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# *The* FARMERS MAIL AND BREEZE

Vol. 46.

January 22, 1916

No. 4.



## Winter's The Time For Plans

Common Sense, Moderate-price Improvements for the Farms, Shown in Special Articles in This Issue:

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The Lumber to Buy

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Gates and Other Things  
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This number also contains special correspondence, written by farmers—on their farms—in the South, extreme East, the West and the Central parts of Kansas. No better news from the grass-roots is written than that sent in by Harley Hatch, Lee Gould, Harry Huff and Robert McGrath.

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# THE FARMERS MAIL AND BREEZE

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## LEGUMES AND A LARGER PROFIT

By F.B. NICHOLS, FIELD EDITOR

**T**HE NEED for a larger acreage of the legumes in Kansas is connected closely with increasing the profits from farming. This increase is important because these crops have a beneficial effect in conserving soil fertility, in helping the livestock industry and also because they usually will produce a larger acre profit than grain crops. Alfalfa, Red and Sweet clover and cowpeas are the leading legumes for Kansas, and there also are a few minor varieties such as White clover that may be grown profitably under some conditions.

Fortunately there has been a very encouraging increase in the acreage of some of these crops—alfalfa for example. Kansas now is growing about 1,200,000 acres of alfalfa, which is one-fifth of the acreage in the United States, and far more than in any other state. This increase in the acreage of alfalfa has been very rapid; in 1891 the state grew 34,384 acres of this crop, while in 1914 it had 1,193,641 acres, which was an increase of 3,371 per cent.

Alfalfa is very generally adapted to the soil conditions in this state, and a greater increase is needed with this crop than with any other legume. However, there are places in this state where some of the other soil improving crops will grow better, and therefore there is an important place for the clovers and cowpeas. This is especially true in southeastern Kansas, on the shale and sandstone soils. However, a strange thing about the acreage of clover is that it is not featured nearly so extensively in southeastern Kansas as it is in the northeastern section, where alfalfa can be grown on a higher proportion of the fields than is the rule farther south. For example in 1914 Atchison county grew 4,823 acres of clover; Brown county, 7,409 acres; Doniphan county, 9,338 acres; Jackson county, 3,233 acres; and Jefferson county, 4,926 acres. In southeastern Kansas in the same year Cherokee county had 252 acres of clover; Crawford county, 424 acres; Elk county, 70 acres; Labette county, 1,006 acres; Montgomery county, 418 acres; Woodson county, 781 acres; and Wilson county, 787 acres. Southeastern Kansas needs more clover.

The acreage of clover in Kansas is not high—it was but 103,776 acres in 1914. However, this is a rather marked decrease from 1913, when it was 149,313 acres, and it was caused mostly by the dry season of 1913, which killed a great deal of clover in Kansas. It is true, also, that a larger proportion of the clover in southeastern Kansas was killed than farther north, which makes the showing from this part of the state worse than it otherwise would be. However, it is bad enough when viewed in the light of all the encouragement one can get.

Farther west the clover is largely of the Sweet variety, and it is grown as a rule only where the alfalfa will not do well. Sweet clover has not been successful on the sand hills of western Kan-

sas to any great extent—it is difficult to get any legume adapted to such conditions—but on the sandy bottom soil it will grow where there is too high a proportion of sand for alfalfa. This difference is especially evident on the farm of A. L. Stockwell of Larned, who handles sheep extensively and has a considerable need for feeds high in protein. He gets good crops of Sweet clover on sandy land that absolutely will not produce alfalfa, but this is bottom soil along the Arkansas River.

It is pretty generally realized that the place for Sweet clover is on the poorer soils and locations, where alfalfa or Red clover will not grow. Where these crops can be grown they will produce a higher profit, as a rule, than can be obtained from Sweet clover. As a soil improving crop Sweet clover has a very high place, and quite frequently it is possible to start some of the more profitable legumes after the soil has been growing it for two years. The bacteria that grow on the roots of Sweet clover are the same as that found on the roots of alfalfa—while this is not true with Red clover—so it is an especially good crop to grow before the alfalfa.

Sweet clover does very well on some of the very unfavorable locations in southeastern Kansas, and it has a great place in reclaiming the hardpan soils of that section. For example, the acreage of Sweet clover is increasing rapidly in Allen county, due largely to the work of W. E. Watkins, the county agent, and the county now has about 2,500 acres of the crop. It is especially important that a larger acreage of this legume should be planted on the thin soils around Iola, where alfalfa has some trouble in growing. There also is a need for a larger acreage on the shale soil north of Fredonia and on the uplands of Cherokee county.

Cowpeas has an important place both as a soil improving and as a feed crop. It is an annual that can be introduced into the rotation much easier than the clovers or alfalfa, and in addition to producing a considerable amount of feed it adds a surprisingly large amount of nitrogen to the soil under favorable conditions. Its high value is quite generally appreciated among the

farmers of the state, too, especially in the eastern part, and the main thing which has held down the acreage so far has been the high cost of the seed. This has sold at an abnormal price, when the excellent seed crops which can be obtained are considered. The big price has been caused mostly because there is not a general use of pea harvesting machinery. An ordinary grain separator will crack the peas badly, as the men who have tried this method of harvesting have discovered to their sorrow. Cowpeas can be threshed readily and fairly rapidly with a flail after they get dry, but Kansas farmers do not develop much enthusiasm over the use of a flail. The best plan is for several farmers to buy a pea harvester in partnership, and to save their own seed. A harvester can be purchased for \$100 or more, depending on the capacity; G. R. Wheeler and his neighbors at Tyro have an excellent harvester for cowpeas which cost \$325, and which is large enough for a neighborhood outfit of this kind.

In judging which of the legumes to grow the rule should be simple—take the crop or crops that are especially adapted to your conditions. But grow more legumes; that is the important thing. It is essential that the state should do this if it is to escape a heavy tax for nitrogenous fertilizers in the future. There has been a considerable increase in the use of commercial fertilizers in Kansas in the last three years, especially in the eastern third. It is quite evident that this will be continued unless the serious problems of soil fertility are considered carefully. And they are serious—if you will study the decline in average yields of the grain crops in the state you will see that. The average yield of corn in Kansas for the last 10 years was 19.9 bushels—in the period from 1876 until 1880 it was more than 41 bushels. Maine, New Hampshire, Vermont, Massachusetts and Connecticut, all states where the conditions are very unfavorable for corn, and in the flint corn section, also, produce acre yields that are more than twice the average yield in Kansas.

Or take the results with wheat. The average man from Kansas is inclined to get somewhat chesty over the remark-

able wheat record of this state, and it is large as a rule if the total production is considered, for there is an immense acreage. When the acre yield is considered it is seen that the record is disgraceful, when the excellent adaptation of much of the soil in this state to the crop is considered. The conditions here are ideal for wheat growing, and they result in producing a quality of hard winter wheat that is not exceeded by that grown in any other section of the world, and they are good enough also to make possible the growing of more than 60 bushels of wheat an acre. Yields of more than 50 bushels are quite common—and yet the average yield for the last ten-year period is 14.1 bushels. It is indeed time that these results should be considered seriously.

Of course it is true that some of this low yield is due to poor cultivation, but it also is true that a great deal of the soil of this state is deficient in nitrogen or humus, usually in both, and that this condition must be corrected before more profitable crops can be grown. This brings up forcefully the need for legumes, which will help to supply these essentials. The ideal on every farm should be to use a crop rotation that is well adapted to the section where one lives, and which in every case should include a very large place for the legumes.

Just the crop rotation that should be used on Kansas farms will depend on the conditions. One of the most logical crop rotations in eastern Kansas is the one which is used so much in Illinois: Corn, oats, wheat and clover. In a rotation of this kind, wheat is the only crop that needs to be sold from the farm, and it can be dropped from the rotation if one doesn't make a practice of using it as the nurse crop for clover. Alfalfa can be worked in as a long time rotation crop where it will grow, and cowpeas can be used as a catch crop where other crops have failed.

Red clover is an important legume for use in rotations in the eastern and in most parts of central Kansas. Alfalfa is the most important leguminous crop for Kansas, but not all farmers have the nerve to plow up a good stand after they have let the crop stay down four or five years. There are many men who will do this, it is true, but most of them live in the river bottoms, or in other sections where it is easy to get a stand of alfalfa.

Kansas has some very rich river bottoms, and the soils in them have stood up under mismanagement that would have ruined an ordinary soil. There are thousands of acres between Topeka and Kansas City, in the Kansas River valley, that are planted in corn or potatoes every year, and all vegetable matter is burned off in the spring. Many farmers in the Kansas valley have the stalk burning habit. Their wonderfully rich soil has stood this grief remarkably well, however. Water formed soil along



Stacking Alfalfa Hay Last Summer in the Cottonwood Valley; it now is Being Fed to the Livestock on This Farm.

(Continued on Page 30.)

# DEPARTMENT EDITORS

Field Editor.....F. B. Nichols  
Farm Doings.....Harley Hatch  
Mgt. Livestock Advertising.....Frank Howard

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# Passing Comment--By T. A. McNeal

## A General Reply

I have given a good deal of space in this issue to the gentlemen who believe that this nation should prepare for war. All the arguments in favor of military preparedness are based on the premises that moral obligations are unknown among nations; that each nation is a robber so far as it is able to be one, and regards the rights of other nations only when they are able to repel its attacks by a superior military force.

If that be true it is a sad commentary on our civilization which is presumed to have settled upon certain rules of right. If the reasoning is correct it means that small nations are doomed unless they are willing to become dependencies of the most powerful and best armed nations, for it is only a question of time until some larger nation will conclude that it may be to its advantage to overrun the smaller nation, and according to the reasoning of the advocates of large armies and navies, whenever that time comes the larger nation, unmoved by any moral consideration, will attack the small and weak nation and conquer it. If this is true then armament on the part of the weak nation is of course a useless expense for in no event can it hope successfully to contend with a nation of many times its strength and power.

A good deal has been said since this war began about how Switzerland has been saved from invasion by reason of the fact that its men were trained to fight. How well trained they are I do not know and how effective the military organization of the little republic would prove to be I do not know, but, certainly no well informed person can believe that the reason Switzerland was not invaded by Germany instead of Belgium was because it was better prepared for war than Belgium. The preparation of Switzerland had nothing to do with saving it from German invasion. Belgium lay in the only feasible road between France and Germany. Germany had planned to go through Belgium in making the attack on France, not because Belgium was not very well prepared for war but because the military commanders of Germany had decided that that was the only way to go. Roosevelt and other advocates of militarism have frequently referred to the fact that the little duchy of Luxembourg was unprepared and was therefore immediately overrun by Germany. It is difficult even to refer to such statements with patience. Luxembourg has an area of between 900 and a thousand square miles; less than several counties of Kansas, and a population of 260,000. The estimate of military men is that a nation can put only about 10 per cent of its total population into the field. On this basis Luxembourg, at the limit, might have organized an army of 26,000 men to oppose the power of Germany. Possibly such an army might have held back the German army for half a day. The result of course would have been that the same awful punishment would, in that case, have been dealt out to Luxembourg that was dealt out to Belgium.

In assuming that some one of the European nations will attack us as soon as the present war in Europe is ended, unless we immediately prepare a vast army and navy to repel the attack, the advocates of military preparedness ignore the fact that our Monroe Doctrine has existed for nearly 100 years and that there have been many times during the last century when the doctrine was more liable to involve us in trouble than now. With the exception of Mexico the nations to the south of us are more stable now and less likely to suffer from European invasion than ever before in their history. At no time either during our own history, with the exception of the period of the Civil War has our own military establishment either on land or sea been so strong as at present. During much of that time we had almost no army or navy and yet no European nation either attempted or threatened to attack us. These advocates of preparedness assume that after the present war, when all the nations involved will be almost financially, if not physically exhausted, some one of them will immediately, or at least very soon, undertake the conquest of the United States. I take exactly the opposite view of the situation. I have long believed that a great European war was inevitable. It seemed to me to be the logical result of the military system that prevailed in most of the European countries but more especially in Germany. I did not believe that nations could go on arming and preparing for war without eventually bringing

on the war. The war has come as I expected but it is more terrible and more prolonged than I expected. I did not suppose that a two or three year war between these great powers was possible. I thought one side or the other would be exhausted before that time. However, the longer the war continues and the more destructive it is the more complete the physical and financial exhaustion and the less readiness there will be to engage in another war especially with a nation of as great natural resources as those of the United States.

I cannot believe that the people of Europe are much different from people elsewhere. I believe that they are war-weary and anxious for peace, and that this feeling will increase the longer the contest is prolonged. I should like to see our own beloved country in a position at the close of this dreadful strife that we can say to these nations bleeding and torn and almost, if not entirely bankrupt:

"Let us have peace. Let us take practical steps to secure it. The old plan has failed. It has brought only incalculable misery, death, wounds, destruction of property, unbearable burdens of debt, hatred and burning desires for vengeance. For God's sake let us at least try some other plan."

## Question of Ownership

I am a teacher. My mother and single brother live on the farm. In the summer I, too, stay on the farm and help with the work until the institute begins. My father, before he died, gave me two cows. They are the only cows on the farm and my brother takes care of them in the winter. When he is working out during the summer I take care of them. There has been no contract about caring for the cows. The cows have two nice calves and my brother says they are his. By law can he claim them? Can he mortgage them without my consent? I pay the taxes on both cows. Do I have to give him any money for taking care of them? He and his mother get all the milk and butter from the cows since they came in fresh.

No Address.

On your statement of the case the ownership of the calves is in you. Your brother has no right to sell or mortgage them without your consent. As to whether he is entitled to pay for keeping the cows and calves depends on whether the value of the milk and butter is sufficient to pay for the feed and labor required in caring for the cows and calves; and further whether your brother gets a sufficient share of the butter and milk to compensate him for his labor. If he does then he is entitled to nothing more. If that is not sufficient then he is entitled to whatever would amount to a reasonable compensation. If his mother got all the benefit from the butter and milk then she should apply that to paying for the feed and care of the animals. If your brother took care of the cows and calves and received no compensation for his labor he perhaps would have a lien on the animals for the amount that would be a reasonable compensation.

## Double Taxation

Editor The Farmers Mail and Breeze--In my opinion there is a part of your paper that is doing much good for the general public, and that is the part called Passing Comment where you and other folks register their kicks. Unjust laws and conditions are like disease microbes, they flourish, prosper, and multiply rapidly in the darkness but perish in the sunlight. Kicks like those which often appear in Passing Comment are rays of sunlight. Persons in Kansas as everywhere else are today suffering injustice because there is not enough of this kind of sunlight. I am going to speak of an unjust law that would not last longer than to the next legislature if the people understood it in a realizing way. It is the double tax imposed on the debtor.

I have had a few glimpses of this already in your Comments, but the subject has not yet been overdone. Sunlight will never dispel foul conditions if only allowed to shine in flashes like the momentary opening of a cellar door, but the light must be strong and continuous. It availeth little to blow our horn one blast and then shut up like a clam, but we must keep on blowing until the walls, hiding the rotten conditions in Jericho, tumble to the ground.

The double tax in regard to high schools, is a glaring injustice, but it is not as bad as the double tax on debtors, because it is not so wide in its extent. Then I would like to ask, who is less able to bear the burden of an injustice than the man who is struggling under the load of a debt? To illustrate the debtor's double tax, suppose that A who is not worth a penny should buy a farm worth \$10,000 and give a mortgage for that amount to B a resident of his county. This transaction places A under a burden of interest. This interest is

augmented by the amount of tax B has to pay on his mortgage, in order that the latter may realize as much interest as if an equal amount were lent in a state where mortgages are not taxed. A also pays tax on his land assessed at \$10,000. In short A pays tax on \$20,000 and is not worth a penny. The next year \$20,000 appears on the tax roll instead of \$10,000 and yet the transaction did not create one cent of value. B is still worth his \$10,000 and A is still worth nothing. Someone ought to pay tax on the \$10,000 that exists, but no government, municipal, state or national has any moral right to place a tax on the \$10,000 that does not exist.

Men say "Yes, we know the debtor double taxation is unjust, but no law can be made that will better it any." Any man who says this is lacking in brain power or he wants to escape a portion of his just share of taxation by placing an unjust burden on his struggling brother, and in almost every case it is the latter. Anyone can see that it would be more just to exempt the mortgage than to compel the debtor to pay taxes on an imaginary something where nothing exists but his poverty.

When the mortgage is given the property should be exempted to the amount of the mortgage. In the illustration given A owns the land and B the mortgage. The mortgage is worth \$10,000, the land is worth its value, minus the mortgage, or \$10,000, less \$10,000, or a goose egg. B in this case should pay tax on the \$10,000 and A on the goose egg, and all eggs of this breed of geese should be exempt from taxation.

But it is objected that this man B may be the resident of another county or another state, and if A paid no tax on his egg then the public would lose out altogether.

As far as B's being a resident of another county is concerned that is very easily fixed, let the mortgage be taxed where property is and not where the mortgagor resides; and if B lives in another state then let A pay taxes on his goose egg, for the probability is that B lives where mortgages are not taxed and in that case there would not be double taxation.

To state again the plan briefly, when an obligation is taxed the debtor should be exempted that amount. It is objected that this would help tax dodgers but the very opposite is true. Suppose I borrow \$500 from Mr. T. Dodger and give him my note. When the assessor comes around I report my property and ask for an exemption of \$500 and report Mr. Dodger's note, then Mr. D. will not get out of paying taxes on his loans in the future as he has in the past.

It is further objected, that this plan does not yet establish perfect justice and therefore should not be adopted; for A in the example given owns a farm worth \$10,000 and is in debt \$10,000 and is therefore worth nothing, and the state exempts his farm, but B compels him to pay the tax on the mortgage by charging him more interest, then A still pays tax on \$10,000 that he does not own.

It may be that this great state of Kansas is not able to pass laws that will prevent the monied class from grafting the debtor class, but she is surely able to refrain from bleeding them herself.

Jetmore, Kan. A. L. HULL

The injustice of double taxation is so apparent that it hardly needs argument. There are, however, some difficulties in the way of finding a proper remedy. Here is one. A mortgage really is not property. It is only an evidence of and security for the note which is property. In case the holder of the note resides in some other state, no law passed by the legislature of Kansas would relieve him from taxation on his note in the state in which he lives. If he is a tax dodger the owner of the note secured by the mortgage will neglect to list it for taxation and in that way escapes taxes altogether. If on the other hand, he is an honest man he must list his note with his local assessor and therefore pay taxes on it where he lives. This, then, would mean double taxation for him which is the same injustice of which Mr. Hull rightly complains.

Now I am not citing this as a defense of our present system which works a hardship on the debtor. I am simply citing it to show that it is not so easy to work out an equitable plan of taxation as a great many persons imagine.

## Rental Contract

I am living on a farm which I have rented until March 1, 1918. The lease provides that I cannot sub-rent or give possession to any other person without the written consent of the owner. Can I hire a man and put him on the place and if I give it up entirely can the owner hold me for the two years' rent? I am giving cash rent.

Robinson, Kan.

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You would have a right to hire a hand to work for you, but under the terms of your lease you could not sublet the farm to him under the guise of a hired man. In other words you could not do indirectly what your contract with the landowner forbids you to do directly. Without knowing more about the terms of your lease than are stated in your letter I cannot say whether you can avoid

paying the rent for the full rental period in case you give up the farm.

Speaking generally the law will not require a man to do the impossible or the unreasonable. If conditions are such that it is practically impossible for you to fulfill your contract, I think no Kansas court would hold you to the strict letter of it. If on the other hand there is no good and sufficient reason why you should not fulfill your contract the court would in all probability hold you to it. If, however, you and your landlord are reasonable men, you ought to come to an agreement without any trouble. I would not think that any Brown county farmer of average judgment would want to have an unwilling tenant.

### A Single Taxer's View

In a letter of Mr. Van Petten's in Passing Comment opposing single tax, he says land "represents hard labor just as much as any other class of property."

He is wrong. The land existed eons before the first laborers were born, and will exist ages after the last laborer has turned to dust. He says: "The value of a house is augmented by having a fine house built near it."

Wrong again. A house is worth no more than it would cost to replace it be there never so many fine houses built near it.

He says, "Land speculators are a benefit, generally speaking." I wish he would explain how, when and where. If low wages and idleness be a good thing, then land speculators are a benefit, because land speculators, by enhancing the value of land and keeping it out of use, force men that might otherwise make a living upon the land, to compete for wages; the result being that wages are beaten down and many are thrown out of employment.

If Mr. Van Petten is an employer of labor and thinks low wages a benefit to him I understand why he thinks the "land speculator is a benefit, generally speaking."

Mr. Van Petten says, "The same club of excessive taxation," (meaning, I presume, the single tax) which would hit the land speculator, would also hit the small land holder and farmer."

If he means the man who is a small landowner and farmer, I deny that he is right. With a single tax on land values, the small landowner and farmer, although his tax on his land would, perhaps, be double, the taxes on all his improvements on the land, houses, barns and orchards, and the taxes on his livestock and farm implements would be entirely abolished, compensating him fully for the increase of the taxes on his land. On the other hand the land speculator as such has absolutely nothing but land and any increase in the taxes, he has to pay.

Of course many land speculators really do have houses and barns upon their lands; but, as owners of such they are capitalists, not landowners; and if Mr. Van Petten could see some of the houses the tenants of this rich country are forced to live in, surely, if he be a Christian, would be willing to exempt houses from taxation if it would be any inducement to the landowner to build better.

Mr. Van Petten says it would be a sad state of affairs if, as Mr. Griffin says with single tax no one would want a mortgage on land.

The reason no one would want a mortgage on it would be because it would have little or no selling value. Would it be easier for a poor man to get a quarter section, having little or no selling value or easier to get one having a selling value of \$10,000 upon which he could get a loan of \$5,000?

If the latter be true, as Mr. Van Petten appears to believe, then the government, instead of giving free homesteads to the early settlers would have aided by placing a value of \$10,000 on each farm so the homesteader could have secured a \$5,000 loan.

He says he believes in a lower rate of interest and that every note and mortgage should bear the assessor's stamp to be valid. Does the gentleman think that taxing notes and mortgages will have a tendency to lower interest rates?

If so, I think he is wrong. Mr. Van Petten says he would like to know what the readers of the Farmers Mail and Breeze think about the editor's stand in regard to preparedness. I for one think it to be viciously wrong. If anyone thinks we can defend ourselves against a modern nation with a handful of soldiers and a gang of "rookies," poorly equipped at that, he has another think coming.

I think it is better to prepare in time of peace than to have our young men slaughtered in time of war. I believe we should do all in our power to influence Congress in favor of the preparedness program and I think that each able-bodied citizen should have military training somewhat like the citizens of Switzerland.

Edna, Kan.

TAYLOR STORM.

### Another for Armament

Of course you hate war, which is organized murder, aggravated by every kind of wickedness. But please do not let your antipathy to crime and cruelty, interfere with your usual, and admirable fairness. The people who advocate preparedness do not desire war, any more than yourself. What they insist on is, that if, despite our best efforts, we are compelled to fight, we shall as a nation be able to fight successfully.

The most ardent advocate of peace does not desire to have the office of sheriff abolished, nor the police of our cities disbanded. We know by experience that there are individuals whom nothing but force can restrain from crime against the person and property of their fellow citizens. We have all agreed that the only way to deal with such bandits, as rob banks, and demolish trains, is to meet force with more force, and capture or kill the marauders. That is war. None of us has the smallest doubt as to what ought to be done when a tribe of Indians begins to burn houses and scalp the inhabitants. We all believe in being prepared for successful war if any Mexican bandits should do such things in the United States, as they have done abundantly in Mexico. To resist them by force is war.

Up to this time it was supposed that the great civilized nations of the world were all out of the bandit class. We supposed that some such thing as justice and truth counted among the strong governments of the world. Some of us, however, who have kept our eyes open, have seen that the government of Russia pays no heed to its promises to Finland, and did not intend to pay any attention to the rights of Japan till she discovered that Japan could defend her rights. We have seen that Japan

pays no attention to the rights of China when the other great nations of the world have their hands full. We have seen that France cares nothing for the rights of Morocco provided England and Germany will not interfere. We have seen that Italy cares nothing for the rights of Tripoli if she can persuade the European nations to keep their hands off. We have seen the king of the Belgians permit, if he did not commit, such atrocities in the Congo, as the world never saw exceeded. We have seen England threaten Venezuela, conquer South Africa and pass a law turning a million of her most loyal subjects over to a government which they fear and detest. We have seen Germany invade and destroy a neighboring country with which it was at peace and which it has promised to protect. And we have seen many other such things so that we have come to the conclusion that Providence will help those who try to help themselves and we think it would be good for us to get into that class.

War used to be mostly a matter of personal bravery, and while that condition remained we felt that our country was safe, for is not this the land of the brave? But recent events have convinced us that war is now chiefly a matter of machinery and that a million brave men may be conquered by a handful who possess and know how to use the most improved weapons.

We do not believe that it is any answer to our arguments to say "Europe prepared for war and behold: the result." Some European nations did prepare to keep out of war such as Switzerland, Holland and Sweden. They are still at peace.

Some nations prepared for war because they feared invasion like France, and the larger part of France is still unconquered. Some nations prepared for war in order to frighten small nations like Egypt, and weak nations like India, into submission. England did that way. And some nations like Germany prepared for war because they needed more room and found that they must fight for it. But just think what happened to the continents which did not prepare for war. The natives of Australia were not ready to meet the English invaders and they have almost perished from the earth. The natives of Africa were not ready to defend themselves against the white men, and for generations Africa was ravaged by the slave trade which was the sum of all villainies. The aborigines of America were not prepared to defend themselves. And what Cortez did to Mexico, and Pizarro did to the Incas, will always be a blot on human history. The red Indians who once owned this land were not able to defend their homes and their fathers' graves, and behold their condition.

But if any nation should attempt to give the world a lofty example of confiding unpreparedness it certainly should not be this one. All the territory of the present states was acquired by successful war. We did pay something for the Louisiana purchase. But we knew that it did not belong to Napoleon, and that we would have to fight with and conquer the real owners before we could have peaceable possession. Other nations have conquered more square miles than the United States. But it is doubtful whether any nation has gained so much from successful war. We must as a nation either restore to the heirs of the former owners all that we have taken by force or keep quiet about setting the world a great moral example.

Sycamore, Kan.

A. A. HORNER.

### From the Other Side

I read your arguments against preparedness and in favor of world wide peace by unanimous consent and enforced by an international police. Now, Mr. Editor, don't you realize that if moral suasion would ever accomplish the much desired results, that we would have that peace now, as priests and moralists have advocated it since the time that Jesus said "Blessed are the peacemakers?"

There is another road to peace. Were the English speaking people of the world fully agreed that there shall be no more war and were they sufficiently armed to compel obedience to their mandates universal peace would become a verity.

As well expect a police force to keep order without clubs as to expect peace without the means to compel peace.

The military power of the German empire is the outgrowth of that of little Brandenburg, Province after province was added to Brandenburg until the aggregate became the Kingdom of Prussia by reason and by force of the Brandenburg military system. Now the hereditary prince of Brandenburg is at the head of the great military power of Germany and aims to govern the world for the glory of his family and for the interest of the German people. He aims to get control of the ocean commerce of the world. He proposes to take the Suez canal now and probably the Panama canal later. He will want them both.

Any dream that Americans may have of securing a proportionate share of the ocean traffic is futile in view of a wage scale made by American labor unions. We must never expect to compete with other nations on the ocean where tariff schedules cut no figure, so long as the workers of those nations are content to labor for just enough to supply the necessities of existence.

The German people are content with much less than the English and Americans and consequently manufacturing can be done more cheaply there than in England or America. The Kaiser realizes this and wants more ocean ports for his fleets and navy. If he is successful in the present war; if he can break the naval power of Great Britain and deprive her of Australia and Canada, then Germany may succeed to English manufacture, commerce and wealth.

And what of America when Germany wins? Is it the trade of this continent and South America which is the prize in dispute? Does anyone suppose Germany will regard the Monroe Doctrine after she has conquered Europe?

Does anyone suppose that the Kaiser and his military advisers can be turned from their purpose by moral or Christian homilies? As well expect to convert a crew of pirates by reading to them the Shorter Catechism.

President Wilson probably realizes that diplomacy without adequate force behind it is of little use, hence his advocacy of preparedness. It is quite likely that if a strong military force were organized in America it would be used in the present war and I believe, Mr. Editor, that is the shortest road to universal peace.

Toronto, Kan.

J. H. PRICHARD.

### Can He Eat the Chickens?

A and B are neighbors. A has a fine home, a fine lawn, garden and small fruit from which he tries to make a living. B has a lot of chickens which he allows to run at large and which destroy A's crops. He has been repeatedly notified to take care of his chickens but says that he does not

have to. If A sues B for damages he cannot get anything, as B has nothing. If A catches the chickens and sells them they will not bring enough to pay the damages. Can A kill the chickens while on his place and eat them? SUBSCRIBER.

I presume A could eat the chickens provided of course they are not too aged, but he would not have a legal right to do so. Some very good lawyers contend that he would not even have the right to kill them when trespassing on his premises. I hold however, that he has that right if it is necessary to prevent the trespassing of the fowls. Here is to my mind, the distinction between the right in extreme cases to kill the trespassing fowls and the right to eat them after they are killed. The owner of the premises on which the chickens trespass may do what is absolutely necessary to prevent the trespassing even to destroying the chickens, but that does not give him ownership of the chickens which he would have to have before he would have the right to convert them to his own use by stewing, roasting or frying them and then eating them.

### Queries on Preparedness

Will you allow space in your paper for my friends who are clamoring for preparedness, to answer the following questions?

1. How much better should Germany have been prepared to prevent her from declaring war on France?
2. How many additional dreadnaughts, submarines and torpedo boats should the English navy have had to bluff Germany out of invading Belgium?
3. How much of an army should each and every nation have had to insure the world against war?
4. What per cent of our male population should be taken into camps and drilled in the art of war to insure peace on earth and good will to men?
5. What proportion of wives, sisters and daughters should be consecrated to the mission of going down into the valley of hades to bring forth sons to murder and be murdered in order that a few may revel in the fat of the pork barrel?

These questions are asked in good faith and all candor by one who has been on the firing line and who knows by sad experience that war is hell.

Haven, Kan.

B. F. MORLAND.

### Who Pays the Tax?

Can you tell us why the shipper must buy and affix to the railroad's shipping bill or bill of lading the revenue stamp? I think no one will dispute the fact that a bill of lading issued by the railroad to the shipper of freight is absolutely the railroad's paper. We understand that the issuer of commercial paper must affix a revenue stamp to such paper; then why an exception made in favor of the railroads and express companies?

Waterloo, Kan.

J. W. RIGGS.

I know of no reason why the shipper should pay this tax any more than I know the reason why the sender of a telegram should pay the revenue tax on that telegram or that the maker of a note should pay the revenue tax on the note. The important fact seems to be that the railroads, express companies, telegraph companies and the banks seem to be able to shift the tax to the other fellow. It is my belief that if the shippers would stand on their rights they could demand their bills of lading, refuse to pay the revenue tax and compel the railroad companies to pay it as they should do.

### The Red Cross Society

Can an individual send money or other supplies to the German Red Cross Society in Germany or has the English government declared everything contraband going to the German Red Cross Society?

Pratt, Kan.

FRANK BARKER.

The British government has not declared goods contraband which are sent to the German Red Cross Society unless such things are contraband of war under other circumstances. I believe that some goods shipped to the German Red Cross Society were held up by the British government. In that case the explanation given was that among these goods was a quantity of rubber and that rubber was not used by the Red Cross but was clearly contraband.

### What Commission Is Right

R lists a piece of property for sale with B for \$2,600 net to R. B to receive as his commission all he can get over the net price for the property. B brings R a buyer but does not mention the price. R sells the property to the buyer for \$2,600. Can B collect commission and if so how much?

Nonchalanta, Kan.

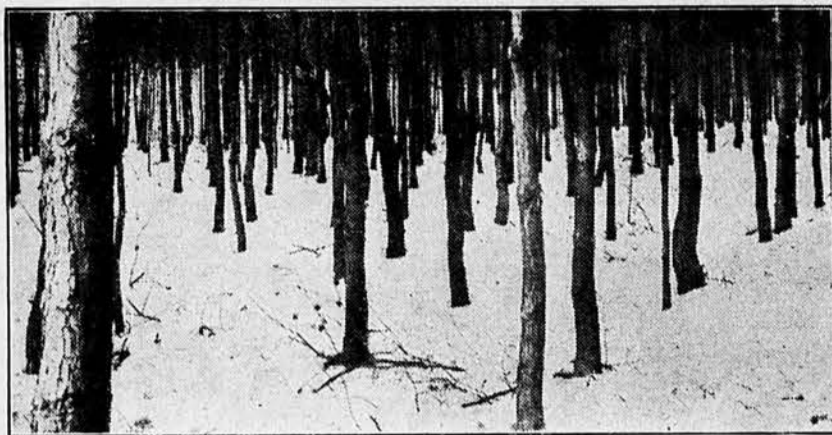
R. J. R.

If B contracted to try to sell the property for \$2,600 net and take as his commission what he could get over that sum he is not entitled to collect any commission from R. Having found the buyer and turned him over to R he forfeits his claim to commission. He is in the same situation that he would have been if he had sold the property for \$2,600. In that case he would have had to turn all the purchase price over to R.

### Man-Made Laws

J. J. Preter, of Denison, Tex., writes me advancing a rather new theory. He does not believe in man-made law. He says that an examination of the Bible has convinced him that God never authorized man to make laws. Well, one thing is certain, Mr. Preter has laid out for himself a man-sized job if he expects to bring the majority over to his way of thinking.

