA. Stock raising, fruit growing, truck farming, corn, oats, hay, cotton. No floods, droughts, nor cyclones. Improved and unimproved lands. Easy terms. Thompson & Company, Homeland, Georgia.

Livestock Prices Going Up

General Advance in All Animal Products Coming Too—The Markets

BY C. W. METSKER, Market Editor

LIVESTOCK markets are getting up steam for a general advance. Cattle prices are 25 to 50 cents higher, quality considered, than in December and higher than a year ago. Hogs are \$1.00 to \$1.10 above last January, and the highest since October. Sheep are at the highest point of the season. The most optimistic condition in the situation is that all grades and classes are showing strength. This necessarily means that demand cannot be shifted from one class to another on the basis of relative difference in cost.

January thus far has done better in the price line than was expected, and anticipation is much revived after the disappointments of 1913. The recent advance in prices has materially benefited feeders, and they now are doing a little better than breaking even. Hogs and sheep are making some money. Eastern feeders are beginning to look for high quality 900 to 1,000-pound steers for summer and fall feeding. Heavy fat steers are selling as high as the tidy weight grades, an equality that has not existed in weights for six months. Hogs are selling within 25 to 30 cents of the highest levels ever reported in January. Quality has improved to a moderate extent, indicating that hogs are moving from feeders fairly well prepared to hold for weight. Higher prices for provisions have added strength to the general demand for hogs.

Beef Importations to Increase.

A report from New York states that a steamship line to operate between South America, Australia and the United States had engaged extensive warehouse space at New York wharves. The intention of the company is to import beef from the southern hemisphere. The report says this line is not under the control of the packers.

In connection with beef imports and prospects for lower prices it may be well to note that in the two months of free meats, prices have advanced 3 to 4 cents a pound in European markets, and 1 to 2 cents a pound in domestic markets. And

WYOMING

FREE HOMESTEADS. Use your right on the best homestead to be had. Write A. P. Knight, Jirch, Wyoming.

the supply in the two months thus far has not been sufficient to reach beyond a limited area served by New York dealers. It is the opinion of one of the packers now operating in South America that the southern country cannot offer a surplus of meats in the United States for any length of time.

Looking for Heavy Steers.

Killers now are eager to get heavy steers. For six months past they have been catering to a popular demand for light weight beef. Conditions now promise a very meager supply of 1,350 to 1,550-pound steers for the next nine months. August to December this year promises to duplicate the prices of the fall trade in 1912 when \$10.50 steers were plentiful.

Last week heavy steers sold in Chicago as high as \$9.50, and there was a long line of sales of 1,850 to 1,600-pound steers at \$9 to \$9.10. In the West lack of corn feeding is holding the price range down materially, though a new January record was made in Kansas City at \$8.20 for steers from below the quarantine line.

Large January Sales of Stockers.

Demand for stockers which showed record proportions in 1913 has not subsided and in the first two weeks this year Kansas City shipped back to the country 26,000 stockers and feeders. This is more than one-third the total number of cattle received in that time. Most of the outgoing shipments are steers weighing 450 to 785 pounds that will be turned on grass in the spring. A few bunches of 900 to 1,050-pound selected feeders sold at \$8 to \$8.50 and stock calves as high

both from the angles of receipts and shipments. Prices are holding firm. The East is ready to buy good heavy drafters and there is an active demand for brood mares. The last named class is scarce. Dealers expect a good general demand for some time.

The Movement of Livestock.

The following table shows receipts of cattle, hogs and sheep at each of the five western markets last week, totals the preceding week and a year ago.

Table with columns: Market, Cattle, Hogs, Sheep. Rows: Kansas City, Chicago, Omaha, St. Louis, St. Joseph, Total, Preceding week, A year ago.

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1913:

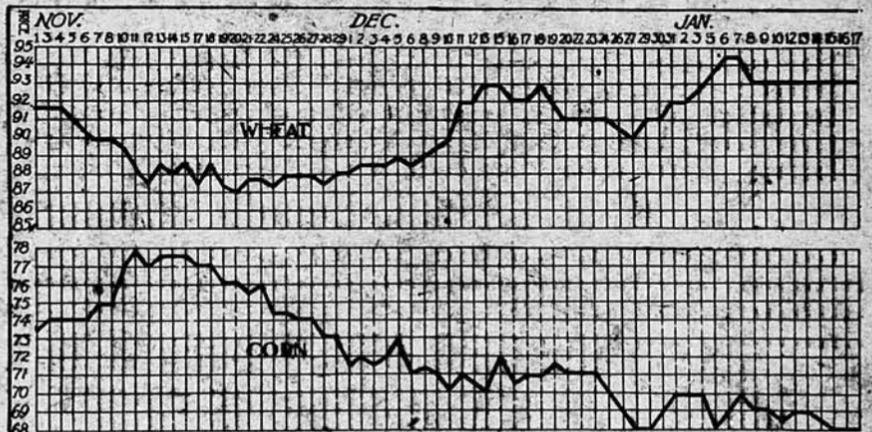
Table with columns: 1914, 1913, Inc., Dec. Rows: Cattle, Calves, Hogs, Sheep, H. & M., Cars.

the following table shows a comparison in prices on best offerings of livestock at Kansas City and Chicago for this date and one year ago:

Table with columns: Cattle, Hogs, Sheep. Rows: Per 100 lbs., 1914 1913, Chicago, Kan. City.

Corn Prices Lower Again.

Selling inclinations in corn seem to be keeping ahead of the demand, and prices last week were lowered again. The cash price for various grades ranges from 61 to 69 cents a bushel, and at the lower quotations there is less demand than when the price was higher. In a little



This chart shows the daily fluctuations of the Kansas City wheat and corn markets since November 1, 1913. Highest cash prices on each grain were considered in making out the chart.

as \$8.50. When the full force of demand for cattle to turn on grass hits the market a veritable scramble for supplies is expected.

Hides Scarce and High.

Hides are selling at 13 to 15 cents a pound, the highest in the history of the trade and dealers in leather say that the supply is falling short of the demand. Eastern manufacturers are responsible for the statement that in the next six months there would be a material advance in the price of shoes, harness, saddles and automobile accessories made of leather. The high price for hides has been an important factor in sustaining demand for cattle live weight, and will continue so. Recent sales of Old Mexico steers weighing less than 700 pounds at \$5.80 were bought on the basis of hide values.

Hog Market Still Bullish.

Hogs touched new high levels for the season selling up to \$8.55 in Chicago, \$8.50 in St. Louis, \$8.45 in St. Joseph, \$8.42 in Kansas City and \$8.35 in Omaha. Receipts were moderate.

The elements in the hog market are broad demand, loss in weight, and an 8-month period of light supplies. Packers are buying the limit and pay \$1 more now than a year ago. On days of large receipts there is more activity in the trade than when supplies are moderate. Hogs weighing 240 to 300 pounds are preferred to lighter weights. Hogs that have been fattened on wheat and carry the right amount of weight are selling nearly as high as corn fat hogs. A good many 130 to 170-pound grades are offered that have had neither wheat nor corn. January receipts thus far have been about as expected, though slightly under those of a year ago. Prices for provisions are 50 to 85 cents higher than a month ago, and hog prices up only about 50 to 60 cents.

Sheep Prices Hold Up Strong.

Trade in sheep remains active and prices are holding well up to the recent high levels. Good lambs are selling at \$8 to \$8.45, and wethers sold at \$6, ewes \$5.65 and yearlings at \$6.50 to \$7.25. Western feeders seem fairly well satisfied with prevailing prices, as they have been moving flocks recently. In southern Texas it is said that most flocks are already on grass and weeds of this year's growth.

Big Demand for Fat Mules.

Demand avenues in the South are wide open for fat mules. Kansas and Missouri feed-barns are disgorging to meet this demand and trade has been large

more than two months grass will be available. Only slight net changes occurred in wheat prices and the general market appears weak. Soft wheat continues to lead hard wheat by a 4 to 5-cent margin. Oats were quoted lower.

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:

Table with columns: Wheat, Corn, Oats. Rows: Chicago, Kan. City.

Kansas-City Hay Quotations.

Table with columns: Hay type, Price. Rows: Prairie No. 1, Timothy, Clover mixed, Clover, Alfalfa, Straw.

Seed and Feed Prices.

Alfalfa is quoted at \$7.50@9 a cwt.; clover, \$9.50@13; timothy, \$3.75@4.50 a cwt.; cane seed, \$1.80@2.40; millet seed, \$1@2; flax seed, \$1.29@1.32. Feed prices: Kafir is quoted at \$1.68@1.75 a cwt.; bran \$1.12@1.14; shorts, \$1.05@1.32; corn chop, \$1.23; rye No. 2, 61 1/2c a bushel; feed barley, 52@55c a bushel.

Butter, Eggs and Poultry.

Elgin, Jan. 19.—Butter this week is firm at 32 1/2 cents. Kansas City, Jan. 19.—Prices this week on produce are: Eggs—Firsts, new white wood cases included, 32c a dozen; current receipts, 31c. Butter—Creamery, extras, 32c a pound; firsts, 30c; seconds, 29c; packing stock, 18 1/2c. Live Poultry—Broilers, 17 1/2c a pound; spring chickens, 14c; hens, No. 1, 12 1/2c; No. 2, 8c; young roosters, 11c; young turkeys and turkey hens, 17c; young ducks, 15c; geese 12c.

Produce Prices Now and One Year Ago.

Table with columns: Butter, Eggs, Hens. Rows: Chicago, Kan. City.

Give me the money that has been spent in war, and I will clothe every man, woman and child in an attire of which kings and queens would be proud. I will build a schoolhouse in every valley over the whole earth. I will crown every hillside with a place of worship consecrated to the gospel of peace.—Charles Sumner.

FOR SALE OR EXCHANGE

EXCHANGES—ALL KINDS—free/list. Foster Bros., Independence, Kan.

WRITE J. W. MEREDITH of Carthage, Mo., for prices and exchange farm lands.

E. H. FAST, Land Man, will sell or trade for anything. Osage Co., Burlingame, Kansas.

GREENWOOD CO. Write Herrman & Dove for sale and exchange lists. Hamilton, Kan.

LAWRENCE REALTY CO., home of the swappers. Patrick C. Quin, Mgr., Lawrence, Kan.

EXCHANGE BOOK, of hundreds of honest trades, farms, merchandise, etc., everywhere. Graham Bros., Eldorado, Kan.

WE BUY, SELL and exchange, anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.

TRADE FOR MDSE. 120 acre farm, and city residence. Dandy 160 acre farm, good improvements. 100 acres in wheat for \$6,400. Terms. J. M. Garrison, Attica, Kan.

FOR EXCHANGE, good two room brick bldg. in good R. R. town of 1,000. Center of town and always rented. Mtg. of \$1,200, due May, 1915, can be renewed. Equity for clear western Kan. or Okla. land. Walter Hanson, Real Estate, Sabetha, Kan.

FOR EXCHANGE, 350 acre Illinois farm, improved. Want Kansas, Oklahoma, Missouri land or income property. Box 275, Iola, Kansas.

160 ACRES LAND near Montezuma. Would take automobile as part pay. \$600 cash, balance terms. Exchanges made. L. E. Pendleton, Dodge City, Kansas.

FARMS, STOCKS, and city property for sale or trade. What have you to offer? Bigham & Ochiltree, 802 Corby-Forsce Bldg., St. Joseph, Mo.

RANCH FOR STOCK FARM. We have 640 acres well improved 3 miles south of Monument, Logan Co. 500 acres in cultivation, 200 acres in wheat. Price \$13,000; clear. Will trade for corn and stock farm in eastern Kansas. Wilson & Bozell, Beloit, Kansas.

320 ACRES 5 MI. BRONSTON, Kan., fair buildings, price \$16,000. Mort. \$6,000. Wants merchandise or rental. 70 acres Jackson Co., Kan. Buildings poor, price \$5,250. Mort. \$2,500. Wants rental. Livery barn, Delaware, Okla., price \$3,000. Rent \$27.50 per month, for small farm. Spohn Bros., Garnett, Kan.

WILL EXCHANGE FIRST MORTGAGE. Elderly gentleman has gilt edge first mortgage of \$10,800 to run 7 yrs. from March 1st, 1914, at 5% on 160 acres of improved Missouri land that sold at \$16,000, to trade on improved land, clear, in Morris county, Kansas, or near. Might put in \$1,000 or more cash on good farm. Give us 2% commission and we will do the rest. Describe your property. W.L. Bowman Realty Co., King City, Mo.

EXCHANGE. What have you to offer for a good level improved section of land, all tillable; 1/2 in cultivation, rents well. 3 1/2 miles south of Cimarron, Gray county, Kansas. Chas. E. Sturdevant, Lewis, Kan.

FOR SALE OR TRADE, fine improved bottom farm, close to town. City High School free. J. H. King, Cawker City, Kan.

SAN JUAN COUNTY, NEW MEXICO. For sale or exchange, 10 acres all in bearing orchard. Standard varieties, 3 miles from Farmington. Price \$2,000. Prefer land or town property in Missouri, Arkansas or Kansas. Other exchanges. The Farmington Land & Investment Co., Farmington, N. M.

EXCHANGE FOR MERCHANDISE OR CLEAR LAND. 200 acres fine corn and alfalfa farm, 8 miles St. Joseph, 3 miles from small town, well fenced, good improvements. Price \$110 per acre. Mortgage \$8,000. C. D. Butterfield, Hamburg, Iowa.

Buy or Trade with us—Exchange book free. Borsie Agency, Eldorado, Kan.