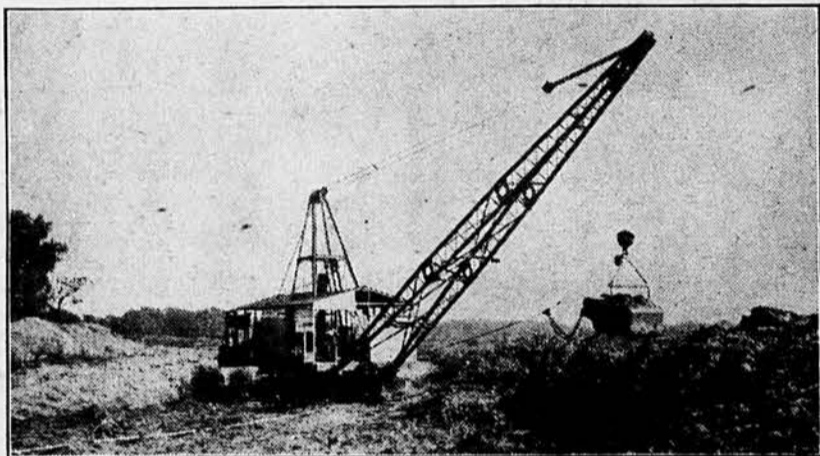
# Kansas in the Winter



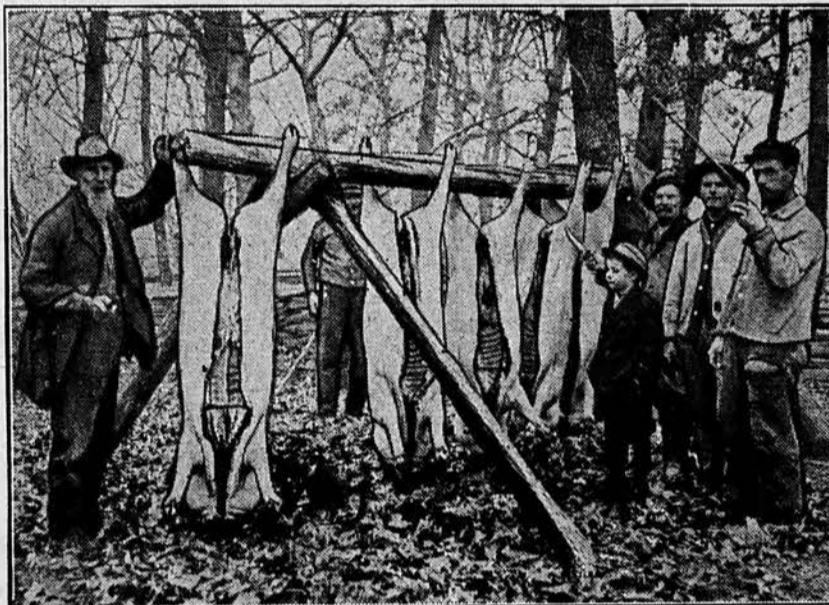
A Woodlot of Red Cedars in Riley County that Has Made a Rapid and Profitable Growth. Cedars are Being Planted very Extensively in Kansas, Especially for Windbreaks, and They are Well Adapted to Almost all Sections.



A Class of Girls in Wood-Working at the Kansas State Agricultural College; This Work is Taken as an Extra.



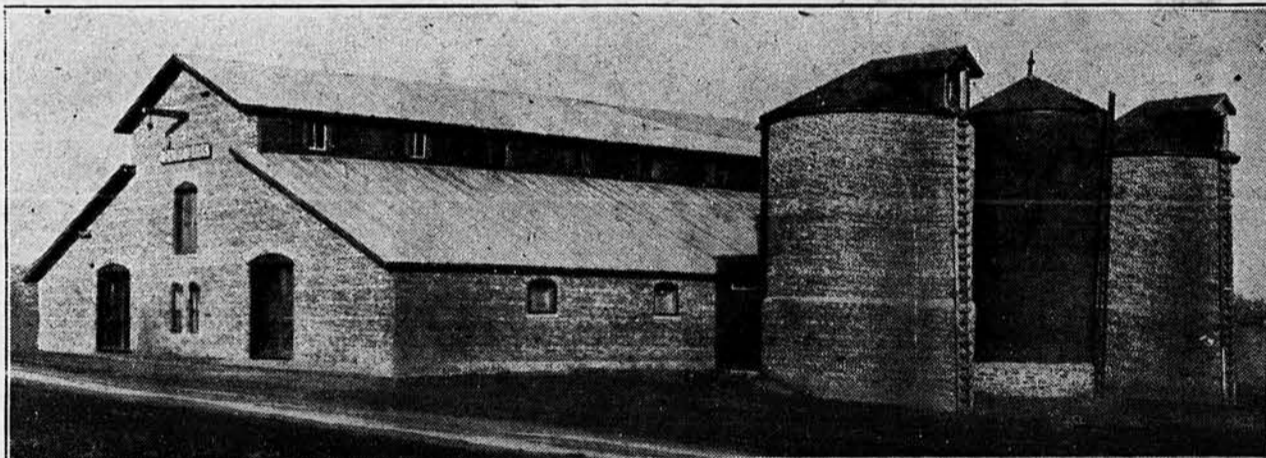
A Dredge at Work in Drainage District No. 1 in Atchison County. Three Dredges are Being Used, and About a Million Yards of Dirt Will be Moved This is a Good Example of the Interest in Drainage Work in Kansas, which is Much Greater Than Ever. The Big Flood Damage Has Called Attention to the Need for Action Along This Line.



Home Butchering Has Become very Popular in Kansas in the Last Five Years, and it is Helping to Decrease the Cost of Living.



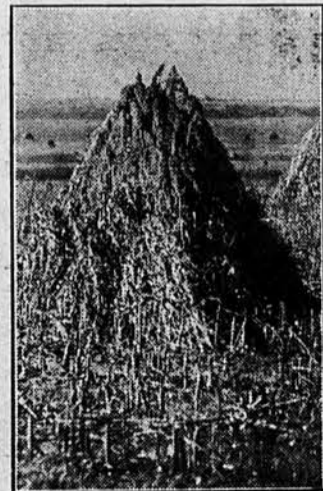
Lost Creek, Near Belvue, Which in Many Places is Almost Filled With Drift.



The Dairy Barn at the Haskell Institute at Lawrence. This Institution Has an Excellent Herd, and Instruction is Given to the Students in Dairy Farming. Three Big Silos are Features on This Place, and They are Filled Every Year; Most of the Feed Used by the Cows is Grown on the Farm.



Moving a House With a Tractor. The Use of Engines in the Last Two Years Has Become very Common for Almost all Farm Work, Especially for Tasks Such as This, which Require a Great Deal of Power. The Development in the Use of Power Recently Probably is only an Index to the Future.



This Shock of Kafir Was Set up Properly, and it is Standing the Winter Well.

# A Profit From Timber

## Remove the Crooked Trees of the Less Valuable Varieties to Improve Woodlot

By F. B. Nichols, Field Editor

THE WOODLOTS on most Kansas farms are in a bad condition. This is especially true in the eastern part of the state, where the owners have been careless in the care given the timber. Improvement cuttings are needed, which will conserve the wood growth, and make the stand of timber more valuable from year to year.

More than 90 per cent of the timber along some of the creeks in eastern Kansas is elm. This is not a valuable tree. Proper management will reduce the proportion of the ground occupied by this species, and increase the stand of valuable trees like black walnut and the oaks.

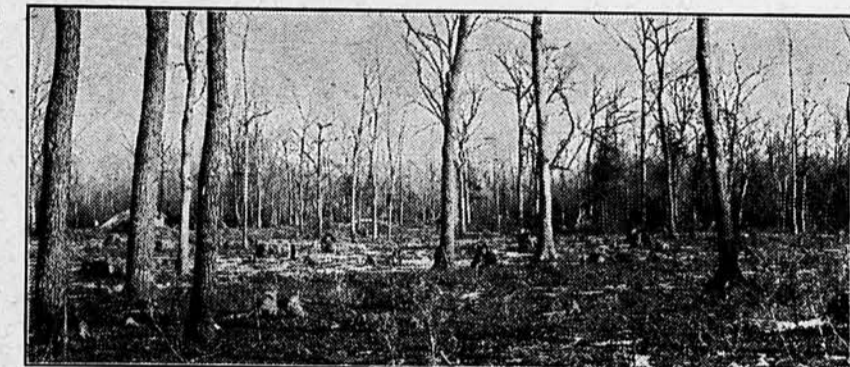
In cutting timber, the aim should be never to remove a tree that is more valuable than your purpose requires. If you are cutting firewood, use the elms and the other less valuable varieties to as great an extent as possible. Especially should the crooked trees be removed; they make good wood, and they never can develop into valuable saw material. If it is necessary to get oak or walnut timber, one need not always go into the woodlot with the determination to cut the most valuable tree in sight. Conserve the growth.

In other words, help the growth to become more valuable with the years. Use the less valuable varieties and the poorer trees of the good varieties when they will do for your purpose. If there are some big, ripe trees in the woodlot, as there are in most growths of timber, cut them out as soon as convenient, and have them sawed into lumber, if there is a mill in your locality. Get rid of the trees that no longer can give you a profit, and give the younger trees a chance.

One can be of a great deal of help to the trees in fighting their enemies. Grape vines and poison vines are bad pests in many woodlots in this state, and one can make mighty good wages in cutting them. Young trees frequently grow crooked right from the start; they should be cut, to give the sprout a chance to develop into a straight, normal tree.

Frequently it will pay to replant the timber growth where the stand has become somewhat reduced. Pick out the varieties that are especially well adapted to your conditions, and set out some of the young trees, or plant the seed. This will make it possible to control the nature of the stand to a very considerable extent.

Many trees have died in eastern Kansas, especially in the southeastern section, in the last few years. This loss has been caused largely by dry weather, and by the attacks of borers. Considerable trouble of this kind has been encountered on the farm of H. P. Reese of Eureka. In speaking of the methods of control that should be used in the Reese woodlot, Charles A. Scott, of Manhattan, the Kansas State Forester, said:



A Heavy Growth of Timber has just been Removed from this Land; it is in Fine Condition for Replanting.

"The trees that are dead or dying should be cut as fast as possible. These can be replaced by planting nuts, acorns, or young trees of more desirable species. The death of so many trees is due to two conditions—the effects of dry weather in past seasons and to the attacks of borers. We are experiencing a scourge of boring insects that are doing great damage to trees throughout the state. One of the best means of reducing this damage is to cut the trees that are now infested. In this way large numbers of insects are destroyed, which reduces the number to attack the trees yet in a thrifty condition.

"You can further improve your woodlot by removing, as fast as you can use the material, such trees as the White elm, Red elm, Box elder, and others of low value, and planting nuts, acorns, and young trees of more desirable kinds in their place. The species to be planted will have to be determined by the nature of the land and whether it is possible to give the young trees any care. On ground which is reasonably free from stumps, so some cultivation can be given, the hardy catalpa probably will be the most valuable species to plant for the production of posts and poles. The Osage orange is another good tree for the production of similar material. The best trees to plant for lumber production are the cottonwood, Burr oak, and walnut. One or two year cottonwood trees should be planted at the rate of 600 or 800 an acre; sufficient acorns or walnuts should be planted to produce at least 1,800 or 2,000 trees an acre. This spacing allows ample room for the young trees, and after they are a few years of age, they will completely shade the ground and

later will shade each other to such an extent as to kill off the lower branches before they reach an objectionable size, and the trees will develop straight, clean stems.

"About the only attention that these trees will need while small will be topping the weeds, to prevent them from smothering the trees. This can best be done by going through the woodlot with a scythe in June and cutting the weed growth."

Kansas has more than a half million acres of timber land. The greater part of this area is land lying along the water courses, much of which is under the flood plain and unfit for agricultural purposes. It is the richest and most productive land in the state, and under proper management can be made to produce valuable crops of timber. Under existing conditions the timber land on the farms, in most cases, is considered waste land, because it is producing little or no timber of merchantable grade.

The present growth is a result of the survival of the fittest, and is made up of quick growing species of low-grade material. Under proper management this land can be fully stocked with such species as White oak, walnut, cottonwood, Red cedar or Austrian pine, and the future yield will be equal in value and quality to the yield of any timber land in the United States. The soil and climatic conditions are favorable for the production of a crop of timber, but it will never be produced until the owner becomes interested in the improvement of his timber crops.

The department of forestry of the Kansas State Agricultural college is conducting demonstration work along this line to determine the best methods of managing the woodlots to obtain these results. To accomplish this purpose the department is anxious to co-operate with timber land owners, and is willing to supply at the cost of production the seedling trees needed to underplant their present woodlots.

Woodlot management in Kansas should be placed on a logical business basis, just as crop growing and livestock management. Instead of thoughtlessly going into the woodlot and "slashing around a while" when we haven't anything else to do, we should lay plans for woodlot work just as carefully as with other phases of farm management.

### Woodlots Need Good Care

BY J. H. FOSTER.

Just as forestry is a part of agriculture, so is the proper handling of farmers' woodlots a part of general farm management. Every acre of land should produce something of value to its owner.

The woodlot is capable of contributing an important part of the revenue from every farm. Yet we are accustomed to seeing the woodlot abused, mutilated and cast by with no thought of reaping another harvest from it. It frequently is not considered as a crop but as capital to pull the owner out of a bad hole, if the lot happens to be a valuable one.

The value of a good woodlot today, however, is fully appreciated by many owners. The importance of general knowledge relating to them, however, does not begin to be considered as does knowledge relating to other farm crops. With the increasing value of woodlots of marketable species, the proper care and management of forest areas in order to make them more productive becomes an economic problem of the farm. Timber values have more than doubled in the past 15 years. The future values are likely to continue to increase.

The regularity of the yield and the uniformity of the size of cutting areas are increased with time so long as areas when cut over are at once reforested. There are notable examples of owners of comparatively small woodlots who are able to cut timber every year or every few years without drawing upon the capital invested. Even in a primitive way, this is the meaning of forest management.

Stands of young timber may often be improved by cleaning and thinning so that they grow faster and contain a better quality of trees than they otherwise would. Improvement work does not as a rule supply revenues at once. Its purpose is to increase the proportion of valuable trees in mixed stands and in all stands produce conditions under which the maximum amount of wood may be formed annually. The kind of improvement work and the degree to which this should be carried on depend entirely upon conditions and the locality.

The trees removed should be those which are inferior in form and vigor, and which are crowding the better trees. The final spacing should be such that the crowns do not overlap. Moderate and frequent thinnings are better than a single heavier one. By thinning, the proper proportion of crown and the maximum of growth can be maintained and a larger final yield of timber secured. Firewood may be removed from an average woodlot with the certainty of improving the quality and hastening the time of maturity of the whole stand.

Still another kind of improvement work is pruning the side branches of immature trees. This increases the amount of clear lumber since the food formed after the pruning will be free from knots. Loose knots are the result of persistent dead branches and are avoidable, although it is not practicable to prune higher than the length of the first log.

### Had Good Authority

Joseph Jefferson, the actor, tells the following story about his father, the late Joseph Jefferson, so well beloved by all theater goers:

For a long time before his death Mr. Jefferson was sensitive upon the subject of his retirement from the stage. When he was playing in one of the Southern cities a paper came out with the news that he had decided to leave the footlights at the expiration of his engagement in that city.

Mr. Jefferson resented the printing of such a story, and the reporter who had brought it in was called upon to tell how he got it.

"Why," he explained, "the city editor told me to see Joseph Jefferson and ask him if it were true that he was soon to retire."

"Well," he was asked, "did you see him?"

"No," he replied. "I went to his hotel and sent my card up to his room and it was sent back with this written on it: 'Mr. Jefferson has retired.'"

"So, you see, I had good authority for the story."

No harrow can be made to accomplish what clover roots will do for you. Sow clover next spring.



Oak Trees in Eastern Kansas; Stands of this kind should be the ideal in every woodlot in the state.

## To Increase Farm Profits

There Was an Excellent Interest in the Meetings of the Kansas State Board of Agriculture at Topeka

A BIG interest in more efficient farming was the feature last week at the meeting of the Kansas state board of agriculture at Topeka. Especially was it obvious that livestock is to be handled more extensively. Great attention was given to the livestock numbers on the program.

The breeding of better horses was urged by Dr. C. W. McCampbell, secretary of the Kansas livestock registry board. He showed that there is an encouraging interest in horses in Kansas, but that more progress is required. He also proved that it will pay well.

"Many horse raisers believe that the need and demand for horses is almost a thing of the past," said Dr. McCampbell. "But heavy horses have increased in value practically 10 per cent during the last 10 years. This assertion is proved by Chicago horse market records which show that all horses that would classify as drafters, including the good, bad and indifferent, averaged, for each of the past 10 years, \$197."

"The real prosperity and happiness of the people do not depend upon the accumulations of a few millionaires, but upon the savings of the masses," said P. W. Goebel of Kansas City, vice president of the American Bankers' association. "The system of long time loans should be evolved, which would encourage renters to buy farms and thus do away with the tenant questions. The tenant question is the real problem of rural credits. The system of long time loans is the greatest menace to the prosperity of the state and must be changed. In my opinion the best plan is a full co-partnership between landlord and tenant. The credit of this partnership will be as good as that of the owner. Under this plan the tenant would take a personal interest and develop his desire to own a farm."

Time has become a great factor in feeding operations in these days of high-priced feed, pasture and labor, in the estimate of E. L. Barrier of Greenwood county, in his address on "Baby Beef." "When a feeder realizes that he can make an animal weigh from 900 to 1,100 pounds at 15 to 20 months of age, there is more profit in it than to feed the animal until he is three and one-half years of age and weighs 1,500 pounds," said Mr. Barrier. "With the free range and cheap pasture gone, the profit in holding beef three or four years for fattening is gone."

That cotton is no longer king in the South and that the quicker the people of the Southland awake to that fact and begin diversified farming the quicker they will get on the road to prosperity, is the belief of Mrs. G. H. Mathis, president of the Alabama diversified farming association.

"Why we should have become a one-crop people is more than any of us can explain," said Mrs. Mathis. "We have gone along the line of least resistance. We have grown cotton to the exclusion of food and feed, not because we were forced to do it, but just because we had a market for cotton and it is a plant that will take more abuse and neglect than any other plant and at the same time make a good money crop."

"The South has never had a population sufficient to cultivate its lands. And that small proportion has been cultivated to a large extent by inefficient labor, hence the crop production is only one-sixth of what it should be."

D. Ward King of Maitland, Mo., who first introduced the King split-log road drag, told of how he discovered the efficacy of his instrument and described in detail the working of dirt roads. Mr. King came in for quite a little quizzing from members of his audience, farmers, who had had both good and bad experiences with his instrument.

When Mr. King said during his speech that he believed it wouldn't be long until a man would be put in jail who attempted to pile soft dirt in the center of the road he was greeted with applause from certain sections of the house. "You ask me why you have such bad roads in the spring; why the bottom falls out of them," he said. "It is because you put the mud in cold storage through the winter. When the thaws

come the roads turn into seas of mud. Drag the roads in the early fall, drag them when they thaw in the spring and you will do away with this difficulty."

### Depend on Each Other.

"The farmer and the banker are dependent upon each other and only by co-operation can each obtain the most success," said Theodore C. Mueller, president of the German-American bank of Topeka.

"A closer acquaintance, association and co-operation between banker and farmer means greater prosperity for the bank and broader experience and, eventually, greater financial gain to the farmer," said Mr. Mueller. "Let us hope, therefore, for a better understanding between the farmer and the banker."

"The farmer, usually transacts his business at the bank and hurries away, and by so doing he fails to establish an acquaintance with his banker which is a necessity to promote confidence."

Prompt plowing of the wheat stubble fields was urged by George A. Dean of the Kansas Experiment station, who showed that more care is needed in guarding against Hessian fly damage. He also urged co-operation in the use of good methods, and showed that the methods which will increase wheat yields even if the fly is not present will control the pest.

W. M. Jardine, dean of agriculture in the Kansas State Agricultural college, told of the efforts of the station in improving wheat. The college has done some remarkable work in increasing the wheat yields by selection, and it has strains that have outyielded the ordinary varieties. He told of the methods which have been used in developing these.

The president of the Kansas state board of agriculture for the coming year is J. T. Tredway of La Harpe. The other officers elected were R. B. Ward, Belleville, vice president; J. C. Mohler, Topeka, secretary and A. W. Smith, McPherson, treasurer. The members of the board who were elected were Thomas M. Potter, Peabody; T. A. Hubbard, Wellington; E. L. Barrier, Eureka; H. M. Laing, Russell and E. E. Frizzell, Larned.

### Breeders Met at Topeka

Both the Poland China and the Duroe-Jersey breeds will have futurity shows at the Kansas State Fair next fall at Topeka. The breeders of both associations voted last week to support this movement, at the meetings of the Kansas Improved Stock Breeders' association. William McFadden of Chicago, secretary of the American Poland China Record association talked to the breeders, and told of the favorable results which have been obtained in other states from the extra prizes offered by the futurity show.

There was much interest in hogs. Considerable attention was attracted by H. B. Walter of Effingham, who told of his methods of hog raising. He urged more attention be given to sanitation and feeding especially. He also showed that a fundamental knowledge of breeding is necessary for the best results, and he suggested that more study be given to this.

C. E. Wood of Topeka told of sheep raising experiences on his farm. He showed that sheep are very profitable, and he called attention to the need for a great increase in the number on Kansas farms. His paper attracted considerable interest and discussion.

That "front," or selling ability, is needed in marketing purebred livestock was the contention of Fred Laptad of Lawrence. He said that to be fully successful the purebred breeder must study his market and perfect himself in finding or creating markets and then filling the demand. H. J. Cottle of Berryton described the best methods of selecting and fitting hogs for the show ring.

Warning that the soil of the eastern tier of counties in Kansas was gradually deteriorating in crop-producing qualities and that some methods were essential to offset this tendency was brought to the members of the association by P. H. Ross, agricultural agent of Leavenworth county. Mr. Ross described in detail the public hog cholera serum test

recently held in Leavenworth with marked success. He also mentioned the co-operative sales held by the farmers.

An investigation he conducted near Tonganoxie, a dairy community, showed that the men with a dairy breed made far the largest profit.

Proper use of good serum, the separation of healthy and sick hogs, and proper disinfection after an outbreak of the disease, were methods advocated by Dr. B. W. Murphy, federal inspector in charge of the Marshall county demonstration at Marysville for the control of hog cholera.

Good serum, Mr. Murphy explained, properly given, was not dangerous and would absolutely make a hog immune from cholera.

Interesting boys and girls in farm life was discussed by Otis E. Hall, of the Kansas State Agricultural college, who advocated and explained the formation of clubs in the rural communities.

The officers of the association for the coming year will be James G. Tomson of Carbondale, president; E. L. Barrier, Eureka, vice-president, and Phil Eastman, Topeka, secretary.

### To Unite the Farmers' Elevators

BY C. O. DRAYTON.

We will open the grain growers' convention in Kansas City, Mo., in the Coates House promptly at 9 o'clock, Friday morning, January 28. We are inviting 30 farmers' elevator companies around Kansas City to send delegates to that convention to organize a strong centralized grain company.

The Equity Union has nearly 100 elevator companies started around Kansas City as a central market and we will

Within less than a year of his first year of office, Governor Capper has made a personal visit of investigation and inspection to every state institution in Kansas. In a few days he will begin the second year of his administration with another personal examination and review of conditions and administrative and physical betterments under way at the state penitentiary. The governor conceives it to be the chief business of a state executive to watch over the machinery and business affairs of the state with the same hawk-like vigilance that the man at the head of a great corporation perpetually gives to its various plants, letting his political fences take care of themselves. A new kind of public service has been born in America, a kind demanding officials with business qualifications and managerial ability. In my opinion, Governor Capper is a fine type of the new kind of governor and I am glad Kansas has him.—C. F. A.

not only unite our 100 Equity exchanges in a strong buying and selling agency, but we will unite the buying and selling power of 500 farmers' companies in "The Equity Union Coal and Mercantile Co-operative Company."

This company must have a seat on the board of trade in Kansas City, Mo., and a grain office in that market. It must have a branch office in Denver, to buy coal and lumber for 500 coal and lumber yards. We probably will need a branch at Hutchinson and Wichita when we are strong around those centers where we have made a fine start.

The Equity Union was started five years ago by three plow handle farmers. It is founded on the idea of "Golden Rule Co-operation in Business." With this principle as its watchword, it has grown from three humble farmers to a membership of 15,000. We gained nearly 7,000 members in 1915. In the next five years we will unite the buying and selling power of 500 farmers' elevator companies in Kansas City, Mo., and 100 in Minneapolis and 100 at Fort Wayne, Ind.

Our dream, when we started, was 1,000 farmers' elevator companies united under one national head. If we get 700 we will be ready to turn the work over to our successors. When you read this article, just say, "I am going to the 'Grain growers' convention' in Kansas City if it costs me a load of wheat." Write to the Coates House and engage a room.

## Look for Strength

In a Light Tractor Plow

YOU will find it in the Rock Island Light Tractor Plow. It will stand up under the hardest work—defy the hardest strains that it will meet in any soil on any farm. And extra wide tires, even distribution of weight and dust-proof axles make it the lightest draft tractor plow, too.



### Rock Island Light Tractor Plow

Built with the best of all lifting devices—one that guarantees exceptionally high and level lift on all bottoms—the

Front Furrow Wheel Lift. So constructed (look at cut) that it has an exceptional amount of clearance—trash cannot collect, clog and interrupt this plow. Furnished with either

#### 1, 2, 3 or 4 Bottoms

—and the bottoms go in and come out of ground "point first," reach plowing depth instantly, insuring even depth of plowing always. Rear wheel automatically locks with heavy spring lock—avoiding all danger of swerving. Power lift is easily operated from tractor. Equipped with simple, positive clutch. Learn all about this strongest, best of light tractor plows.

Send for New Descriptive Folder—just off the press. Simply send your name and address on post card.

Rock Island Plow Co.  
235 Second Avenue, Rock Island, Ill.

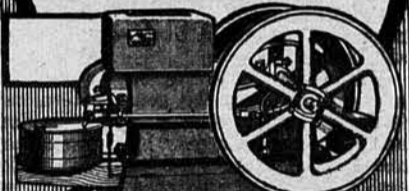


## Meco ENGINES

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### Prove Their Quality

Write us, giving dealer's name and we will tell you how to get a high-grade Meco Engine for trial, and send you our Engine Catalog to select the kind of engine you want.



#### COSTS YOU LESS

2 H-P, \$35.10; 3 H-P, \$52.65; 4 H-P, \$70.20;  
6 H-P, \$100; 8 H-P, \$140.40; 12 H-P, \$210.90.  
Built for hard, heavy work, compact, easy to run; few parts, and save their cost in fuel first year.

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## FREE BOOK ON OKLAHOMA COTTON-SEED-MEAL

### How Much a Pound Is Your Protein Costing?

Feeding all corn is like burning gas a ton coal when you could get the same result for \$3.50. Cotton-Seed Meal supplies PROTEIN the vital element needed in growing and fattening livestock at 5¢ per lb. while in corn it costs 16¢. Get reliable information about this—our booklet gives you the facts and information—it's free.

Write for the Book Today

Just drop a postal card for it. It answers your questions in "common talk."

Okla. Cotton-Seed Crushers Assn.

Lawton, Okla.



## Schools the Big Influence

A Few Excerpts from a Speech by Governor Capper Before the State Board of Agriculture last Week

WHEN the state board of agriculture entertained its friends, last week, Governor Capper was one of the speakers. Here are a few of his expressions showing how he is thinking with regard to many of the subjects which the Farmers Mail and Breeze family discusses so frequently.

Nine hundred and eighty-nine counties of the United States—more than one-third of all the counties—showed an actual decline in rural population in the last census during a period when the population of our nation increased 16 millions.

The rapid increase of tenancy. Twenty-five per cent of all the farms were operated by tenants in 1880; 37 per cent in 1910, and the tenant total is now more than 2 1/4 millions out of 6 million farms.

Some of the big things we haven't done in Kansas and must do, include longer leases, more general co-operation, more equitable terms between land owners and tenant farmers. How else are we going to maintain the workers in our biggest industry, make first-class, home-owning, tax-paying citizens of them and have No. 1 farmers on our farms?

Tied up with this is rural community organization, co-operative marketing, a really effective system of distribution which shall couple demand with supply and eliminate the greatest source of waste in the economy of the American nation.

Farming demands educated men and women. The agricultural colleges and universities, neither in the class room nor in their extension service can meet the full need. Every farm boy or girl desiring the equivalent of a good high school education, including instruction in agriculture, animal husbandry, horticulture, manual training and domestic science, should have the opportunity at home of acquiring that training. We must work for better and stronger rural and grade schools for the benefit of the vast number of children unable to obtain the advantages of higher education; we must work for more attention to the fundamental

As I see it, we should waste very little time in our public schools on the dead languages. But coming after, or with a thorough grounding in the fundamentals of an education, agriculture and domestic science and the practical and vocational subjects might well be given more attention.

### Parasites of the Grange

A recent letter contains this announcement about the work of the last state Grange meeting:

"While some good work was done by this session, the destructive element in it so nearly balanced the constructive forces, that the efficiency of the body was greatly reduced."

This remark recalls the classifications of Grange members that a good Quaker minister who was the father of the Grange of his own state, and the most unselfish worker it produced, once made after ten years of faithful work: "I find there are three classes that come into the Grange in all states and counties. Every member places himself in one of these classes by his own deeds. These three are: Builders, Destroyers and Parasites."

In the first class we find a few philanthropists, members who use the Grange to help them with their public benefactions. Then comes the great mass of founders' members, patrons who take up the Grange work as the founders' planned it, with the educational, fraternal, social and financial rank as named.

I should class as destructives the dollar members, those who come into the Grange just for the dollars they can get

just what is good for the Grange.

This session of the state Grange did not escape their work. Valuable time and work of the founders' members had to be given to hearing their self-boosting plans. The good of the order had to wait on personal ambitions. It might be worth while for some of them to read these lines of Strickland W. Gillilan entitled, "Your Impress."

Now what is your niche in the mind of the man who met you yesterday? He figured you out and labeled you and carefully laid you away. Are you on his list as one to respect, or as one to be ignored? Does he think you the sort that's sure to win, or the kind that's quickly floored?

The things you said—were they those that stick, or the kind that fade and die? The story you told—did you tell it your best? If not, in all conscience, why? Your notion of things in the world of trade, did you make that notion clear? Did you make it sound to the listener, as though it were good to hear? Did you mean right down in your heart of hearts, the things you then expressed? Or was it the talk of the better man, in clumsy language dressed? Did you think while you talked, this saying of yours, or quoted what others said? Think, what is your niche in the mind of the man who met you yesterday, And figured you out and labeled you, then carefully filed you away.

Waverly, Kan.

Eve Casche.

### Notes from Johnson County

BY ROBERT McGRATH.

The snow storm came as a surprise. Stock were turned out the previous morning in anticipation of clear, fine weather. It was a sorry sight to see them coming in from the fields.

The birds are going to suffer greatly from the snow. All the seeds are covered. We found a dead bluejay yesterday on the frozen ground in the maple grove. The poor thing had evidently been frozen. Farmers can greatly help the birds by placing food near their feeding grounds. Some persons say the sparrows will run the other birds away. We tacked a square board on a fence post and now put feed there. One morning we counted five jays, one red bird, three pigeons and four sparrows sharing breakfast with one another.

This is ideal hunting weather and many are taking advantage of it. Rabbits are very plentiful this year and easily shot down when snow is on the ground. From a mercenary standpoint hunting is a failure. Shot gun shells cost 2 1/2 cents apiece while rabbits are worth 3 cents at this writing. They are worth far more for eating purposes, however. In our opinion nothing tastes better than good, fried rabbit.

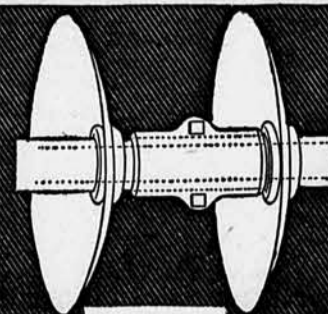
This is the open season on hedge cutting. A man from Indiana called in our vicinity last week, taking orders for nine carlots of posts. He said the farmers there are learning the true value of the hedge post and since they cannot be raised in that state, they are having them imported. There is always a local demand for hedge posts. The telephone companies are glad to get poles of that substance paying as high as 75 cents apiece for them. Every farmer's wife knows how good the wood burns.

Owners of engines in this locality are using their spare time pulling the hedge roots from the ground. Hedge roots branch deep into the ground and those that have been stationed there for 20 or 30 years, require enormous strength to dislodge them. The tractor engine answers the purpose nicely.

Straw stacks are now undergoing their crucial test. Stock soon show by their restless disposition just what they think of the straw. Oats straw is very fine, and all through the country, one may see droves of cattle, having forsaken the corn stalks, gathered about the oats stacks. Many baled their bluegrass in preference to oats straw, but now have found out their mistake. Oats was threshed during wet weather, last year, and much was left in the stack.

It beats the world how hardy goats are. Ours are in the stalk fields nibbling at the bare stalks and along the pasture roads chewing the thistles and dry crab grass. Again one finds them along the sloughs pushing aside the snows in quest of the water grass. They do well roughing it and will come through the winter ordeal, no doubt, in better condition than horses or cattle receiving far better care.

A hard-bitted axe will break easily on frosty mornings. Warm it by the stove before using it.



Janesville Non-Binding Disk Boxes

### "Straight-away Pull" Saves the Team

Here is a harrow that cannot bind in the disk boxes. The above shows a true position of the disk in the Janesville and Budlong harrow. As you will



note, the bearings set flat against the disk boxings—the wear on the spool is equalized—oil gets to all parts—bearings last longer—the team has less of a load to pull.

The illustration above is, as accurately as we can make it, a reproduction of what takes place in the disk box on the ordinary harrow. Side strain and twisting grind down one end of the bearing. This means short life for the bearings—possibility for breakages and needless expense for you and hard work for the team.

### JANESVILLE and Budlong Disk Harrow

Note how the disks are hung so that they enter the ground like plow points. They get a straightaway pull from the drawbar—the only resistance is the cutting of the soil.

That's why our bearings last longer. And it's easy to see that it reduces the pull on the team.

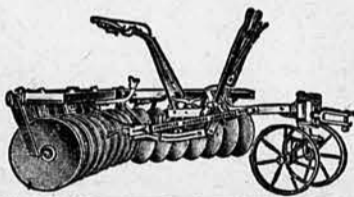
We give you your choice of steel or wood bearings. All of our bearings are interchangeable, and we will replace any of our chilled bearings proving defective within the life of the machine.

We can give you any size disk—concave—plow cut—spading or cut-out—one or two levers—with or without tongue trucks and transports.

### Write for Book—Free

Also ask about Janesville Plows, Cultivators and Corn Planters. We have been building high grade farm machinery for 57 years. Write today.

JANESVILLE MACHINE CO.  
42 Center St. Janesville, Wis.



### Build It Yourself

Here is the first real, practical idea for a perfect home-made concrete mixer ever yet produced. Endorsed by all farm papers, by concrete engineers and by hundreds of users. You make it with a few 2x6's, an oak barrel and a few castings. Send your name and get full instructions and

### Blue Print PLANS FREE

It will mix 2 1/2 cu. ft. at a batch, has self-tilting dump, runs by hand or 1 h. p. engine. Will keep from 2 to 6 men busy. Does finest work, equal to any \$200 machine—and costs you almost nothing in comparison. Just drop me your name on a post-card today. Full instructions and blue print plans will come at once. FREE.

SHELDON MANUFACTURING CO., Box 2430, Nebraska, Neb.

### Mix Your Own Concrete

## Caught—Brown Mouse

It's a story—a corking good story, too, that you'll enjoy, every line of it—"The Brown Mouse," by Herbert Quick—and The Farmers Mail and Breeze has caught it for its faithful family of readers. We're getting it ready now for serial presentation. The first installment will appear soon. Watch for it.

The "Brown Mouse" is the story of a Lincoln-like farm hand, a genius in overalls, who upsets an Iowa district, and presently the entire country with a new kind of rural school. It isn't preachy. It's a tale you'll like.

The "Brown Mouse," in The Farmers Mail and Breeze, serially, possibly for January 29. Don't miss a copy.

and practical education; and for open school houses for the public and the encouragement of the social center idea in every community.

I am pleased that the tendency all over the state is in the direction of more school training that shall be useful and practical. I believe there is a genuine demand for better and stronger rural and grade schools, more consolidated district schools, more township and county high schools, for the benefit of the vast number of young people in Kansas unable to obtain the advantages of higher education.

We appropriate nearly 2 million dollars a year for our colleges, and it is money well spent, but we should not forget that out of every 1,000 children in Kansas only 17 enter a college or a university, only 53 in fact, ever enter a high school of any sort. What are we going to do about those 947 out of every 1,000 who are denied high school, who leave school, many of them, before the end of the fifth, sixth or seventh grade?

I want every boy and girl in Kansas, no matter how humble his home, to have a fair chance at the door of opportunity. We must have education that fits not alone the few for the life they are to live, but an education that will fit the many, the great body of the common people, the bone and sinew of the state, for what they will undertake, an education that will make bread-winners rather than dreamers of the children of Kansas, and give them an equal show in the race of life.

Education was never intended merely for training a few to be leaders, but to train all our young people to live and labor wisely, happily, efficiently. To do this we must give them training that will be useful in the earning of a livelihood, and teach them the satisfaction that comes from doing an honest day's work intelligently and well.

We need more of the simple, old-fashioned home life, with its certain tasks and responsibilities assigned to every member of the family, and stated times for doing these tasks; also time for study and time for play. And don't forget the play part, for we are learning that wholesome play has an important and a far-reaching influence in a child's education and his success in life.

I am inclined to think that we may be trying to teach the children too much, with the result that we sometimes do not teach them well. Pupils come from our schools with a superficial knowledge about a lot of things, but with no accurate knowledge about anything. I believe every boy and every girl should be trained in school to do some one thing superbly well.

out of it. These usually leave their families at home.

The politicians, who sometimes do a little good work for the Grange, to get a tenfold boost from the Grange to their political fortunes. And, last of all comes the stepladder members, persons who want to use the Grange in any way they can to boost their financial, social, political or big "I" position in the world.

The parasites are those of all three of the last named classes, who do nothing for the Grange, who weaken its strength by their many selfish purposes.

The founders' members really are the only true builders and upholders of the Grange. They kept it alive through the years of disaster and loss that came to it in the 70's through the rash financial ventures of the dollar members, the self-seeking politicians and the grasping methods of the stepladder members.

The destructive elements creep into our Grange despite all precautions, even as they get into other orders. They are to be found in all ranks from highest to lowest. They add heavy burdens of care, work and endurance to the true Grange builders.

I ask every reader to consider carefully a part of the report of the committee on co-operation made at the last National Grange by the state master, A. B. Judson of Iowa, chairman of that committee. It is found in the December, 1915, National Grange Monthly, on page 31, the last column.

No state suffered greater losses from the rash ventures of the dollar members, and the master of that state speaks from personal knowledge. While a Grange is small and weak the destructive forces usually let it alone. But when it gathers strength enough to be a power in a community, then we find plenty of men ready to use it for their own purposes. The dollar men, politicians and stepladder folks are ready at once to tell us



### Six Reasons for Avery Tractor Success

STUDY over these special features in the design and construction of Avery Tractors and you will know why so many men are buying Avery Outfits. There are more acres plowed by Avery Tractors and Plows than by any other make. What they are doing for others they will do for you. These are some of the reasons why it will pay you best to get an Avery:

**First**—Avery Tractors have a special sliding frame which makes possible the elimination of the intermediate gear, shaft and boxings. An Avery Tractor has the least gears, the least shifting and the least bearings of any two-speed, double-drive tractor built—which means more power and longer life.

**Second**—Avery Tractors have two rear drive wheels and two speeds—a big advantage over single-drive and one-speed tractors.

**Third**—Avery Tractors have slow-speed, heavy duty opposed motors—not high-speed, light automobile motors.

**Fourth**—Avery crankshafts are one-half the diameter of the cylinder or more. There has never been a broken Avery crankshaft.

**Fifth**—Avery motors have renewable inner cylinder walls. These parts can be replaced if needed without having to buy complete new cylinders.

**Sixth**—Avery Tractors are entirely free from

all pumps and fans. All such easily broken and troublesome parts are done away with in the construction of an Avery Tractor.

**A Complete Outfit Built by One Company**—the plow as well as the tractor. All built and backed by a company having a large factory and many branch houses, which insure prompt and permanent service. Avery "Self-Lift" Plows are built in all sizes from 2 to 10 bottoms. We also build the "Yellow-Bellow-Grain Saver" Separator in sizes to fit each size tractor.

**Avery Tractor Prices**—3-Plow Tractor, \$700 cash; 4-plow, \$1120 cash; 5-plow, \$1680; 6-plow, \$2145; 8-10-plow, \$2475. We also build a special smaller size tractor for \$250.

Write for new 1916 Avery catalog and investigate farming, threshing, road-building, etc., with an Avery Tractor.

AVERY COMPANY, 1018 Iowa St., Peoria, Ill.  
Ask for address of nearest Branch House or Jobber

# AVERY

One Man Outfits 6 Sizes Fit Any Size Farm

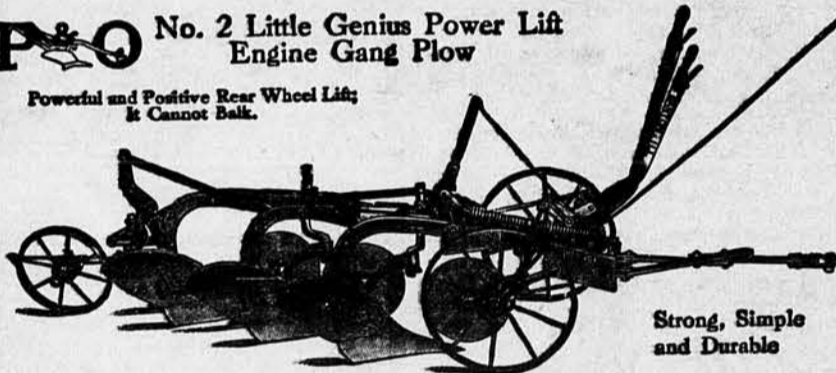


## Little Genius Engine Plow

The most successful small sized engine gang plow made; complete and perfect. We want to send you a copy of the many testimonials we have received from all over the country; the strongest endorsements ever given an engine gang plow. The record of the P&O Little Genius is an unbroken series of successes and it is today the most popular engine plow of this type on the market.

### P&O No. 2 Little Genius Power Lift Engine Gang Plow

Powerful and Positive Rear Wheel Lift; It Cannot Balk.



Strong, Simple and Durable

Two, three and four bottoms, 12 or 14 inch; all standard types. One man operates both engine and plow. Power lift in; power lift out. Power lift operates all three wheels, giving high, level lift. Hitch adapted to all types of tractors. Wood break pin protects both engine and plow against injury. Bottoms leave straight headlands. Has strength to spare. "It's the Way We Build Them."

Write for circulars and catalog. Explain your plow problems to us; we can give you valuable information. We make a P&O Engine Plow that will meet your requirements.



Ask Your Dealer or Write to Nearest P & O House

**Parlin & Orndorff Co.**  
Canton, Illinois

Branch Houses: Dallas, Tex., Kansas City, Mo., Minneapolis, Minn., St. Louis, Mo., Omaha, Neb., Portland, Ore., Sioux Falls, S. D., Denver, Col., Oklahoma City, Okla., Spokane, Wash.

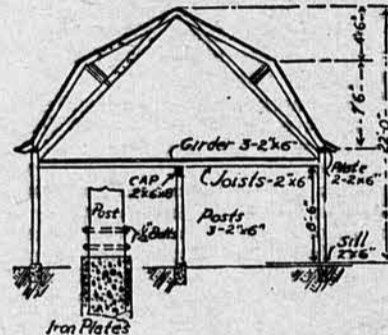
## Put Machinery Under Cover

Millions May Be Saved for the Farmers of America if Attention is Given to This Feature of Economy

MILLIONS of dollars are lost annually by the farmers of this country simply because the average farmer does not take the proper care of his farm implements and tools. Do you leave your machinery in the open—or worse, do you leave it just where you used it last?

This machinery shed is what you need, if you have no roof over your farm machinery. It will easily pay for itself in a few years and during that time

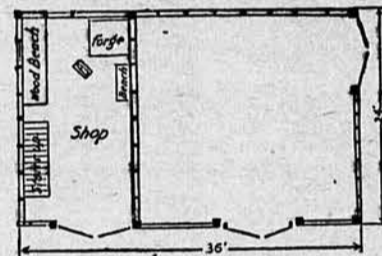
Everyone wishes to get the most and the best for the least money. Lumber is peculiar. You ought to study it. In Kansas a good deal of southern yellow pine is being used because study has shown it to be trustworthy, and of equal interest, because it is plentiful and cheap. Letters are received every day from readers asking for precisely this kind of information: What is a good lumber and which is the cheapest? Despite the fact that 36 per cent of all the lumber consumed in the United States is Southern yellow pine, and that 2,000 sawmills are busy every working day in the year, supplying the demand for it, the pine forests of the South are so vast and so convenient to transportation facilities, that there is an almost unlimited supply everywhere. Southern



and afterward you will have well kept, good looking and useful farm tools instead of broken-down rusty ones.

There is a shop at one end of this shed. It has four tight or ceiled walls so that you can use a small stove in cold weather and so have a comfortable place in which to make your regular winter repairs. You can take advantage of every stormy day and the implements on which you wish to work will be right in the same shed with you. Here is a bill showing the lumber you will need:

- 1—2x8—38 Ridge.
- 8—2x6—16 Diagonal braces.
- 76—2x4—9 Roof rafters.
- 2—2x8—38 Center ridge.
- 38—2x4—3 Lookouts.
- 4—2x4—Braces.
- 4—2x6—12 Wall plates.
- 4—2x6—18 Wall plates.
- 4—2x6—12 Wall sills.
- 4—2x6—18 Wall sills.
- 4—2x4—12 Partition plates.



- 60—2x6—10 Wall studding.
- 12—2x4—10 Partition studding.
- 6—2x6—18 Built up girder.
- 32—2x6—12 Joists.
- 5—6x8—8 ft. 6 in. Posts.
- 760 ft. 1x4 Lathing for roof.
- 500 ft. 1x8 Sheathing for walls.
- 270 ft. 1x8 Shiplap for partition.
- 864 ft. 1x12 Boards for rough floor.
- 1200 ft. 1x6 B&B drop siding.
- 4—2x12—12 for stairs.
- 8—2x12—10 for bench.
- 1—4x4—12 Bench legs.
- 3—2x4—12 Bench braces.
- 367 lineal ft. 1x4 finish for window casing, corner and fascia boards.
- 13 1/2 M Shingles.

### Mill Work

N. B.—No frames have been figured for doors, studding forming the frames for same.

- 1—3 ft. 6 in. x 6 ft. 6 in. door.
- 1 Set double doors 6 ft. x 8 ft. each.
- 3—Sets double doors 4 ft. x 8 ft. each.
- 2—Doors for left 4 ft. x 6 ft.
- 3—Window frames for 10x16 4-light windows.
- 4—Frames for sash 10x14 4-light.
- 3—Windows 10x16 4-light.
- 4—Sash 10x14 4-light.

Sketch shows but 2 sets double doors on 36 ft. side but lumber bill is figured for 3 sets.

### Hardware

- 6 Strap hinges 8x8 in. with screws.
  - 18 Strap hinges, 10x10 in. with screws.
  - 4 Strap hinges 6x8 in. with screws.
  - 1 Pair 4 in. butts, with screws.
- Of course you are looking for economy.



yellow pine has earned the title of "the most useful wood," and, quality considered, it might with equal justice be styled "the least expensive wood."

### The Grange Chaplain Writes

I know that as this new year opens that we are all planning better things for our Grange and our community. We want things to be better in 1916 than they were in 1915, and the way to make them so, is to get busy and work harder for our Grange this year than we did last year.

The Grange can be made a source of much good as to a community, and to the individuals of that community, if only all the members would attend the meetings and take some part when requested to do so. The only way we can improve mentally is by using the small talents God has given us and what better way can we find to use them, than by attending our Grange and taking some part in it? It is a law of nature that nothing can stand still, and if we do not use our talents, they surely will deteriorate. Don't allow yourselves to be relegated to the mental junk pile.

Whatever we put into an organization of our time and our talent, just that much will we get out of it. I am going to quote a little poem which explains what I mean better than I can express it.

### Life's Mirror.

There are loyal hearts, there are spirits brave,  
There are souls that are pure and true;  
Then give to the world the best you have,  
And the best will come back to you.

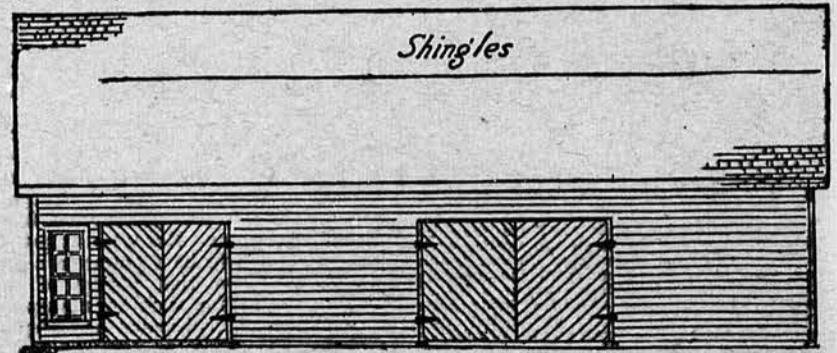
Give love, and love to your heart will flow,  
A strength in our utmost need;  
Have faith, and a score of hearts will show  
Their faith in your word and deed.

For life is the mirror of king and slave,  
'Tis just what you are and do,  
Then give to the world the best you have,  
And the best will come back to you.

Mrs. Mabel Pomeroy.

Chaplain Kansas State Grange.  
Holton, Kan.

Water taken into the stomach of a horse is bound to go on quickly. If given after feeding, it will carry much undigested food with it. Before meals is the time for watering.



\$25.65 Buys This  
**Farmer's Friend**  
Power Washer

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Banish "Blue Monday"—do away with drudgery of wash day. This Farmer's Friend Power Washer does big family washing in half the time required by hand and does all the hard work. Any 1 H. P. gas engine will operate. Washes fast and clean. Winger guaranteed five years. All-steel double frame—holds extra tub or basket. Greatest washer bargain ever offered. Our price only \$25.65, freight paid. Write for catalog and full details.

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The Original  
CLOD CRUSHER

Increases Your Crop  
8 to 15 Bushels to Acre

The Brillion Clod Crusher (the original and only genuine) will increase your yield from 8 to 15 bushels per acre. It makes a perfect seed bed by crushing, pulverizing, rolling, leveling and packing the soil, thus retaining the moisture a few inches below the surface.

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Dept. 412, MOLINE, ILL.

## It Pays to Use Good Paint

**Kansas Farm Buildings Need Better Protection from the Elements than They Now Get—Apply a Good Primer**

WHEN considering the suitability of a paint for Kansas farm buildings, it should be remembered that more durable products can be made with some colors than with others. An effort has been made to show that color, considered by itself, is an important factor and in many cases everything else must be more or less secondary to it, but when more latitude can be allowed in this direction it is well to bear in mind the fact that dark colors are generally the most durable. Lead and zinc paints are good, but those made up with ochres, sienna or the oxides of iron in general are superior.

Lampblack is an exceptionally durable material and makes perhaps the most rugged paint for wood, says L. C. Wilson in The Factory, other things being equal. There are also many reds, browns and yellows which will generally outlast lead or zinc paints.

After all of these points have been settled and the paint chosen, the next thing is to see that it is properly applied. On a farm, where the work done ranges all the way from painting fences and sheds to the finishing of the parts made and perhaps an occasional going over the wood-work and furniture, it can be seen that a considerable degree of skill and versatility is required to give each job the attention it should receive. The painting of iron-work also differs from the finishing of wood, so it is not possible to give detailed information as to how each case should be treated, but there are certain principles which broadly underlie all painting and the observance of these will go far toward insuring the success of the work.

Wood surfaces should be thoroughly dry, free from dust and dirt and, whenever possible, painting in very cold or very damp or rainy weather should be avoided. Ironwork must be perfectly clean and free from rust and dirt; all rust and scale should be removed as completely as possible with a stiff wire brush.

Wood which is being painted for the first time may have knots full of pitch or resinous material that will make a spot later on. It is best, therefore, to coat over such places with orange shellac, which will effectually seal up all offending substances.

The pores of bright wood are empty, consequently it is very absorbent, although some woods are much more so than others, so if paint were to be applied directly the oil would be absorbed and the pigment left without a vehicle or binding material to keep it tight. In other words, it would chalk or powder and soon wear away. To prevent this a primer is used.

About the best primer is a good coat of raw linseed oil, well brushed in and given plenty of time to dry. Afterwards a second coat of oil, or oil containing a small amount of pigment, may be applied. On very cheap work the priming may be poorly done or left out altogether, but bad results are pretty sure to follow. Thorough priming fills the pores with oil, thereby keeping out water and moisture and preventing decay; incidentally it gives a better surface for painting.

As ordinarily received from the factory, paint is ready for use and nothing should be added or done to it except to stir very thoroughly. The pigment is

much heavier than the oil and naturally tends to settle out, more or less, although many paints contain certain substances which prevent or retard this action. In any case, however, a good stirring up and mixing of the constituents is essential, and should be done before starting to paint and at frequent intervals thereafter. Neglect of this precaution may lead to serious trouble.

In the matter of driers and thinners, too, mischief is often caused by the irresistible desire which some workmen have to dope up the paint and make it conform to their own ideas, rather than what it should be. Certainly, more thinner, turps or benzine, will make the paint "go" much farther and work easier, and more drier will make it dry more quickly, but in the first instance the balance between pigment and vehicle has been upset and in place of the fairly tough, thick film which should be produced, a thin, weak coating results. A drier is a sort of necessary evil. Without it, the film would take so long to dry that it would be practically worthless. A drier overcomes this difficulty, but in so doing hastens the final destruction of the film. Now, a well-made paint contains just the right amount of drier to maintain the proper balance between all of these factors, and it can be easily seen that adding anything to it is liable to result disastrously.

A paint film at best is only a few thousandths of an inch thick and when it is considered how much wear and tear it will stand, yet protect perfectly the underlying surface, it seems little short of marvelous. It ought to be clear, therefore, that anything which reduces the thickness of the film even slightly or destroys in any way its wearing and resisting qualities will cause a serious loss in effective protection.

In skilled hands, driers and thinners are useful tools and serve legitimate ends: paint which has become thickened by standing may require to be thinned, or special cases may arise where these materials are needed, but their use should be left to the expert.

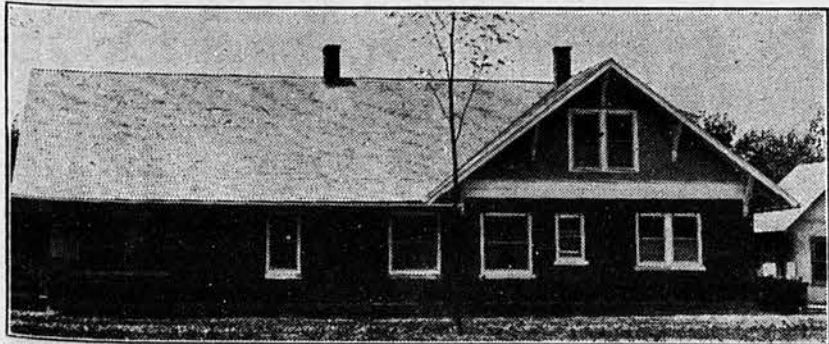
As a general proposition, a gallon of paint should cover not more than 400 square feet of surface, and at least two coats should be given, allowing each to dry thoroughly. For very good work, or that which is exposed to severe service, three coats may be applied.

Besides by brush work, paint is often applied to farm machinery by dipping and by spraying. By simple immersion the whole piece is covered in an instant, much more quickly and cheaply than it could be brushed on. In the spray process, compressed air breaks up the liquid paint into a fine spray as in the operation of an atomizer.

Paints, oils and all inflammable materials should be kept in metal cabinets when not in actual use and great care must be taken to leave no oil-soaked rags lying around, as the oil absorbs oxygen and very often takes fire spontaneously.

All brushes must be well cleaned and washed out in turpentine every night and laid flat on a board.

In a word, in painting, as in everything else, it is attention to the little things that goes far toward accounting for the difference between good and poor work.



Paint on the Farm Home Adds Much to its Attractiveness, and at the Same Time Saves the Building from Decay.

## THE SANDUSKY TRACTOR

"THE LITTLE FELLOW WITH THE BIG PULL"

15 Draw Bar H. P.—35 Belt H. P.

The Sandusky Tractor is successfully and economically handling the general run of power requirements on hundreds of farms.

Its distinctive design and high grade construction throughout places the machine in a class by itself for range of economic usefulness.

Adapted alike to all operations in preparing a real seed bed, drilling, harvesting; is ideal for threshing and other belt work, and has three speeds on the road.

Sold subject to three day trial, demonstrating on your own work its ability to fulfill

### OUR GUARANTEE

We guarantee The Sandusky Tractor to handle four 14-inch mold board plows 8 inches deep where a big team can pull a 12-inch plow 6 inches deep; to run belt machinery up to 32-inch separator; to have one-third reserve over drawbar rating, and for one year against defective workmanship and material.

Equipped with our own four cylinder, four cycle, 5 x 6 1/2 heavy duty, slow speed, vertical motor; 2 1/2 inch crankshaft; 31 inches of motor bearing surface; all four bolt bearings; positive self-contained combination force feed and splash oiling systems. Motor set crosswise to frame eliminating objectionable bevel gear drive; removable underpan permitting taking up or replacing bearings, connecting rod, rings or entire piston without disturbing any other part of tractor. Three speed selective transmission, 2 to 5 1/2 miles per hour with direct drive on low; three point spring suspension; all steel construction; light weight; small overall dimensions and short turning brakes; easily handled; surplus cooling capacity.

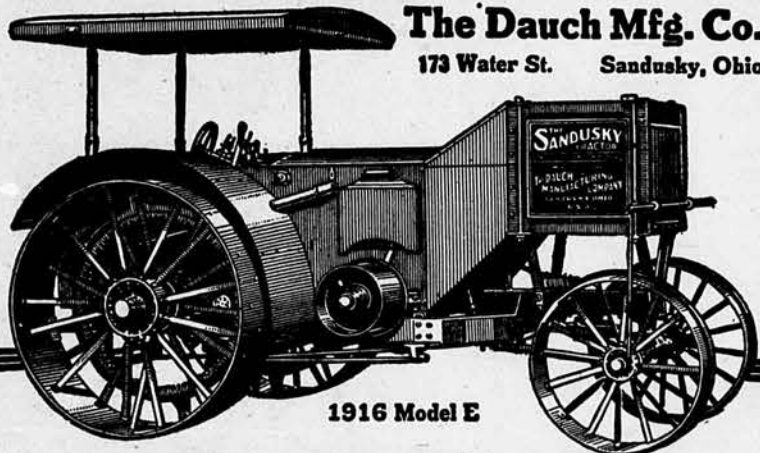
The Sandusky Tractor, its motor, and transmission were each awarded the Gold Medal at the Panama-California Exposition. Also highest award Silver Medal at Society for Improvement of Agriculture Exposition, Lancashire, England.

### Book "Power on the Farm" Free

Write for a copy of the new 40-page edition covering the latest refined 1916 Model E, its uses, and containing other valuable information. Tell us fully about your power problems and we'll gladly help you solve them without obligating you in any way.

**The Dauch Mfg. Co.**

173 Water St. Sandusky, Ohio



1916 Model E

**\$20.00 FREIGHT PREPAID**



**Most Profitable Farm Tool**  
Cooked feed fattens cattle, hogs, and poultry in less time and at a saving of 50 per cent over raw feed. It is more palatable, wholesome and easily digested, every particle going into meat making. Free of disease germs.

**THE COLUMBIAN COMBINATION FEED COOKER AND SCALDING VAT** is used for cooking grain and vegetables for stock and poultry, scalding hogs, rendering lard, making soap, heating water, out-buildings and a hundred other uses.

**VAT** is separate from furnace and is made of best grade No. 20 gauge galvanized metal, reinforced with heavy angle iron. Capacity 160 gallons—six feet long, 20 inches wide at bottom, 30 at top, 18 inches deep. Has extra perforated false bottom preventing feed sticking to bottom.

**FURNACE** is made of range steel, round bottom, reinforced with angle iron and has angle iron legs. Has heavy door with draft regulator. Burns anything; coals, chunks, fence posts. Equipped with grates for burning coal. Six feet smoke stack furnished.

**SMOKE YOUR OWN MEAT** in a COLUMBIAN METAL SMOKE HOUSE. Give it that natural flavor which is lost when liquid smoke is employed. Why should you pay packing houses their profit and freight two ways on your meat. You can save enough on these two items alone to pay for a Columbian. It is made of best grade No. 24 gauge galvanized metal. Sectional easy to erect! Has revolving meat rack, making it easy to fill or empty.

**SEND IN YOUR ORDER TODAY.** Simply give us the name of your bank and we will make shipment draft attached to bill of lading. Think of it—a Smoke House for \$25.00 or a Cooker and Scalding Vat for \$20.00 delivered at your station. Pay for them when you get them. Also sold by most dealers. Order today.

**COLUMBIAN STEEL TANK COMPANY** 1622 West 12th St., Kansas City, Mo.

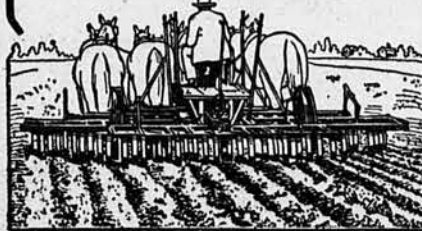
Manufacturers of "The Gold Medal Line of Tanks for the World"

Write for Circular giving delivered prices on hog raising equipment.



## Stop Soil Blowing

You can effectively prevent soil blowing and conserve moisture with the Forkner Great Western Weeder. Don't burn the straw—save the humus and incorporate it in the soil with this wonderful machine.



### NO CLOGGING

—no soil blowing—newest and greatest success for summer-fallowing wheat land. Write for catalog and free book, "Modern Soil Tillage".

**LIGHT DRAFT HARROW CO.**  
Dept. 407 Marshalltown, Iowa

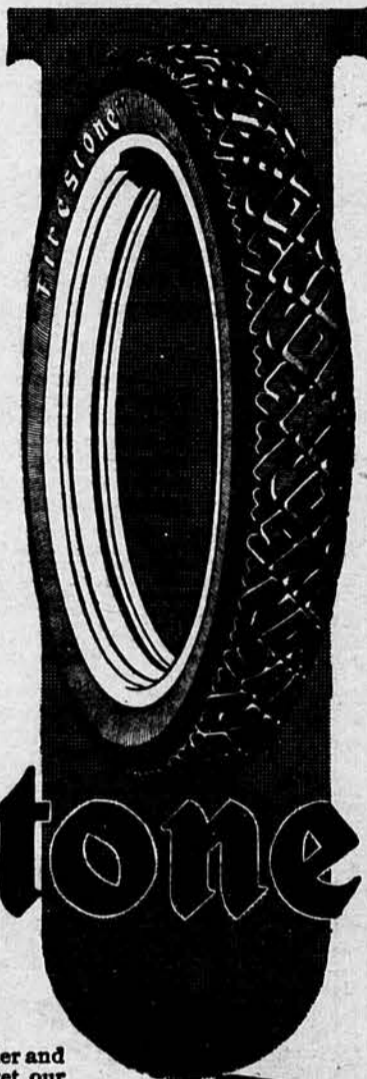
# The Red Side Wall and Black Tread

This handsome design and color combination, the trade-mark "red and black," now distinguishes Firestone Tires and gives distinction to any car.

You have become used to Firestone sturdiness and toughness, which means "Most Miles per Dollar."

You have learned to expect that Firestone resiliency will give you easiest, most reliable riding.

Now you have the greatest possible style and fine appearance which can be built into a tire.



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Write for my big catalog of Harness and Saddle BARGAINS, Bridles, Horse Collars, Strap Work, Whips, Etc.

**FROM DUVE (The Maker) TO YOU at WHOLESALE PRICES!**

Get my free book, try my harness, then you'll never quit me. DUVE'S goods are dependable. Guaranteed against any defect. Write today, NOW, for my free book. A postal will do. Address **DUVE, The Harness Man, 311 South 7th Street, St. Joseph, Mo.**

Old "Bob" says:—

When I Ache,  
When I'm Rheumatic  
Please use—

## SLOAN'S LINIMENT



\$'s can be saved by treating your horse in time. Cuts, coughs, shoulder lameness, influenza and allied aches are reached by this penetrating liniment. Every provident home needs a bottle for emergencies. 25c. & 50c.

The \$1.00 size contains six times the 25c. size



## Gates and Other Things

Some Ideas to Use When You Have Time to Fix Up About the Place. Inventions of Farm Folks.

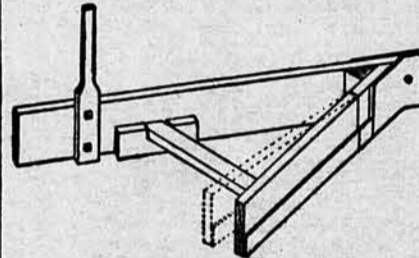
**M**Y adjustable "V" scraper or crowder proves useful for many kinds of work, and especially in winter for clearing walks or roads of snow. The sketch, I think, explains its construction fully. It is well to cover the prow with

either side. It is impossible for this gate to blow open or work loose.

J. W. Farmer.

### An Oklahoma Gate Latch

I have invented a handy latch for the cow lot gate. It will not open of itself, but it can easily be opened by the foot. The latch (D) is held in place by the weight (A). The footpiece (B) is bolted through the center to one of the slats in the gate, and at one end to the upright piece C. The piece C is also bolted to D. Step on the footpiece and the latch



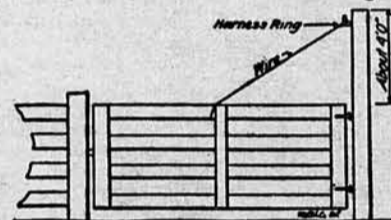
For Clearing Roads or Walks.

a piece of sheetiron. The adjustable, or hinged side may be made like the other, in one solid, hingeless piece if you wish.