OWNER

If you want to buy, sell or trade your property or farm, write to the Kansas Realty Company, Burns, Marion Co., Kan.

1914 BARGAINS

Choice farms just listed in northwest Missouri, Iowa, Nebraska, for sale or exchange. Advise me your wants and what you have with full description. M. E. Noble & Son, 507 Corby-Forsce Bldg., St. Joseph, Missouri.

1000 Farms Wanted—listed with me—sale or trade. Owners write me—giving complete description—what you will trade for—where, price, etc. If you don't mean business don't write. Frank W. Thompson, Beloit, Kansas.

For Sale or Trade for Land

the well established real estate, insurance and loan business of John H. Averill & Son; new 6 room house and garage, 3 acres of ground, 1912 Ford auto, half interest in ten year lease of 7 offices and hall. Moving to Denver on account of sickness in family. John H. Averill & Son, Luray, Kansas.

I Am the Owner

of several good pieces of property such as farms, ranches, city property, small tracts near city and other property. I prefer to sell, but if you have something I can use, I will trade. Some of the M. & B. readers have gotten some good bargains of me lately. Tell me what you have, and what you want, and maybe I have it. H. C. Whalen, 812 W. Doug, Wichita, Kansas.

For Trade

Nicely improved 160 acre farm in southwest part Neosho county, Kansas. Four and seven miles to good towns on Katy and Santa Fe. 4 1/2 hours ride to Kansas City, Mo. In a fine farming community and also in oil and gas belt. Will trade for hardware or general mdse. Address M. W. Peterson, Hanston, Kansas.

BEST HARNESS LOWEST PRICES

Our Harness have **QUALITY**, the best harness made. We sell direct to consumer, you save all middlemen's profits and you buy for 20 to 25 per cent less money. We pay Freight Charges. **HARNESS, SADDLES, COLLARS, BRIDLES** and everything known in good harness line. Prompt service. Don't fail to send and **GET OUR BIG FREE CATALOG** today.

Write for it **H. & M. Market Harness Shop** Box K Stock Yds. St. Joseph, Mo.

Stannard's Processed Crude Oil Kills Lice and Cures Mange.

One application of my Processed Crude Oil will do more to rid your stock of lice and cure them of mange than three applications of any other preparation on the market, for the reason that it kills the nits as well as the lice, and remains on your stock for so long that it thoroughly cures them of mange. Put up only in 52 gallon barrels, and sold for \$5.00 per barrel. Why pay \$1.00 per gallon for a dip when you can get the best for less than 10c per gallon? My **PURE CRUDE OIL** is an excellent lubricant for all kinds of farm machinery and for painting farm tools to keep rust off. \$4.00 per barrel of fifty-two gallons. See my advertisement of refined oils at wholesale prices in next week's issue. Send cash with order. Address **C. A. Stannard, Box M, Emporia, Kan.**

Mason's Big Jack Sale

At Arcadia, Kansas, Friday, February 6th

35 BIG MAMMOTH JACKS AND JENNETS

I am selling 4 aged jacks from 14 3-4 to 16 hands, plenty bone and style, all extra. Seven 2-year-olds; great big, good ones; some now 15 hands high. 1 yearling, good as one ever saw. 20 jennets bred to my own breeding jacks. 1 weanling jack colt, only gray in the lot. I have the largest and best jennet I ever saw, weight 1200 pounds. Four jennets full 15 hands high; all black. As great a lot as I ever owned. I bought these jennets and jacks in Kentucky myself—did my own selecting. Thirty years doing business with jack men.

G. C. MASON, Arcadia, Kansas

Come to Drywood on M. P., or Arcadia on the Frisco. We will meet you.



The NEW DROUTH-RESISTING, STOCK-FEEDING CROP

"FETERITA"

50 to 80 BUSHELS PER ACRE!

The newest discovery in the way of a feeding crop is "Feterita" which last year—its first real test year—produced an average yield of 24 1/2 bushels per acre. It is claimed to be the one most successful drouth-resisting crop ever discovered, and properly planted and with very little rain, should yield from 50 to 80 bushels per acre—some yields last year were said to reach 100 bushels with only two rains.

Here is an Opportunity to Experiment With It on Your Own Farm

This is a new crop. The editors of Farmers Mail and Breeze, as our readers know, are not claiming everything for it. It has not yet been sufficiently tested as to its feeding value, nor as to its adaptability to our territory. It is certain that it has great drouth-resisting qualities. It is worth experimenting with. Thousands of farmers in Kansas and the Central West are going to try it out this year on a small scale. Some farmers are very enthusiastic over it.

Here is what one successful planter writes about "Feterita." "I raised a crop of Feterita and am well pleased with the results. The grain is larger than Milo, fully as soft, and much whiter than Kafir. Its feeding value is equal to either Kafir or Milo and does not contain the dust that accompanies both Kafir and Milo. The head is erect on the stalk. It branches out from the roots, is a good drouth resister, and matures 25 days earlier than Kafir. Two crops have been raised this year on the same ground. The second crop was planted from the ripe seed of the first." Another farmer says: "We were more than delighted with the fact that the chinch bugs did not bother us. We had Milo maize planted in the same field with it and the chinch bugs took it completely, working right up to the Feterita but stopped there."

One Pound FREE! The supply of this seed is limited, but we secured a sufficient quantity to enable us to offer one pound free to every one who sends \$1.00 to pay for a new, renewal, or extension subscription to the Farmers Mail and Breeze. One pound should plant about half an acre and raise a crop of seed for a second planting. Send us your subscription at once and get one pound free and postpaid before the offer is withdrawn.

Farmers Mail and Breeze, Dept. FS-10, Topeka, Ks.

Use This Coupon or Letter Paper

FARMERS MAIL AND BREEZE, Dept. FS-10, Topeka, Kan.

I enclose \$1.00 to pay for a new, renewal, or extension subscription for one year to the Farmers Mail and Breeze. You are to send me free and postpaid one-pound of "Feterita" seed as per your advertised offer.

My Name

Address

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 614 So. Water St., Wichita, Kan.
John W. Johnson, 820 Lincoln St., Topeka, Kan., N. W. Kansas and S. Nebraska.
C. H. Walker, N. E. Kansas, N. Missouri, 1326 East 37th St., Kansas City, Mo.
Ed R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED 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.

Jan. 26—Jones Bros., Council Grove, Kan.
Jan. 31—A. D. Jones, Dunlap, Iowa.
Feb. 3—J. H. Hamilton & Son, Guide Rock, Neb.
Feb. 4—Albert Smith & Sons, Superior, Neb.
February 6—F. P. Robinson, Maryville, Mo.
Feb. 11—H. C. Graner & Son, Lancaster, Kan.
Feb. 17—L. E. Klein, Zeandale, Kan.
Feb. 18—J. H. Harter, Westmoreland, Kan.
Feb. 19—W. Z. Baker, Rich Hill, Mo.
Feb. 19—J. L. Griffiths, Riley, Kan.
Feb. 20—A. J. Swingle, Leonardville, Kan.
Feb. 24—W. R. Webb, Bendena, Kan.
Feb. 27—W. A. Davidson, Simpson, Kan.
Mar. 4—John Kimmerer, Mankato, Kan.
March 24—Herman Groninger & Sons, Bendena, Kan.

Duroc-Jersey Hogs.

Jan. 29—W. E. Monasmith, Formoso, Kan.
Jan. 30—N. B. Price, Mankato, Kan. Durocs.
Jan. 31—A. M. Rinehart & Son, Smith Center, Kan.
Feb. 3—Howell Bros. Herkimer, Kan.
Feb. 6—Leon Carter, Asherville, Kan.
Feb. 9—B. A. Trump, Formoso, Kan.
Feb. 10—Agricultural College, Manhattan, Kan.
Feb. 18—Geo. W. Schwab, Clay Center, Neb.
Feb. 21—Dana D. Shuck, Burr Oak, Kan.
Feb. 25—A. T. Cross, Guide Rock, Neb.
March 7—B. G. Munsell, Herington, Kan.
Mar. 11—W. W. Otey & Sons, Winfield, Kan.
Mar. 12—G. C. Norman, Winfield, Kan.
March 12—Richard Rothgeb, Pleasant Green, Mo.
March 15—Sam'l Drybread, Elk City, Kan.
March 26—W. H. Mott, Herington, Kan.
Apr. 8—S. W. Alfred & Sons, Enid, Okla.

Berkshires.

Feb. 10—Agricultural College, Manhattan, Kan.

O. I. C's.

Feb. 6—Chas. H. Murray and H. L. Bode, combination sale, Friend, Neb.

Hampshire Hogs.

March 14—Roy E. Fisher, Winside, Neb.
March 12—H. D. DeKalb, DeKalb, Ia., sale at Council Bluffs, Ia.

Jersey Cattle.

Mar. 5—Everett Hayes, Hiawatha, Kan.
May 11—H. C. Johns, Carthage, Mo.

Hereford Cattle.

Jan. 28—Mousel Bros., Cambridge, Neb.
Feb. 19-20—Nebraska Hereford Breeders' Assn. sale at Grand Island, Robt. Mousel, Cambridge, Neb., Mgr.
March 3-4—Funkhouser, Gabbert and others at Kansas City, R. T. Thornton, Mgr., 3629 Charlotte St.
Mar. 31-April 1—Breeders' sale at Kansas City, R. T. Thornton, Mgr., 3629 Charlotte.

Shorthorns.

Feb. 26—Hoadley & Sigmund, Selden, Kan.

Percheron Horses.

Jan. 27—Lee Bros., Harveyville, Kan.; sale at Manhattan, Kan.
Jan. 29—Snyder & Stalons, Oskaloosa, Kan. Dispersion.
Feb. 4—Lewis J. Cox, Concordia, Kan.
Feb. 13—W. S. Boles & Sons, Enid, Okla.
Feb. 19—Breeders' Sale, J. C. Kgr., Mgr., Wichita, Kan.
Feb. 25—J. C. Robison, Towanda, Kan.
March 19-20—North & Robinson, Grand Island, Neb.

Jacks and Jennets.

Jan. 29—I. N. Green, Kiowa, Kan.
Feb. 7—Jas. A. Goldman, Devon, Kan.
Feb. 24—H. T. Hineman & Sons, Dighton, Kan., and Dorsey Hutchins, Sterling, Kan. Sale at Sterling.
Mar. 9—G. C. Roan, La Plata, Mo.

Percherons, and Other Draft Breeds.

Jan. 27-28-29-30, 1914—Breeders' Sale, Bloomington, Ill. C. W. Hurt, Mgr., Arrowsmith, Ill.

Combination Livestock Sales.

Jan. 29—I. N. Green, Kiowa, Kan.

If you have a farm or purebred stock to sell, it will pay you to write Lafe Burger, Wellington, Kan., he has sold more farms at auction than any other man in Kansas. As to his ability in selling purebred stock the records tell the story of his success in that line.

At this season of the year many of our readers are thinking of buying breeding stock. This is particularly true of persons who want jacks and horses. Practically all our advertisers are reliable firms and their stock has been inspected by our livestock specialists. A careful study of our livestock field notes will save the prospective buyers much time and expense. We carry only the advertisements of firms we believe to be reliable and our representatives who call on these breeders write only what they believe to be true of the offerings.

A Handy Calendar.

One of the handiest calendars that has come to my desk for a long time is sent out by the Henneberry Company, 1130 South Wabash St., Chicago, Ill. The unique thing about this calendar is that it shows three months on each page. By simply turning a leaf in the calendar you have before you the present month, the past month and the next future month. This company has been kind enough to send me one of their calendars for the past three seasons and I find it most convenient. Any of our readers who might be interested in this calendar can obtain one by addressing the above firm and enclosing 10 cents to cover cost of mailing.—F. H.

N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

Lambert Brothers, Poland China breeders of Smith Center, Kan., advertise regularly in Farmers Mail and Breeze. At present they have a few very choice spring boars, sired by Waechter's Referee. Also a few choice gilts sired by him that they will sell bred or open. The Lamberts have a splendid herd of medium big type with lots of quality. Their whole herd is vaccinated with the double treatment. Write them for prices and descriptions.

This is the last call for Mousel Brothers' Hereford sale at Cambridge, Neb., January 28. Seventy head go in this sale, including their show herd. Their catalog is out and free for the asking. Cambridge is on the main line of the Burlington out of St. Joe and the sale will be held in town in comfortable quarters. Write them today for the catalog and mention Farmers Mail and Breeze.

Combination O. I. C. Sale.

Friday, February 6, is the date of the combination O. I. C. bred sow sale of Charles H. Murray and H. L. Bode. In this sale Mr. Murray and Mr. Bode will sell 50 head of O. I. C. sows and gilts. The sale will be held at Mr. Murray's farm three miles from Friend, Neb. This is an offering of unusual merit and the two breeders responsible for it are among the best known O. I. C. breeders in the West. Both have shipped O. I. C. stock to Kansas breeders and the writer has yet to learn of a dissatisfied customer. The offering will consist of fall yearlings, spring gilts and a few tried sows. They are from the tops of the two herds. These two herds have won more ribbons at leading state fairs the past five



Generous 5 is one of the herd headers on Moses Rock Ranch, owned by J. C. Hopper, Ness City, Kan., and is the sire of a number of the good bulls Mr. Hopper is offering in this issue. Write for prices.

years than any other two herds in Nebraska—and there are a number of mighty good herds in Nebraska. The sows offered will be bred to a number of the best boars of the breed. Kansas breeders should write at once to either Mr. Chas. H. Murray or Mr. H. L. Bode for their catalog and should arrange to attend the sale if possible; if not, send bids to fieldmen in care of Chas. H. Murray.