Dana Fox.

### Good Way to Keep up a Gate

A sagging gate is vexing enough at any time, but with snow on the ground is worse yet. As a means to prevent the sagging no method equals that shown in the sketch. Back post is allowed to extend about 4 feet above gate.



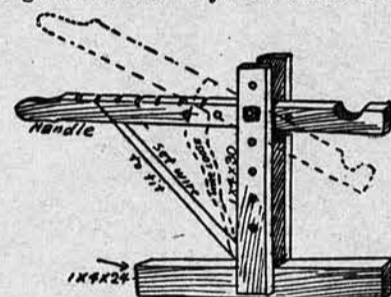
Wire Support Turns on Ring.

An iron is driven in post near top; a harness ring is dropped over this and a wire reaches from ring to center of gate. This arrangement cannot be beaten.

L. E. Kerr.

### Handy Wagon or Buggy Jack

Take a 24-inch length of 1 by 4 board for a base and nail a 30-inch 1 by 4 upright on each side. Bore 1/2-inch holes through these uprights every 3 inches the full length of both boards. Fit a 30-inch piece of 1 by 4 between them for a lever, with several 1/2-inch holes through it so it can be adjusted to any position, and with grooves in the upper edge. A length of common hay wire will hold the



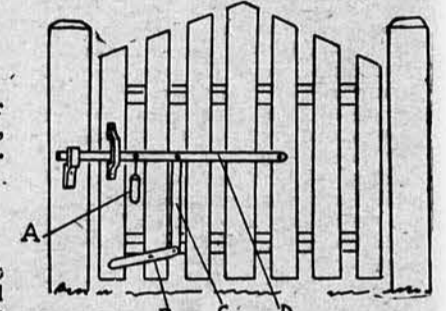
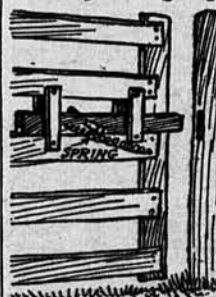
Works on Any Vehicle.

adjustment for heavy wagons, etc. If a stronger jack is needed the 1 by 4's may be replaced by lumber of 2 by 4 dimensions.

Frank N. Unger.

### Gate Latch with a Spring

A simple device for a gate latch is made by fitting a piece of 1 by 3 about 18 inches long between two slats of the gate and fastening it in place by cleats. Fasten a spring to the latch at one end, and fasten the other to the gate upright or to one of the boards. When the gate is opened or closed the latch will spring into place the moment it is released. End of latch fits into a slot in the post. Fit a peg into the latch, and the gate can be opened easily from



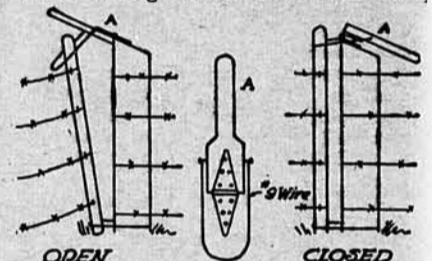
Opens With the Foot.

springs up. There are two of these foot pieces, one on either side of the gate, so it can be opened from either side.

Roy Kinnebrew.

### A Gate Fastener

I am sending a plan of a gate fastener which is convenient and which can be opened easily. The fastener consists of a strip of wood (A) 2 by 4 by 12 inches, with one end shaped for a handle. A 10-penny nail is driven into each side and a loop of No. 9 wire attached. One half of a hinge is fastened to the wide



end of this handle. The other half is bolted to the top of gate post, which is cut slanting as in illustration. The wire goes over the endstick on gate, which is notched so wire will not slip off. When handle is down the wire holding gate is below the center of hinge. When it is desired to open the gate the handle is turned over, which loosens the wire. When gate is closed the wire is stretched tight, but it can be opened by a boy or woman.

Harvey Comforth.

### The Angus Breeders Met

The Kansas Aberdeen Angus Breeders' association met at Topeka last week to form plans for the coming year. It was decided that the breeders of the state will make up a show herd, which will be taken to the two state fairs in Kansas and to some of the more important shows in other states. There was an excellent spirit of co-operation developed in this meeting. The breeders believe that they can advance the interests of the breed more rapidly by working together. The officers of this association are George McAdam of Holton, president, and William Ljungdahl, Manhattan, secretary. The executive committee is composed of Mr. Ljungdahl, W. A. Cochel, Manhattan, and E. L. Barrier, Eureka.

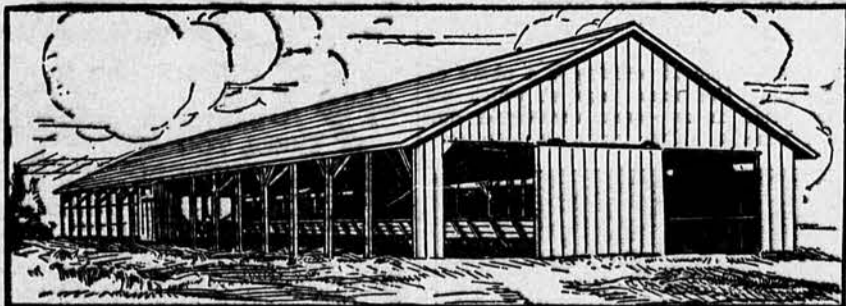
### J. T. Bayer is Dead

J. T. Bayer of Yates Center, a leading livestock farmer of Woodson county, died recently on his farm near that town. Mr. Bayer was especially prominent in the breeding of Berkshire hogs and Shorthorn cattle. He did a great deal in helping to establish livestock farming in Woodson county on a better basis.

The minute a pig begins to "go back" you begin to lose money. Keep them all growing, and growing as fast as you can.

## A Simple, Hay-Feeding Shed

(Courtesy Breeder's Gazette.)



HERE is the bill for lumber needed to build this kind of a feeding shed. The feeding trough runs the entire length of the structure.

10-2x4-12	32-2x6-18
3-2x6-8	4-2x6-20
3-2x6-10	4-2x8-10
8-2x6-12	12-2x8-20
8-2x8-14	18-2x8-24

1450 feet. 1x10 or 1x12 Sheathing.  
999 feet. 1x4 Lathing for Roof.  
11 M Shingles.

### For Trough.

4-2x4-8	2-2x6-10
15-2x4-10	2-2x6-20
4-2x4-12	4-2x8-10
2-2x4-20	

300 feet. 1x12 Boards for Lining.

### The Winter's Work

BY C. E. WOODS.

Right now while in the icy clutch of winter, when we do little real work, is a good time, in fact the only time, in which to do a number of things that need doing. Annually, at this time of the year, we are urged "Now is the time to oil and mend the harness, and get the tools in readiness." Yes, but don't stop there. Spend an hour doing some mental figuring. There are a dozen and one things that could be done to lighten work and save steps for the whole year through. When the proper time comes you can go right to work on the things you planned.

Are the gates a "convenience" or a "patience-trying, labor-making necessity"? When a fit day comes, get out the hammer and nails, and fix the hinges, readjust the gate so as to make it swing clear.

Are things conveniently arranged in the barns and other outbuildings? Now is the time to fix the mangers; mend the ladders; install new labor saving devices; refloor any buildings needing it; put up shelves and hooks to hold the various things that are stowed "most anywhere handy." Fix up the cellar; safeguard against an accident in the dark from miscalculating the number of steps, by painting the lower step white, or better still, cover it with some soft cloth. Then one with dim sight will not be in danger of falling.

If there is an empty building, or one that can be spared, clear it out, and turn it into a toolhouse or work shop. You'll never know till after it has been in use, how much it is needed. Put up sets of shelves, rows of nails, pegs or hooks; make a work bench; set up the vise, forge and grindstone; sort over the bolts, nuts, washers, nails and screws and put them into little boxes. It is a job to claw around among a miscellaneous collection of such things, to find something.

If not well lighted, put in plenty of windows, and last, but not least, set up a stove, and a big woodbox. On cold days when you can't work, build up a roaring fire, and go to work doing the innumerable things that ought to be done, but which cannot be done in cold weather because of no suitable place in which to work.

### Oil for Earth Roads

We have received a very interesting letter from Clifford Roberts, vice-president of the Good Roads Company of Kansas City. Once in a while we get a letter from a man who makes something for sale and discover that his information properly belongs in the advertising columns, this being the way in which publishers earn a living. In this instance we encounter the manufactured article, but it is something so exceedingly important that we believe the interests of our readers demand that the letter receive publicity.

Mr. Roberts's company makes a certain kind of road oiler. He has been demonstrating its value, in and about

Kansas City, on country roads. Whatever is good for roads, of course, is worth discussing in these columns without regard to who makes it or whether it is advertised. Therefore, family, we are going to print some of Mr. Roberts's letter; notice, if you please, that this has to do with earth roads—not macadam:

"We have proved in these demonstrations," says the letter, "that the only right way to maintain hard surfaced country highways is with regular applications of road oil. We believe, also, that we have proved the practicability of building oiled earth roads. There is no question about the oiled earth road being much cheaper to construct and maintain. Our demonstrations brought out the fact that our machine atomizes the oil perfectly, applying it to the surface under 125 pounds of air pressure giving every square inch exactly the same amount, which greatly aids penetration."

We showed this letter to D. Ward King, the road-drag man of Missouri, who chanced to be in town the day it came. He approves every word of it, and says Missouri counties, in several instances, intend to adopt this method of treating earth roads. Mr. King believes this an ideal way to improve country roads, and not an expensive way.

"We must have good earth roads, properly maintained," said Mr. King, "before we try to get hard surface roads. It is a matter of education. I have never seen a farmer who wouldn't travel several extra miles to get on a good macadam road. Indeed, in our county—in Missouri—we are now going to issue bonds to make permanent roads."

### PRESSED HARD

#### Coffee's Weight on Old Age.

When people realize the injurious effects of coffee and the better health that a change to Postum can bring, they are usually glad to lend their testimony for the benefit of others.

"My mother, since her early childhood, was an inveterate coffee drinker, had been troubled with her heart for a number of years and complained of that 'weak-all-over' feeling and sick stomach."

"Some time ago I was making a visit to a distant part of the country and took dinner with one of the merchants of the place. I noticed a somewhat unusual flavour of the 'coffee' and asked him concerning it. He replied that it was Postum."

"I was so pleased with it that I bought a package to carry home with me, and had wife prepare some for the next meal. The whole family liked it so well that we discontinued coffee and used Postum entirely."

"I had been very anxious concerning my mother's condition, but we noticed that after using Postum for a short time she felt much better, had little trouble with her heart, and no sick stomach; that the headaches were not so frequent, and her general condition much improved. This continued until she was well and hearty."

"I know Postum has benefited myself and the other members of the family, especially my mother, as she was a victim of long standing." Name given by Postum Co., Battle Creek, Mich.

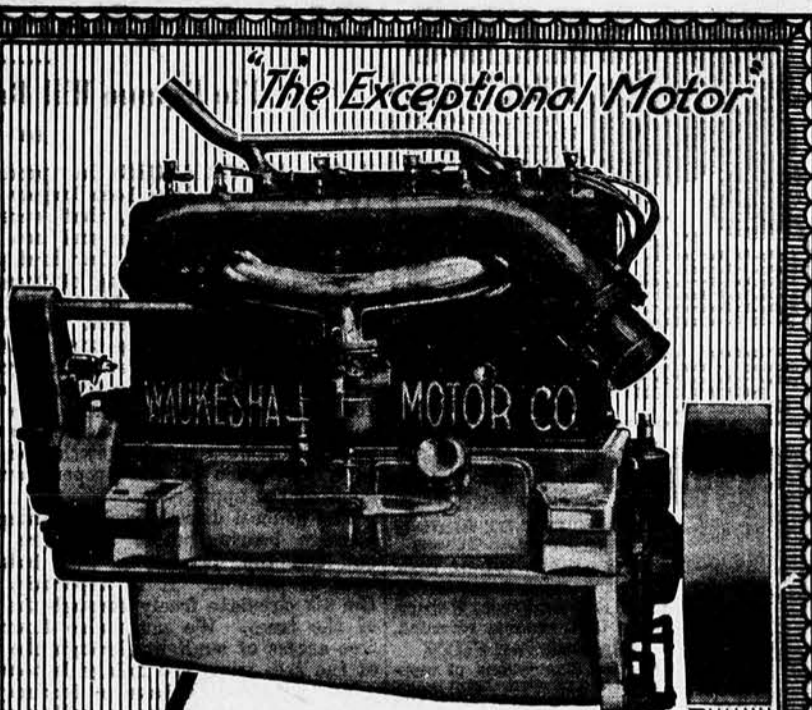
Postum comes in two forms: Postum Cereal—the original form—must be well boiled. 15c and 25c packages.

Instant Postum—a soluble powder—dissolves quickly in a cup of hot water, and, with cream and sugar, makes a delicious beverage instantly. 30c and 50c tins.

Both kinds are equally delicious and cost about the same per cup.

"There's a Reason" for Postum.

—sold by Grocers.



## A Message To Tractor Buyers

If you are trying to decide which tractor to buy, or if you expect to be in the market for a tractor this season, you ought to know the reasons why more than a score of America's leading tractor builders are using

**Waukesha**  
TRADE MARK

## TRACTOR MOTORS

as standard equipment. In justice to yourself and for the sake of your pocketbook, you ought to become acquainted with the facts that have convinced all these tractor builders that Waukesha Nickel Chrome Steel Motors solve the tractor power problem better than any other motors they could buy or build.

In other words, Waukesha Motors have successfully passed the severest tests that the engineering forces of all these concerns could devise. The reason why Waukesha Motors are so universally preferred for tractor power is Waukesha quality and Waukesha performance—not price, for Waukesha Motors are not sold on the basis of price. Manufacturers gladly pay more for Waukesha Motors because they know that by doing so they can give better tractor value.

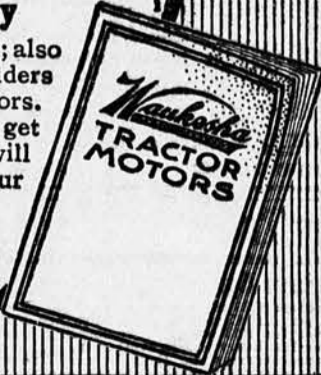
### Write for this Free Book

It tells you all about Waukesha Nickel Chrome Steel Motors—how they are built—why they are better. It shows clearly why you should

### Demand a Waukesha Motor in the Tractor You Buy

Write today for this free book; also ask for list of tractor builders who use Waukesha Motors. Spend a cent for a stamp to get the information that will guide you aright in your tractor purchase.

**Waukesha Motor Co.**  
207 Factory Street  
Waukesha,  
Wis.



There are too many scrap-heaps on the farms of this country. Most of them are made up of tools that might be in use today if they had been well cared for.

If we had not put in our ice the first chance we had last winter, we should not have put in any at all. It may be a pretty good rule to follow this season.

## SEEDS

Fresh, Reliable, Pure  
Guaranteed to Please

Every Gardener and  
Planter should test the  
superior merits of Our  
Northern Grown Seeds.

**SPECIAL OFFER**  
**FOR 10 CENTS**  
we will send postpaid our  
**FAMOUS COLLECTION**

1 pkg. 60 Day Tomato	30c
1 pkg. Princess Radish	10c
1 pkg. Self-sowing Celery	20c
1 pkg. Early Arrow-head Cabbage	15c
1 pkg. Fullerton Market Lettuce	10c
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# Old Orchards Need Pruning

The Expense Will Be Made Back in the First Crop

BY VAL KEYSER

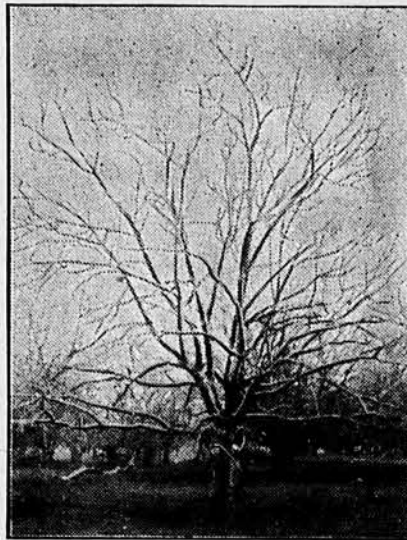
**M**Y EXPERIENCES in producing apple crops have been largely with neglected orchards, that were unprofitable to the owner and not very inviting to the grower. Our first problem has been the pruning of these orchards. It is difficult to describe just how an apple tree should be pruned. We rarely ever find two trees that can be pruned exactly alike. The grower usually allows the apple trees to carry too much superfluous wood. The food supply and energy of the tree is used up in worthless wood growth and acts as a hindrance to the proper development of the apple crop.

The general directions for pruning the average bearing apple trees are, thin out the top, leaving a well balanced head if possible. It is important that the air circulate freely through the tops of the trees. We must also figure on free access of sunlight through the head of the tree when the foliage is heaviest.

Varieties which have a tendency to grow too tall, producing rather weak, slender limbs and branches like Missouri Pippin and Iowa Blush, should be headed back and not allowed to develop in their natural manner. The heading back practice will produce shorter, thicker growth. It facilitates spraying and makes it much easier to pick the fruit from the tree. Some varieties like Grimes Golden, Rome Beauty and Delicious have a habit of bearing their fruit, well distributed throughout the head of the tree. These varieties may be pruned with a somewhat thicker head than would be advisable in pruning Winesap, Jonathan or trees of a Ben Davis type.

In handling the average neglected orchard in eastern Kansas all of the

The real value of pruning is a phase of producing the apple crop in which we have tried to keep some records for our own benefit. This factor is also var-



After Pruning, But Needs Topping.

iable with the age and size of the trees. It is also affected by the vitality of the trees and is especially noticeable in working with a large number of varieties. Taking for example a 15-year-old orchard of mostly Winesap varieties, we estimate the value of pruning alone to net the grower from \$1 to \$4 a tree. We never have noted a single instance of loss, either in amount of fruit produced or size and quality of the fruit which could be justly charged against pruning where the job was properly done. Invariably proper pruning will pay for itself in the first season's crop.

What is the best time of the year to prune an apple tree? Most experts on the care and culture of apple trees regard pruning in June as most beneficial. However, most of the trees in the United States, which are fortunate enough to receive a proper pruning must be pruned during the winter months.

## Institutes for February

Here is a list of the farm and home institutes to be held during the first part of February as announced by Edward C. Johnson, dean, division of extension, Kansas State Agricultural college, Manhattan.

Feb. 1, Alton; 2-3, Osborne; 4, Kirwin; 5, Logan; 7, Lenora; 8, Norton; 9, Norcatur; 10, Long Island; 11-12, Alma. Speakers, Carl P. Thompson, specialist in animal husbandry and Miss Alice Poulter, specialist in home economics.

Feb. 1, Norway; 2, Republic; 3, Courtland; 4-5, Phillipsburg; 7, Agra; 8, Athol; 9-10, Smith Center; 11, Oak Hill. Speakers: A. R. Losh, road engineer and Miss Marion Hepworth.

Feb. 1, Eskridge; 2, Harveyville, 3, Osage City; 5, Waverly; 7, Richmond; 8, Lane; 9-10, Olathe; 11-12, Baldwin. Speakers: Miss Louise Caldwell, entire circuit. Dr. C. A. Pyle first week and Carl G. Elling district agricultural agent Southeast Kansas, second week.

Jan. 31, Macksville; Feb. 1, Belpre; 2-3, St. John; 4-5, Kinsley; 7-8, Cimarron; 9, Jetmore; 10, Burdett; 11-12, Larned. Speakers: G. E. Thompson, specialist in crops, and Miss Mary Hoover.

Feb. 1-2, Mapleton; 3, Hiattville; 4-5, Erie; 7, Buffalo; 8-9, Fredonia; 10, Benedict; 11, Cherokee. Speakers: Ross M. Sherwood, specialist in poultry, and Miss Stella Mather.

## True to Her Sex

An old colored woman was sitting with knees crossed in the shoe department of a large store when a young woman clerk stepped up to her.

"Aunty, what size of shoe do you wear?" she inquired.

"Well, honey! I kin wear eights and I generally wear nines; but dese yer I'se got on are twelves, and de good Lord knows dey hurt me."—National Monthly.

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## The Saw Needs More Power

Fill the Radiator of the Motor Car Properly

BY HENRY HATCH

SEASONABLE winter weather has relieved the fears of those who think that a springlike winter means a wintry spring. And there is something to this theory, after all. A snug winter is pretty likely to be followed by an early spring although this is not always the case.

The buzz saw works all right with the iron-hard Red elm sticks, but the engine is scarcely powerful enough for the job. It does very well, given its time, but it will not be hurried. It would be better if we had a 4 horse power engine for this 20-inch saw instead of the 2 horse power engine we are using.

An occasional motor car passes these days but the roads are in such a condition that for most trips a team is best. During the last two weeks, we have had several light snows mixed in with a little rain, which have roughened up the roads to quite an extent, and they are now frozen in this rough condition. The rural carrier came yesterday in his car and had no trouble in making good time, but the rough places evidently did not make his trip a comfortable one.

The directions which came with the new motor car said that it was not good policy to leave the radiator empty during cold weather; that it was much more likely to rust while empty and for that reason should be kept full. As it would be impossible to leave clear water in the radiator this cold weather they recommended a mixture of 40 per cent denatured alcohol and 60 per cent water which they say will stand almost any degree of cold we are likely to have in this latitude. So we sent and got 5 gallons of the alcohol and will use it in the radiator during this winter.

If the car is in use the alcohol will evaporate a little faster than the water and for this reason it should be added in a little greater proportion than 40 per cent. The best plan is to get a tester which will tell the exact degree of cold the mixture you have in your radiator will stand. Such a tester cost us 95 cents and with that we feel safe. Some other mixtures recommended for winter use in radiators contain glycerine but our directions say that while glycerine will not evaporate and is good for the radiator it is bad for the rubber hose connections and will soon rot them out. So we thought best to use the plain alcohol mixture. Denatured alcohol for this use can be bought from the mail order houses for about 65 cents a gallon.

Up to January 4 plows were running in many fields in this locality, but the cold snap has put a stop to that work for the present. A great deal of plowing has been done this winter but what results it will give can better be told next fall. Winter plowing in this soil stands wet weather well and the best corn raised in this county in 1915 grew on fall or winter plowing. When the spring and summer are dry I doubt if winter plowing produces as well as either spring or early fall plowing. In the spring wheat belt we used to think that the earlier we could get our fall plowing done the better chance we had for a crop the next

year. The same rule holds good with corn here, I think, and I would much prefer to have my corn ground plowed in August rather than in October or later.

Probably the best way of handling winter plowing for corn is to disk it down early next spring and then list it instead of disking, harrowing and then top planting. Land worked in this fashion handles very nicely and takes much less horsepower to cultivate. If I had light upland soil which was winter plowed I should much prefer to list it the following spring than to top plant unless the land was so level that it would not drain.

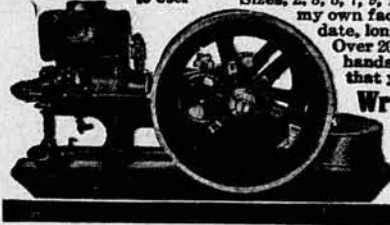
Every two weeks there is a horse sale at Burlington, our county seat, at which any horse that may be brought in is put up and sold by the best salesmen in the county. These sales attract immense crowds and have been a feature for the last four years. The sale is held in a big barn which will hold any crowd that may come and so is never postponed on account of the weather. On each horse sold a commission of 1 1/2 per cent must be paid but on no horse is a less charge than 75 cents made. The truth must be told about each horse as he is put up for sale and if he is misrepresented in any way the buyer has the privilege of rejecting him inside of 24 hours. Of course the best horses seldom pass through this sale ring although there are many good horses sold there. But on the whole it is a clearing house for second grade stock and is much frequented by men who are looking for something cheap.

Up in Nebraska for the last four or five years the railroads have been running trains which contained schools telling farmers how to raise and care for orchards and how to get the best results in potato growing. The other day they turned around and deliberately destroyed the fruits of all this teaching by making a ruling which prohibits the selling of potatoes or apples from cars. This ruling was inspired by retail dealers, of course, who must have a strong pull to be enabled to get the railroads to so antagonize the farmers. I do not believe Kansas railroads would make such a ruling.

Of all created beings I think a hen is the biggest fool especially when she is caught out in a snowstorm a little way from the henhouse. We put in a full half hour the other evening trying to get our hens in the house. A snow had fallen during the day and they would sit huddled up in it within a few feet of their house rather than make a move to get under cover. They were scattered all over the yards and we had to drive each and every one inside. Had we not done so they would have sat outside in the snow all night. In fact, one or two we missed did sit out all night and crept into the door of the henhouse the next morning looking most miserable. Trouble is to be expected in getting hens inside when they have roosted out all summer, but these hens had not roosted out. They had been in their house every night since they were hatched.



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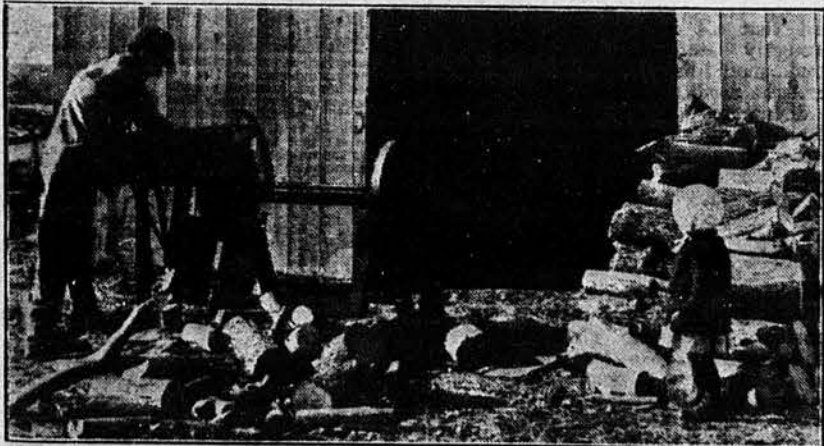
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The Buzz Saw Does Good Work, But on the Dead Timber It Needs at Least Four Horsepower.

# More Hogs Are Much Needed

Grain Sorghums and Alfalfa Solve the Feed Problems

BY LEE H. GOULD

W. H. FREED, a young farmer living east of Dodge City, told me that his pigs would not grow. He was feeding them all they would eat and still they did not do well. He said he was feeding corn. There was plenty of alfalfa on the farm and he also had alfalfa pasture. It was suggested that the hogs be fed some alfalfa hay, and Mr. Freed agreed to try it. The hogs have been making good gains ever since. A little more than a year ago Mr. Freed invested \$36 in some brood sows. He used his alfalfa hay during the fall and winter and his alfalfa pasture in the summer. His grain ration consisted of corn, barley and kafir-feeds that he had on the farm. About \$100 worth of grain was fed to the sows and their litters from the time they were bought until they were sold. He marketed his bunch of hogs recently and the gross returns were \$234—enough to pay for the original hogs and the grain and have a profit of about \$100.

Although western Kansas is not considered a hog raising country, Mr. Freed's experience shows what can be done with hogs if a little common sense and science are mixed together. The hog even in western Kansas brings the quickest returns of any class of livestock grown on the farm, and the profits are largest when the amount invested is considered.

There are but two drawbacks to hog growing in western Kansas—the lack of corn and the risk of cholera. The lack of corn is overcome easily. Western Kansas produces some of the best kafir, milo and feterita that grows. This grain is practically as good as corn when fed in the proper manner. When fed with alfalfa or tankage any of the grain sorghums are excellent hog feed. The danger of hog cholera can be eliminated entirely by vaccinating in the proper manner and time.

For the upland farmer, who does not have the alfalfa for pasturing his hogs in the summer, Sudan grass is an excellent substitute. On the farm of J. E. McQuillin, 9 miles southeast of Dodge City, Sudan grass and rape were planted in the same field for hog pasture. Mr. McQuillin had 60 head of hogs and when he turned them in the small pasture where he had planted the Sudan grass and the rape it did not take very long for the hogs to eat all there was in sight. The hogs, however, liked the Sudan grass better than the rape. They ate it so close to the ground that it was killed before they began eating on the rape.

On the farm of W. H. Gould of Wilroads, 3 acres of Sudan grass was sown in the spring for hog pasture. From 90 to 100 hogs were pastured on this field from the first of June until the grass was frosted down in the fall. Very little grain was fed and the hogs came through in good shape. They were in a thrifty condition and had made a good growth.



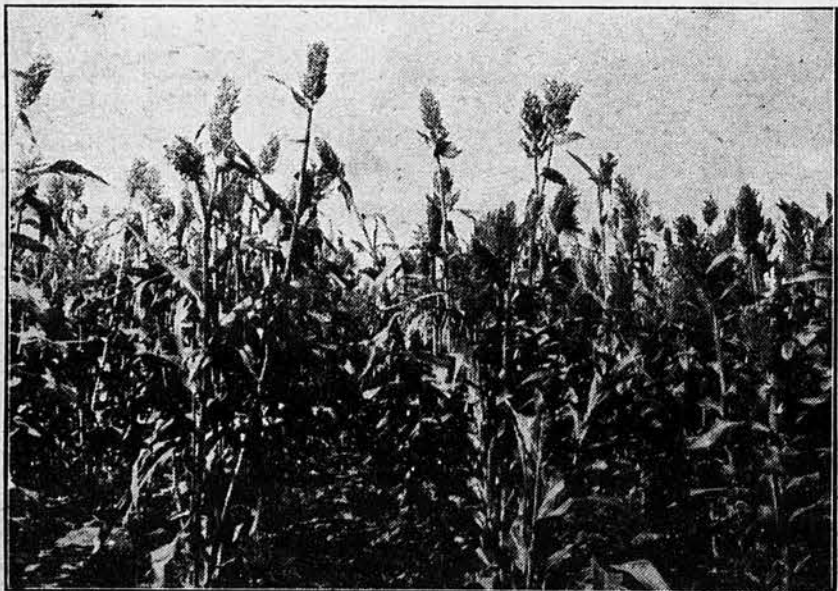
Dr. James W. Benner and Lee H. Gould Vaccinating Hogs on the Farm of R. Mills of Wilroads.

Hog cholera seldom is the cause of much loss of hogs in western Kansas. This year has been an exception. Hogs have died by the hundreds in Ford, Clark and Finney counties. Many farmers did not believe the disease was cholera, but there are few doubters left. When the disease first appeared a telegram was sent to the veterinary department at the Kansas State Agricultural college requesting the services of a veterinarian. Dr. James W. Benner came immediately, bringing enough serum with him to vaccinate more than 400 head. This seemed to be all that was required at that time.

Dr. P. J. Meenen, who had charge of the distributing station for the college at Wichita, then came out and vaccinated about 1,000 head. Dr. Meenen stayed as long as there was any call for his services, and then went back to Wichita. In a short time after this the cholera showed up in several places and it seemed there was nothing for the agricultural agent to do but to get busy and make a "Vet" of himself. J. H. Mercer, state livestock sanitary commissioner, issued him a permit and he began vaccinating.

The two veterinarians, sent out from the college, and the district agricultural agent have vaccinated 2,873 hogs since the outbreak first appeared and the work is not all done yet. In addition to this Dr. J. F. Dondanville of Dodge City has vaccinated about 1,000 head.

The simultaneous treatment has been very successful in herds where there was no sickness. Some of the demonstrations have been so striking that no one can doubt the advisability of vaccinating, especially when it is known that the cholera is in the community.



A Field of Feterita in Ford County—Grain Sorghums and Alfalfa Hay Make Excellent Hog Feeds for Western Kansas.

The first cholera in the vicinity of Dodge City appeared on the Ward Ranch east of town. Mr. Ward did not vaccinate and consequently lost most of his herd of 100 hogs. A neighbor, W. H. Lord, telegraphed for serum and vaccinated his herd as soon as possible. Mr. Lord lost but one hog and he says that he thinks this one was injured in handling. There was nothing but a woven wire fence between the two herds when the disease first appeared.

H. M. Gearhart of Wilroads is another farmer who is glad he vaccinated his hogs, although he waited too long before he did the work. When Dr. Benner arrived at the Gearhart farm several hogs had died. There were 15 or 20 sick ones in the herd that was left. The doctor was going to take temperatures and throw out the ones that showed high temperatures, but Mr. Gearhart insisted that he vaccinate the entire herd. Of the 89 head vaccinated more than 50 per cent was saved.

Some interesting and amusing things have happened among the farmers during the cholera epidemic. One farmer had heard that kerosene would cure the cholera so he made a funnel by cutting a hole in the toe of an old shoe and proceeded to pour kerosene in a few of his hogs. The result was that he had some dead ones just a little sooner than he otherwise would have had. After his method failed he called the agent and had him order serum and vaccinate the remainder of the herd. Thirty-five head were vaccinated and only one died after the vaccination. Another farmer thought he had a cure for hog cholera and was willing to risk some money on it. He heard of a herd that was for sale at a bargain. There were some sick ones in the bunch but that did not matter. He bought 200 head for \$800 and took them home. The hogs continued to die and his remedy and his confidence in it cost him considerable money. It is quite likely that had he vaccinated the bunch he would have made some money on them.

In vaccinating hogs it is very important to have a close pen in which to catch them. This prevents any unnecessary excitement and aids materially in the time saved in getting the work done. If a farmer has a close pen and plenty of men on the job to assist in the work it takes only a short time to do the work. On the farm of E. O. Osborn, east of Dodge City, the agent with the assistance of three men vaccinated 31 pigs in 16 minutes. Mr. Osborn had 70 head to vaccinate, including pigs, shotes and sows. It took just 50 minutes to vaccinate the bunch after everything was in readiness.

If there is a big boar in the bunch one of the first questions the farmer usually asks is, "How are you going to handle that fellow?" There is nothing easier when you know how. Take a rope, make a noose, get the rope in the mouth back of the tusks and pull on the rope and you have him. Tie the rope to a post and the boar will pull back and squeal. You are perfectly safe then in going ahead and putting the serum in his neck. While you have him tied it is a good thing to take a pair of hoof trimmers and take the tusks off. It is also much easier to handle big sows with a rope in the same manner. Small pigs can be caught by the front legs while the operator injects the serum in the arm pits. Shotes are most efficiently handled by turning them on their backs for the operation.

In vaccinating it should be remembered that all instruments should be thoroughly sterilized and that the wounds should be disinfected. The place where the needle is inserted also should be disinfected before the operation. Iodine or a solution of Pearson's Creolin can be used for this purpose. If these precautions are taken there is very little danger of abscesses.

## Oklahoma Stock Show

Oklahoma is to have a livestock exposition. It is the Southwest Live Stock Exposition, and some \$6,000 in prizes will be awarded the winning animals. The exposition will open March 3 at Oklahoma City and close the following Friday. Several breeders' sales will be held in conjunction with the show. Several meetings have been held, and from the outlook a big show will result.

## EVERY MINUTE

of every day for over twenty years our advice and treatments have been on the way wherever mails go and horses are. You risk nothing by writing; it will cost you nothing for advice, and there will be no string to it.

Dr. O. T. Atwell, Zanesville, Ohio, writes: "Having used Save-The-Horse with remarkable results in removing a pastern joint enlargement, I naturally turn to you when in trouble again," etc.

John E. Lingo & Son, Sparmakers, Yard and Office, Foot of Elm St., Camden, N. J., write: "The mare 'Troublesome' was very lame in the hip three years ago. One bottle put her to the races again in less than two weeks. She has never taken a lame step since, and has done a lot of racing. I would appreciate your opinion on another case," etc.

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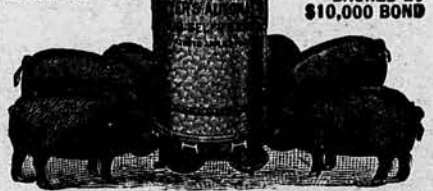
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TROY CHEMICAL CO., 15 Commerce Ave., Binghamton, N. Y. Druggists Everywhere sell Save-The-Horse with COMPLETE, or we send by Parcel Post or Express paid.

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ROWE MFG. CO., 753 Liberty St., Galesburg, Ill.

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helps fatten your stock—keeps them healthy and increases flow of milk from your cows. With the Milwaukee Air Power Water System you can have an unfailing supply of pure, fresh water "direct from the well" anywhere about the house or barn, without the use of a storage tank. Write for illustrated catalog and price list today.  
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SCANDIA FISH CO., Dock 5, Duluth, Minn.

# A Pig Club Boy Won the Cash

Dixie Youngsters are Doing Things With Swine

BY JOHN F. CASE  
Contest Manager

**C**APPER Pig Club boys not only have an opportunity to win prizes ranging from \$5 to \$25 in the contest, but Arthur Capper has agreed to duplicate every cash prize won by the contest sows when entered at the home county fair. And as almost every member is investing in a top-notch sow, many of them coming from herds with show records, we can expect to have the pleasure of sending out a lot of checks this fall. More than half of the counties in Kansas hold fairs. Almost all of the fair associations offer liberal premiums for swine entries. Don't lose sight of this feature of the club work, fellows. We are going after a lot of blue ribbons when the fair season begins.

Kansas boys should do as well in the pig contest game as those in Louisiana. If they do we will have something to crow about. According to Arnold Roth, assistant in pig club work for the United States Department of Agriculture there were 205 pigs in the pig club exhibit at the Louisiana State Fair last year. Of these pigs only 15 were unregistered. Many boys showed hogs for the second or third time at the state fair. Some showed their former prize winners with litters, or pigs from their first sow.

John Robert Reid, of Tallulah, La., and his prize sow and litter was the show's greatest attraction according to Mr. Roth who writes interestingly about pig club work in the Swine World. Young Reid (he is only 11 years old) exhibited a Duroc-Jersey sow, and her litter. The sow, a very fine one, had been purchased for John by his father. On March 31 she farrowed 14 pigs, one being dead. Four were lost through various causes. The other nine were fed shorts, corn, oats and skim milk on clover pasture; and this litter at the fair walked away with everything in sight. John won second in the open classes on his sow, won the National Duroc special for best sow and litter of pigs, and in the pig club classes showed the first prize Duroc sow, first prize Duroc gilt, first and second Duroc boar pig, and sweepstakes sow and boar. A total of \$122 was won by the boy. He refused \$400 for the sow and litter. Later he sold three boars and one gilt for \$260 and has now the old sow and five gilts to go into the swine business.

Boys who live in this section of the country are inclined to look upon those Dixie fellows as a rather sleepy lot of chaps. Nothing very slow about John Reid's record is there? But it isn't impossible for some hustling Kansas lad to better it. The boys who win in this contest are going to get a lot of valuable advertising. With purebred stock there's going to be a demand for the

best pigs from the prize litters for breeding purposes. And even the boys who do not win prizes will have the prestige of owning high grade swine. I'm sure that many of our club members will start the foundation for a profit making herd with his contest lot.

Many boys are writing for information about care and feed and these questions are being answered direct. Some boys

wish to add a limited ration of various grains not listed in the feed table given. There is no objection to this but permission from the contest manager must be obtained so a standard of values can be fixed. Good shelter is one of the prime essentials now. See that your contest sow has a warm place to sleep and that her quarters do not become filthy or damp.

Arthur Barlow, club member from Comanche county,

believes in seeing that his contest sow is comfortable and has plenty to eat. "Many thanks for the honored position of representing Comanche county in the Capper Pig Club contest," writes Arthur. "I have built two A-shaped hog houses, filling in between them with straw to keep out the cold. These houses were placed in a lot containing about 1 acre and sown to rye. I am feeding my sow soaked corn, kafir, and slop with a little shorts in it. She seems to be doing very well. I received the Kansas Agricultural college bulletin on the care and feeding of swine and am studying it. I am going after this to win." That's the proper spirit, Arthur. The boy who "goes after it to win" is sure to win in the big game of life. And he won't cry if he meets with a few rebuffs while climbing upward.

Seems to me that it is a real honor to represent a county in this contest. And so it seems queer that with hundreds of boys clamoring for membership in counties where an official representative already has begun work several counties have failed to enroll a single name. Isn't there any county pride in Ellis, Hodgeman, Lincoln, Rawlins, Rush, and Stanton counties? These are the counties that we desire to line up to complete the list. The closing date for enrollment is February 15, 1916. Unless some boy 12 to 18 years old living in each of these seven counties gets busy and sends in his name there will be something lacking when the roll of honor is published this fall.

Almost all of the boys receiving blanks for securing recommendations have qualified and the greater number of them have bought sows. Ten days is given to file the recommendation blank, and additional time is granted if necessary. In order that the contestant will have ample time to purchase a good sow for the contest, 30 days is given after rec-

ommendations are approved. There is no difficulty in securing either good gilts or tried sows. Kansas breeders have been more than fair with the contestants and judging by reports sent to me by the boys I am quite sure that some of them are receiving animals worth several dollars more than the price paid. Every breeder is glad to lend a helping hand. He knows that this pig club work is a great boost for the hog business and he's more than willing to help energetic youngsters get the right kind of start. These boys have filed approved recommendations since a list was published:

Name	Postoffice	County
George Liebst	Nashville	Barber
Arthur Barlow	Coldwater	Comanche
Clarence Fowkes	Wamego	Pottawatomie
Fred Harbough	Bunker Hill	Russell

Some time ago I asked club members to send in a letter telling how they expected to care for their contest sow this winter. Hugh Deaver, of Sabetha, representing Brown County had this to say: "I would have a good sized hog house and keep it clean and dry. For feed I would give corn, shorts, alfalfa hay and milk. The sow would be given a chance to exercise." As Hugh, who is 14 years old, now has a fine Chester White sow entered in the contest doubtless he is doing just what he talked about. And it sounds like a pretty good prescription. I'm always glad to hear from a club member. Tell us how you are getting along. And send a picture so the other fellows can see what kind of a looking chap you are.

## Capital a Farmer Needs

I was very much interested in an article in your paper January 8. I heartily agree with you concerning the reason why boys leave the farm for the city. However, I believe that I can further explain the situation, being a former farm boy myself.

Interest in farm life is not the controlling factor in keeping boys on the farm. The farm boy who thinks for himself realizes that to start farming he must have considerable capital. Question any farmer and he will advise one not to start farming even on a rented farm with less than \$1,000. Where is the farm boy to get this money? He must work out as a farm hand because he probably has not received any other training. But he will realize that this is practically impossible for he fully understands how long it will take him to save up that seemingly fabulous thousand. But suppose he has had training for some other position whereby he can earn and save money. Why should he not keep this position after he has saved his \$1,000? Surely his experience and money would be great factors in making him more successful in that line of business.

The farm boy, realizing all this, usually goes to town and becomes one of the multitude of men who depend upon some one else to tell them what to do. Perhaps he may be fortunate enough to become a director of men. It depends on himself alone.

I have every reason to believe that this is the reason for the majority of boys leaving the farm. My father was a farmer living on a rented farm. He owned about \$3,000 worth of stock and implements. Could or would he divide with me and give me one-third of all of his property? Certainly not. I understood this, and so when I became 18 years old I went to town and obtained work out of school hours so that I could go to school. I took what is considered a practical business course and I am now drawing a very good salary.

I certainly do not advise a boy to leave the farm if he thinks that he can afford to stay. I believe that farming is the best occupation, besides it is one of the few which is not overcrowded. Nevertheless if a boy has no financial backing he should prepare himself for some profession that requires none.

If someone has solved the question of capital for farm boys I should like to hear from him. I followed out the only course that seemed practical to me and I have never yet had cause for regretting it.

Beloit, Kan.

Frank Murphy.

Is there a good Grange near your home? Join it. If there is a poor one, join that and help make it the best anywhere around.

Next spring when you are skirmishing around for clover that will do well on wet ground, don't overlook alsike.



Hugh Deaver and Joe.

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Adjusted to temperature and 3 positions, \$25 and up, according to grade of case.

Here is the watch that has proved the favorite among thousands of farmers who realize that their work calls for an out-of-the-ordinary timepiece.

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Make blacksmith bills smaller by doing repair work at home. Our Forges are used by farmers in every State and foreign Countries. Blower is 1 1/4 inches

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**Positively Guaranteed** to be as large, durable, do as much work as any \$10 forge made and to be as represented or money refunded.

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Until March 31, 1916 we offer our two styles of Farm Forges at \$3.75 and \$4.00 each. 1 pair of tongs and 1 Anvil and Vise combined \$1.75 extra. Prompt shipment. This offer may not appear again. Write today. Send stamp for Catalog No. 41 and testimonials.  
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AUTOMOBILE TRAINING SCHOOL  
1088 Locust St.,  
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## The Capper Pig Club

Arthur Capper, Eighth and Jackson St., Topeka, Kan.

I hereby make application for selection as the representative of-

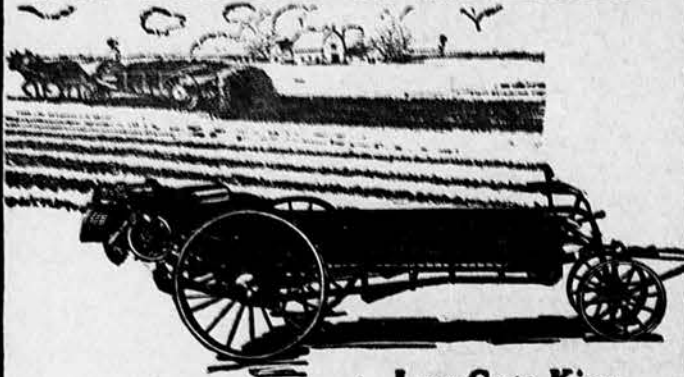
..... county in the Capper pig contest. If selected I will send recommendations as requested, I will read carefully the bulletin entitled "The Feeding and Growing of Swine" published by the Kansas State Agricultural college, will follow all instructions carefully and will keep an accurate record of the weight of the sow when received, the weight of the sow and pigs when slaughtered, sold, or at the end of the contest, and the quantity of feed fed to the sow and her litter. I will do all the work myself as far as possible and will give complete direction as to how it is to be done at any time when I cannot do it myself.

Signed..... Age.....

Approved..... Parent or Guardian

Postoffice..... Date.....

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**SOMETIMES** Americans wonder why they get only about half the crop yields from an acre that are produced in other countries. Well, here's one reason—a large majority of the farmers in this country own no manure spreader. One corn belt state lost \$20,000,000 last year by the wasting and poor handling of manure. Are you one of the farmers who shared in this loss? If you are, you need an IHC manure spreader.

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## SAVED-!

All the time, expense and hard work of discing, harrowing and dragging now done away with. Just hitch a Kramer Rotary Harrow behind your plow and do it better, all as you go. Pulverize the moist soil right behind the plow, without any extra horses.

### The Kramer Rotary Harrow

Keeps all the moisture right in the soil. Makes a fine seed bed that germinates the seed quickly—no clods or dry dirt to hold back your crops—no missing hills or uneven stands.

Easily attached to any plow. Light draft. Adjustable to any depth. Endorsed by agricultural colleges, big ranchers and farmers everywhere. Every user an enthusiastic booster, because it saves extra teams and helps right at the busiest time of the year. Get full information and big illustrated catalog free.

### SATISFACTION GUARANTEED.

Remember, this harrow does not cost you a cent unless it does exactly what we claim it will. University of Illinois, at Urbana says: "We regard these Rotary Harrows as one of the best means of conserving the moisture of the soil, together with ease and efficiency in pulverizing, that has ever been our pleasure to work with." Hundreds of other such reports, all claim that the "Kramer" Harrow does more than discing and harrowing the old way. Extremely low in price. Write for all the facts and FREE TRIAL OFFER. Agents get our proposition.

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No field of endeavor today offers so much to ambitious, successful men as salesmanship. The live wires in every line of business are the men who sell things.

The sales department of Farmers Mail and Breeze offers an exceptional proposition on a salary and commission basis to men in Kansas who are anxious to increase their earning capacity. Previous selling experience is not essential. With our offer an income is assured for anyone, size of the income commensurate with the effort expended. We are anxious to explain our proposition to responsible men.

Agency Division

**Farmers Mail and Breeze**

800 Jackson Street

Topeka, Kansas

## Women Want Oil Stoves Now

When Fuel is so Cheap Why Chop Wood—Why?

BY W. H. COLE

**P**LOWING and listing are at a standstill. The freeze-up stopped that kind of work but the farmers are busy hauling manure or butchering while still others are getting up their supply of wood for the winter and for next summer as well. But the winter's fuel is the most important of the two, for since the coal oil stove has come into general use not nearly so much wood is used during the summer as in years gone by. Our oil, the last summer, was purchased for 5 cents a gallon, in barrel lots. When one can obtain such a satisfactory fuel for summer use at such a low cost it is folly to chop wood, and besides the women folks are beginning to demand the oil in preference to the wood as its use does not heat up the whole house while dinner is being prepared. There does not seem to be the danger attached to operating the oil stove that was ever present with the gasoline stove which no doubt accounts, in a large degree, for its rapidly increasing popularity.

One of the jobs recently disposed of on this farm was the sorting and storing of our seed corn for next season. While the method employed would be of little value in eastern states it answers the purpose very well in southern Kansas. If more farmers would adopt this method of storing their seed, crude as it is, there

such a serious problem here as in localities farther north, but even here the late planted Calico sometimes barely escapes frost. About the safest plan to follow, if one is late about planting, is to substitute some other variety that will mature more quickly. The largeness of the ears and the depth of grain, with other good points has placed this variety well up, in public opinion, among the leading varieties.

There probably is more white corn planted here than all other kinds put together and very little distinction is made between the Boone County White and the Johnson County White and as near as we can tell there is no perceptible difference. Planted side by side their growth is practically the same. Perhaps the Boone County White may grow the larger stalk, and there does not seem to be enough difference in the size of the ears or the time of maturing to cause a difference in the choice so we guess it is only the mere matter of name that makes the difference of choice among the average farmers of this part of the state.

We always liked the looks of the Yellow corn the best, but try as diligently as we might we never could have the success with any variety of Yellow that we could with either the White or the Calico so we have discontinued planting any of it. The last time we attempted raising it we used the Golden Beauty, planting it along side of the White corn and when husking time came the White made a strong 30 bushels to the acre and the Yellow made a poor 15 bushels, and both had the same cultivation. Since then we have contented ourselves with the other varieties. But in buying corn if we could get a good grade of Yellow we would prefer it as we always have had a notion that stock likes it better than the other kinds of corn. It does not become so hard and flinty as the White and Calico. This may account in a measure for stock being partial to it. Another kind of corn that had its era of popularity was the Bloody Butcher but its reign was short lived. It was found that the ear worms worked on it in preference to any other variety and the worm dust made it a dangerous feed for horses. In the Northern states where the ear worm is not such a pest we presume that the Bloody Butcher is a popular corn, but very little of it is planted in Southern Kansas.

As a result of the dry years that preceded the season of 1915 many of the old apple trees died. One of our recent jobs was the grubbing out of a number of these big fellows that had ceased to be a thing of usefulness or beauty. These trees were mostly of the Winesap variety and were set out, we believe, in the spring of 1877. This would make them nearly 40 years old. Had it not been for the continued drouths it is quite likely they would still be bearing fruit. We do not know whether these were budded trees but the fruit, in color and flavor, was as fine as any we ever saw or tasted. A young orchard of budded trees has been set out to replace the old ones, but we doubt whether they will be superior to the old ones.

As an all-purpose apple we think the Winesap a leader of them all. For this reason the majority of the young trees which we set out last spring were of this popular variety. They ripen at a time when the fall rains make them crisp and juicy. When properly sprayed and handied after picking they will keep almost until another crop. As a market apple they are very attractive in appearance and usually command the top price. In setting out a new orchard or replacing an old one it is our opinion that one makes no mistake in choosing liberally of this variety.

### No Feet to Spare

"What?" exclaimed the motorist who had run over a farmer's toe. "You want five hundred dollars for a crushed foot? Nonsense! I'm no millionaire." "Perhaps not," cried the suffering farmer; "and I'm no centipede either."—Woman's Journal.

It is not the yellow peril nor the danger of invasion by any foreign foe that now menaces America; it is the jingo peril. The greater the increase in armament the nearer it comes. The great common people of Europe, the real power of kings and nations, are to be reckoned with this time. They are not going to be satisfied with any mere peace through diplomacy. Their kings will never again sacrifice them in a senseless slaughter to further kingly ambitions. A peace guarantee that shall be war proof and permanent they will have or they will tumble thrones and palaces into the scrap heap and take for themselves what their purblind rulers would deny them. American jingoism expressed in armament is a backward, not a forward step; a great national peril, not a safeguard. We might far better set the war-wrecked world a rational precedent.

would be more good seed corn every spring. This seed was selected when the corn was gathered, and when we put it away for the winter we sorted it again, and with another looking over when we shell it at planting time should result in some very good seed.

The method used in storing this seed corn is one which anyone can practice without the cost of expensive racks or other appliances. The seed must be well matured and dry. It was then placed in good jute bags, about a bushel in a bag, and hung up in the hay loft until it should be needed in the spring.

Simple method isn't it? And yet it produces seed that has first class germinating qualities, and as long as it is good enough and as economical as any method, if not more so, why change?

Most of this seed was the reliable old Calico corn, which is also called Strawberry corn. Some farmers make a great deal of fuss about it being difficult to husk but we have noticed that Calico corn generally makes a crop if any of the other varieties do, and it is our idea, after having raised a number of varieties, that it is about the freest from nubbins of any corn we ever husked. We are willing to admit that it does break out of the husk harder than some of the other varieties, but we believe when a person is getting a big ear he can afford to put a little extra strength into the job of husking.

There is one drawback in regard to the Calico corn and that is the lateness of maturity. This, of course, is not



## Horses Bring High Prices

Dickinson County is Featuring Real Farm Training

BY HARRY A. HUFF

THE DICKINSON county high school has one of the best agricultural courses of any high school in the state. It offers classes in farm machinery, farm motive power, gardening, orcharding, dairying, poultry, bacteriology, animal husbandry, livestock sanitation, field crops, soils and chemistry. It also has courses in blacksmithing and woodwork. This department has made arrangements to take charge of an old rundown orchard of about 5 acres and build it up by the most approved methods. The different classes in orchard work will do as much of the work as they can and outside help will be employed whenever necessary. The trees will have to be trimmed and tree surgery will be used on some of them. The trunks of many of the trees will have to be scraped and all of them will be sprayed. New trees will be planted where there are vacancies. This orchard has been leased for five years with the agreement that the school is to have full charge of it. The first year if they spend more money than is obtained from the orchard the owner is to pay the difference, and after the first year the school is to receive one-fourth of the net returns after all expenses have been paid. The school does not expect to make any money out of the orchard, the object being to give a practical demonstration of the proper methods of handling and to show what can be done with the neglected orchards of the county by intelligent work.

We bought a motor car the first week in May and we have driven it about 5,400 miles. We have never been unable to go with the car when we wished because of any fault. We have stayed at home because of the mud, but not on account of the car. The tires that came on the car are on it yet, and we have had very little trouble with them. The outside of the casing shows very little wear, but the fabric is getting weak in some places. We have had some blow-outs and so we decided to try some reliners. We looked in several catalogs and found several makes advertised. We ordered a different kind for each wheel. They look as though they would do all that is claimed for them, but we can tell more about this after we have used them for a while. The dealers here that sell tires say the reliners are no good, but none of them have reliners to sell and they are all selling tires.

It seems to make a great deal of difference as to what kind of a sale a man has as to what the stock will bring. I attended a sale the other day where the man was selling because he was going to move to another part of the country. He had about 40 head of Poland China hogs, and most of them were registered. Brood sows sold from \$18 to \$26 each. The same pigs sold at a sale advertised as a purebred Poland China sale would have brought from \$30 to \$45. The horses sold as high as I have seen them sell this fall or winter, one team selling for \$402. The cows sold for an average of \$70 each, and yearling calves brought \$22 to \$30 each. Calves that had just been weaned brought \$18 to \$20 apiece. The sale brought more than \$3,000.

Our hens have stopped laying again. When we started to feed them the rabbits that we killed, they seemed to increase in egg laying for some time but in a few days it turned cold and now they have stopped laying almost entirely. I have come to the conclusion that chickens on the farm should be penned up at certain times. About the time you begin to gather corn in the

fall go over your flock and pick out all the hens that you want for layers during the following winter.

Make a yard large enough so your hens will get plenty of exercise. Then let all the rest of your chickens have the run of the place. Decide on some good ration for the hens. Hens need different feed when laying and must have it if you are to get the best returns. The reason for doing this is that on most farms during the fall and early winter there is an immense amount of corn, kafir, and other grains scattered around where the chickens can get at it. If hens are allowed to eat what they please and all they can get in a very short time they will be so fat that they will not lay. When a hen gets too fat to lay, if we feed a ration that would make her lay if she were not already so fat, it will keep her so fat that you will get very few eggs until well along toward spring. The hens that you expect to sell should have free range. It will surprise you the amount of fat that an old hen will put on in a short time when she has all she can eat. There should be enough of these surplus chickens on each farm to eat up the grain that is scattered around and would otherwise be wasted. All hens should be fattened and sold when they are 2 years old.

### A Tractor Show in Kansas City

A tractor show will be held in Kansas City February 7 to 12. This is the same week as the annual Kansas City motor car show. The tractor display will be given by the recently organized Kansas City Tractor club. Already hundreds of implement dealers and farmers have signified their intention of coming to Kansas City that week.

The tractor club has obtained a desirable location in Kansas City, having leased for the week a tract on the plaza east of the Union Station. A more accessible site could not have been obtained.

The show will be given in a large tent, 400 by 150 feet. This tent can accommodate 75 tractors and leave plenty of aisle space so the machines can be seen to full advantage and so there will be no crowding of visitors. The mammoth tent will be heated and plenty of electric lights will be provided.

Included in the exhibits will be a wide variety of types and sizes, ranging from the smallest to machines that sell for \$4,000. Machines will be shown that have from 5 to 35 horsepower on the drawbar and from 10 to 60 horsepower on the brake. Most of the more important tractors now on the market will be shown.

### Learning to Earn

"Learning to Earn," by John Lapp and Carl H. Mote, treats of vocational education in all schools, as a means of fitting girls and boys for their life's career, and letting this education take the place of apprenticeship in a business. They suggest that the industries co-operate with the schools so that their education may extend beyond the school. They also point out the failures of the public schools in filling the need, because of untrained teachers, and at last they give a remedy, by telling how the obligation may be met, and giving an ideal school system.

It is very interesting and instructive, and should be found in all school and business libraries. "Learning to Earn," is published by The Bobbs, Merrill Co., Indianapolis.



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Big, full gauge wires—full weight—full length rolls woven with a mechanically hinged joint. Superior quality galvanizing—proof against hot sun, sleet and snow.

American Steel Fence Posts, cheaper than wood and more durable. Last a lifetime. Hold fence secure against all conditions.

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If you are a land owner and do not already have a copy of **How's Your Land?**—write for yours today. This 160-page book (worth \$1.00) answers almost any question that arises on the farm. We will send it free to landowners only. **Write for free book today.**

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The fence that outlasts all others. The Square Deal Lock is self-aligning and does not grip every step and strain without cutting, bending or slipping. The open-joint may wire prevent snakes, leeches, or poisoning. The very strong wire gives strength—life. Write for free book today.

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Cost less than all wood—last 5 times as long as wood. Don't sag, warp, or twist. "Square Deal" double bolted (not nailed) between 2 steel end rights. Guaranteed 5 years. You can get complete Gates or just the Gate Struts or you can make your own gates and save money. Write for Catalog. **ALVIN V. BOWE, Pres.**

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## 10 1/2 A ROD

Get our big, Free Catalog showing 154 styles of fencing and gates. It will save you many a dollar to have your order filled direct from our nearest mills or warehouses in Indiana, Nebraska, Colorado, Texas, California or Kansas. Better fence for less money. Write NOW before you forget it.

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## THE PAPEC

Your engine will run the old reliable "Paper" because it runs at low speed—only 600 R. P. M.—taking less power. Thousands being operated on 4 to 8 H. P. gasoline engines. Low speed also means durability of wearing parts. The Paper is simple—draw parts—all easy to get at. Six fans instead of four increase horsepower. Small, convenient pipe is all there is to set up or take down. Blades easily adjusted in a minute. Cutting parts easy to learn the many other advantages: time, man and power saving features. See description of wonderful new patented reversing feeder—handles hay and other small crops, also corn.

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**HORSE-HIGH, BULL-STRONG, PIG-TIGHT**

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Special Prices on Galv. Barbed Wire.

Our big Catalog of fence values shows 100 styles and heights of Farm, Poultry and Horse Fence at money-saving prices. Write for it today. It's free.

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## WRITE FOR BROWN FENCE BARGAIN BOOK AND SAMPLE

Over 25,000,000 rods Brown Fence already sold to 400,000 farmers. Factory Prices, Freight Prepaid. 100 copies, 12c per rod up. Gates and Steel Posts, too! Write postal.

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25 Valentines, Love and Post Cards, 20 Grand Luck Charms, 20 Goodwill Wishes, 20 Lower's Wishes, 20 Pleasant Wishes, 20 Love Wishes, 75 Goodwill Wishes, 75 Love Wishes and 2500 material for all Valentine's, all the bright colors, hearts, stars, stars, girls, doves, doves and arrows, etc. Biggest and prettiest collection of Valentine's Cards and Posters you ever saw. **ALL post paid 10 Cents—5¢ extra.** Address **STAR CARD CO.** 29 Clinton St., CHICAGO

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## "My Favorite Winter Recipe"

Readers of the Woman's Page Tell the Dishes Their Families Like Best in Cold Weather



**OUR favorite** winter dish is made of macaroni. Cook  $\frac{1}{2}$  of a box of the macaroni in boiling, salted water till it is tender, then drain and add 1 quart of cooked tomatoes and 3 thin slices of bacon diced and fried to a crisp brown. Pour the bacon drippings over all and simmer for about 5 minutes, adding salt and pepper to taste. If the tomatoes are very sour a little sugar may be needed. Serve piping hot. This is not only easily made, but is very cheap also, especially when the tomatoes are home canned and the bacon home cured, and is substantial enough to make almost a meal in itself.

Mrs. Claude Bradford.  
Moran, Kan.

### Boston Baked Chicken.

[Awarded First Prize.]

Cut a chicken into small pieces as for frying, wash and wipe dry. Sprinkle with salt and dip every piece in melted butter, then coat with flour. Put into a bean pot or baking dish, laying the larger pieces in the bottom and putting a piece of chicken fat on top. Pour over all  $1\frac{1}{2}$  cups of boiling water and cover tightly with the lid. Bake slowly for  $1\frac{1}{2}$  hours or longer according to the age of the chicken. The juice, fat and flour will make an excellent gravy. Take out the chicken when done and arrange on a platter with the gravy poured over it, or serve directly from the bean pot, after seasoning to taste.

Mrs. Will Wagor.

R. 1, Blue Rapids, Kan.

### Homemade Chili Soup.

[Second Prize.]

Parboil  $1\frac{1}{2}$  cups of chili beans—Red Kidney beans will do—then boil in salted water till tender. Add to the beans 2 cups of tomatoes pressed through a sieve, 3 medium sized onions cut into bits, and  $1\frac{1}{2}$  tablespoons of chili powder. Paprika may be substituted for the powder. Grind 1 pound of round steak and  $\frac{1}{4}$  cup of suet through a meat chopper, and add with a small whole red pepper to the other mixture. Cook about an hour, adding hot water as needed, and salt to taste. This makes from 6 to 8 pints of the soup. My husband thinks nothing is better on a cold day than a bowl of this hot chili soup. I make a large quantity at a time and reheat it for several days.

Mrs. Russell Flack.

Longton, Kan.

### Hominy Balls.

Cook flaked hominy till tender in boiling salted water to which has been added about 1 tablespoon of butter. When cold, mix with 1 egg and form into balls the size of a walnut. If the hominy seems stiff it may be moistened with a little milk. Roll the balls in sifted bread or cracker crumbs and fry in deep fat which should be smoking hot. Drain on crumpled paper and serve hot. A cup of grated cheese added to the hominy before shaping it into balls adds a delicious flavor.

Mrs. Clyde Shay.

Belle Plaine, Kan.

### Pork in Jelly.

Take the ears, tail and any lean part of pork which you like, and the portion of the leg just above the feet. Clean well and cut in good sized pieces then cover with cold water to which has been added 6 bay leaves, 2 teaspoons of whole peppercorns, and salt to taste. Cook till tender, adding hot water from time to time as needed so that the meat will be covered. When cold, skim off the grease, heat again and take out all the meat. Let the water boil for 20 minutes, add 2 tablespoons of vinegar, and just before removing from the

stove add  $1\frac{1}{2}$  tablespoons of granulated gelatin softened in cold water. Stir till the gelatin dissolves, then pour over the meat. After it has set, unmold and garnish with parsley. Any kind of meat may be served this way. It is very pretty to pour the mixture into individual molds, first a thin layer of jelly, then putting a slice of hard boiled egg and a sprig of parsley into the bottom after the jelly has begun to set.

Inngard Klaers.

Chickasha, Okla.

### Bavarian Cream.

Dissolve a package of gelatin according to directions, add lemon juice and sugar to taste. When the jelly is beginning to set, add about half as much whipped cream and beat well. It may be colored pink or left white, as preferred. Add grated pineapple, oranges or any kind of fruit desired. This may be molded or heaped into a serving dish and set aside to stiffen.

Subscriber.

Louisburg, Kan.

### Delicious Squares.

Beat  $\frac{1}{2}$  cup of shortening to a cream, adding gradually 1 cup of sugar. Drop in 1 egg without separating and beat vigorously. Into a cup put a level teaspoon of soda, then 1 tablespoon of water and 2 tablespoons of sour milk, stir well and add to the sugar mixture. Stir in gradually 3 cups of whole wheat flour and knead till the mixture will hold together, then roll very thin, cut in 2-inch squares and bake till crisp and brown.

Cinnamon squares are made from 1 cup of brown sugar, 1 tablespoon of butter, 1 cup of sweet milk,  $2\frac{1}{4}$  cups of flour and 2 teaspoons of baking powder. Pour into a shallow greased pan, sprinkle the top with bits of butter, brown sugar and powdered cinnamon and bake about 20 minutes. Cut in squares and serve hot.

Mrs. Margaret Ancell.

R. 2, Wakita, Okla.

### Cranberry Tapioca.

Soak 3 tablespoons of tapioca in cold water for an hour, drain, and put into a double boiler with enough boiling water to cover. Cook till almost clear, then add 1 cup of cooked cranberries, sweeten to taste, and finish cooking. Serve cold with whipped cream. The red tapioca and the white whipped cream make a very pretty dessert. It is not only easy to prepare but economical as well, for it is an excellent way to use up leftover cranberries.

Mrs. W. R. Ragsdale.

Agra, Kan.