Taylor's Shorthorn Bulls.

In this issue C. W. Taylor, Abilene, Kan., is offering about 20 choice young Shorthorn bulls of Scotch and Scotch topped breeding. Mr. Taylor's herd of Shorthorn cattle is one of the strong herds of central Kansas and is looked after personally by Mr. Taylor. The breeding is of up to date and modern blood lines and represents the best of well known Shorthorn families. The herd has been established for a number of years and has furnished many herd bulls and foundation stock for other herds. The 20 young bulls mentioned have merit and will be priced right. Ask Mr. Taylor for prices and descriptions. Mention Farmers Mail and Breeze when you write.

Big Bred-Sow Sale.

The Kansas State Agricultural college will hold its second annual sale of Berkshire and Duroc-Jersey bred sows Tuesday, February 10, in the livestock sale pavilion in college campus at Manhattan, Kan. The offering will consist of 40 Berkshires and 35 Duroc-Jerseys. In order to sell the 75 head in one day it will be necessary to begin the sale at 9:30 a. m. The college offering last year was one of the best offerings of the season and the offering this year is fully the equal of the preceding one. All interested parties should write for catalog addressing Prof. W. A. Cochel of the animal husbandry department. Please mention Farmers Mail and Breeze when writing.

Baler's Cement Silo Forms.

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

Howell Brothers' Sow Sale.

Howell Brothers, Herkimer, Kan., will sell 50 Duroc-Jersey bred sows at auction, February 3. It is an extra strong offering of the best of individuals, well grown and carrying the best of up-to-date blood lines. There will be 15 spring and summer yearlings that have raised one litter each and they are a grand lot of young sows. All of them are bred for March litters with a few that will farrow in April. They will go in the sale weighing over 400 pounds each and they will be in just ordinary condition at that. There will be five fall yearling gilts that are extra choice. The balance of the offering is 30 splendid spring gilts that have been well grown and that are being carefully prepared and conditioned for this sale. The 30 spring gilts are the actual tops of 55 head. They will go in the sale weighing better than 300 pounds each. The entire offering will be bred to four different boars for March and April farrow. By consulting their catalog you will find evidence of their good judgment in buying. The breeding throughout the herd is prominent and up-to-date. Bids mailed to fieldmen in their care will be carefully looked after. Ask them today for their catalog and mention the Farmers Mail and Breeze.

Duroc Bred Sow Sale.

Monday, February 9, is the date of E. A. Trump's Duroc-Jersey bred sow sale at Formoso, Kan. In this sale Mr. Trump is selling 42 head of two of them tried sows of real merit. The gilts are of early spring farrow and are as choice a lot of young sows as will go through a sale ring in northern Kansas this season. They were sired by Defiance 2d, a grandson of Kant Be Beat and Tip Top Notcher; B. & C's Col. Chief, by B. & C's Col.; Red Bobby; Rambler's Wonder; Model Top and other good boars. It is a tip top offering of bred gilts. They are bred to B. & C's Col. Chief, Defiance 2d and Chief Model Top for early spring farrow. The tried sows were selected from the herd as attractions in the sale and are proven brood sows of merit. This is Mr. Trump's first sale but this does not mean that he is new in the business. He is one of the pioneer breeders of Duroc-Jerseys in Jewell county. He has bought from the best herds in the West and the blood lines found in his herd clearly indicate his ability to make good selections. Bids may be sent to J. W. Johnson in care of Mr. Trump and they will receive careful consideration. Write Mr. Trump at once for a catalog and arrange to attend this sale.

Three Big Duroc Sales.

January 29, 30 and 31 are the dates of the big Duroc-Jersey bred sow sales out on the Rock Island in Jewell and Smith counties. All three sales can be attended with very little expense and have been arranged with the idea of making them just as convenient as possible. One hundred and fifty choice sows will be sold on this circuit with one or two herd boars that will prove the best propositions ever offered at auction. W. E. Monasmith at Formoso will open the circuit. His sale will be held in his own heated sale pavilion at his farm two miles north of Formoso, Thursday, January 29. He is making a big reduction sale and is selling Kansas Special, his well known and popular herd boar. In a sale of this kind everyone knows what to expect. While it is not a dispersion sale it is a sale in which he is selling a line of sows that he expected to keep for his own herd. At Mankato on the day following N. B. Price will disperse his entire herd. He has made arrangements to leave the farm and everything goes in this sale. Mr. Price was the heaviest buyer of top Duroc-Jersey bred sows in northern Kansas last winter. Both at public and private sale. In this sale he is selling the very tops of his big herd and it surely is an opportunity to buy the best at your own price. There will also be three herd boars in this sale that will be of interest to those in need of boars. Mankato

is 14 miles west of Formoso. The sale will be held under cover. Saturday, January 31, is the date of Rinehart & Sons' regular annual bred sow sale. They have lined up with this circuit again this season and it affords the farmers and breeders a better opportunity to attend all three sales. Their sale will be held in the pavilion at the fair grounds and they are selling 60 head. The Rinehart herd has always been popular and their bred sow offerings have always been well received by the breeders and farmers. The gilts in this sale are extra well grown and picked from a big crop of spring farrow. It is a grand good offering all the way through. This circuit of sales offers a splendid opportunity for the breeder who needs a few choice sows. He can attend all three sales with very little expense as hotel bills are all paid. The good train service makes it a comfortable trip. Every sow in the sale has been immunized with serum and the entire herds as well. The herds are all of well known standing and are among the best known in the state. Catalogs are ready and will be mailed promptly on request. In asking for them please mention Farmers Mail and Breeze. Bids may be sent to J. W. Johnson for either sale. Address in care of the man making the sale.

Hamilton's Poland China Sows.

J. H. Hamilton & Son, Guide Rock, Neb., will hold their tenth annual Poland China bred sow sale at Burr's barn in Guide Rock, Neb., Tuesday, February 3. I visited their herd recently and was thoroughly convinced that their offering on this date will be the equal of any that will be made in Nebraska or Kansas this winter. It is not a large offering in point of numbers, there being only 35 head in the sale, but it surely is a grand good offering of big smooth Poland China sows and gilts. There will be 15 fall gilts sired by Long Boy 3d, by Long Boy 2d. This boar is of Peter Mouw breeding and one of the good herd boars of southern Nebraska. The 10 tried sows are of choice breeding, two of them being of old Choice Goods. One of the best brood sows that has gone through a sale in recent years will be Ex. Over Queen, by Expansion Over. Her dam was Black Queen, by Pan Jr. The spring gilts are well grown and the entire offering is bred for spring farrow to the different herd boars to the best advantage. The offering will be found one of the very best of the season and a choice lot of valuable sows raised and conditioned for this sale by one of the best known Poland China firms in Nebraska. Bids may be sent to J. W. Johnson in their care at Guide Rock and they will be treated with every consideration. Write them for their catalog and mention the Farmers Mail and Breeze.

Two Poland China Sales.

Albert Smith & Sons, Superior, Neb., will sell 60 head of Poland China bred sows at their farm north of that place Wednesday, February 4. The sale will be held in a large tent which will be made comfortable. Free hotel accommodations have been arranged for at the Goodhue hotel in Superior and autos and teams will bring those coming in on trains to the farm and return them in the evening. The sale is the day following the J. H. Hamilton & Son sale of Poland China bred sows at Guide Rock. This arrangement was made to enable breeders to attend two of the big Poland China sales of the winter with one expense. The 46 spring gilts are by Jumbo Jr. and Victor's Prospect with a very few by Mogul's Model by Jansen's Mogul. All of the gilts, both fall and spring are bred to Jumbo Jr. and Victor's Prospect, with a few to a son of Columbus. The tried sows are only five in number and will be found as they usually are in this sale, real attractions. Jumbo Jr. is the sire of some of the best known herd boars of the big smooth kind we know of anywhere and some of them are in Kansas. He was sired by Nebraska Jumbo. Victor's Prospect was sired by Big Victor, the great sire in Lonergan's herd. The Smiths and

LIVESTOCK AUCTIONEERS.

COL. T. E. GORDON, WATERVILLE, KANSAS.
Merchandise Auctioneer. Write for open dates.

CHAS. M. SCOTT Livestock Auctioneer
Hiawatha, Kansas

G. A. Drybread The Auctioneer
Elk City, Kan.
Live Stock and Farm Sales made anywhere. Prices reasonable. Give me a trial. Satisfaction guaranteed.

JESSE HOWELL Herkimer, Kan.
Livestock Auctioneer
Write or phone for dates.

Jas. T. McCulloch, Clay Center, Kan.
Reference: The breeders I am selling for every year. Write for open dates.

JAS. W. SPARKS Live Stock Auctioneer
MARSHALL, MO.

L. R. BRADY Manhattan, Kansas
Livestock Auctioneer
Write or wire for dates.

Will Myers
Beloit, Kan. Is already booked on leading breeders' sales in Central Kan. Choice dates still open. Write or wire.

W.B. Carpenter Livestock
Auctioneer
1400 Grand, KANSAS CITY. Also Land Salesman

John D. Snyder HUTCHINSON, KANSAS
LIVE STOCK AUCTIONEER
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

Be an Auctioneer

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MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres.
1400-04 Grand Ave., Kansas City, Mo.

Bred Sows

Albert Smith & Sons
Annual Sale of Big
Smooth Poland Chinas

Superior, Neb., Wednesday, Feb. 4

60 head go in the sale and consist of five tried sows, nine fall yearling gilts and 46 February and March gilts. The fall and spring gilts are all by Jumbo Jr. and Victor's Prospect with a few by Mogul's Model by Jansen's Mogul. All are bred for spring farrow to Jumbo Jr., Victor's Prospect and Big Ben Amazon. The five tried sows are of the best of big type breeding with plenty of quality. They are safe to the service of our herd boars for spring farrow. A few of the spring gilts will be bred to a son of the show boar Columbus.

SHORTHORNS—We will also sell four Shorthorn bulls and three heifers. The bulls are of serviceable age and will be found a choice offering. They are all eligible to record and got by the son of a Pure Scotch bull.

Free entertainment at the Goodhue hotel in Superior. Free transportation from Superior to the farm. Catalogs ready to mail. Address,

Albert Smith & Sons,
Superior, Neb.

Auctioneers: John Brennen and others.
J. W. Johnson, Fieldman.

J. H. HAMILTON & SON sell Poland China bred sows at Guide Rock the day before our sale. Attend both sales.

Robinson's Mammoth Polands

AUCTION SALE OF 36 HEAD OF
BRED SOWS AND GILTS

Maryville, Mo., Friday, February 6, 1914

Professional duties which will occupy all my time, make it impossible to attend to the correspondence necessary to closing out the remainder of my bred sows and gilts at private treaty, hence this sale.

This offering, though small, is made up of the best of the Mammoth Polands for which this herd is famous and includes some of my best tried sows and gilts. They are the same Mammoth kind that mature to 700 and 800 pounds and are sired by the half-ton boars we have used. PAWNEE PETE, MONTICELLO BOY and others of my famous herd boars are sires of the offering. They are bred for February, March and April litters to MONTICELLO BOY, GIANT PRINCE and others. The blood of champions and state fair winners included. If you want good sows bred to good boars attend this sale. Send for my catalog and arrange to be my guest sale day. Bargains await you.

F. P. Robinson, Maryville, Mo.

C. H. WALKER, Fieldman.

MURRAY & BODE
COMBINATION SALE

Friend, Neb., February 6, 1914

We will hold a Combination Sale February 6, 1914, on the Murray farm 3 miles south of Friend, Nebraska, consisting of 50 head of O. I. C. bred Fall yearlings, Spring gilts and a few tried sows. This will be putting together 50 head of bred sows and gilts, the tops of two of the best herds in the state. These two herds have won more ribbons at the leading state fairs the last five years, than any other two herds in Nebraska. We are breeding this offering to a number of the best boars in the breed. Such blood lines as 4. B. 13333 National, Combination 12313 N. C. W. R., U. S. 30079 O. I. C., Keepon 16017 Am., Bode's Combination 24147 C. W. R. A., O. K. Keepon 3160 N. O. I. C., O. K. Climax 2d. If in need of any bred stuff please drop us a card for catalogues, which we will send you as soon as they are off the press, and arrange to attend this sale.

G. H. MURRAY & H. L. BODE, Friend, Neb.

J. W. Johnson, Fieldman.

LIVESTOCK AUCTIONEERS.

J. P. Oliver Newton, Kan. Livestock and Real Estate Auctioneer. My 20 years experience insures better results.

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.

W. C. CURPHEY, Salina, Kansas Write, phone or wire for dates. Address as above.

B. O. BROADIE Livestock Auctioneer Winfield, Kas. Write or phone for dates

O. I. C. HOGS.

ELM BROOK HERD OF O. I. C.'s Harry W. Haynes, Meriden, Kas.

50 O. I. C. Pigs Henry Kamplars, Elmore, Kansas.

Registered Herd Boar, 400 lbs. \$50 80 Fall pigs, either sex. New blood for old customers. F. C. GOOKIN, RUSSELL, KAN.

SUNNYSIDE O. I. C. HOGS Boars and gilts ready for service. Pairs not related. Best breeding. Priced to sell. W. H. LYNCH, READING, KANSAS.

EDGEWOOD O. I. C. s. Three extra good early spring boars, also big growthy April gilts, open or bred to order. A few choice fall pigs. Mendon Mall and Breeze. Henry Murr, Tonganoxie, Kas.

Grandview Stock Farm Herd headed by O. K. Wonder. Choice O. I. C. May boars. January and May gilts bred or open. Priced for quick sale. ANDREW KOSAR, DELPHOS, KANSAS.

BOARS! BOARS! BOARS! A great line of spring O.I.C. boars, large and growthy and priced at rock bottom prices to move them quickly. Booking orders on fall boars and gilts for December delivery. JOHN H. NEEF, BOONVILLE, MISSOURI

MULE FOOT HOGS.

Mule-Footed Hogs The coming hog of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free. DR. W. J. CONNER, LABETTE KANSAS.

DUROC-JERSEYS.

MODEL AGAIN Duroc boars, \$15.00 Bred gilts, \$35.00 Immune. E. W. BALDWIN, Conway, Kan.

Dreamland Col.—Riverbend Col. March boars by these sires. Prices right. Write for descriptions and prices. Leon Carter, Asherville, Kas.

DUROC-JERSEYS Herd boar, by Watson's Col., 6 tried sows and fall pigs. Best of breeding. E. C. WATSON, Altoona, Kansas

MCCARTHY'S DUROCS Handsome fall pigs, either sex. Champion blood on both sides. Priced for quick sale. They will please you. Daniel McCarthy, Newton, Kan.

Duroc-Jerseys — Red Polls and Percheron stallions. 3 young bulls ready for service. 8 cows now in milk and bred. Boars, all ages, priced to sell. Address GEO. W. SCHWAB, CLAY CENTER, NEB.

Red White and Blue Herd of Durocs FIRESTONE (190461) Champion winner weighed 500 pounds at 11 months old. WHISKEY and FAITH 19317 Grand Champion at American Royal, weighed 800 lbs. at 18 months old. Great lot of prize sows in my herd. JAS. L. TAYLOR, OLEAN, MISSOURI.

Guaranteed Immune Duroc Sows Duroc-Jersey bred gilts for sale, guaranteed, immune and in farrow. I ship on approval. No money down before inspection. F. C. CROCKER, FILLEY, NEBRASKA

COLONEL WONDER the undisputed "Grand Champion" of Missouri, heads my herd. Spring boars, bred gilts and fall yearlings, by him or bred to him, for sale. Come or write. CHAS. L. TAYLOR, Olean, Mo.

TATARRAX Herd DUROCS Write us to lay describing the kind of Duroc boar you want. We have the best young boars we ever raised. They are by G. M.'s Tat Col., and the grand champion Tatarrax. Prices reasonable. HAMMOND & BUSKIRK, NEWTON, KAN.

Stith's DUROCS Sows and gilts bred to and young boars and gilts by Model Duroc, one of the best sires of the breed. His half brother and sister were grand champions. His sire was a champion. Write today. CHAS. STITH, Eureka, Kansas

Good E. Nuff Again King Sensational Grand Champion; and Crimson Wonder 4th, second prize, Kansas Fair, 1913. Fifty head of great sows and gilts sired by and bred to these great boars. W. W. Otey & Sons, Winfield, Kansas. "The men with the guarantee."

MAPLEWOOD DUROCS Boars all sold. 40 open and bred gilts for sale. Will ship on approval. Write for prices. W. H. MOTT, HERINGTON, KANSAS

Quivera Place Durocs Spring Pigs now ready and going. Write for prices. E. G. MUNSELL Herington, Kansas.

Bonnie View Durocs Bred gilts and fall pigs for sale. They are sired by Grand Champion Tat-A-Walla and S.&C's Col. Searle & Cottle, Berryton, Kansas.

the Hamiltons will be pleased to have you attend both sales. Arrangements have been made at both places for free hotel accommodations and the train service is good. Get their catalogs and arrange to attend both sales. Better drop a card today and tell them where you saw their sales mentioned. Bids may be sent to J. W. Johnson in care of the man for whom they are intended.

Carter's Dispersion Sale.

Leon Carter, Asherville, Kan., has decided to engage in business that makes it necessary that he disperse his herd of Duroc-Jerseys and he is selling 60 head in his regular annual sale at Asherville, Friday, February 6. The offering includes three of the best known herd boars in the state and 12 tried sows that for individual merit, breeding and ability to produce big litters will not be equaled in any sale this winter. Waveland Princess, by Waveland Col is a sister to Dreamland Col. She is 3 years old and a show sow and one of the best producers Mr. Carter ever owned. She farrowed 10 pigs last spring and raised eight of them and four of her boars went to good herds. She is a perfect brood sow. Buddy's Lass, by Buddy K. 4th and out of Parnell Lass, by W. L. A.'s Choice Goodie, farrowed 10 pigs last spring and is a splendid producer. Bell K. is a splendid brood sow that farrowed 13 pigs last spring and raised nine of them. She was sired by Fitch's Kant and is a granddaughter of Kant Be Beat and Vall's Pride, the \$225 Ohio Chief gilt. There are also two tried sows by B. & C.'s Col and granddaughters of Buddy K. 4th. One by Masterpiece Chief. The real attraction probably in the sow offering is Gano Pride, by Col. Gano. This is a splendid 2-year-old sow that has had one litter. There will be 12 fall yearling gilts and 36 picked spring gilts. They are picked from a big crop of spring pigs and have been carefully handled. It will be found a choice offering of spring gilts. Dreamland Col., by Waveland Col., goes in the sale. He is one of the greatest boars that we know of. Riverbend Col. is probably as good a proposition. He sired the \$100 top that went to Rinehart & Sons herd last winter and has produced some splendid stuff. L. C.'s Defender is a good breeder but is badly shined. He has proven himself a splendid sire and is richly bred. Bids may be sent to J. W. Johnson in care of Mr. Carter. Such bids will be carefully handled. Write for catalog today which will give complete information with timetable and instructions for getting to Asherville and Beloit.

N. E. Kansas and N. Missouri

BY C. H. WALKER.

J. C. Huckstep, Eolla, Pike county, Missouri, recently sold for shipment to the government of New South Wales, two Mammoth jacks and three jennets. W. J. Allen, representing the Department of agriculture of New South Wales, Australia, made the purchase. Last fall Mr. Huckstep sold one jack and two jennets to go to South Africa and one jack and 15 jennets to a Georgia buyer. Mr. Huckstep's reputation for breeding and handling high class jacks and jennets is world wide and it is a credit to the state to have a man of his ability. This year the Huckstep barns are full of the usual good kind. Those in the market for good jacks and jennets will consult their own interests and jennets in touch with this breeder and his stock. Note advertisement in these columns and when writing or calling kindly mention this paper.

Last Call Percheron Dispersion.

This is the last change we have of calling our readers attention to the Percheron dispersion sale to be held at Oskaloosa, Kan., Thursday, January 29, by Snyder & Stalons of that place. Those who are in the market for really good stallions or mares will find them in this sale. It is a dispersion sale of Percherons that have been bred and raised by this firm personally and are right in every way. Every animal is sound, the mares are regular producers of good colts and the young stock in the herd they have produced. The sale will be held the second day after the Le. Brothers' sale and good connections from Manhattan to Oskaloosa can be made. This offering is worthy the attention of all those who know and appreciate good horses and are in need of same. It isn't too late to get their catalog, which will be sent upon application by mentioning the Farmers Mail and Breeze.

Taylor's Duroc Bargains.

Queen Ester, one of the best sows of any breed ever in the state, is no more. This great Duroc sow, a champion herself and a producer of prize winners, cashed in on the Chas. L. Taylor farm at Olean, Mo., recently and her death is a distinct loss to the breed. But this great old matron did mighty good service for Mr. Taylor and he is fortunate in having on hand a number of her sons and daughters. At present he has a number of toppy boars for sale that are herd headers and some very fancy ones out of Queen Ester that should be in demand from breeders who want the best. The Queen Ester boars are by Taylor's Model Chief, the boar that headed the first prize herd at the Missouri State Fair in 1912 and now at the head of E. N. Farnham's herd at Hope, Kan. The other boars are by Mr. Taylor's grand champion, Col. Wonder and out of prize winning sows. Mr. Taylor also has a number of very choice gilts either by or bred to Col. Wonder. No better Durocs are to be found than in the Taylor herd and one would have to travel a long ways at a big expense to find a breeder that would give the buyer a squarer deal than Chas. L. Taylor. Write him your wants and kindly mention this paper.

Robinson's Mammoth Sow Sale.

F. P. Robinson of Maryville, Mo., who for a number of years has maintained one of the country's best herds of big type Poland Chinas, announces February 6 as the date for an auction sale of his Mammoth bred sows. A public sale of breeding stock from this herd is not a usual thing, only a very few auctions being held since the herd was established. Mr. Robinson has built up his business almost entirely on a mail order basis and by selling only the very best specimens and backing them up with a most liberal guarantee, he has realized a demand for his Polands from a big field. Only 36 head will be sold, but included in that number will be found several of the best sows in the Robinson herd and gilts that were the best of last year's production. These Mammoth sows and gilts are

Royal Scion Farm Durocs The great Graduate Col., assisted by Col. Scion, heads this herd. Fall and spring boars, fall and spring gilts bred or open and fall pigs, either sex. G. C. NORMAN, R. 10, WINFIELD, KANSAS.

KANSAS STATE AGRICULTURAL COLLEGE Bred Sow Sale Manhattan, Kan., Tuesday, February 10

9:30 A. M. 40 Berkshires Sired by 2d Masterpiece 127900, Rob Hood 17th 165497, and Wakarusa Duke 4th 142267. Bred to Young Master 3d 183302, King's 25th Masterpiece 185562, and Wakarusa's Best 18330. 1:00 P. M. 35 Duroc Jerseys Sired by Beauty's Babe, Good as Gold, Tat Orion, Model Colonel H. and G. M.'s Colonel. Bred to Beauty's Babe 112415, Good as Wonder 148015 and Kansas Wonder. Sows immune to hog cholera. Catalogs ready, K.S.A.C. (Animal Husbandry Dept.) Manhattan, Kan.

DUROC-JERSEYS.

Smith's Durocs Fashionably bred boars, including grandsons of the great Graduate Col., and a herd-heading son of the champion, Tatarax. Also spring boars. J. R. SMITH, NEWTON, KANSAS

FOR SALE—Two-year-old Duroc Jersey boar, grandson of Crimson Wonder Again; a magnificent hog, a good breeder and a show boar. \$150 for quick sale. Address W. R. CROW, HUTCHINSON, KANSAS

BANCROFT'S DUROCS

We hold no public sales. Nothing but the best offered as breeding stock. Choice March and April boars \$25.00. Bred gilts to farrow in March and April, \$35.00. September pigs, pairs and trios not akin. Customers in 11 states satisfied. Describe what you want. We have it. D. O. BANCROFT, Osborne, Kansas

HILLSIDE DUROCS

Two good boars priced to sell and deliver quick, for immediate service. Wire us. W. A. WOOD & SON, Elmdale, Kansas

BIG TYPE UNPAMPERED BERKSHIRES

150 sows bred to Fair Rival 10th, King's 4th Masterpiece, Trusttype, King's Trusttype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, Burlington, Kansas



F. W. Evington, Pres.



I. W. Kyle, Secy.

Jewell County Breeders' Association

Members of this association, advertising below will offer nothing but first class animals for sale for breeding purposes.

O. I. C. HOGS.

O. I. C. SEPTEMBER PIGS for sale also White Holland Turkey toms. DR. W. W. SPENCER, Mankato, Kansas

POLAND CHINAS.

A. R. REYSTED, Mankato, Kan. Breeder of high-class Poland Chinas. Member Jewell Co. Breeders Association. Correspondence solicited

Polands, Shropshire Sheep 100 Spr. pgs, both sexes, strictly big type. Ram lambs. Write for prices. Ira M. Swihart & Son, Webber, Kan.

50 BIG BOARS Spring farrow. Big and smooth. Priced to sell. Also choice gilts. Bred Sow Sale March 10. JOSHUA MORGAN, HARDY, NEBR.

Three June Boars sired by Jumbo have ever raised. For sale right. Bred Sow Sale March 4. JOHN KEMMERER, Mankato, Kas.

Bell's A. Wonder 61891, one of the best of old A Wonder, priced to sell. Immune and guaranteed. Ira C. Kyle & Son, Mankato, Kans.

FALL AND SPRING BOARS for sale. Also spring gilts and summer yearlings. Barred Rocks, R. L. Reds and W. Wyandottes. W. A. MCINTOSH, Courtland, Kan.

PRIVATE SALE Spring boars and gilts. Best of big type breeding. Ask for prices and descriptions. TUDOR J. CHARLES, Republic, Kan.

DUROC-JERSEYS.

Durocs—Bourbon Red Turkeys Spring boars priced once. Bourbon Red Turkeys low if you write at E. M. MYERS, BURR OAK, KANSAS

SUMMER BOARS Choice heavy boned fellows, by Buddy O. K. Also herd boar, Tat's Chief for sale. R. P. WELLS, FORMOSO, KANSAS

25 SPRING BOARS of fashionable breeding. Priced to sell. Bred sow sale January 29. Ask for prices and descriptions. N. B. PRICE, Mankato, Kan.

Fall Boars and Gilts Sired by Model Chief and Crimson Burr. Pairs and trios not related. Bred Sow sale at Burr Oak, Feb. 21. DANA D. SHUCK, BURR OAK, KAN.

50 Duroc Bred Sows Feb. 9. Five spring boars for immediate sale. Good. Write for Bred sow catalog. E. A. TRUMP, FORMOSO, KANSAS.

SPRING BOARS for sale reasonable. Write for descriptions and prices. Up to date breeding. Also a few gilts. R. C. MADSEN, JEWELL CITY, KAN.

10 Good Spring Boars priced right to move them quick. JOHN McMULLEN, Formoso, Kansas

40 SPRING PIGS of March and April farrow. Priced to sell. No public sale this season. C. C. THOMAS, WEBBER, KANSAS

BERKSHIRES.