### Novelty Pudding.

Soak 2 tablespoons of granulated gelatin in  $\frac{1}{2}$  cup of cold water, then pour over it 1 pint of boiling water and let stand till dissolved. Add 1 cup of grape-nuts, 1 cup of raisins,  $\frac{1}{2}$  cup of chopped English walnuts and  $\frac{1}{2}$  cup of sugar. A little lemon juice may be added for flavoring if unacidulated gelatin is used. Stir till the sugar dissolves, pour into cups rinsed with cold water, and let stand till set. Unmold and serve with whipped cream, sweetened and flavored.

W. S. T.

Ottawa, Kan.

### Chicken Loaf.

This is an agreeable change from the usual way of preparing chicken. Boil a chicken till the meat is ready to fall from the bones, then cut off the meat and grind fine. Mix with the ground chicken an equal amount of dry bread crumbs, 2 eggs beaten slightly, salt and pepper to taste, and enough milk to make the mixture stick together. Some of the broth in which the chicken was cooked

may be substituted for part of the milk. Mold into a loaf, or pack into a baking dish and bake brown in a moderate oven. When cold it will slice like cake.

Mrs. B. S.

R. 8, Winfield, Kan.

### Cream of Corn Soup.

Cook 1 can of corn about 10 minutes, then force it through a sieve. Season with salt and pepper to taste and let simmer on back of the stove. Rub well together 3 tablespoons of butter and 3 tablespoons of flour. Add this to the corn and stir till it thickens, then add 4 or 5 cups of rich milk and continue cooking till the milk is well scalded. This is delicious for supper on cold evenings and very wholesome.

Mrs. T. E. Osborne.

Sycamore, Kan.

### Macaroni with Oysters.

Break about a third of a box of macaroni into short pieces and cook in boiling salted water until tender. Drain, and add to the macaroni the contents of a small can of oysters, liquor and all. Season with salt and pepper and butter and thicken with a tablespoon or a little more flour moistened in thin cream. This may be cooked on top of the stove and served as creamed macaroni and oysters or baked in the oven, casserole style.

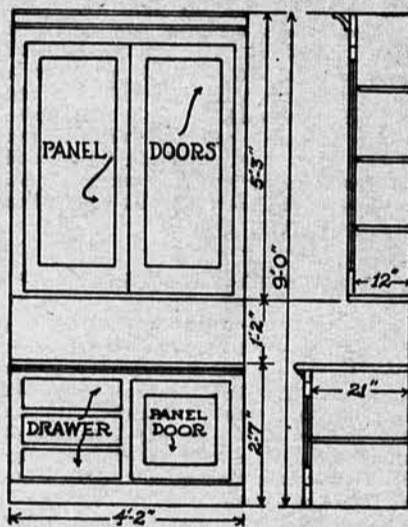
Subscriber.

Louisburg, Kan.

### Built-in Cupboards

BY W. E. FRUDDEN.

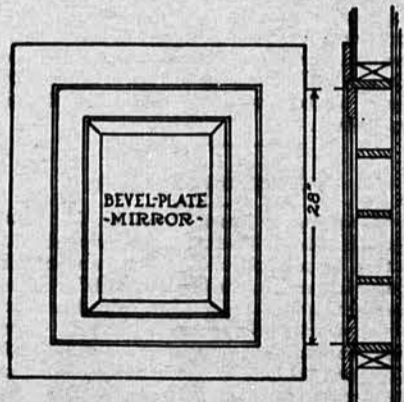
Every good farm home needs first of all a pantry cupboard that's handy for the housewife. Here is a pantry cupboard that is planned for a house having a 9-foot ceiling. The cupboard shelves are 1 foot wide while the bot-



Front and Side View of Cupboard.

tom part is 21 inches deep. A fancy little moulded cap and panel doors all go to make this a neat and attractive piece of work. The cupboard is in two sections with an open space 14 inches high in between, making it possible to use the top of the lower section for a work table.

A bathroom is essential to modern ways of living and it would be folly to plan a farm home today and leave that convenience out. A small medicine chest built on the bathroom wall will be found a worth while improvement.



Front of Chest, and Side showing Shelf arrangement.

It is built in flush with the wall but is still deep enough to contain all the toilet articles that one needs to have around. As the best place for this cabinet is directly over the wash bowl it will be well to have the door contain a nice beveled plate mirror. The drawings show how this chest is built into

the wall of the bath room. The shelves will be the thickness of the studding. The back is built up from thin ceiling lumber while the casing around the whole chest will match that of the rest of the room. All over the house the farmer who plans to build a new home can arrange for many little additions that will be appreciated greatly by all the family.

The kitchen range will polish more easily and stay black longer if the blacking is mixed with part water and part sweetened vinegar. The vinegar which has been used on pickles answers the purpose excellently.

### Watch for the Winners

The names of the winners in the big soap contest recently held by the Farmers Mail and Breeze will be announced in the next issue. As more than 1,200 bars of soap were received and most of them were of excellent quality the judging in the contest of necessity has required much time.

### HOME DRESSMAKING

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

Boys' overcoat 7549 is cut in sizes 2, 4, and 6 years. It may be made single or double breasted.

Skirt 7571 is cut in sizes 22 to 32 inches waist measure. It is cut in five gores and has 2 small plaits at each side of the front.



Boys' blouse 7582 is cut in sizes 8 to 10 years.

Dress 7534 is cut in sizes 34 to 42 inches bust measure.

Girls' dress 7555 is cut in sizes 6 to 14 years. It consists of a separate waist and a plain skirt.

### USE THIS COUPON FOR PATTERN ORDERS.

The Farmers Mail and Breeze, Pattern Department,  
Topeka, Kan.  
Dear Sir—Enclosed find.....cents, for which send me the following patterns:

Pattern No..... Size.....  
Pattern No..... Size.....  
Pattern No..... Size.....

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BE SURE TO GIVE NUMBER AND SIZE.

# A Full Year To Pay Not One Cent For 3 Months

## Great Separator and Engine Values

Just consider what "a full year to pay—not one cent for three months" means to farm folks who need engine power or a separator.

In these, the most liberal credit terms ever conceived, there is a guarantee of quality such as no other concern has ever dared to give.

While any bank in Chicago, any newspaper, any farm paper, any magazine anywhere will attest our reputation of more than 62 years of business and our financial ability to back any guarantee we make, it is our wonderful original and unique selling plan that is the strongest guarantee of dependable quality you could ask for. When we say

## No Money In Advance

we mean just that and nothing else. Just select from our catalog the size Majestic Separator or Majestic Engine (or both) to suit your needs and we will ship it to you without asking one cent in advance—no deposit of any kind—no C. O. D.

## Pay In 3, 6, 9 and 12 Months

After satisfying yourself that the Majestic—either Separator or Engine is just the machine you want, you may use it for three whole months before making your first small payment. You can then have 3, 6 and 9 months more to pay the balance—giving you a full year to pay without interest. If either one fails to make good, you've only to send it back at our expense—and your trial costs you nothing.

## Special Farm Credit Plan

We realize that farm dwellers usually pay their obligations when they sell their stock and crops. Therefore, we have arranged matters so that you can pay us when it best suits your convenience. That is the sum and substance of Hartman's Special Farm Credit Plan—credit from which every objectionable feature has been eliminated—the one credit plan without a flaw. No embarrassing questions—no red tape—no mortgage—no security—no guarantee on your part. We have no salesmen to annoy you—no collectors to call for payment. There'll be no interest to pay.

### MAJESTIC ENGINES

Gasoline, Kerosene, Naphtha, Gas

One of the simplest, most durable, most powerful gasoline engines for its H. P. rating, and most economical to operate ever made.

All Majestics are horizontal, 4-cycle type, open jacket, hopper cooled. No over-heating of parts or sticking of valves. Very little water needed for cooling. Convenient, compact, easy to run. Has fewer parts—perfectly balanced—no excessive friction.

Big improvements in all vital parts—and the most wonderful automatic mixer ever put on a gasoline engine—a mixer that keeps down fuel consumption to the lowest notch. The Majestic is the "happy medium"—neither too heavy nor too light—just the right weight for the amount of power it is intended to develop. Don't confuse it with old style, over-heavy type of gasoline engines which consume enormous amounts of fuel and are, therefore, expensive to operate. Neither is the Majestic of the opposite extreme type of engines that are so light they literally jerk and tear themselves to pieces when run at high speed or under a heavy load.

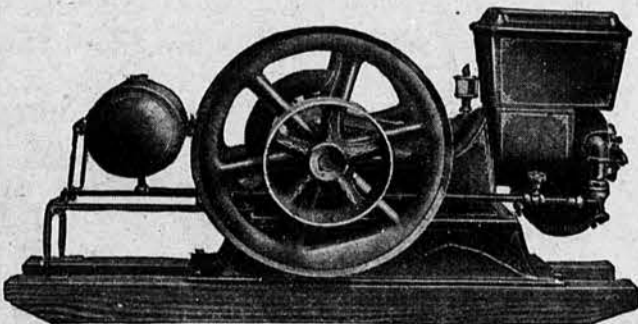
Each Majestic Engine is submitted to a shop test to see that the engine will develop the horse power as rated. This test is prolonged to discover any defective material or workmanship in the engine. We also test our engines in reference to fuel consumption. Each engine is sent out adjusted so that it is ready to run when uncased.

Just the engine you need for grinding, sawing, corn shelling, silo filling, running your separator, grindstone, churn, washing machine, thresher and every kind of heavy or light work. No experience needed to operate. Comes all ready to run.



### HORSE PORTABLE

All-steel Truck, wide-tired wheels, heavy hubs, staggered spokes. Front axle is swivel type so made that wheels, passing over obstructions, do not disturb level of engine. 5, 7, 9 and 14 H.P. mounted this style, with Special Majestic Friction Clutch Pulley.



### MAJESTIC STATIONARY ENGINE

Sizes 2, 3, 5, 7, 9 and 14 Horsepower

Iron sub-base mounting. Burns gasoline, gas, naphtha, kerosene, distillate. Backed up with strongest guarantee ever given a gasoline engine.



### MAJESTIC Cream Separator

Here at last is the separator that solves the skimming question for you—that comes as near to getting 100% cream out of the milk as is humanly possible. With ten cows you will pay for a Majestic Separator in from four to five months in cream saved.

We are proud to be able to put in the hands of American farmers so perfect a separator so remarkably low in price and on such easy terms that no one who wants to get a larger profit from his cows need be without a Majestic. Take a Majestic and use it 30 days. Test your milk and your cream and learn for yourself just what it will do toward increasing your cream check—see if you could get along without it after having used it.

Test the Majestic on warm or cold milk and find out by actual results how the Majestic skims down to the last drop—note fine condition of cream—note how quickly it skims.

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

After you've used it 30 days, if you're not satisfied it is the most strongly constructed, the easiest running, the closest skimming, and in every way the best separator you have ever seen, return it at our expense. The trial costs you absolutely nothing. If you decide to keep it you won't have to make even the first small payment for three months. Then pay balance in 3, 6 and 9 months—a full year to pay, without interest. The Majestic Separator is a machine every farmer should have whether he milks two cows or a hundred.

## Send for Free Engine or Separator Book

**THE SEPARATOR BOOK.** Don't buy a separator of any kind or make until you get all the facts about the Majestic plainly set forth in our Separator Book. We want you to learn all about this wonderful Separator and compare our low price with prices of cheaply constructed, inferior makes. The Majestic on our year-to-pay, easy credit terms costs less than others ask all cash for. Get the proof. It's in this book. If you want it write your name and address in coupon, place a mark against the name of book, and mail today.

**THE ENGINE BOOK.** This most interesting book of engines, tells all about the wonderful Majestic, how made, and why it is the biggest engine value in America today. Tells how to pick out the size and style engine best suited to your needs and explains the Hartman selling plan whereby you may order any Majestic Engine you want without a cent in advance and take a full year to pay, without interest. If you want this book, mark it in the coupon, write your name and address plainly and mail coupon to us today.

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(Be sure to mark book wanted.)

With this book send details of your no-money-down year-to-pay-without-interest selling plan.

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### Round and Rat Proof

This crib is 12 feet in diameter. You can place an air shaft in the center for ventilation. Dig a hole about 2 feet square where the center of the crib is to be. From the center of this draw a circle, using a 5 foot radius, and dig 8 holes spaced at equal distances around this circle. Fill these with concrete and level these bases. While the concrete in the holes is still soft, set the galvanized iron forms on them, small end up, and fill with a richer mixture of concrete than you used for the bases. Level the tops. The smooth iron will resist the climbing of rats and mice. Ten days should be allowed for the concrete to set. If you are in a hurry use temporary posts to set your crib on, as shown in cut, says the Breeders' Gazette.

The 2 by 10 joists are placed as shown; cut trimmers out of 2 by 10



and insert spoke-like radiating joists of 2 by 6 between the 2 by 10s. Make five circular girts of the 1/2 by 4 material, each girt having four layers of 1/2 by 4. To make these drive a circle of stakes solidly into the ground, this circle to be exactly the same size in diameter as the radiating spokes; now bend the 1/2 by 4 to fit this circle and make four layers, being careful to break the joints.

Put one of these hoops over the ends of the floor joists. They need not be cut off until the hoop is in place, and it is well to leave the lower part of the joists project 2 inches to hold the weight of the hoop. Place the hoops exactly over each other, make a square mark down on each hoop where the eight ends of the 2 by 10 joists come so that you can nail the supporting pieces at these marks as you raise them up. Use eight pieces of 1 by 4 siding to begin with. Mark on these where the hoops are to come. Now raise the hoops to position and nail them. Finish siding with 1 by 4 spaced at least 1/4 inch apart, letting the siding reach to the top of the hoop next to the highest one. Let three or four pieces of siding go clear to the top hoop at each "corner." Use two nails in each piece of siding at each hoop. A few short 2 by



4s placed between the two top hoops will make a better support for the roof.

Each 1 by 12, ripped diagonally, makes two pieces for the roof. Mark them 2 feet from the wide end. Use a round pole temporarily to get started with the roof construction. Place four of these boards at opposite sides and nail them to the hoop at the 2 foot mark. Continue until the roof is finished. Then shingle—showing 5 inches to the weather. You will have a small hole at the peak of the roof. Get your tinner to make you a circle of galvanized iron about 24 or 30 inches in diameter with a small "V" cut out. You can make this fit your roof exactly. The crib's capacity is a little more than 500 bushels. Here is the bill of material:

8—galvanized iron cylinders, 24 in. long, 12 in. at base, and 8 in. at top. Put together with seam; no solder needed.  
1—Galvanized iron cylinder, 24 in. long, 16 in. at base, and 12 in. at top, put together with seam, no solder needed.  
1—galvanized iron circle about 24 in. or 30 in. in diameter.  
4—2x10—12 Floor joists.

4—2x10—10 Trimmers.  
4—2x6—12 Radiating joists.  
108—1x4—12 Boards for siding.  
70—1/2x4—12 for hoops.  
100 feet 1x4 for flooring.  
250 feet 1x12—10 ripped diagonally for roof.  
1 1/2 M shingles—place 5 inches to weather.

### Says Our Roads are Good

The good roads craze is rapidly reaching a climax. One would think that Kansas instead of having fine natural roads had something like the Slough of Despond in Bunyan's Pilgrims Progress. Kansas has fine natural roads and if we could eliminate the amateur road builder these roads could be made excellent with a small outlay of money.

Last summer was a trying summer on roads and yet there is a two-mile piece of road about 45 miles south of Topeka that was a thing of beauty all summer. A two-mile strip was well graded. The road was dragged every week or two in the following manner: An iron road drag was used. The drag was held upright by the levers. Six horses pulled

the drag and two heavy men rode on it. In ordinary years six or eight draggings a year are sufficient to keep the road in excellent condition. Not far away I saw four horses pulling a drag which was thrown flat and the driver either walking or riding in a buggy and driving. It is needless to say that the money was practically thrown away.

The many plans for hard surfaced roads are mostly expensive and dangerous. Governor Capper's idea, if I understand him rightly, is a dirt road well cared for. That in my opinion is the only safe plan for years to come. Such roads are excellent and comparatively cheap.

A great transcontinental line built by the government with state aid might be built and hard surfaced without ruining the farmers along the line, but any plan to tax the farms to hard surface the roads of Kansas will bankrupt the farmers. Give us good dirt roads well graded and dragged and under the direction of an expert road builder and we do not need anything better or more

expensive. A wooden drag is better than iron but an iron drag, in an upright position, so it will draw the dirt toward the center of the road, and heavily weighted down will give us the best of roads for years to come.

Beware of the scheme to tax the land to hard surface our roads.  
Wichita, Kan. W. P. Trueblood.

### Why She Laughed

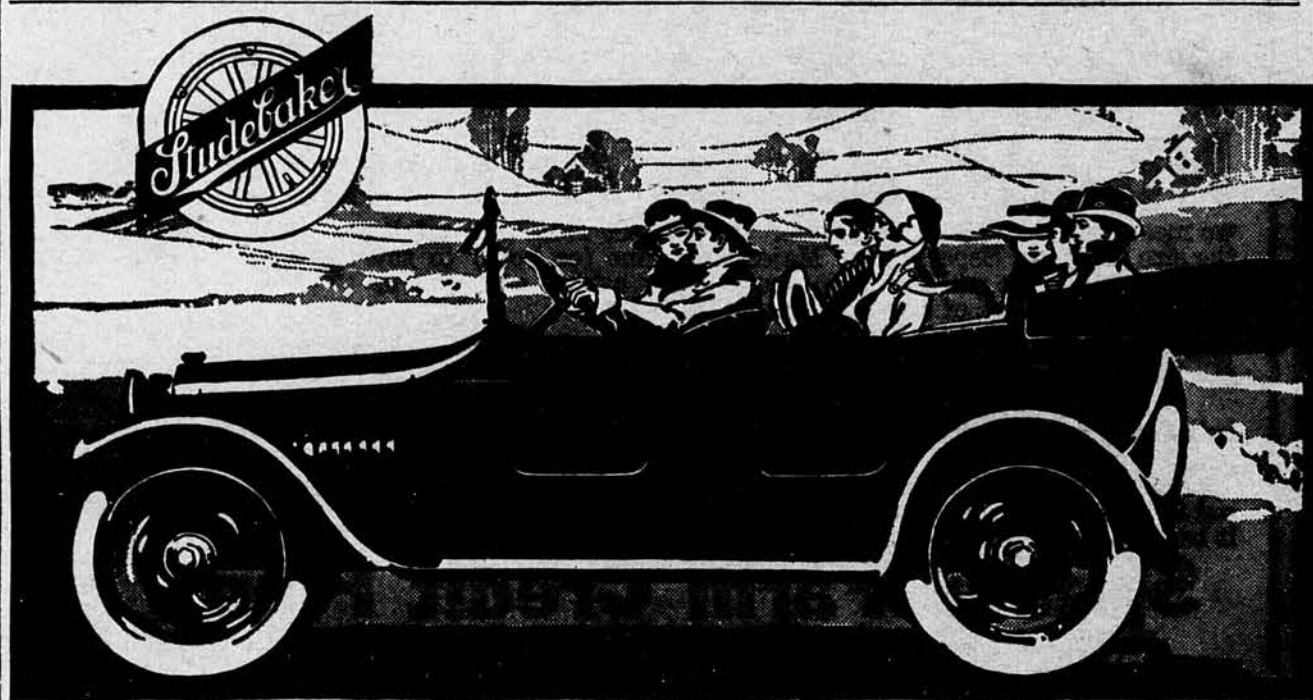
Little Madge had been listening to her mother reading from the paper. All was silent for some time, and then Madge burst out laughing very suddenly.

"Why, dearie," said the mother, "what is it?"

"I was thinking of what you just read about the wild people in Africa, mother," replied the child.

"But there was nothing amusing about that, dear."

"Why, yes, there was, mother," said Madge, "about their beating on their tum-tums till they could be heard for miles."



## Why the NEW Series 17 Studebaker is the GREAT Value of the Year

To any man who knows cars or who has kept in touch with the new cars of the year in any way whatever, there is no necessity for our saying more than "Read the reasons listed at the side".

Buying a car is merely a matter of getting the biggest value, the most satisfactory car for the price you pay. Every man who owns or operates a farm knows from long experience the QUALITY that the name of Studebaker insures. And the unexcelled manufacturing facilities, the GREAT financial resources, the long manufacturing experience and the largely increased volume that the remarkable popularity of the new cars has produced has made possible many refinements and a REDUCTION in price to \$845 that makes this new SERIES 17 Studebaker FOUR the GREAT value of the year. See it before you decide on any car. Handsome catalog on request.

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Coupe, 4-passenger - 1600	F.O.B. Detroit	One-Ton Com'cial Trucks
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—a 3 7/8-inch bore by 5-inch stroke, FORTY horse power motor;

—ROOM for SEVEN passengers—and comfort for every one of them;

—beauty of design and finish;

—and many new refinements including:

Gas tank transferred from the cowl to rear of chassis

Stewart Vacuum Feed System set on intake manifold

DIVIDED front seats that are adjustable fore and aft to the passenger's comfort

MORE room everywhere in the car

Overlapping windshield, completely storm-proof

Instruments even more conveniently arranged on dash, indirectly lighted.

## A House for \$1,500

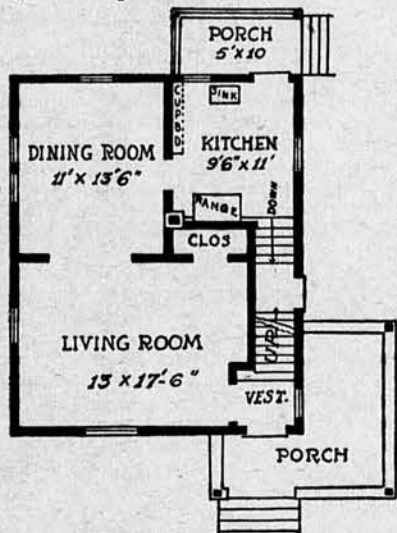
BY W. E. FRUDDEN.

Here is a 7-room farm cottage that would make a mighty comfortable home for any small farmer. It is a simple four-cornered structure with 14-foot posts and two full stories that will give the builder the most house for the dollars. There is not a square foot of wasted space in the plan here shown nor are the rooms cramped into small or unusable size. The rooms of the second floor are just as airy and roomy as those of the first floor are comfortable, cheerful and convenient for the housewife.

Study first the kitchen. That's what the housewife usually will do as it is there where she spends practically her entire lifetime. There are two outside doors in the kitchen which is in the corner of the house. One is from the large screened porch, and the other from the grade line door at the side of the house which leads either to the kitchen or the basement. That arrangement will catch the eye of most farmers' wives, and a cooler and more comfortable place to work could scarcely be found in summer if the three doors and two windows of the kitchen

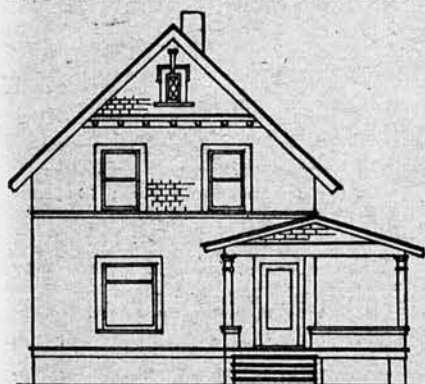
that to screen it in would mean only a small outlay of money.

An estimated cost of this farm cottage runs up to about \$1,500. But the



amount of interior details added would make a considerable change in the construction costs. Plain, neat hardwood finish and trimmings for the interior coupled with the work of a careful and painstaking housewife, would make this little farm home a great source of joy and pride. Such a home would aid materially in solving the perplexing hired help problem. A cheerful, comfortable and convenient farm home breeds contentment and makes farm life more enjoyable and worth while living.

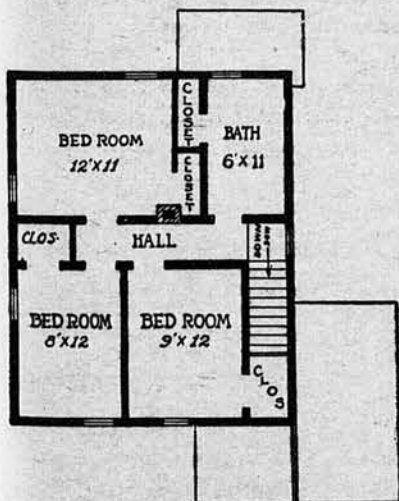
A good tool-shed will almost pay for itself in a year's time. In parts of the country more machinery has rusted out than has ever been worn out. If the shed has no floor, run the wheels on boards. Go over the machinery, the wood as well as the iron, with good machine-oil. Oil and time do not cost much, but new machinery in a few years costs a great deal. It pays to care for the machinery.



were opened. A large, roomy cupboard and the sink find a convenient place in one corner, while the range is placed close to the chimney for a direct draft that will lessen aggravating stove troubles. A housewife's workshop size 9 feet, 6 inches by 11 feet is large enough for a small family.

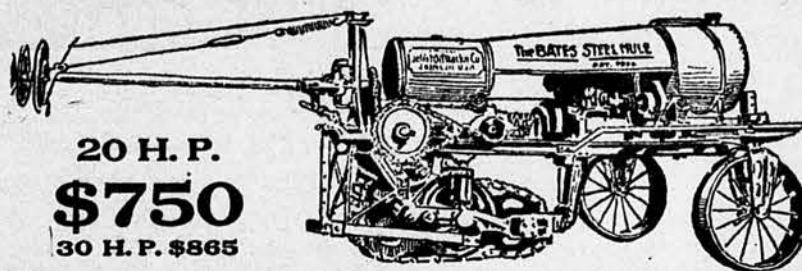
The dining room and the long living room are connected by a wide opening so this part of the house will be wide open and give an exceptionally home-like appearance. In times of harvest temporary tables could be set up extending into the living room so that all the hungry threshers could be fed at the same time. A good sized closet off the living room makes a convenient place to hang the wraps. A closed stairway which runs up the outside wall is closed off with the vestibule. Such a house would be easy to heat in the winter.

A wide stairway takes one to the second floor. Each one of the three large bed rooms is equipped with a



large roomy closet and so is the bath room located in one corner of the house. The bed rooms with wide windows will be ever light and airy and will work for the best of health of the farmer who sleeps here.

It would be a good plan to shingle the upper half of the outside walls and stain them with a dark stain. The lower walls of the exterior of this 22 by 28 foot house could be covered with the ordinary 5-inch basswood siding. A neat little porch for the front entrance is 7 feet wide. This would be a very livable part of the house in summer so



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**\$750**  
30 H. P. \$865

## WHY *The* Bates Steel Mule Instead of a "Tractor"

### One Man Does the Plowing

He sits right on the three plows, away from the heat of the engine, where he can watch both plows and "Mule" without turning his head.



One Man Plows 10 Acres a Day

### One Man Does the Discing

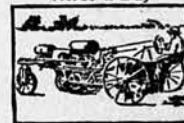
He pulls a double disc with a two section harrow behind at a good speed without packing the ground.



One Man Discs 35 Acres a Day

### One Man Does the Drilling

He sits on his grain drill where he can watch both drill and "Mule." He pulls a disc and harrows behind the drill.



One Man Drills 50 Acres a Day

### One Man Cultivates Corn, Cotton, Potatoes, etc.

He sits on a two row cultivator and does an even, thorough, quick job. The "Mule" guides easily, turns short and does not pack the soil.



One Man Cultivates 31 Acres a Day

### One Man Does the Harvesting

He sits on the Binder where he can watch both Binder and "Mule" move through the heaviest grain at a fast, steady gait. "The Crawler" makes a path for the Binder Wheel when going through mud.

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He can pull large Ensilage Cutters, Medium Sized Threshers, etc.

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Spring Mounted "Crawler"

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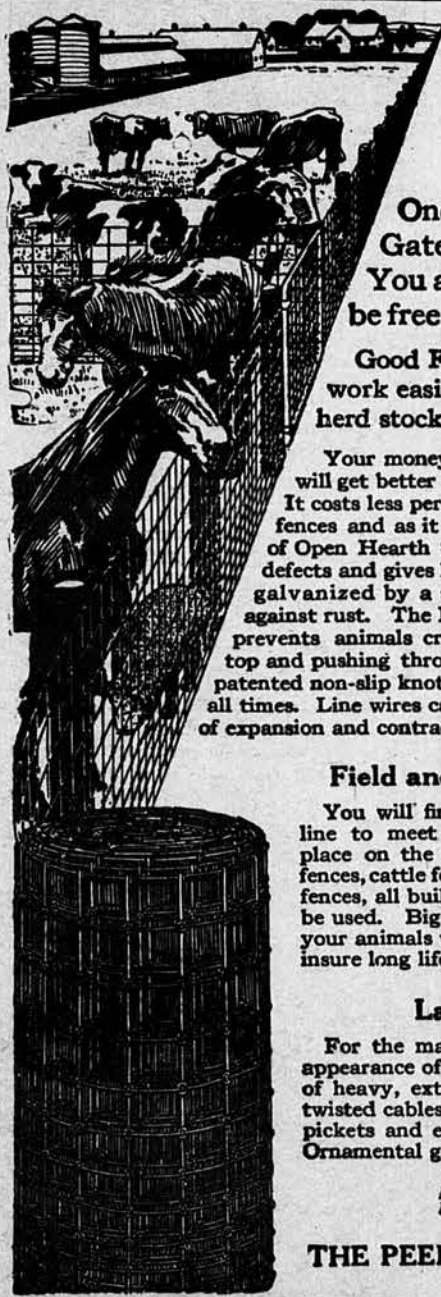
1735 Walnut St. Kansas City, Mo.



One Man Harvests 40 Acres a Day



One Man Harvests 40 Acres a Day



## Stretch a PEERLESS FENCE Around Your Farm And Quit Worrying

Once your fields are all enclosed with Peerless Fencing and Gates, your fence troubles are over for a long time to come. You are sure to find your animals where you want them and will be free from injuries caused by trying to get through a poor fence.

Good Fences and handy Gates increase the value of your farm, make the work easier and your assistants more contented. The hired man hates to herd stock that has broken out and mend old inefficient fences.

Your money will go farther and you will get better results with Peerless fence. It costs less per rod than other high grade fences and as it is made of the best grade of Open Hearth Steel Wire it is free from defects and gives long service. It is heavily galvanized by a special process insuring against rust. The Peerless one-piece crossbar prevents animals crowding it down from the top and pushing through at the bottom. The patented non-slip knot holds the wire in place at all times. Line wires carefully coiled to take care of expansion and contraction.

### Field and Poultry Fences

You will find a style in the Peerless line to meet the requirements of any place on the farm. Hog fences, sheep fences, cattle fences, paddock and poultry fences, all built for the place they are to be used. Big, closely spaced wires keep your animals where you want them and insure long life for the fence.

### Lawn Fences

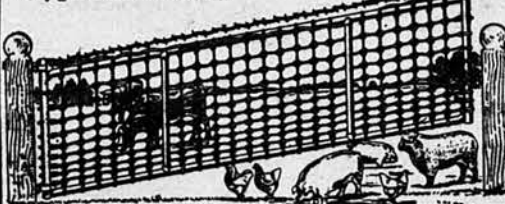
For the man who takes pride in the appearance of the front yard. All made of heavy, extra galvanized wire, extra twisted cables, extra deep crimps in the pickets and extra care in construction. Ornamental gates to match the fence.

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Very few farmers can afford board gates in this age of high price of timber. Peerless steel gates are not only cheaper but they look better and are easier to handle. Heavy tubing frames, filled with special galvanized wire, insure long life. Every part of every Peerless gate is heavily galvanized to prevent rust.

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IS one of the best selling styles in our entire line. It is no longer necessary to lug around the old-fashioned sagging, dragging, heavy gates. The Peerless lifts automatically and swings over all obstructions, snow, ice, grass and rubbish.



In addition to being self-raising, it is extra heavy in both frame and filling. Big massive frames of 1 1/2" tubing and close woven all No. 9 wire, close mesh filling, insures long life. Every part heavily electro-galvanized—no paint to wash or wear off in a year or two.

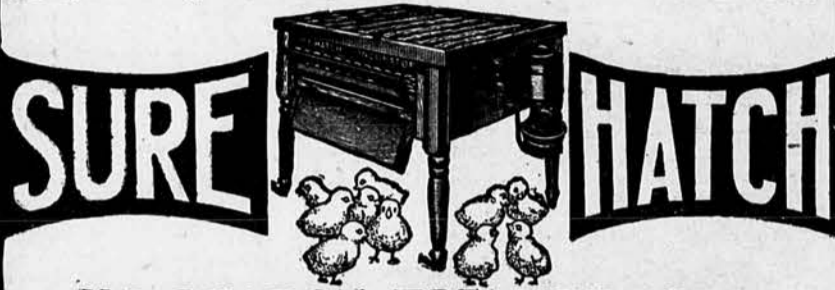
Before you buy a rod of fence or a single gate you should send for our big free catalogue and get full details about Peerless fencing and gates

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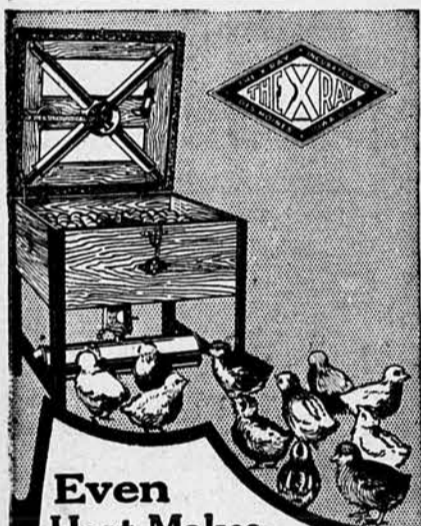
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Raise Chickens with this high percentage hatcher. It's easy. A few dollars now make hundreds later. Thousands are doing it. So can you. We show you how. Write today for Our Big Free Book.