BUY BERKSHIRES FROM BAYERS. They sell SHORTHORN BULLS too. J. T. Bayer & Sons, Yates Center, Kan.

Hazlewood's Berkshires! Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

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 bred outstanding 2-year-old boar and a few good Hereford bull calves. Leon Waite, Winfield, Ks.

Berkshire Pigs

Choice pigs, either sex, 10 to 16 weeks old, sired by ROBINHOOD PREMIER 2d, or Adam, a son of Rival's Lord Premier. Nothing but the very choicest specimens shipped. Price: registered, crated F. O. B. here—one \$20; two \$35; three \$50. W. J. CRIST, Ozawie, Kas.

HAMPSHIRE HOGS.

Hampshire Hogs No stock for sale at present. Wanted: S. S. Hamburg chickens. ROY HAGGART, Mankato, Kansas

SHORTHORNS.

Oscar Green's Shorthorns Popular breeding. Stock for sale. A good herd bull proposition. OSCAR GREEN, MANKATO, KANSAS

POULTRY.

Mammoth White Holland Turkeys Toms \$4.00, Hens \$3.00. Excellent Stock. W. E. MONASMIT, Formoso, Kansas

Wyandotte Cockerels \$1.00 each. 2 Shorthorn bulls, coming one and two year old, \$80 and \$100. 2 Shorthorn heifers, \$75 each. Chicott Poultry & Stock Farm, Mankato, Kansas

White Holland Turkeys White Rocks, White Cochins, Bantams, Pekin Ducks, White Fan Tail Pigeons. Stock for sale. A. T. Garman, Courtland, Ks.

GUERNSEY CATTLE.

Registered GUERNSEY BULL CALVES for sale. Write for description and prices. W. E. EVANS, JEWELL, KANSAS

JERSEY CATTLE.

Jersey Heifers that will freshen in Jan., Feb. and March. Four fall yearlings bred, six heifer calves 10 months old. Write for prices. J. W. Berry, Jewell City, Kan.

D. S. POLLED DURHAMS.

Cows and Heifers also last spring bull calves at \$100 each if sold this fall. R. T. VAN DEVENTER & SON, Mankato, Kansas.

PERCHERONS.

PERCHERON Stock for sale. Always good horses in service. Breeding Farm H. G. MYERS, HARDY, NEB.

AUCTIONEERS.

John Brennen & Son Livestock Auctioneers ESBON, KANSAS WRITE OR PHONE FOR DATES

M. S. HOYT, MANKATO, KAN. Write or phone Livestock Auctioneer for dates.

Frank Regan Livestock Auctioneer ESBON, KAN. WRITE OR PHONE FOR DATES.

Ole Hanson, Livestock Auctioneer Mankato, Kan. Write or phone for dates.

DAN GALLAGHER, Jewell City, Kan. LIVESTOCK AUCTIONEER Write or phone for dates.

HAMPSHIRE.



SPECIAL PRICES on Pedigreed young Hampshire boars, bred sows and gilts. Call on or write, J. F. PRICE, Medora, Kan.

Registered Hampshires Spring boars and gilts priced to sell. Every hog properly vaccinated. C. E. LOWRY, OXFORD, KANSAS

Pure Bred Hampshires Some extra choice, well-bred spring boar pigs for sale. ALVIN LONG, Lyons, Kansas.

But One Hampshire Spring Boar Left Gov. Hodges, out of a General Allen sow and by a son of Gold Gem's Model. FRANK H. PARKS, Olathe, Kan.

POLAND CHINAS.

Polands With Size and Quality Boars and sows for sale, sired by Waechters Referee and King Hadley. Cholera immune. Lambert Bros., Smith Center, Kans.

20 March Boars by Blue Valley Look, King Hercules, Big Ben (Phfander) and Ott's Big Orange, (J. O. James.) Mature dams. J. F. FOLEY, (Norton Co.,) Oronoke, Kan.

Sunny Side Poland Chinas Pigs of September, 1913, farrow for sale. Have sold all my spring boars and bred sows. J. G. BURT, Solomon, Kansas.

KLEIN'S TABOR VALLEY HERD Some choice January Poland China boars by Chief Price 61967. Also two Sept. boars same breeding. Fall gilts, bred or open. Tops of 30 February boars. All out of big mature dams. Satisfaction guaranteed. L. E. KLEIN, Zeandale, Kan.

One Hundred Poland China Sows Pay the price and take your choice. Pedigree and guarantee goes along with the sow. Ben Frank, Jefferson City, Missouri. WRITE IN ENGLISH OR GERMAN

Fairview Herd of Poland Chinas We have a fine lot of bred sows of the same breeding that we sell breeders for herd hogs. First class breeding and a pedigree goes with every sale. P. L. WARE & SON, Paola, Kansas.

EVER GREEN STOCK FARM Offers 20 extra good Poland China bred gilts, 10 boars that will weigh 200 pounds and 60 fall pigs good enough for 1914 prize winners. Extra large type. E. E. CARVER & SON, Guilford, Missouri.

LARGE WITH PLENTY OF QUALITY Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock. Olivier & Sons, Danville, Kan.

ENOS BIG POLANDS Two extra spring boars, 30 large, smooth, bred gilts and 10 extra good bred sows, bred to Orphan Chief and Major Hadley. Write today. A. R. ENOS, RAMONA, KANSAS.

Joe Baier's Polands No boars left. A lot of choice bred sows and gilts at private sale bred to my herd boars. Write for prices and descriptions. J. M. Baier, Dickinson Co., Elmo, Kan.

POLLED DURHAMS.

Sleepy Hollow Polled Durham Cattle Twenty coming one-year-old. Sixty bred cows for sale. A number of good jacks. C. M. HOWARD, FORT SCOTT, KANSAS. Near station Hammon on Frisco R. R.

GUERNSEY CATTLE.

FOR SALE One Guernsey bull coming yearling. One bull calf, 8 weeks old. One young milch cow. Write for description. DR. E. G. L. HARBOUR, Baldwin, Kans.

ABERDEEN-ANGUS.

Angus Bulls and Heifers SUTTON FARM Have 30 splendid heifers and 30 extra good bulls priced to sell. Write us today. SUTTON & PORTEOUS, R. 6, Lawrence, Kan.

Angus Cattle A select lot of ready-for-service bulls for sale, best breeding and right individually. W. G. Denton, Denton, Kan.

HEREFORDS.

Hereford Males for Sale both polled and horns. Strong in Anxiety and Beau Brummel blood. J. C. Hopper, Ness City, Kan.

MEADOWVALE STOCK FARM A few choice young double standard polled Hereford bulls for sale from polled sire and dam. W. W. CHARLES & SON, R. 3, Larned, Kansas.

Clover Herd HEREFORDS Headed by Garfield 4th, by Columbus 53rd. Choice cows from Funkhouser, Sunny Slope, Newman and other noted herds. FOR SALE—Bulls from 6 to 12 months old, at \$75 to \$100 delivered and Curly Tom, a splendid 2-year-old bull, by Mapleton 4th 34849. Also 15 extra good 3-year-old cows, by Garfield 4th, bred to Curly Tom. F. S. JACKSON, Topeka, Kans.

the kind that mature at from 600 to 700 pounds and are sired by the half ton boars that have made this herd famous for bigger Poland Chinas. These sows are bred to Monticello Boy, a first prize Missouri State Fair winner; Giant Prince and to other boars of like merit. It looks to a man up a tree that this sale offers the season's opportunity to make choice selections at prices that will mean big returns on the investment. The catalogs are ready and will be sent upon application by mentioning the Mail and Breeze.

S. E. Kansas and S. Missouri

BY ED. R. DORSEY.

Two big brood sow sales will be held in Jamesport, Mo., February 11 and 12. The first one is H. L. Faulkner's big spotted Poland China sale; the day following, J. A. Porterfield sells Duroc-Jersey brood sows. These sales represent the very best of the two breeds and Jamesport will be full of hog buyers from many states. The admirers of each breed will have a desire to know which will bring the largest average.

Smith's Big Black Jacks.

For a number of years we have desired to see the stable of jacks owned by Al E. Smith, of Lawrence, Kan., as we had seen a number of good jacks that came from this establishment. Last week we called on Mr. Smith and were surprised to find such a beautiful farm and well equipped residence and other farm buildings. At this time he had 88 jacks, all Tennessee bred. They were personally selected and bought by Mr. Smith. Thirty are coming 3-year-olds. Mr. Smith thinks he has one of the best yearling jacks that he ever saw. This jack was good enough to win first prize at the Tennessee State Fair this season. Among the 2-year-olds are a number of extra good ones. We noted one, especially, that is fully 15 1/2 hands high, which we consider as good as any we have seen this year. Taking the stable as a whole, age considered, we think one would be hard to please if he could not be suited with this offering. Mr. Smith also has a fine string of Percheron horses. The smallest one will weigh close to 1,800 pounds and they range in weight up to 2,200 pounds. It is worth one's while to visit Al Smith's and see this good lot of stock. The farm is about three miles west of Lawrence on the California road. If interested in either jacks or Percherons write Mr. Smith or better still, go and visit the farm.

Drybread's Hereford Bulls.

Samuel Drybread, owner of the Star Breeding Farm at Elk City, Kan., is offering 150 Hereford bulls for sale. Mr. Drybread is one of the largest breeders and dealers of this breed doing business. He furnishes the government with bulls. Big ranchmen buy of him by the carload. Just a few days since we had the pleasure of visiting this Star Breeding Farm and while there he was shipping 13 to a man that was there from Colorado and a big ranchman from Texas was there at the same time and was buying 70 head. In fact we have not been on this farm in the bull selling season but what buyers were there at the same time and we visit this farm a number of times each year. Mr. Drybread is a very busy man handling Hereford cattle and Duroc hogs. On March 13 the annual brood sow sale of the Star Breeding Farm will take place.

Howard's Purebred Stock.

C. M. Howard of Ft. Scott, Kan., owner of Sleepy Hollow Ranch, one of the largest cattle ranches in southeastern Kansas, breeds Polled Durham cattle, Percheron horses, jacks and jennets. He has 3,500 acres of very fine farming and grazing land, and several hundred head of cattle, hogs, horses and jacks. At the head of the Polled Durham herd is the popular bred bull, Milton's Beauty, that weighs 2,500 pounds. Mr. Howard bought this bull from one of the leading breeders in Illinois. He will be used on the daughters of Official Duke X4541. S. H. 537030, and other good sires. Mr. Howard will sell 20 young bulls by Milton's Beauty and can spare 25 cows bred to him. He sells every month in the year and could spare a jack or jennets any time as he keeps them on hand to sell. His trade has been growing every year and he has buyers among ranchmen, farmers and breeders; practically all classes of stock raisers. Kindly mention Farmers Mail and Breeze when writing.

Mason's Big Jack Sale.

Thirty-five jacks and jennets will be sold February 6 by Geo. Mason at his breeding farm near Arcadia, Kan., which is on the line between Missouri and Kansas. Mr. Mason is one of the oldest breeders in Kansas and his experience justifies us in saying he knows exactly what he is doing. The old jack breeders in Kansas and Missouri know precisely where to class this offering as it is, without exception, far the best lot he has ever sold. The 35 head were all purchased by Mr. Mason in Kentucky. In examining the pedigrees one will find Star Lights, King Solomon, etc. In fact they trace to the best of Kentucky and Tennessee breeding. These are all young and vigorous jacks from 14 1/2 to 16 hands high and the 20 bred jennets are of the very largest. Jennie Powers actually weighs 1,200 pounds, is 16 hands high, and as good as one ever saw. Kentucky Bell is 15 hands high and wide out. These are just samples of the 20 jennets.

Red, White and Blue Farm Durocs.

J. L. Taylor of Olean, Mo., not only owns the Red, White and Blue Farm but he owns one of the greatest Duroc-Jersey herds, the kind that do not stop with winning ribbons of the national colors but win the purple ribbons as well. In tracing the breeding of these most excellent sows and males used on this farm one would naturally expect this herd to go out and win the above colors in any show in the land. Every breeder believes in the old adage, "Like begets like." If this saying were not true then breeders would have no incentive in following the purebred business, but they know from personal experience that it is true. This fact explains why Mr. Taylor can go out and win with this herd when he has had but three years' experience in the breeding business. This short experience would not have built up such a noted line of winners were it not for his good judgment which prompted him to buy the best. Mr. Taylor readily saw the advantage of mating these great crosses that have produced results. He knew 851,000

Dean's Mastodon Poland Chinas Serviceable boars and bred sows and gilts; I have some 3-year-old sows 65 inches long, bone 8 1/2 in., and 34 inches high. VACCINATED AND IMMUNE. Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Phone Dearborn; station, New Market, and postoffice, Weston, Mo. Address CLARENCE DEAN, WESTON, MISSOURI.

Robinson's Mammoth Poland Chinas! My herd boars weigh from 800 to 1,025 lbs. Now have for sale the greatest lot of spring pigs I've ever raised. Sired by and out of my prize winning boars and sows. Get my prices, description and guaranty. My terms are: If you are not satisfied return the hog and I return your money. F. P. ROBINSON Maryville, Mo.