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Mankato Incubators are made of best California redwood. Triple walls all around, lined with heavy asbestos. Heavy pure copper hot water heating system. Perfect regulator. Correct ventilation. Safety lamp. High nursery. Strong well-made egg tray. Tested thermometer and egg tester.



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402,000 in use. Get the Championship Winners in my big free book, "Hatching Facts." With book comes full description of incubator and brooder—my 10-year money-back guaranty—low prices—full particulars—and my \$1300.00 Gold Offer. Learn how I paid one user \$150, another \$50, many from \$45 down. Write me today for Free Book. Jim Rohan, Pres.

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New Principles in Incubation. Every feature automatically regulated—heat, ventilation and moisture. The Mandy Lee is certain, simple, easy to operate. No chance for mistakes, simply follow plain rules. Chicks large and vigorous, the kind easily raised. Write for free book on incubator and Lee's famous Germone, Lice Killer and Egg Maker.

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## Tells why chicks die

E. J. Reefer, the poultry expert, 958 Farmer Bldg., Kansas City, Mo., is giving away free a valuable book entitled, "White Diarrhoea and How to Cure It." This book contains scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 38 per cent of every hatch. All poultry raisers should certainly write Mr. Reefer for one of these valuable FREE books.

When writing to advertisers please mention The Farmers Mail and Breeze.

## A Hen House You Can Move

### The A-Shaped Colony Building Deserves to be Popular

BY H. A. BITTENBENDER AND J. B. DAVIDSON

THE A-shaped movable colony house is an all-purpose house which has much to commend it. It is cheap, light and serviceable. In summer it may be used for raising chicks in flocks of from 200 to 400, or in winter it may be used to house from 25 to 30 full-grown fowls. The house on account of its size, which is 8 by 10 feet, and also on account of its substantial construction may be moved from place to place on the runners or skids which are used as a foundation. The house is made warm by the use of shiplap siding and prepared roofing. The roosts and nests are arranged for removal when the house is in use as a brooder house and for easy cleaning.

The foundation of the A-shaped movable poultry house consists of two runners, 4 inches by 6 inches, or 6 inches by 6 inches, and 11 feet long. Fir or some other wood which will resist decay should be used. The joists consist of 2 by 4 inch scantling laid 2 feet apart over which a floor of 6-inch white or yellow pine flooring, 1 inch thick, is laid. To make the frame more rigid, 2 by 4's may be spiked across the ends of the joists, but where strict economy is to be observed these pieces may be omitted.

The construction of the frame is shown clearly in the accompanying drawing. It is made entirely of 2 by 4 stock,

three battens nailed in place. The openings in the door are 18 by 24 inches, covered with 1/2-inch mesh galvanized hardware cloth. The door is provided with a regular curtain roller and canvas to be used as protection against storms. Hooks are used at different intervals to hold the curtain in the place desired.

The dropping board is made to slide into place in the rear of the building and rest on strips nailed to the studs on either side. The roosting bars or perches are supported on blocks or brackets 6 inches high. The two roosts are 6 feet long, and are set in notches on these brackets. In moving the building from place to place some care should be used in pulling evenly on both of the skids so as not to subject the building to undue strain, causing it to rock. This can be done by using a spreader or evenner.

#### Bill of Materials.

Skids: 2 pieces 6 by 6 inches or 4 by 6 inches, 12 feet long.  
Joists: 6 pieces 2 by 4 inches by 8 feet.  
2 pieces 2 by 4 inches by 10 feet.  
Floor: 17 pieces 1 by 6 inches by 10 feet, matched flooring.  
Studding and frames: 8 pieces 2 by 4 inches by 30 inches.  
2 pieces 2 by 4 inches by 6 feet.  
Plates: 8 pieces 2 by 4 inches by 30 inches.  
2 pieces 2 by 4 inches by 10 feet.  
Rafters: 12 pieces 2 by 4 inches by 6 feet.  
Ridge pole: 1 piece 1 by 6 inches by 10 feet.  
Sheathing for ends and door: 16 pieces 1 by 6 inches by 10 feet.  
3 pieces 1 by 6 inches by 16 feet.  
Sheathing for sides and roof: 23 pieces 7/8 by 10 inches by 10 feet.  
Roosts and dropping board: 3 pieces 2 by 4 inches by 6 feet.  
4 pieces 2 by 6 inches by 3 feet.  
3 pieces 1 by 12 inches by 6 feet.  
1 piece 1 by 8 inches by 6 feet.  
Windows: 2 6-light 1 1/2 inch sash 8 by 10 inch glass for front.  
5 pieces 7/8 by 8 inches by 9 feet for window casing.  
Roofing: 3 rolls 3-ply best quality prepared roofing.  
Hardware: 3 pairs window screen hinges.  
3 6-inch T hinges.  
1 rim lock with knobs.  
3 pounds 16d nails.  
2 pounds 10d nails.  
6 pounds 8d nails.  
3 pounds 6d nails.  
1 pound 6d finish nails.  
1 piece 1/2 inch square mesh wire cloth 3 feet by 14 feet.

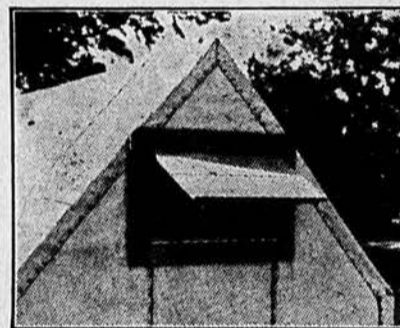
#### Cost of Materials.

It should be remembered that the cost can be made to vary greatly by using different grades of material. Costs also will vary with localities.

2 pieces 4 by 6 inches by 12 feet, yellow pine dimension.  
48 feet at \$31 a thousand.....\$ 1.48  
10 pieces 2 by 4 inches by 10 feet No. 1, framing lumber.  
8 pieces 2 by 4 inches by 12 feet.  
3 pieces 2 by 4 inches by 16 feet.  
1 piece 2 by 6 inches by 6 feet.  
169 feet at \$26 a thousand..... 4.39  
2 pieces 1 by 4 inches by 16 feet.  
1 piece 1 by 6 inches by 10 feet.  
2 pieces 1 by 12 inches by 12 feet.  
2 pieces 1 by 14 inches by 6 feet.  
54 feet at \$40 a thousand..... 2.16  
33 pieces 1 by 6 inches by 10 feet No. 2, matched flooring.  
3 pieces 1 by 6 inches by 16 feet No. 2, matched flooring.  
169 feet at \$38 a thousand..... 7.56  
23 pieces 1 by 10 inches by 10 feet No. 2 shiplap.  
191 1/2 feet at \$32 a thousand..... 6.11  
3 rolls roofing at \$2.50..... 7.50  
Hardware ..... 2.70  
Labor ..... 8.00  
Total estimated cost.....\$39.90

Be especially kind and thoughtful of the young heifers that are to calve in the spring. Handle them carefully every day. Keep them thrifty by good feeding.

One of the most successful farmers of the Wolverine state says that sheep and hogs have been his great money-makers. He expects they always will be.

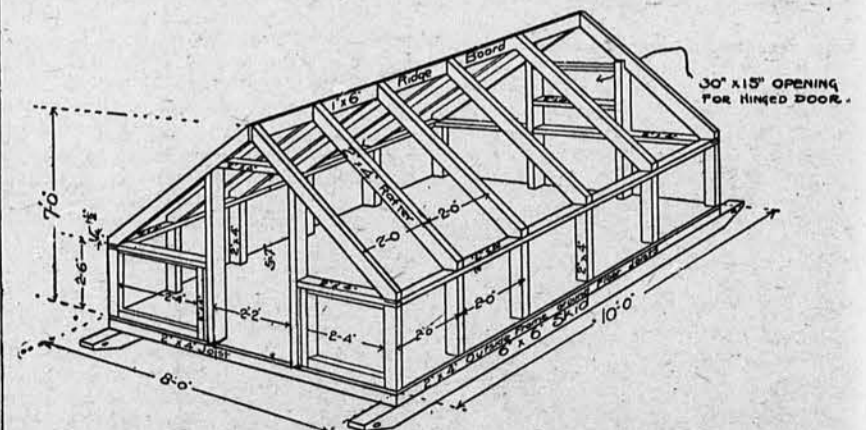


Hinged Door at the Rear.

white or yellow pine, securely spiked together. The frame is covered with a shiplap lumber nailed to the frame with the smooth planed side in. The sheathing is then covered with a good grade of prepared roofing. The strips may be run either horizontally or over the ridge, the latter method being the more convenient.

Two windows are used in the front of the house on either side of the door, and two screened openings are provided in the door. All four openings are covered with mesh hardware cloth and it is advisable that removable sash be provided for the windows at the side of the door and cloth curtains may be provided for the openings in the door. In order to fit the sash in place it is customary to use a light casing frame about the opening to build up to the thickness of the sash. In the rear of the building a small door is made to provide greater ventilation in summer and warmth in winter. This is because the door is located so near the roosting place of the fowls. However, the door should be made to open or be removed in warm weather.

The corners of the door are to be cut off, making the use of a higher door possible, it is advisable that the door be built out of flooring, with at least



Perspective Drawing Showing Frame of the A-Shaped, Movable Colony House. The Construction is Simple, Materials Cheap.

## This Home of Native Lumber

Along the Wakarusa in the Cottonwood and Oak

BY ROY R. MOORE

HOW should you like to get oak and walnut lumber for \$7 a thousand feet? The farmers who live along the Wakarusa River, the picturesque little stream that flows across the southern half of Shawnee and Douglas counties get it for that. But of course the habit is not widespread.

Two things are necessary. First a few acres of ordinary Kansas timber, walnut, oak, hackberry, elm, cottonwood and several other varieties found on half the farms in eastern Kansas; getting the trees sawed into lumber is the next proposition and is by far the more difficult of the two, for a sawmill in Kansas is somewhat rare. But the farmers near Wakarusa, the second stop on the Santa Fe out of Topeka haven't been bothered by either reason. For in this locality there is plenty of good, native timber, tall and straight as most of the trees are on the Wakarusa, and there is also a portable sawmill to convert the logs into boards that delight the eyes of a carpenter.

Such a happy combination has existed only about a year. Prior to that time the farmers had the lumber, minus the mill, which unfortunately is the condition in most parts of Kansas. Olin Robbins, who owned a threshing machine, pondered over the proposition, and decided that a saw outfit would be profitable. Having a 15-horsepower gasoline engine, he would not be compelled to make any additional outlay for power.

Accordingly he purchased the outfit and installed it on a little stream tributary to the Wakarusa and advertised that he was ready for business. He was more than surprised when half the neighborhood began to haul logs to the mill. The cottonwoods in the corner lots, the elms in the pasture, and the walnut groves suffered. Some farmers desired only a few boards to repair the barn, others wished to build a hen house, but many desired lumber for larger buildings and accordingly hauled more logs.

In many instances where a large barn was desired, Mr. Robbins moved his outfit to the site and the lumber was sawed and piled with scarcely any expense outside of the mill charge.

Mr. Robbins charges \$7 a thousand feet for sawing and insists that he is able to make good wages besides paying big interest on his original investment. In case the sawmill is stationed on the proposed building site, the total expense to the farmer is not much in excess of that figure. Two men with a good "crosscut" can saw down and cut out enough logs to run a saw mill all day as has been demonstrated several times. The hauling is eliminated under these conditions. Where the logs have to be hauled a mile, it is safe to estimate \$10 a thousand as the cost of the lumber.

There is considerable discussion as to the proper method for handling native lumber after being sawed. Many advocate that the proper time to erect the building is immediately after the lumber is sawed and while it is still green. Others contend that the boards should be piled with narrow strips between each piece, thus allowing them to dry thoroughly. Those who have attempted to drive a nail into a piece of native lumber after it has been thoroughly seasoned, will contend that the first method is the proper one. Undoubtedly, there isn't a more nerve-racking proposition for a carpenter than to attempt nailing dry elm or cottonwood. Even when



the nail has penetrated the wood, the chances are that a large crack will result, especially if the nail is driven near the end of the board.

Green lumber "handles" nicely. A big "16" spike can be driven with ease, and there isn't any crack as the result. The only drawback, and a big one at that, is the shrinkage. Boards that were fitted snugly together at the erection of the building, have large cracks in a few months, thus allowing wind and snow to filter in. Nailing narrow strips over the cracks offsets this difficulty.

In the Wakarusa neighborhood, most of the lumber is used while it is still green, owing to the difficulty of nailing, and also because of the warping. Warping isn't a trivial difficulty, either; it is confined to elm and cottonwood more than walnut or oak. An elm board will turn "wrong side out," when left for long in the sun. Any novice can realize the difficulty in using warped lumber with the additional trouble of driving nails.

When piled properly, warping is generally eliminated. A cool, shady place must be selected and plenty of ventilation provided. If a shed or barn loft is available, so much the better. Such a method generally insures straight, seasoned lumber.

To avoid waste of lumber in erecting a building, plans for the same are given to the man in charge of the mill who saws out the required amount of each material. A log scale, which shows how many feet of lumber can be sawed from a log of certain dimensions, is invaluable to a farmer. Before tackling the big cottonwood in the pasture he can determine by measuring the circumference of the tree, and consulting his scale, whether it will provide enough joists for his proposed building.

Along the Wakarusa, a few barns have been completed entirely out of native lumber with the single exception of the roofing which is of either shingles or metal. George Neil, who owns several hundred acres in the vicinity of Wakarusa, built the largest barn in the country. Hundreds of tons of hay can be stored in the immense mow while the sheds joined on the sides provide shelter for about 300 head of cattle. He painted his barn as soon as it was erected and he believes that all lumber barns should have the same treatment.

Clarence Vawter of the Wakarusa neighborhood built a large modern home last summer out of lumber grown on his own farm. Mr. Vawter says this piece of land has about paid for itself, and there still remains enough material to build a dozen homes. A barn 40 by 70 feet was built later from oak trees grown on the same tract.

Olin Robbins's sawmill was moved to the "80" last April and work on the house began soon afterward. There aren't many houses in the state that have oak joists, oak rafters, oak sills and oak floors. The siding is of pine and so are the shingles.

There should be a blackboard in the stable or shop of every farm, where the boss and everybody interested may suggest jobs that ought to be done. Each suggestion should be followed by the initials of the one who sees the need. Such a board will serve a double purpose: It will keep everybody posted as to things that need to be done and will show who is interested in the progress of the farm.



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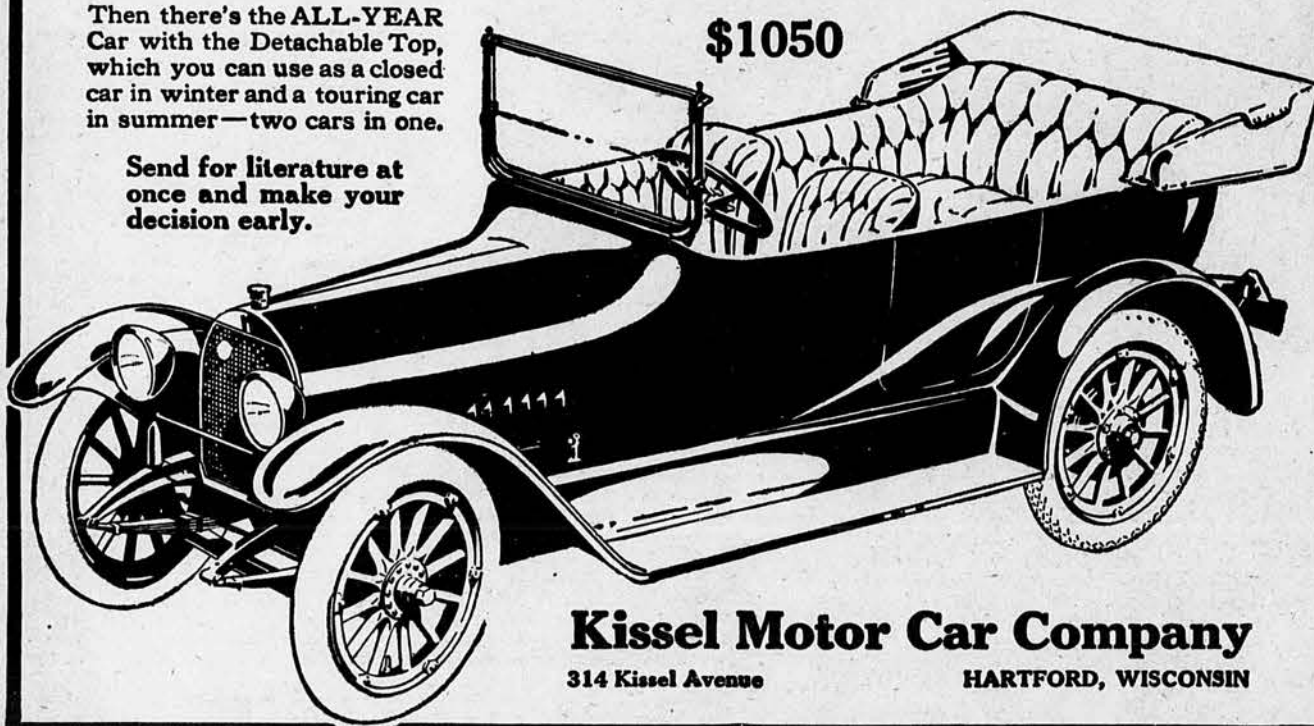
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### Sunday School Lesson Helps

BY SIDNEY W. HOLT.

**T**HE lesson for January 30: The Lame Man Leaping. Acts 3.

Golden Text: Peter said, "Silver and gold have I none; but what I have that give I thee. In the name of Jesus Christ of Nazareth, walk." Acts 3:6.

The exact time of this lesson is unknown, but it is thought to have been soon after Pentecost in the summer of A. D. 30. We find Peter and John going up to the temple in Jerusalem, for worship, at 3 o'clock in the afternoon. These two disciples, possibly were the best loved, of all the twelve. Widely different in character and personality they were the closest of friends, having been disciples of John the Baptist, before they followed Christ. They had been partners in the fishing business on the Sea of Galilee. Peter was the oldest and John the youngest of the twelve and they had more knowledge of Jesus than the others. The temple was on a hill, and the Gate Beautiful was between Solomon's Porch and the Court of the Women, where men and women worshipped.

As is the custom today in eastern countries, the more prominent a place the more fortunate the beggar to get it. The beggar in this story had been crippled since birth. He was carried every day by his friends to the gate where he sat and begged alms from the worshipers with his piteous ceaseless wail.

Now Peter and John had no alms to give, but of what they had they gave freely—a great faith, and it made the man to walk, and what is still more wonderful, gave him a spiritual healing and uplift that would change his soul and life even more than his body. It must have been a curious sight, to see him leaping and shouting with joy as he went with Peter and John especially for those who had been accustomed to seeing him lame through all the years, and for the crowd that quickly gathered around the three.

We have many beautiful gates in our lives: The Gate of Love, the Gate of Hope, of Prayer and Faithfulness, and the Gate of Character; but Jesus is our Gate Beautiful to eternal life, and fortunate are we when we once realize His power. We are the lucky beggar.

Many times it is said that the days of miracles are past; but are they? Of course there is not the need now as when Christ came to establish His kingdom, because we have accepted Him. The Jewish people of those times were looking for a ruler so entirely different that there had to be physical proof that His power was God-given. It was a big thing for them to get over the idea that He was other than just a simple man, declaring He could do great things.

God is all powerful. He gives us of Himself, and we are to pass it along by our lives, as did Peter when he told the lame man "Such as I have give I thee." The alms in this case were a Christian life and a power to earn his own living.

This wayside ministration was a small thing to Peter and John, as they went about their duty of worship, but what a great big event in the life of the lame beggar!

### Carl Knaus Will Win

BY F. B. NICHOLS,  
Field Editor.

Cloud county has employed Carl Knaus of Buffalo as a farm agent. Mr. Knaus has had an excellent training for this work. He is a farm boy who has made good on the farm, and he is the son of a successful farmer. All of his life has been spent on the farm, except the time when he was in college, and he has the farm viewpoint most thoroughly. More than this, he has the vision of the greater agriculture which is within reach, and which can be established on the excellent soil of which Cloud county is composed.

### Value of Hens

An apostrophe to the value of the hen is attributed by an exchange to a philosophical colored man. He said: "Chickens, suh, is the usefulest animal they is. You c'n eat 'em 'fo' they's bo'n, and atfah they's daid!"

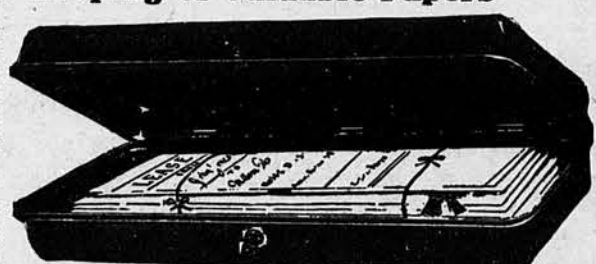
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**This House Cost \$3,000**

BY W. E. FRUDDEN.

If you build a house like this you'll have a happy and contented family. It has a very attractive and home-like appearance from the outside; the interior room arrangement makes use of all available space, and gives the farmer's wife a very convenient workshop. It is not an expensive house. An Iowa man built this house for a little less than \$3,000, and it has in it about all the good things that a farmer and his family could desire: eight big spacious rooms and a bathroom. This is a 30 by 28 foot house with 16 foot studding, a wide front porch on the first floor and a small sleeping balcony above this.

There are no expensive freaks or designs connected with this home. It is a simple four-cornered house that gives the builder more than a dollar return for every dollar invested, a mighty good plan to follow. It is seldom that one sees a plan with as little waste space.

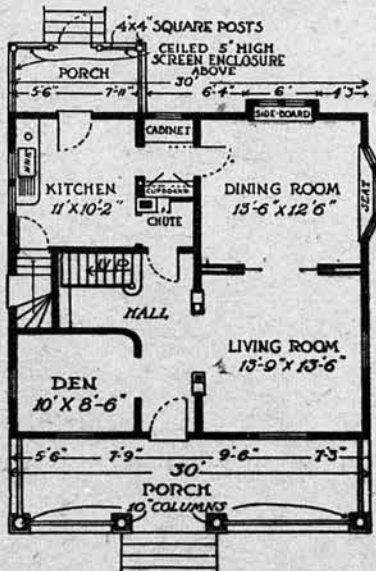
Of course like every ideal farm home, this plan has a step-saving kitchen, a cabinet and a cupboard in the pantry between the dining room and the kitchen, and all the other conveniences that the cook needs. A 10 by 11 foot kitchen is about right if one wants to conserve the housewife's steps and keep her in a constant good humor and good health. You can enter this kitchen from the



large screen porch in the rear or from the side door at the side.

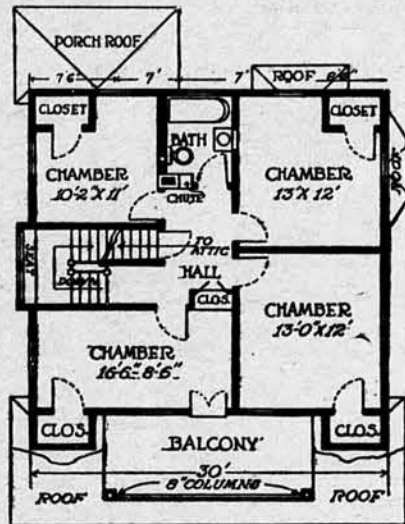
Screened-in rear porches have come to be the thing on the farm homes. They are used for more purposes than any other part of the house. The dining room and living room are almost one long and well-lighted room. A small bay in the dining room which faces the south, is an excellent place for a few potted plants. A sideboard in the other outside wall with a small mirror back goes with the others to make this room a cheerful meeting place for the family meals. An 8 by 10 room in another corner of the first floor makes a fine library that would be ideal for an office where the business end of farming could be carried on in a businesslike way.

A wide, comfortable, open stairway takes one up to the second floor hall which is well lighted by a double window on the stair landing. Each of the bed rooms is equipped with a standard-size closet. A good-size attic is reached by going up the stair built in over the



main stairway. Persons who sleep in stuffy, poorly ventilated bedrooms are continually rebreathing air. Not only are there two high and wide windows in each room on the second floor of this utility farm home but there is also an

enclosed sleeping porch built over the front porch. The bathroom is almost directly over the kitchen so as to make the job of plumbing as easy as possible. Deep, roomy closets are found off nearly



every room on the second floor. The ceilings are 8 feet high while the first floor rooms have 9 foot ceilings.

This farm home was built by a contractor who was the lowest of four bidders. Everything was agreed upon before the work started so as to save time and trouble and misunderstandings. The house was built complete and two coats of paint given it before the owner accepted the work.

To provide for the needs and pleasures of the family with the smallest possible dimensions and most inexpensive arrangements is the whole problem of economical home building. A simple structure with only four corners gives the biggest returns for the money spent and such was the idea carried out in this home. Farm homes differ greatly from the city homes in that they must

serve many purposes such as providing room for the hired help, the farm office and a general meeting place for the family who spend more of their time at home than do most city people. Happy and contented families who enjoy farm work get considerably more from the modern farm practices and latest improved tools and buildings than does the man who looks at farming as a hard life. The farmer whose annual income is not large, cannot build an expensive house. Health, comfort, convenience and happiness for the whole family should be the object sought. In this kind of house you get the four.

**Watch for the Ox Warbles**

Specialists of the United States Department of Agriculture are urging cattle owners to take steps to control the ox warbles or "wolves," the importance of which to the cattle industry has been generally underestimated. Ox warbles are the whitish grubs or maggots which develop from the egg deposited by certain flies known as warble flies or heel flies and which injure the hides, reduce the milk flow and retard the growth of the animals. The maggots are commonly found just below the skin on the backs of cattle, in the spring. Their presence is revealed by local swellings about the size of pigeons' eggs, each with a small central hole or perforation. From this hole the maggot, when mature, emerges to enter the ground and change to the adult or fly stage. When full grown the grub is a little less than an inch long.

The trouble from the warbles has largely been confined to cattle in the South, but recently the Bureau of Entomology has discovered that a second species, heretofore not found in this country but known to be even a more serious pest in Europe than our native warble, has become well established in certain districts in the northern part of the United States.

The loss from the warble is by no

means limited to the holes the maggots cut in the hides. Extensive investigations in Germany and Denmark indicate that the losses through reduction in milk supply in dairy cattle, the decrease of growth in young stock, and the loss of flesh in all classes of animals are twofold greater than the damage done to the hides. In some of these tests the early extraction of the grubs from the backs of infested cattle resulted in an increase of nearly 25 per cent in the milk production. Animals from which the grubs had been extracted showed a gain of more than 5 per cent in weight over similar animals in which the pests were allowed to develop normally.

Thus far the veterinarians of the department have determined no better way of controlling these pests than through the systematic extraction and destruction of the grubs from the backs of infested animals.

When the larvae are nearly ready to leave their host they may be easily squeezed out by pressing the swelling with the fingers, but if not so far developed it is often very difficult to get them out by squeezing. In such cases a slender pair of forceps may be used for pulling them out. If the swelling and its opening are still very small the best way of extracting the grub is to make an incision with a knife, after which the grub can be squeezed out by applying strong pressure. Kill the grub when removed.

**The Useful Needle**

"How useless girls are today. I don't believe they know what needles are for." "How absurd you are, grandma," protested the girl. "Of course, I know what needles are for. They're to make the graphophone play."—Twentieth Century Farmer.

We enjoy your paper very much, especially the Passing Comment page. LaCygne, Kan. O. J. Kenyon.

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by advertising. Everyone knows that so well that it isn't necessary to insist upon it. We are not arguing that you will make a fortune by advertising in Farmers Mail and Breeze. But we do claim that there is no reason why you should not do what others are doing, add substantially to your income by advertising in the columns of this paper and we are not sure you may not find yourself on the way to a fair fortune. Look over our advertising columns, the display and the classified columns. You know what our readers buy that you have to sell, poultry and eggs for hatching, hogs, cattle, horses, land, seed corn and good seeds of about every kind. One man sold \$3,000 worth of seed by spending \$5 for advertising space in one of the Capper Papers. That is an extreme case, of course, but there is a big market for what you have to sell. Our readers will furnish the market. Rates are given in this paper. They are low for the circulation. If the rates are not clear to you ask us for them, addressing Advertising Department, Farmers Mail and Breeze, Topeka, Kan.

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### 3 MACHINES IN ONE

Grain Grader, Corn Grader, Grain Cleaner. Grades and cleans any grain or grass seed at one operation. Separates mixed grain. Sorts seed corn so that the planter will drop three kernels 99 times out of 100. Absolutely accurate and sure.

Light-running, substantial and durable. Fully guaranteed, and recommended by experts as best grader made for farm use.

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## \$12.00 Sweep Feed Grinder

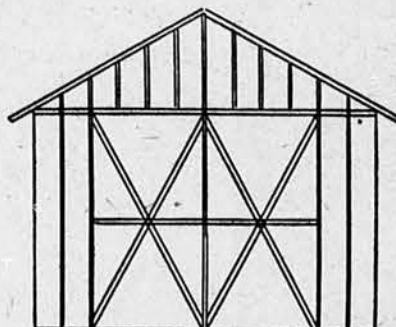
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

**CURRIE WIND MILL CO.,** Seventh St., Topeka, Kansas

## A Garage, A Car, A Tip

Nearly everyone, these days, has a motor car or hopes to get one. Newspapers devote pages of their Sunday editions to special articles describing the latest developments in the business which has taken such a strong hold on the American public. These developments are, and very properly, a matter of common interest. The public is spending its money for cars and for newspapers and farm journals, and it expects service from both. If you intend to get a car you like to know what the paper says about that particular kind. If you wish to build a garage you look in the paper for the plans. And right here you find one along very economical lines. It is so simple, indeed, that a bill of the lumber is scarcely necessary. You have seen garages that are handsomer than this one, but they cost more. We planned this for the man who wants to keep down expense in housing his automobile.

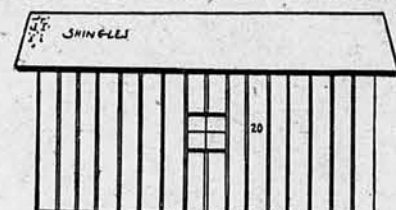
This is what is known as "box construction." The walls and doors are made of 12-inch boxing—Southern yellow



low pine—and the cracks are stripped with O. G. battens or 1 by 4's. There is no floor in this building and the roof is to be shingled. There are two 4 by 8 doors that open out. Three single sash give abundant light.

After the building is up it will be easy to see where you can place a little bench and a set of shelves to hold supplies and tools.

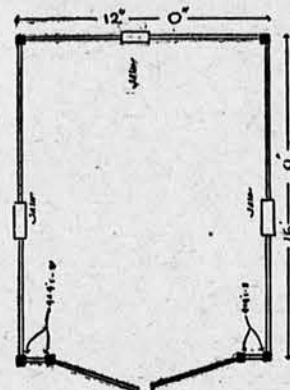
Motor car figures for the last year, as compiled by Alfred Reeves, general manager of the National Automobile Chamber of Commerce, show the production to have been 703,527 cars, valued (wholesale) at \$523,463,803, which is an advance of 36 per cent in the number of cars, and more than 10 per cent in value over the previous 12 months.



Sales of pleasure or passenger cars of all types to June 30, the end of the year in the industry, were 665,826, for which the manufacturers received \$450,941,131, while the sales of commercial vehicles of all types are estimated at 37,700, valued at \$72,522,692. The figures for 12 months ended June 30, 1914, were 515,101 cars, passenger and commercial, valued at slightly more than 485 million dollars. There are now more than 2 million automobiles registered in the United States.

During the winter you should go over the body of your automobile two or three times with a soft cheesecloth lightly saturated

in boiled linseed oil. This keeps the varnish from checking and cracking. The oil must be boiled, or the surface will be gummy and sticky. After giving it a coating of oil and a good rubbing



down with a soft chamois, the bed and gears will look as good as new. The leather upholstery may be treated the same way.

## But the Agent Could Help

In the Farmers Mail and Breeze of December 25 I read of an excellent yield of Sudan grass grown by Fred Snider, Linn county. He planted 3 pounds and got 5 bushels. I bought only 2 pounds of the seed and threshed out more than 12 bushels and had shattered some before I could cut it.

This was done in Seward county with no co-operation and no county agents. It was planted in new sod. The sod was broken about May 1 and disked. I planted the seed about the middle of May, harrowing it once when small and ran through with a double rig "buster" when a foot high and that's all.

Plains, Kan. H. L. Jantzen.

## A Floral Family

Aunt Lindy had brought around her three grandchildren for her mistress to see. The three little darkies, in calico frocks, stood squirming in line while Lindy proudly surveyed them.