Blue Valley Breeding Farm

For sale—8 head of registered Hereford bulls large enough for service this coming season. 1 Columbus herd bull coming two years old. 1 No. 1 registered Poland China herd boar and several young boars and gilts; also a fine flock of B. P. Rock Cockerels. I lay everything down to purchaser by pre-paid express and I will make very low prices for quick sale. FRED R. COTTRELL, Marshall County, IRVING, KANSAS

OVERLAND GUERNSEY FARM

THE FINEST HERD OF IMPORTED GUERNSEYS IN THE COUNTRY Imp. Moss Raider, a strongly bred May Rose bull and Imp. May Royal, a line bred Golden Secret, Chief stock bull. Cows and heifers of best imported strains. All cows tested for advanced registry. In order better to introduce the Guernseys in the West, we will make attractive prices on young bulls and cows and heifers, bred and open. Special inducements to new breeders in herd foundation material. If you wish to improve the quality and production of your milk, cream and butter, use a Guernsey sire. Unsurpassed in constitutional vigor, adaptability, and richness of product. Correspondence invited—your personal inspection preferred. Call on or address Overland Guernsey Farm, Overland Park, Kans. C. E. Holmes, Owner. W. C. England, Mgr. Eight miles S. W. of Kansas City on Strang Line. Station on Farm

PEGGY OF OVERLAND (Trade Mark)

A LARGE HERD OF Fancy Grade Holstein Cows

2 to 6 years old, all tested and guaranteed sound, good udders and good teats. If it costs \$50 per year to keep an average cow, she must produce at least 200 lbs. of butterfat to pay her board. If a cow produces 400 lbs. B. F. and her feed bill is \$65 she therefore makes a profit. Why not start now and build up a herd of high producing cows that will make a profit? The average cow milked in Kansas produces something like 170 lbs. B. F. per year, milks in the neighborhood of seven months per year and is a star boarder the balance of the year. Stop this waste, get good high grade Holsteins bred to milk 10 1/2 to 11 months per year and produce 400 pounds or 500 pounds butter fat. The Holstein is the cow for Kansas conditions; hardy nature, large capacity for rough feed, kind and gentle. When dry takes on weight easily. They are large, often weighing 1,700 pounds. There is no better market for the Kansas crops than the dairy route. In no other way can the present high priced feed be turned into as much profit as by the Holstein cow. A good feeder and a conscientious milker. Write or call. W. G. MERRITT & SON, GREAT BEND, KAN.

Lookabaugh's Shorthorns SOLD ON TIME AT PRIVATE SALE

Six or nine months time if desired. What we want is your trial order. Young heifers and bulls at \$75, \$100 and up. Two heifers and a bull, not related, \$200 for the three—Others higher.

High class Herd Bulls, close to imported Scotch Dams, and sired by such sires as Lavender Lord by Avondale. Nicely bred young heifers from milking strains, rugged young bulls, the Farmer and Stockman's kind; cows with calf at foot and rebred. A great variety of prize-winning blood. If you want breeding stock do not miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest nor so many wonderful producing cows of such excellent breeding. Over 200 Head From Which to Select.

Our Shorthorn Bloodlines

HERD BULLS—Lavender Lord, by Avondale Violet Search, by Searchlight. Glendale Pavonia 2nd, 20208 by Scotland's Charm 127264 and out of Imp. Pavonia. Pleasant Jealousy 149476, by Shinston Albino 317105 and out of Maxwalton Jealousy, by Avondale 245144, second dam, Sultan's Jealousy, by Whitehall Sultan 163573, next dam Imp. Jeanie by Count Arthur 144609. Archer's Rosebud, by Lordly Archer and out of Imp. Rosebud 2nd, by Prince Horace 131995. Miss Lancaster, by Mutineer 175547 and out of Golden Lancaster 63573, by Golden Crown 127851. Imp. Mary Ann of Lancaster 7th, by Royal Lancaster 132356. Maxwalton Guindoline 107203, by Maxwalton Sultan 305870 and out of Rose of Lancaster, four crosses from Imp. Guindoline, by Barren Violet 90446. (To be Continued.)

CALL ON OR WRITE

H. C. Lookabaugh, Watonga, Okla.

SHORTHORNS.

Cedar Lawn SHORTHORNS

A fine lot of Scotch and Scotch Topped bulls ranging in ages from 8 to 15 months. Priced low considering quality and breeding.

Also my two-year-old, Big Orange, herd boar at a bargain.

S. B. AMCOATS, Clay Center, Kan.

Shorthorn Cattle

Pure Scotch and Scotch-topped cattle. The milking strain. No nurse cows needed on Oxford farm. Baron Cumberland at head of herd. Six young bulls, six heifers and twelve cows for sale.

DR. W. C. HARKEY, LENEXA, KAN.

Pearl Herd of Shorthorns

About 20 choice young bulls, spring calves. Either Scotch or Scotch Topped breeding. Well grown and in good growing condition.

C. W. TAYLOR ABILENE : : KANSAS

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 Young bulls ready to ship. Cows and heifers for sale. Best of breeding. Write, or better come and see. CHAS. MORRISON & SON, Phillipsburg, Mo.

RED POLLED CATTLE

Choice Young Bulls. Several good enough to head good herds—heavy boned, broad headed, breedy kind. Show prospects. Also a few cows and heifers. Visitors welcome. Call or write. I. W. FOULTON, Medora, Reno Co., Kan.

DAIRY CATTLE.

HOLSTEINS Large type. State inspected and tuberculosis tested. Fine registered bulls, cows and heifers; also 100 grade ones and heifers. M. F. KAUSEN, Concordia, Kan.

FOR SALE—5-Year-Old PURE BRED JERSEY BULL. Also two bulls of this grade. L. P. CLARKE, RUSSELL, KANSAS.

We Will Have a Car Load of High Class, Heavy Springing Grade Holstein Cows For Sale at Manhattan, Kan., during the week of the Farmers Short Course, at the Kansas State Agricultural College. Arnold & Brady Manhattan, Kans.

Young Jersey Bulls for Sale By sons of champion Flying Fox and Financial Countess Lad; also by a grand son of Gamboge's Knight. All out of high testing cows. W. N. BANKS, Independence, Kansas.

HOLSTEINS—CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

LINSCOTT JERSEYS Only Register of Merit herd in Kansas. Choice heifers and cows at \$100.00 and up. Bulls \$50.00 to \$150.00. Breeding and individual quality the very best obtainable. R. J. LINSCOTT, Holton, Kansas

Bonnie Brae Holsteins For sale, about 80 head of high grade young cows, 2-year-olds and bred yearlings. These cattle are strictly first class, with many heavy springers. Also young bulls both registered and high bred. Come and see them. IRA ROMIG, Sta. B. Topeka, Kan.

Oak Hill Holsteins Bulls ready for spring service by Shadybrook Gorden Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculosis tested. Absolute satisfaction guaranteed. State your wants fully in first letter—I can fill them. BEN SCHNEIDER, NORTONVILLE, KAS.

SOMMER--BLADS GUERNSEYS! TUBERCULIN TESTED. Headed by Goodwills, Raymond of the Preel, son of Imp. Raymond of the Preel. Grade and registered females for sale, also registered bulls. ERNEST KENYON, Nortonville, Kansas

PUREBRED HORSES. A. M. DULL & SON'S PERCHERONS Two two-year-old black stallions for sale, sired by Black Diamond, of brilliant breeding. Extra size, bone and quality, with style. For information, prices, etc., address, A. M. Dull & Son, Washington, Kan.

circulation in the Capper Farm Papers would bring him hundreds of inquiries about such a good herd and he knows how to close a deal. These are the reasons that he is selling Duroc hogs in many states.

Combination Jack Sale.

Col. C. E. Robbins of Butler, Mo., writes that the inquiries concerning the Bates County Jack Sale Company's March 4 sale are coming in from all quarters. He says there will be no trouble in getting the 50 jacks and jennets to make this sale. As soon as these 50 entries are made entries will close and the work on the catalog will begin. The time set for closing these entries is February 4, one month before the sale. The managers of this company are going to give the sale wide publicity. They are using Farmers Mail and Breeze, Missouri Ruralist, Oklahoma Farmer, Nebraska Farm Journal and Missouri Valley Farmer, the five Capper Farm Papers. This combination of papers gives the advertiser the advantage of 350,000 circulation. In addition to these papers two other papers will be used. This will be the best advertised sale of its kind ever held. The company have figured all the costs for making the sale and every contributor will know when he makes his entry what it will cost him to have his animal sold. All information concerning the sale may be had by writing either of the sales managers, Charles Argenbright or C. E. Robbins, of Butler, Mo.

Bayless's Big Percherons.

Just a few days ago we called on W. H. Bayless & Co. of Blue Mound, Kan., importers of Belgian and Percheron stallions and mares, and as we have often said before we never saw a better lot for the number in any stable. If one has any prejudice against the big Belgian mares it would knock a hole clear through it if they would happen to see a carload of these great big fine animals all running out in a bunch as we viewed them on our last visit. Ten and 2,200 pound stallions are not scarce in this stable. I don't think I ever saw a prettier sight than the lot of good mares just mentioned. While there were two prospective buyers, one from Oklahoma and one from Arkansas, both expressed pleasure in finding the best lot of both stallions and mares they had ever seen. We believe this importer has just as good if not a little better than when he cleaned up everything at the American Royal in 1911. Certainly Mr. Bayless has both the ability and money to buy as good in Europe as can be bred. He is selling a \$3,400 horse for about \$1,200; that is we refer to the company organization when we say a \$3,400 horse. This company buys for spot cash and is selling on a close margin.

Godman's Big Stock Sale.

We hope it will not be too personal to give a little of the life history of Jas. Godman, of Devon, Kan., now one of the leading jack men of not only Kansas but of any other state. Mr. Godman was a poor boy, born in Kentucky and later lived up in northern Missouri and 15 years ago was a farm hand, later cut and hauled cord wood for a living and now he owns four farms. He was a good hired man, a good rail splitter and now he comes before us as a stockman of Kansas located at Devon and we are proud of him. We have visited his farms a number of times and we are always pleased to look at his stock. About three months ago he had a \$4,500 farm sale and on February 7 Jim Godman of Devon, Kan., will sell as good a bunch of jacks as money will buy anywhere. He will also sell 10 head of mules and 18 high grade brood mares that will weigh from 1,600 to 1,900, all bred to his jacks. He will also sell 100 cattle just to help make a big sale. Devon is 12 miles northwest of Fort Scott, Kan., and Mr. Godman has arranged with the Missouri Pacific people to run a special train up and back to meet all trains on the Frisco and Katy and regular trains of the Missouri Pacific at Fort Scott. This is the way Godman does business and those attending this sale will see more people than they ever saw at a sale in Kansas. They will see five registered Percheron stallions sell that are as good as can be found. One imported Belgian, imported last winter, by W. H. Bayless of Blue Mound, Kan.

Publisher's News Notes

Serum Does the Work.

Nearly 200 veterinarians met last week in Indianapolis. Dr. A. F. Nelson, state veterinarian for Indiana, said he believed the only safe and certain way to drive out hog cholera was by the correct use of serum. Veterinarians, he said, must co-operate with farmers in this work. The entire convention spent a day at Zionsville, Ind., in the biological laboratories of the Pitman-Myers Company, large manufacturers of serum, where they saw the serum made and tested before going to the sales department.

If you need anything not advertised in this issue of Farmers Mail and Breeze, write us and we'll tell you where you can get it.

Farmers Mail and Breeze Pays Advertisers.

Capper Publications, Topeka, Kan. Gentlemen—We had a splendid boar trade and the Capper Publications brought the buyers. We have a large number of bred gilts for sale but the way orders are coming in at this time would indicate that we will be unable to supply the demand. Yours very truly, F. C. CROCKER, Breeder of Duroc-Jerseys, Filley, Neb., January 2, 1914.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I recently sold by advertising in Farmers Mail and Breeze, a farm in Wabaunsee county, Kansas, for \$41,600, and I shall continue to advertise in the Capper Publications. Yours very truly, T. J. RYAN & CO., Dealers in Real Estate, St. Marys, Kan., January 2, 1914.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.

One Hundred Head of JACKS AND JENNETS Home of the giants; the big, thick, big boned and big footed kind. We breed and raise most of our jacks. We handle the largest jacks and jennets on earth. BRADLEY BROTHERS, WARRENSBURG, MISSOURI.

AMERICA'S FAMED HORSE DISTRICTS

This particular district famed for Percherons. The Chandler herd is known for draftiness, substance and bone. Big bunch registered studs for sale, yearlings to fours, with weight and finish equal to the French. From imported ancestry on both sides and well grown. Grown here simply means surest foal-getters and farmer's prices. Trains direct from Kansas City and St. Joe. FRED CHANDLER, ROUTE 7, CHARITON, IOWA.

Bergner & Sons' German Coach Horses

German Coach Stallions at prices you will be able to pay for at one season's stand. Also mares and fillies; all good bone with plenty size, style and action and the best general purpose horse that has ever been imported. The St. Louis Fair Champion Milon 3159 and the Kansas State Fair prize winner Mephistoles 4221 at head of herd. We are pricing these horses to sell and guarantee satisfaction. Write today or call soon. J. C. BERGNER & SONS, Waldoek Ranch, PRATT, KANSAS.

Johnson's Shetland Pony Farm

Write me regarding Shetland Ponies. I have for sale 40 to 50 head of fine ones, spring colts, yearlings, coming two and matured stock. Registered mares or stallions. My herd runs strong to spotted, black and white, and I have Nebraska State Fair winners. Let the children have a pony. My prices are reasonable and every pony is guaranteed as represented. Write me now while I have a fine offering of spring colts on hand. H. H. JOHNSON, CLAY CENTER, NEBRASKA.

Imported Percheron Stallions

Each year I select 35 or 40 horses in France, so good and so correct in type, that any one of them will prove a great benefit to the man who buys him. I have a new lot now. At the Shows of the Southwest Circuit, our horses won every Championship and every Group of Five in 1913, as they have done most of the past five years. Our horses are handsome—our contract just and right—our insurance the very best. Come or write.

PERCHERON IMPORTING COMPANY Charles R. Kirk, St. Joseph and South St. Joseph, Mo.

Blue Valley Stock Farm

Largest importers of high-class Belgian Draft Horses in the West. Prize-winners in Europe and America. Sound, acclimated and ready for service. Our American-bred stock goes back to the blood of BRIN D'OR or his descendants. Lowest prices and safest guarantee of any firm in the business. Also a few extra good Percheron stallions. Come and see us, or write. W. H. Bayless & Company, Blue Mound, Linn County, Kan.

Percherons and Belgians

The best lot of imported two and three-year-olds in the West. Am going to sell them down very reasonably and give an absolute gilt-edged guarantee good two years. Come and see them. Dr. W. H. Richards, Emporia, Kansas Barn, 4 blocks from A. T. & S. F. Depot.

54-Percheron Stallions-54

We have fifty-four as good Stallions as can be found in any herd from coming two year to five-year-olds. We can sell a better and bigger stallion for the money than any firm in the business. We fully guarantee every stallion. Write us what you want. BISHOP BROS., Towanda, Kansas Towanda is 22 miles east of Wichita on Mo. P. Ry.

Robison's Percherons

175 Head on the Farm. Stallions and Mares all ages for sale. Herd headed by the Champion Casino 27830 (45462). Send for farm catalog. J. C. ROBISON, Towanda, Ks.

STALLION and JACK SALE

Concordia, Kansas, February 4, 1914

Consisting of 3 draft, 2 standard bred, and 1 Coach stallions; also 7 good sound jacks, from 2 to 9 years old. The kind that get the high priced mules. All guaranteed sure foal getters and quick workers. I have handled this stock myself and know them to be money makers, but am knocked out with rheumatism. Write for particulars. Terms, cash or 18 months' time, approved note, 8 per cent int.

LEWIS J. COX, Concordia, Kan. Auctioneers—Col. W. Godby, Blackwell, Okla. Col. G. B. Vanlandingham, Concordia, Kans.

PUREBRED HORSES.

Home-Bred Stallions \$250 to \$650.
 Imported Stallions cheaper than any firm in Creston. A. Latimer Wilson, Creston, Iowa.
Imported Percheron and Belgian Stallions, Home-bred Stallions. \$275 to \$600. Frank L. Stream, Creston, Iowa.

Excelsior Shetland Pony Farm
 Registered and High Grade Ponies for Sale
W. H. Fulcomer
 Belleville, Kan.



Dispersion Sale

Percherons, Jacks and Holstein Cows
 One black Percheron stallion 8 yrs. old, wt. 1900 lbs.; one dark bay colt 3 yrs. old, wt. 1900 lbs.; one dark bay imported German coach stallion 8 yrs. old, wt. 1600 lbs.; one Standard bred stallion, Pactolus Ellwood No. 50245, wt. 1330 lbs.; one black mammoth bred Jack, 15.2, (4 yrs. old) wt. 1100 lbs.; one black Jack 5 yrs. old, wt. 1000 lbs.; Four young Holstein cows, all giving a big flow of milk and all gentle. My reason for selling these cows is that I am going to build up a pure Guernsey herd.
O. L. THISLER & SONS, CHAPMAN, KANS.

Imported Stallions

Percheron and Belgian, also Percheron and Belgian mares, and a few registered jacks. These horses were prize winners at Topeka, Hutchinson, and American Royal, including grand champion and reserve champion at each show, winning 23 first and champion ribbons, three Gold Medals, and two Silver medals. These prize winners and others for sale and can be seen at my farm 7 miles N. W. of Alma. Reference my bank in Alma or Wamego. Choice White Holland turkeys, toms or hens.
LEW JONES, R. R. No. 1, ALMA, KANSAS.



Stallions

2 BLACK PERCHERONS.
 1 BLACK PERCHERON, 2-year-old.
 2 STANDARD BRED TROTTERS.
 1 NON-STANDARD TROTTER.
 1 JACK.
 High class individuals, no better sires in Kansas. Their colts tell the story. We are closing out our stallions and are pricing them cheap.
Sutton Farm, Lawrence, Kan.

JACKS AND JENNETS.

REGISTERED, BIG BONED, black Jacks and Jennets.
 Fine individuals, best breeding.
 PRICE AND TERMS RIGHT.
J. H. Smith, R. R. 3, Kingfisher, Okla.



Kentucky Jack and Percheron Farms

200 head of big bone, Kentucky, Mammoth Jacks, Percherons and saddle horses. Special prices in half car and car load lots. Write your wants or visit our farms. 2500 bushels of bluegrass seed. **Cook & Brown, Props., Lexington, Ky.**

Forty Years a Breeder of High-Class Jacks

We have for sale twenty jacks of the big blocky type, also ten very large, well bred jennets. **R. M. JOHNSON, BOLIVAR, MO.**

One Belgian Stallion One Jack, 3 years old

3 yearling jacks, and 8 jennets, 2 to 8 years old, all bred and good ones. Write me for prices.
C. T. BERRY, Parsons, Kansas



JACKS and JENNETS

50 large boned, black Mammoth jacks, 15 to 16 hands, standard. Guaranteed and priced to sell. The kind all are looking for; also good young Percheron stallion. References; 5 banks of Lawrence. 40 miles west of Kansas City, on Santa Fe and Union Pacific.
AL. E. SMITH, Lawrence, Kan.



Jacks and Jennets

25 head of Black Jacks from 14 1/2 to 16 hands coming 3 to 6 years old; all stock guaranteed, as represented when sold. Also some good jennets.
PHIL WALKER
 Moline, Elk County, Kansas.



Big Black Missouri Jacks

Ten head of large, well bred, registered jacks and ten jennets. All of my own breeding. A genuine guarantee goes with each and every sale. Can furnish more if necessary.
HENRY OBERMANN, Freistatt, Mo.
 8 Miles N. of Monett.



Boen's Big Bone Jacks

They are from 15 to 16 1-2 hands high. Forty jacks and jennets of the best and biggest on earth. Four three-year-old jacks larger and better than ever before. The two-year-old jacks are larger than thousands of grown jacks. Four-year-olds 15 3-4 hands to 16 1-4 hands, standard and weigh from 1100 to 1300 pounds. All have plenty of bone. Will sell jacks for \$300 that can't be bought elsewhere for \$1200. **ED BOEN, LAWSON, MISSOURI.**



These Farmers Get Results

(Continued from Page 16.)

able manure is being shipped from the Kansas City stock yards. An agitation started by the Leavenworth people had much to do with getting lower freight rates on manure in carloads from Missouri river packing centers.

Especially good results have been obtained by the use of cowpeas as a green manure crop. Roy Murry, near Leavenworth, planted cowpeas after wheat in the summer of 1911, on a part of a field. He plowed them under and sowed all the field again to wheat. It usually is difficult to get a good seedbed after cowpeas, but the yields were higher. The green-manured section made 23 bushels, while the remainder of the field averaged but 17 bushels. Harris Brothers had an even greater difference; the manured section making 29 bushels, while the part that had grown no cowpeas made but 19 bushels. A test on rye gave a difference of about five bushels an acre between the two treatments.

Considerable wheat is grown in Leavenworth county; in fact the acreage last year was as high as the corn acreage, it being 46,000 acres in both cases. There is 161,000 acres of cultivated land in the county. The proportion of grain is rather high to that of other crops, but with the increasing interest in legumes it is probable that this fault will soon be corrected. The county has more than 150 silos, almost as many as there were in Kansas four years ago. About 50 of these silos were built this year.

Mr. Ross spends at least five days a week in the country; he usually is in his office Saturday. From February 1 to November 22 he traveled 3,450 miles, mostly with a team. He usually visits several farms a day. In this time he held 49 meetings, with a total attendance of 3,940. Mr. Ross is a Jewell county man, and a graduate of the Kansas Agricultural college.

No Dual Purpose Animals

(Continued from Page 17.)

Breeders' association. Mr. Terry is prominent in the A. H. T. A., having been a member of the state executive committee for seven years. He has been district president of the Saline county organization for eight years and has served 26 years as president of Salina Sub-order No. 281. A. H. T. A.

C. S. Nevius of Chiles, was elected vice-president and George C. Wheeler of Topeka, secretary-treasurer. The directors are Clarence H. White, Burlington; O. O. Wolf, Ottawa; E. W. Rankin, Topeka, and Pearl Padgett, Beloit.

Feterita Seed.

Mr. Editor—I have good, pure feterita seed for sale at \$3 a bushel, f. o. b. my station. This was grown away from any grain of its nature that it could mix with, and has been hand threshed and cleaned. It had no rain on it since it was gathered and only one or two showers while it was growing.
 Tyrone, Okla. S. A. Bauersfield.

Seed Corn For Sale

Mr. Editor—I have 2,000 bushels, 1912 seed corn, guaranteed to germinate; F. O. B. Troy, sacks free, \$2 a bushel in five-bushel lots; \$2.25 a bushel in smaller lots.
 Troy, Kan. J. F. Moser.

Hay—Hay—Hay

Mr. Editor—I have 30 or 40 tons of good hay that I will bale and put on the cars. Write for prices.
 Otis Siglinger.
 R. 1, Bx. 10, Tangier, Okla.

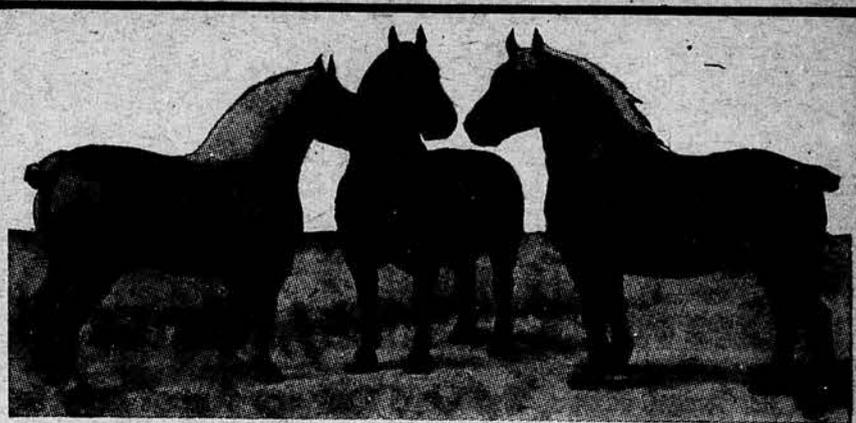
Alfalfa Hay for Sale

Mr. Editor—I have several cars of good alfalfa hay to sell. Want \$13 a ton f. o. b., Coolidge, Kan.
 Coolidge, Kan. J. W. Egger.

Corn Fodder for Sale.

I have 30 tons of bright, shredded corn for sale at Carterville, Mo., not far from the Kansas line.
 R. 2, Lamar, Mo. John Dryden.

We could not get along without the Mail and Breeze for double its price.—George Schaefer, R. 1, Bremen, Kan.



125 Stallions and Mares Percherons, Belgians and Shires

The West's Largest Importing and Breeding Establishment

More actual ton stallions at my Emporia Sale Barns than any other in the West.

Do You Need a Stallion?

I will save you from \$100 to \$200 on a horse. Am making special prices to make room for another consignment. Look at all the horses you can before coming and then you will know you are getting more for your money than any other offer—more bone, size and quality, for the money. I do an exclusive horse business and to stay in business must satisfy my customers. Therefore a gilt-edge guarantee goes with every horse. Come and stay with us a day or two and compare my horses and prices with those you have seen. Drop a line and tell me when to meet you. Barn close to Santa Fe depot.

L. R. WILEY, Rt. 9, Emporia, Kan.

A Great Sale of Jacks and Jennets, Cattle, Horses and Mules

Kiowa, Kan., Thursday, Jan. 29, 1914

commencing at 10 o'clock A. M., promptly.

37 Jacks and Jennets

22 Jacks ranging in age from weanlings to 8 years old. 9 head coming three years old; 6 head coming 2 years old; 5 weanlings, one herd jack, black, mealy points 16 1/2 hands high, very heavy boned, good as can be found anywhere. One 5 year old brown jack, 15 1/2 hands, a good one. 15 jennets, all young and in foal. One jennet with jack colt by side. 20 head of mules, weanlings to 7 years old.

25 Head of Horses

consisting of some good, heavy mares in foal to jack, and some well-broke driving mares. One registered trotting bred mare, four years old, a fine single driver. One fine family mare, 5 years old, weight 1,200 and safe for any lady. Some nice yearling and 2 year old colts. One registered trotting bred stallion, 3 years old, black, weight 1200, well broke, a good single driver. He is by Thornfield, with a mark of 2:10 1/2, is a beauty, and a fine prospect. One registered Percheron stallion colt coming two years old, fine and very large, sire and dam both imported, is one of the best colts you will find for his age.

95 Head of Cattle

15 Head of Jersey Cows and Heifers, all purebred stock, but not registered. 10 head of calves, 70 head of 2 year old steers, all native stock and a nice bunch.

NOTICE: Will keep steers on wheat at regular price per month, if desired by buyer. Sale at farm 1/2 mile from town. Free automobile conveyance.

L. N. GREEN, Kiowa, Barber Co., Ks.

Auctioneers—Cols. Pete Powelson, Bob Harriman and Jno. Snyder.

Carter's Big Dispersion

60 Immune Duroc-Jersey Bred Sows

Asherville, Kan. Friday, February 6

12 Tried Sows, the kind that are found only in dispersion sales. As producers of big even litters and as individuals these sows challenge any like number ever sold at auction, in this section. They are daughters of Col. Gano, Waveland Col., Buddy K. 4th, B. & C.'s Col., and others.

12 Fall Yearlings that are big and the kind the breeders are looking for.

36 Early Spring Gilts that are the tops of a big crop of spring pigs.

The fall and spring gilts are out of the grand good sows offered in this dispersion and are from big litters and the best evidence of the worth of the sows offered. They were sired by Dreamland Col., by Waveland Col., Riverbend Col., by Muncie Chief and L. C.'s Defender, by Defender. These herd boars will be sold in this dispersion.

I am also selling in this sale a lot of nice thrifty fall pigs of both sexes sired by these boars and out of good dams.

Leon Carter, Asherville, Kan.

Auctioneers—John Brennen, Will Myers, W. C. Curphey. Fieldman—J. W. Johnson.

Howell Bros., Herkimer, Kan., Sell 50 DUROC-JERSEY BRED SOWS AND GILTS

at auction at their farm five miles from Herkimer, on the Grand Island R. R., and five miles from Marietta, on the Blue Valley Branch U. P.,

Tuesday, Feb. 3, 1914

The offering is one of unusual merit and will prove one of the best that will be sold in the West this winter.

15 spring and summer yearlings that have farrowed one litter each, 5 great fall gilts and 30 spring gilts, the tops of 55 head, make up the offering. The spring and summer yearlings are by Joe's Pride, Wide Awake Lad and Howell's Model. The spring gilts are mostly by Joe's Pride.

The catalog is ready and will be sent upon request by return mail. Address

HOWELL BROS., Herkimer, Kan.

Free transportation from stations to the farm and return. Sale in comfortable quarters.

Auctioneers: R. L. Harriman, Jas. T. McCulloch, F. E. Kenney. J. W. Johnson, Fieldman.

BRED SOW SALE Duroc Jerseys MONDAY, FEBRUARY 9

The offering consists of 40 early spring gilts, two choice tried sows and three young boars.

The 40 spring gilts are well grown, best of colors and have bone, quality and finish. They were sired by Defiance 2nd, Red Bobby, Model Top, Rambler's Wonder, 2nd Climax, and B. & C.'s Col. Chief. They are bred to B. & C.'s Col. Chief, Defiance 2nd and Chief Model Top. The tried sows are of choice breeding and good individually. They are bred of early spring farrow and are good producers. The dams of the gilts are my choice herd sows of popular blood lines and have been bought and reserved because of their ability to produce the kind that make up my offering of gilts this season. I believe these gilts to be as good as will go through a sale ring this season. Catalogs are ready to mail and will be sent upon request and by return mail. Sale in town. Free hotel accommodations for breeders from a distance. Address,

E. A. Trump, Formoso, Kan.

AUCTIONEERS—John Brennen, J. A. Howell.
FIELDMAN—J. W. Johnson.

J. H. Hamilton & Son's 10th Annual Bred Sow Sale of Big Smooth

POLAND CHINAS

Guide Rock, Neb.

Tuesday, Feb. 3, 1914

The offering numbers 35 head of choice bred sows and consists of 15 fall yearlings, 10 tried sows and 10 picked spring gilts. The tried sows are big, smooth individuals in the prime of usefulness and two of them are by Choice Goods. The others are of popular blood lines and worthy in every respect. The 15 fall yearlings are by Long Boy 3d, by Long Boy 2d (Peter Mouw breeding) and will be found one of the best lots of young brood sows offered this winter. The 10 spring gilts were sired by Referendum Jr., by Referendum, a prominent herd boar. They are well grown and extra choice. The entire offering will be found in perfect breeding form and immune. Everything bred for spring farrow to our herd boars.

Sale in town in comfortable quarters. Free hotel accommodations. Write for catalog which is ready to mail. Address

J. H. HAMILTON & SON, GUIDE ROCK, NEB.

Auctioneers: John Brennen, G. G. Denny, R. Peters. J. W. Johnson, Fieldman.

SHORTHORN BULLS: THREE 12 MONTHS OLD BULLS, GOOD ONES, Sired by the pure Scotch Bull, Red Monarch listed in the catalogue.

Northern Kansas Duroc-Jersey Bred Sow Sale Circuit

150 Immune bred sows from three prominent herds. Good morning and evening train service. Catalogs ready. Attend the three sales. John W. Johnson, Fieldman

W. E. MONASMITH'S BIG REDUCTION SALE

IN HIS OWN SALE PAVILION AT HIS FARM TWO MILES NORTH OF FORMOSO, KAN., THURSDAY, JANUARY 29.

THURSDAY, JANUARY 29. The first sale in the circuit and free conveyance to and from the sale. 10 TRIED SOWS, 12 FALL GILTS AND 30 SPRING GILTS

With much regret it has been decided to sell in this sale the great breeding boar Kansas Special and his assistant, Col. Gene. Kansas Special is one of the most popular herd boars in northern Kansas and is just in his prime. He should have been at the shows last season. Col. Gene is a coming sire of real merit.

The sows and gilts are all bred for March and April farrow to these boars. Of the 30 spring gilts three are by Kansas Special, seven by Col. Gene, three by Dreamland Col., 12 by L. C.'s Defender, three by College Boy 2nd, and two by Riverbend Col. Eight of the 12 fall gilts were sired by old Bonney K. The 10 tried sows are of the best of popular breeding and right in every way. Catalogs ready now. Address

W. E. MONASMITH, Formoso, Kansas

AUCTIONEERS—John Brennen, Ned Price.

FIELDMAN—John W. Johnson.

N. B. PRICE'S DISPERSION OF TOPS

AT MANKATO, KAN., UNDER COVER, FRIDAY, JANUARY 30

Mr. Price is leaving the farm which he has been operating for a number of years and for this reason is dispersing his entire herd. The heaviest buyer of top Duroc-Jersey bred sows at public sales and at private sale last winter was N. B. Price and the tops of the entire herd go in this dispersion sale. There will be seven tried sows (the tops of 20 head), a number of fall gilts and 21 winter and spring gilts.

Three Great Herd Boars Included in the Offering

These herd boars represent the leading families of Duroc-Jerseys and are individuals of merit. They have been purchased with care and at great expense to use in this herd. They go to the high bidder without reserve.

The sows and gilts in the sale, as has already been stated are the tops of the entire herd. They have been carefully conditioned and bred with a view to their future usefulness and make up one of the strong offerings, both in breeding and individual merit, of the season. Catalogs ready now. Address

Auctioneer—John Brennen.
Fieldman—John W. Johnson.

N. B. PRICE, Mankato, Kansas

Draft Sale of Immune Duroc-Jersey Brood Sows

From the R & S Farm, January 31, 1914, Smith Center, Kansas

This sale will consist of 60 head of bred gilts and tried sows that are of unsurpassed breeding and quality from the Golden Model, Crimson Wonder, and Colonel families.

At the head of our herd we have R. & S. Crimson Wonder, sired by Crimson Wonder Again and out of a Valley King Dam; Model Hero, a half brother of the noted sire Golden Model 2nd, sired by Golden Model Col. Muncie, sired by Dreamland Col., out of a Muncie Chief Dam.

This consignment represents the seven years' experience of selecting and mating for a better production, and we believe that we have accomplished a great deal along this line. We will say that this is the best lot we have ever put through the sale ring, and will be the best lot of this number that will be sold in Kansas this year, they are all uniform in the dark cherry color, the best feet and bone, extra length, fine head and ear and the high arched back.

We have fought the battle through this season's high prices of feed and have immuned our entire herd, and have selected and kept this royal lot of seed hogs and will carefully feed them up to the near spring pasture for you. We want you to come and see this offering and you will have your "Hats Off" to a good lot of useful sows, and we want you to make us some liberal bids.

If you can't attend the sale write for catalog and send your bids to the fieldman and he will see that you get what you want.

Sale will be held at the Fair Grounds adjoining town. Catalogs ready.

AUCTIONEERS—Col. Jno. Brennen. Col. N. B. Price.
FIELDMAN—J. W. Johnson.

RINEHART & SON, Smith Center, Kansas

Pleasant Valley Stock Farm Seventh Annual Sale

Devon, Kan., Saturday, February 7, Beginning at 10 A.M.

(Devon is twelve miles N. W. of Ft. Scott, Kans. Special train leaves Ft. Scott in time for the sale and returns to meet all trains on the Katy, Frisco and main line of the Missouri Pacific.)

I will sell five imported and American bred Percheron stallions, and one imported Belgian stallion, imported last January, by W. H. Bayless & Co., of Blue Mound, Kan. Everyone of these are first class and guaranteed.

TWELVE STRICTLY HIGH CLASS BIG BONE JACKS AS GOOD AS EVER WENT THROUGH A SALE. No better bred in America.

TWENTY HIGH GRADE PERCHERON MARES, ALL BRED TO MAGRUDE'S QUANTRELL Vol. 2 A. J. R. (50536), one of the best jacks in the whole country. A jack that I sold for \$1,500 this fall.

JONITHAN 7366, the imported Belgian stallion weighed 1825 lbs. in breeding shape. This is a great horse and right every way.

LAMONT 75653 P. S. B., foaled May 18, 1904, bred by E. T. Philpott of Iowa, weighs 2000 lbs.

TEDDY (register number will be furnished) foaled April 19, 1910, bred by Ira K. Kinnie, Hamilton, Mo., sired by Arlilan 45654 by Casino 27836, tracing to Brilliant and Cocoa on paternal side, out of Bessie K. 47338, by Quaker 14205 and tracing to Brilliant-Cocoa 11th and to Blucher, on the maternal side.

All of these stallions except one are under five years old. Pedigrees of the jacks and stallions may be seen by sending for a catalogue.

J. A. GODMAN, Devon, Ks.

P. S. I will sell one hundred head of cattle beginning at 10 o'clock a. m., and ten head of as good mules as can be found.

Get Your Cream Separator NOW



Most Women Prefer the New Butterfly; It's so easy to clean.

Here is the opportunity you have been waiting for—a chance to get one of these big-capacity, light-running, easy-cleaning, close-skimming New Butterfly Cream Separators without taking the money out of your pocket.

By paying only \$2 down, you can get the biggest machine we make, use it 30 days free, then if you decide to keep it pay us the rest of our low factory-to-farm price (only \$24 and up) in small, easy installments. You can make these payments monthly out of the extra cream profits which the machine will save for you. You buy direct from the manufacturer and save half. You try the machine 30 days on your own farm before you decide to keep it. You get a signed lifetime guarantee. You have the benefit of this great labor-saving machine while it is earning its own cost and more. You don't risk a single penny. We pay the freight both ways if the separator fails to please you. Get your separator NOW at factory prices and on terms so easy you won't feel the cost at all.

New Butterfly Cream Separators

will make you \$10 to \$15 a year more profit from every cow you own. They are handsome, high-grade, durable machines. The most modern and convenient separator you can buy. No other separator costs more to make, has so many patented improvements or gives you as much value for your money. We will prove this on your own farm, or no sale. Thousands are in daily use all over the United States. Read the letter at right.

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Lifetime Guarantee

Fill out the coupon below—mail it to us right away for free catalog folder. Get our big special offer on the five sizes of machines we make, so you can pick out the one that exactly suits your requirements. We will ship it to you on our easy payment terms of only \$2 down and let you try it 30 days on your own farm. When the 30 days are up, if for any reason you are not pleased—if you don't prefer the New Butterfly to any other separator you ever saw or used—just return the machine to us. We will pay the freight both ways and refund your first payment. You won't be out a single penny.

Every New Butterfly Separator is guaranteed against defects in material and workmanship, regardless of how many years you have used it. No other separator manufacturer will give you this signed lifetime guarantee.

Mail This Coupon Today

Albaugh-Dover Co., 2183 Marshall Blvd., Chicago, Ill.

Gentlemen: Please send me at once your big colored Catalog Folder, with full description, illustrations, factory prices and self-earning, easy-payment terms on the New Butterfly Cream Separator. I keep _____ cows.

Name _____
Postoffice _____
R. F. D. _____ State _____

guaranteed a lifetime. Note these special features: No disks to wash and rust out. The New Butterfly Skimming Device is complete in one piece—made of aluminum—the "everlasting," easy-cleaning metal. Shelby Seamless Steel Bowl—phosphor bronze bearings, vertical shafts, adjustable cream platter, ratchet crank, self-draining bowl, low-down self-draining milk supply tank, closed bottom, open milk and cream spouts, oil-bathed ball-bearings, and many other exclusive features.

Our Big Illustrated Catalog Folder tells all about this wonderful machine, contains letters from many users, shows large colored illustrations, pictures the machine in use; shows how every part is made, and tells you all about our factory-to-farm self-earning separator plan. Fill out the coupon at left—mail it to us today for the Free Catalog Folder and BIG SPECIAL OFFER.

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Albaugh-Dover Co., Chicago, Ill.
Gentlemen: The New Butterfly Cream Separator works fine and we are well pleased with it in every respect. We are especially pleased with its light running and easy cleaning. It is the easiest cleaned machine in the neighborhood, and there are all kinds here. Yours truly,
CHARLES BONHAM.
R. No. 6, Harrison, Ohio

No. 5 1/2
One-Piece Aluminum Skimming Device
Frictionless Pivot Ball-Bearings; Open, Easily-Cleaned Milk and Cream Spouts; Self-Draining Bowl and Tank.

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—according to size. We make two styles and five sizes of the New Butterfly Separator. Our Free Catalog Folder describes all of them. Every machine we build is beautifully finished throughout and