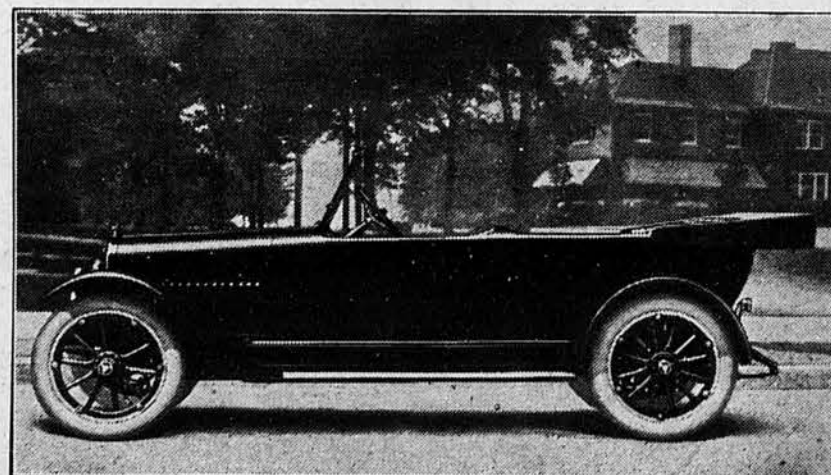
"What are their names, Lindy?" her mistress asked.

"Dey's name" after flowers, ma'am. Ah name 'em. De bigges' one's name' Gladiola. De nex' one, she name' Heliotrope."

"Those are very pretty," her mistress said. "What is the littlest one named?" "She name' Artuhficial, ma'am."—Woman's Home Companion.

## O, Dreary Day

When I feel that awful feeling  
Slowly creeping o'er my frame,  
Then I surely know what's coming,  
For I've oft' been through the game.  
When my head gets full of beeswax  
And my tongue gets coated thick,  
When my back aches like the dickens  
And my tummy's like a brick;  
When I feel by friends forsaken,  
And the very sun looks blue,  
When my eyes fill up with soapsuds  
And my nose with liquid glue;  
When my mental gear gets rattled,  
And the cogs begin to slip,  
When my breath comes thick and wheezy,  
Then I'm going to have the "grip."  
Watson, Kan. G. G. Aikins.



For Hills and Mudholes as on the Road there is an Abundance of Energy in the Latest Hudson—the Super-six.

# Some Famous Dairy Cows

Official Records Made by Animals of the Various Breeds

BY HAROLD McALISTER

November 17, 1915

GROWTH of the Advanced Registries of the different dairy breed associations in America has been the most accurate indication of the progress that has been made in increasing the production of their cows. It is of much interest, therefore, to study the official records that have been made by the cows of the different breeds.

In comparing the records made by the cows in the various breed associations, we find that they are grouped into three divisions, the seven-day test, the 30-day test, and the yearly test.

## The Seven-Day and 30-Day Tests.

The wonderful growth in popularity of the short-time tests, especially that for seven days, amongst the breeders of purebred dairy cattle in America, has been one of the most remarkable chapters in the history of animal husbandry. While the greatest seven- and 30-day records usually have been made under very favorable conditions, yet the production of the dairy cow has been so developed by these tests that there are today several cows that have produced more milk or butter in a month than the average dairy cow in America gives in a year.

In the seven-day test the synopsis of 47,145 official butter records made for that length of time is as follows:

Over	32	28	24	20
	lbs. fat.	lbs. fat.	lbs. fat.	lbs. fat.
Holstein	5	42	501	2625
Jersey			3	9
Guernsey			2	35
Ayrshire			0	8

	Milk	Butterfat
K. P. Pontiac Lass.....	585.9	35.343
Valdessa Scott 2d.....	694.6	33.50
Sadie Vale Concordia 4th.....	691.4	32.848
Average.....	657.3	33.897

	Milk	Butterfat
Doris Park Lilly.....	435.5	26.108
Sophie 19th of Hood Farm.....	428.5	25.442
Myrtle of Big Poplar.....	473.6	24.706
Average.....	445.9	25.419

	Milk	Butterfat
Murne Cowan.....	564.8	24.40
May Rima.....	429.3	24.40
Dolly Dimple.....	479.7	23.90
Average.....	491.3	24.233

The world's record Ayrshire for seven days is Gerranton Dora 2d, who made 541.1 pounds milk and 23.60 pounds fat in that length of time.

The three highest Ayrshire records for seven days average 526.4 pounds milk and 23.014 pounds butterfat.

The leading Holstein cows in the seven different divisions for seven days are:

Class	Name of Cow	Milk	Butterfat
Full-Aged	K. P. Pontiac Lass.....	585.9	35.34
Sr. 4-yr.-old	Agatha Pontiac.....	575.8	29.52
Jr. 4-yr.-old	Mabel Segis Korn-dyke.....	610.2	32.26
Sr. 3-yr.-old	Lady Tobe De Kol.....	631.0	29.27
Jr. 3-yr.-old	Flinderne Hollingen Fayne.....	608.1	29.87
Sr. 2-yr.-old	Molly Johanna Korn-dyke.....	484.1	24.50
Jr. 2-yr.-old	Flinderne Pontiac.....	567.5	22.61
Average.....	Netherland.....	580.4	29.05

The world's butterfat record for seven days has been held by the following cows, all of which are of the Holstein breed:

Year	Cow	Milk	Butterfat
1894	Rosa Bonheur 5th.....	726.3	20.47
1894	Mutual Friend 2d.....	585.1	20.61
1895	De Kol 2d.....	536.8	21.26
1896	Netherland Hengerveld.....	544.9	21.33
1901	Lilith Pauline De Kol.....	653.4	22.59
1901	Mercedes Julip's Pietertje.....	584.0	23.49
1903	Sadie Vale Concordia.....	694.3	24.51
1904	Aagie Cornucopia Pauline.....	659.2	27.46
1907	Colantha 4th's Johanna.....	651.7	28.18
1909	Grace Fayne 2d's Home-stead.....	524.5	28.44
1910	Pontiac Clothilde De Kol 2d.....	646.1	29.77
1911	Pontiac Pet.....	590.7	30.14
1912	Pontiac Lady Korndyke.....	604.4	30.42
1912	Valdessa Scott 2d.....	694.6	33.50
1913	K. P. Pontiac Lass.....	585.9	35.34

From 1894, when the Babcock test was first introduced, to 1913, there has been an increase in the highest butterfat record of from 20.47 pounds to 35.34 pounds in seven days, an increase of approximately 75 per cent.

The averages of 10,743 Holstein cows for the fiscal year 1914-15 present the following summaries for seven days:

	Lbs. milk	Lbs. fat	Per cent fat
3,115 mature cows.....	475.8	16.947	3.56
661 senior 4-yr.-olds.....	453.6	16.405	3.62
828 junior 4-yr.-olds.....	444.0	16.076	3.62
955 senior 3-yr.-olds.....	419.4	14.865	3.54
1,203 junior 3-yr.-olds.....	398.7	14.194	3.56
1,102 senior 2-yr.-olds.....	360.1	12.603	3.50
2,779 junior 2-yr.-olds.....	324.1	11.434	3.53
10,743 (average for).....	406.3	14.474	3.56

In the 30-day division the synopsis of the 12,132 records made by the lead-

ing cows of the leading dairy breeds is as follows:

Over	128	112	96	80
	lbs. fat.	lbs. fat.	lbs. fat.	lbs. fat.
Holstein	4	31	254	1048
Guernsey			3	39
Jersey		1	4	33
Ayrshire			1	10

The leading Holstein cows in each of the seven different divisions for 30 days are:

Class	Name of Cow	Milk	Butterfat
Full-aged	K. P. Pontiac Lass.....	2316.4	137.20
Sr. 4-yr.-old	Crown Princess.....	2501.0	113.82
Jr. 4-yr.-old	Mabel Segis Korn-dyke.....	2695.8	132.18
Sr. 3-yr.-old	Lady Tobe De Kol.....	2530.5	112.95
Jr. 3-yr.-old	Flinderne Hollingen Fayne.....	2599.1	120.27
Sr. 2-yr.-old	Flint Bertjusca Pauline.....	2496.0	93.49
Jr. 2-yr.-old	Flinderne Pontiac Netherland.....	2329.4	88.58
Average.....		2495.4	114.07

The highest Guernsey record for 30 days is held by May Rima, who produced 1839.9 pounds milk and 103.03 pounds fat in that length of time. She is closely followed by Murne Cowan, who made 2361.5 pounds milk and 102.02 pounds fat in 30 days. The highest Jersey record for 30 days is that of Olympia Fern, who made 1912.8 pounds milk and 116.49 pounds fat. The highest Ayrshire record is that of Gerranton Dora 2d, who produced 2319 pounds milk and 101.15 pounds fat in 30 days.

The ten Holstein cows having the highest butter record for 30 days, with their records for seven days also, are as follows:

	Pounds fat 30 days.	7 days
K. P. Pontiac Lass.....	137.20	35.34
Mabel Segis Korn-dyke.....	132.18	32.26
Valdessa Scott 2d.....	131.43	33.50
Sadie Vale Concordia 4th.....	130.49	32.85
Pontiac Lady Korndyke.....	125.54	30.42
Dona Koningen Pietertje.....	123.51	29.95
Sadie Vale Concordia 4th.....	121.85	30.74
Pietertje.....	121.11	32.06
Johanna De Kol van Beers.....	120.27	29.87
Flinderne Hollingen Fayne.....	119.93	29.96
Tweede White Lady.....	118.35	31.70
Average.....	126.33	31.70

That the production of Holstein cows for 30 days is steadily increasing is shown in the fact that it was only four years ago that the world's record for 30 days was 116.53 pounds fat, held by the cow, Pietertje Maid Ormsby, yet since that time there have been 16 Holstein cows to exceed that figure.

The race for the highest milk records in the different divisions of the various breeds, while not as close as is the struggle for butter supremacy, yet offers some very interesting and instructive comparisons. In the Guernsey breed, Murne Cowan holds all honors for the highest production, making 82.10 pounds milk in 24 hours, 564.8 pounds milk in seven days, 2361.5 pounds in 30 days, and 24,008 pounds in a year. The Jersey cow, Lass 66th of Hood Farm, holds the milk record for that breed for 24 hours, giving 74.87 pounds milk, and also for 30 days, giving 2095.9 pounds milk. Eminent's Bess holds the Jersey milk record for one year of 18,783 pounds. Auchbrain Brown Kate 4th holds the Ayrshire yearly milk record of 23,022 pounds.

In the Holstein breed, Netherland Harriet Ann holds the milk record for one day, making 138 pounds milk in 24 hours. Margie Newman is second, with a production of 136.5 pounds milk. Riverside Sadie De Kol Burke is third, with 134.7 pounds and May Echo Sylvia fourth, with 131 pounds milk.

The five highest milk records for seven days are as follows:

	Milk	Butterfat
Riverside Sadie De Kol Burke.....	920.8	25.83
Margie Newman.....	895.6	26.23
May Echo Sylvia.....	879.2	29.06
De Kol Queen La Polka 2d.....	841.8	28.305
College Belle Wayne.....	824.3	28.30
Average.....	872.5	27.55

The five highest Holstein milk records for 30 days are as follows:

	Milk	Butterfat
Riverside Sadie De Kol Burke.....	3,735.6	104.11
May Echo Sylvia.....	3,711.2	118.69
Margie Newman.....	3,555.6	104.95
De Kol Queen La Polka 2d.....	3,376.5	116.09
College Belle Queen.....	3,338.1	116.55
Average.....	3,543.4	112.08

The world's milk record for 60 days is held by May Echo Sylvia, who made 7207.5 pounds milk and 228.15 pounds fat. She also holds the world's milk record for 90 days, with a production of 10,405 pounds milk and for 120 days, giving 13,568.9 pounds milk. The world's

(Continued on Page 31.)

# PEORIA TRACTOR

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SELF-STEERING  
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the WEIGHT

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**Cochrane Packing Co., KANSAS CITY KANSAS**

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"Out of eight calls I sold six. Then ordered in four dozen lots and sold five lamps a day. My patrons all say they are fine after using them a year."—B. Stewart, S. Dak.  
"Between Jan. 2 and Feb. 20, I sold about 275 lamps. I never saw anything that would sell equal to it."—Charlie Conrad, Ohio

**Sample Sent Prepaid—10 Days FREE** to responsible men. Tell us what territory you prefer, whether you have a rig or auto so you can work in country, how long you have lived in the community, etc., so we can give you full information, agency terms, credit plan and sample lamp for free trial.

## Legumes and a Larger Profit

(Continued from Page 3.)

rivers almost always is rich, unless it contains too high a proportion of sand. Much better crops would be possible in the Kansas river bottoms, of course, if the land were handled properly, but the owners of this rich soil do not have to be so careful in soil management as the farmers on the uplands. There is some land in Kansas, take that on the uplands between Iola and Yates Center for example, that requires mighty careful management if the crop yields are to be kept above the limit of profitable production. These soils can be kept up only by the adoption of a logical crop rotation in which legumes are featured, and by feeding all the crops on the farm where they are grown, and carefully returning the manure to the soil.

There is another reason why a larger acreage of the legumes is needed, and that is the beneficial effect it has had in increasing the livestock industry. A

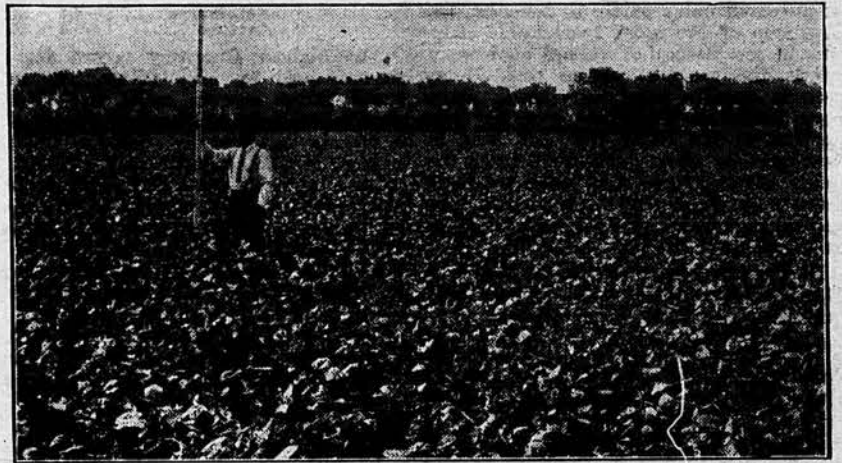
it is produced, and not to sell it to some central market. There is altogether too much alfalfa hay sold from the farms of Kansas—this movement has made Kansas City the greatest alfalfa market in the world. However, low prices for alfalfa have been the rule with the sale of much of the crop of 1915, which has helped to lower some of this enthusiasm for the sale of the hay. Keep it, feed it to well bred animals on the place, and it will give you a larger profit, as a rule, than if you haul it away as hay. More than this, most of the fertility will be left where you want it, on your place.

TO BE CONTINUED.

## Windbreaks Are Needed

BY W. J. MORRILL.

Windbreaks usually are more or less ornamental on a farm, and add to the contentment of the owner. But it is not generally known that windbreaks actually pay dividends. At least, studies made a few years ago in Kansas



A Field of Cowpeas in Riley County—This Legume Deserves a Great Deal More Attention as a Cash Crop in Eastern Kansas.

livestock system should be the rule on every Kansas farm—except where some specialty like fruit or truck is featured—for it will pay well financially. Livestock farmers in Kansas can make a larger profit over any extended period than the grain farmers. It is true that the wheat growers did especially well in 1914, due to a combination of an amazing yield and a remarkably high price, but they got enough grief from the Hessian fly, wet weather and other troubles last summer to average up the conditions somewhat.

If livestock farming is the most profitable basis for farming in this state, as indeed it has been well shown that it is, the importance of a larger acreage of legumes becomes very obvious. There is an important need for making all gains with farm animals as cheaply as possible of course, and this makes a big use of home grown protein necessary. As a rule one can grow the protein much cheaper as alfalfa than he can buy it in the form of bran. Of course it frequently is best to use some concentrated feed, but the rule should be to produce all the protein possible for the ration on the home place, where the cost can be reduced to the minimum.

From every angle the question is considered the need for a larger acreage of legumes is obvious. Of course it is important that there should be a proper increase in the livestock to keep up with this, for the aim should be to feed the hay from these crops on the place where

indicate that windbreaks are profitable. It must be admitted that windbreaks occupy space that could profitably be devoted to agricultural crops, and that the roots of the trees and their shade render a strip of ground on either side of the windbreak relatively unproductive. Yet in spite of these drawbacks, efficient windbreaks undoubtedly do more good than evil.

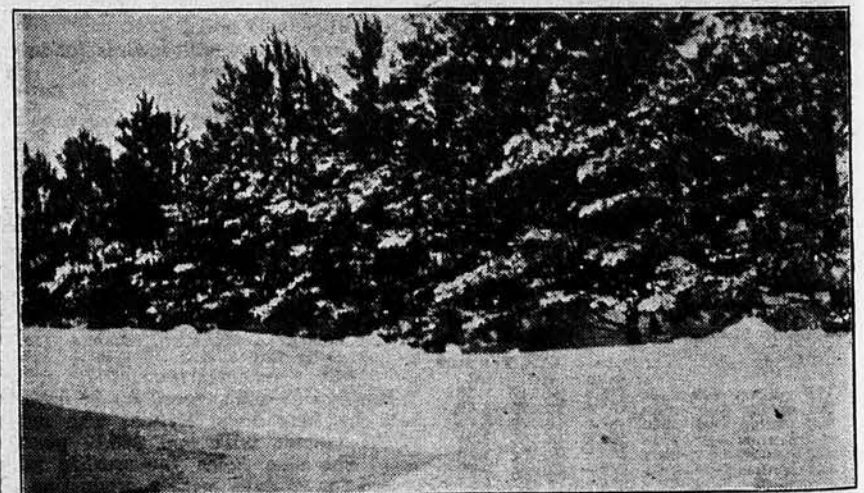
The windbreak reduces the velocity of the wind, and, therefore, the loss of soil water from evaporation from the soil surface and from the field crops. This is equivalent to additional rainfall, just as "a dollar saved is a dollar made." It seems from investigations made by the United States forest service that the greater yields of field crops and apples behind the protection of a good windbreak are enough to encourage every farmer in the prairie states in planting windbreaks.

## Teaching by Sound

In a certain colored school the pupils were undergoing a drill in the meaning and use of words. "John," said the teacher, "can you give a sentence containing the words 'defeat' and 'debasement'?"

"De feet slipped on de steps, an' de boy fell into de basement!" announced John, triumphantly.

Get the box stalls ready for the cows that are to calve in the early spring.



Windbreaks are Needed on the Farms of Kansas for Protection—This is Especially True in the Western Half of the State.

THE SPORTSMAN GIVES THE GOOD JUDGE A POINTER.

YOU SAY YOU NEED  
AMMUNITION, WHY YOUR  
BELT IS FULL.



YOU DON'T CATCH ON  
JUDGE, I WAS HINTING  
FOR SOME  
OF THAT  
REAL  
TOBACCO  
CHEW



**NOBODY** wants to carry a big, bulgy wad of tobacco in his cheek. **W-B CUT** Chewing—the Real Tobacco Chew, new cut, long shred—is different. A small chew satisfies you. You don't have to spit so much—and you don't need to grind on it.

Get a pouch from your dealer and give it a quality test—then you'll know.

"Notice how the salt brings out the rich tobacco taste."

Made by **WETMAN-BRUTON COMPANY**, 50 Union Square, New York City

## New 1916 Plow Offer—The

High-Grade Monmouth Extra Steel Walking Plow

**\$8.10!**

A big reduction in price, due to our great increase in production—and our method of selling Direct from Factory to Farmer. A better Walking Plow has never been made! Look at the high-class construction! Share and moldboard the Very Best Soft Center Steel, Finely Tempered and Polished. Heavy steel frog, to insure ample strength and lasting durability. Heavily braced at every point of strain, to guarantee steady, true running. Beam made of High Carbon Steel. Toughest Oak Handles, nicely finished grips. The plow with "just the right hang." And sold direct for \$8.10 with a **FIVE-YEAR GUARANTEE**. Write today. Get full details of this NEW plow offer!

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The Plow Man, with Monmouth Plow Factory, 621 South Main St., Monmouth, Ill.

**30 Days' Free Trial**  
**Sold Direct From Factory**

**We SAVE You Money**

## Don't Wear a Truss



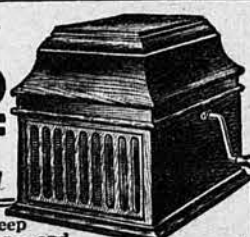
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ENGRAVING DEPARTMENT  
TOPEKA, KANSAS  
CUTS OF YOUR LIVESTOCK FOR LETTERHEADS & SALE CATALOGS

### Forty Bushels to the Good

A man who takes care of his farm so as to increase grain yields from 100 to 200 per cent, has done something worth while, don't you think? That is what John S. Ellenbecker, a Marshall county farmer, has accomplished.

One of the easiest ways to make a run-down farm productive is to feed some livestock every year. This was the principal theme of the talk given by Ellenbecker at the meeting of the state board of agriculture, January 13. Ellenbecker admitted that it is only in recent years that Kansas farmers have been willing to believe it possible to wear out Kansas soil. He was reared to believe that Kansas soil is so deep and rich that it would be a waste of time to fertilize.

The farm that Ellenbecker bought in Marshall county, about 12 years ago, was made up of such poor land that it hardly would grow corn. He was bright enough to realize at once that all this theory about Kansas soil being too rich even to need to be fertilized, did not apply to his farm. So he began right from the start to take care of his land, feed it, and bring it back to the productive corn land that it used to be.

His first move was to sow about one-third of the place to alfalfa, and he has kept about that proportion to alfalfa ever since. There were several good reasons for his choice of this crop. He knew that the ground would be benefited by the addition of nitrogen to the soil by the bacteria on the roots of the alfalfa. Then, too, he knew the alfalfa would make a fair yield in soil so thin that most other crops would make only a small growth. Alfalfa also fitted in perfectly with his plan of feeding his products to livestock, and putting the manure on the land.

It is not Mr. Ellenbecker's idea to go into cattle feeding as a business, but ever since he started to try to improve his farm land he has fed one or two carloads of livestock a year. Sometimes he fed sheep. Other years it was calves, steers, or other cattle. The idea that he kept in mind was to produce all the hay and roughage he could, and then to feed all of it.

Ellenbecker pointed out that it does not necessarily take much money to carry through a plan of this kind. It always is possible to grow a large amount of rough feed, and feeding can be done without using high priced grain. Lambs are the only stock that are finished on this farm. It suits Ellenbecker to put growth on the cattle he handles, rather than fat. There have been years when he fed a carload of cattle that, as he expressed it, "They didn't even see an ear of corn."

From 300 to 400 loads of manure are hauled to Ellenbecker's fields every year. This land would produce 15 to 20 bushels of corn, or 10 to 12 bushels of wheat, 12 years ago; and now it produces from 30 to 60 bushels of corn, and 20 to 30 bushels of wheat.

An effort is made to get the greatest value possible from the manure produced. The feeding is done in sheds, and the manure is protected from the weather until it is taken to the fields. The advice that Ellenbecker gives, because of his experience in the last few years, is "Feed at least one carload of livestock every year and return the fertility from the feed lots to your soil."

### Some Famous Dairy Cows

(Continued from Page 29.)

record for six months, or 182½ days, is 18,275.8 pounds milk, held by Riverside Sadie De Kol Burke.

The five highest Holstein milk records for a year are as follows:

	Milk	Butter-fat.
Tilly Alcartra .....	30,451.4	951.23
Lillith Piebe De Kol .....	29,599.4	920.50
Creamelle Vale .....	29,591.4	924.68
Riverside Sadie De Kol .....	28,826.4	868.10
Burke .....	28,752.3	982.23
Crown Pontiac Josey .....	29,444.2	929.35
Average .....		

There are eight Holstein cows that have produced over 800 pounds milk in seven days, and 73 that have produced over 700 pounds of milk. There are three Holsteins that have made over 3500 pounds milk in 30 days, and 38 that have made over 3000 pounds. Thirty-three Holsteins have given over 24,000 pounds milk in a year and eight have made over 28,000 pounds.

Sometimes we think that the best horseshoer is the one who can make the shoe stay on longest.



### What Our Big Production Means to You

Year after year for many years, we have made more spark plugs than all the others combined.

Year after year we have greatly enlarged our output.

This year we will double last year's production.

Year after year we have made Champions more and more dependable.

As our production has grown we have been able to adopt extreme and still more extreme measures to insure dependability—

Because—as our production increases we can distribute the expense of these extremes of engineering, of testing and of processing over a vastly larger number of spark plugs.

That's why Champions are so much more dependable.

Your dealer will supply you with the Champion designed to serve your car more dependably than any other. Look on the porcelain [not merely on the box] for the name Champion.

**Champion Spark Plug Company**

504 Auburndale Ave.

Toledo, Ohio



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THE virgin soil that the stumps keep out of cultivation in the best soil you have. You can pull out an acre or more of stumps in a day at a cost of from 3c to 5c per stump. No matter how big or tough the stump, it walks right out when the Hercules gets hold of it. With the stump come all the long tap roots that spread out in all directions. The land is left ready for cultivation.

**HERCULES Triple Stump Puller**  
Let us send you proof that thousands of farmers have made big money by the Hercules. Get our money saving proposition.  
HERCULES MFG. CO.  
128 24th Street, Canton, Ohio

Ask About Hand-Power Pullers Low Price 120,000 Pounds Pull

**New Edition of Modern Silage Methods**

July 10c

ENTIRELY a new book—new chapters—tells facts about every type of silo—home made, stave, brick, cement, tile, metal, pit, etc. Tells best for your needs—impartial suggestions for making most profits. 264 pages—10 page index—Copyrighted Nov. 1914, covers 41 silage crops. Send for new book; it beats all previous editions. Write today. Mailed for 10c. Mention this paper. Silver Mfg. Co., Salem, O.

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Full size, words and music, colored title page. One song free if you send 10c for 3 months subscription to our big magazine. Take choice of Rosary, I Love You So, Old Farm House, Ave Maria, HOUSEHOLD, Dept. 12, Topeka, Kansas

**Rock Island No. 3 Sulky Plow**

**Rock Island Bonanza Disc Harrow**

**Rock Island Hinged Elevator Loader**

**Great Western Manure Spreader**

**Rock Island Corn Planter**

**Rock Island Perfection Cultivator**

**Great Western Separator**

## The Farm Tools That Increase Farm Profits—Decrease Farm Toil

**ROCK ISLAND Farm Tools** are not first in the estimation of farmers everywhere because they were first 61 years ago. They are first today because they are the most improved farm implements today. They represent and possess (for your benefit) the improvements resulting from 61 years of constant effort to better farm implements.

**Are You Thinking of Buying Any Kind of Farm Tool?**  
Then ask yourself these questions: Why do so many thousands of farmers declare the famous *Rock Island No. 3 Sulky Plow* (either right or left hand) the best plow for making a square corner and always keeping the plow in the ground? Why do so many thousands of farmers prefer the *Bonanza Disc Harrow*, which always discs the field at one uniform depth and angles from the outer instead of the inner ends? Why do farmers everywhere insist on getting the *Great Western Manure Spreader*, the spreader with all four wheels under the load—the *Rock Island Corn Planter*, noted for its accuracy of drop—the *Rock Island Hinged Elevator Hay Loader*, that enables you to run the elevator a long way behind wagon and so assists you to load wagon easier, quicker—the *Rock Island Perfection Cultivator*, the self-balancing, leverless, riding or walking cultivator—the *Great Western Cream Separator*, the closest skimmer and easiest to clean of all separators—and all

## Rock Island Farm Tools

There are reasons why! Otherwise, we could have never built up the business we have. Otherwise, we could have never won the confidence and the loyal patronage of farmers that we enjoy. You know that! Now, if we have farm tools that are better—tools that do represent 61 years of farm implement improvement, you want them, don't you? Why not get all the facts? Why not

**GET THIS FREE BOOK**  
**It will Save You Money and Time and Work**  
It will post you on farm implement values. It will help you to select the farm tools you need—to cut down work on the farm, to assist in making perfect seed beds, to help in plowing, planting, cultivating, haying. The book is free. Write for it. Send us your name and address on the coupon—or a post card.

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# This Ice Crop is a Whopper

## A Fine Time for Butchering—Most Stock Doing Well

By Our County Correspondents

THERE has been a bountiful harvest of almost everything in Kansas, since this time last year. Even the ice crop is all that could be desired. If we should figure the yield in thousands of tons, the figure would take your breath. These are cold facts. The majority of farmers in Kansas are prepared to take good care of their stock, no matter what sort of weather we have, so the cold storm did not cause so very much suffering. A great deal of butchering is being done.

### KANSAS.

**Finney County**—Dry weather until January 12 when it turned very cold and we had a light snowfall. Wheat needs moisture.—Frank Coen, Jan. 12.

**Graham County**—Real winter weather and the mercury has dropped to 15 below zero but not much snow. Stock not suffering. Feed plentiful. Corn picking not finished yet.—C. L. Kobier, Jan. 15.

**Cherokee County**—Two days of rain and sleet, and everything is covered with ice. Stock doing well. Plenty of feed. Not many sales. Hay \$8 ton; corn 70c; hogs \$6.25; eggs 30c.—A. E. Moreland, Jan. 15.

**Grant County**—Winter is here but farmers are ready for it. Stock in fair condition. Some threshing to be done yet. Grain making a fair yield. Corn 58c; milo 55c; broomcorn 80c to \$1.20.—J. M. Kinsman, Jan. 12.

**Decatur County**—A little snow and very cold weather the last week. Wheat in fair condition. Cattle dying in corn stalk fields. Some land changing hands. Very few public sales. Wheat \$1; corn 56c; hogs \$6.20.—G. A. Jern, Jan. 15.

**Ellsworth County**—Snow storm and cold wave January 12. Light snow but weather is very cold. Hessian fly in wheat but it is hoped the cold weather will give them a set-back. Late sowed wheat thin stand.—C. R. Blaylock, Jan. 12.

**Leavenworth County**—Most of the wheat does not look very well. Corn scarce but bringing good price. Many of the hogs being sold light because of scarcity of corn. Many farm sales scheduled for between now and March.—George S. Marshall, Jan. 15.

**Sedgewick County**—Some cold weather and things are frozen. Wheat is small but in good condition. A good deal of plowing done. Corn averaged 30 to 35 bushels to the acre. A good many hogs going to market. Not many cattle on full feed but all stock doing nicely. A good many sales and stuff sells good. Young mares very high.

Some land selling at high prices. Alfalfa hay \$6 to \$11; wheat \$1 to \$1.07; corn 60c; kafir 50c to 60c; eggs 28c.—J. R. Kelsa, Jan. 14.

**Marion County**—Not very cold weather until January 11 but since that date the thermometer has been at 17 and 21 degrees below zero. Not much snow. Roads not bad. Livestock selling well. Wheat doing better since we had a little moisture. Wheat \$1.10; corn 62c.—Jac. H. Dyck, Jan. 14.

**Jackson County**—Ground covered with snow and sleet. Weather the coldest of the winter. Wheat in good condition. Feed plentiful and stock doing well. Considerable corn being marketed. Not many cattle on feed. A good many hogs being marketed. Corn 62c; hogs \$6.65.—F. O. Grubbs, Jan. 15.

**Morris County**—Very cold weather but not much snow. Several light snows the last month which have benefited the wheat. Wheat in good condition. Corn mostly all out and cattle being pastured on stalks with no bad results. A large amount of corn being put on the market.—J. R. Henry, Jan. 15.

**Osborne County**—Cold and dry weather. Very little moisture since wheat was sown. Twelve below zero on January 13, which was good for the ice harvest. Wheat not showing up much. No pasture to speak of. Some losses from pasturing corn stalks. Corn about all husked and worth 60c.—W. F. Arnold, Jan. 14.

**Woodson County**—Cold weather with a little snow and sleet. Considerable plowing has been done. Corn husked and kafir topped but not all threshed yet. Wheat looks good and the stand is good. Cattle doing well. Public sales not so plentiful. Hogs \$6; choice prairie hay \$7 ton; corn 55c to 60c.—E. F. Opperman, Jan. 14.

**Harper County**—Cold weather the last week but not much snow. No dampness for about three months. Most of the wheat is small but it looks all right yet. Stock wintering fairly well. Not many public sales. No farms changed hands yet this season. Wheat \$1.08; corn 63c; oats 45c; kafir 46c; eggs 25c.—H. E. Henderson, Jan. 15.

**Logan County**—Farmers busy husking corn. Corn huskers getting 5c to 6c a bushel but they are rather scarce. Small grain threshing out better than was expected. Some zero weather and a little snow the last week. Ground is dry for wheat but the wheat is still looking good. Corn 61c; oats 40c; eggs 27c.—R. McCormick, Jan. 14.

**Douglas County**—Seventeen below zero on January 13 but a little warmer now. Ground covered with snow and ice. Wheat has been well protected most of the time and looks much better since the moisture. A good deal of plowing done since the first of the year. Stock of all kinds doing well. Not much stock being fed for market. Alfalfa

\$11 to \$13 ton; No. 3 wheat \$1; prairie hay \$7 to \$8 ton; oats 40c; corn 68c; old hens 10c; springs 11c; eggs 28c to 30c.—O. L. Cox, Jan. 13.

**Gray County**—Severe winter weather with a little snow put a stop to seed threshing and shelling for the present. Kafir made an excellent yield. Some corn made 60 bushels to the acre. Wheat yield less than a year ago. Cattle and horses mostly on wheat pasture and doing nicely. A number of carloads of corn and kafir to be shipped out of the county. Hogs \$5.50; kafir 80c to \$1; wheat \$1.05; corn 60c.—A. E. Alexander, Jan. 15.

**Allen County**—Fine weather until the holidays but real winter since. Stock doing very well. Hogs not dying as fast as they were. Not so much corn going to market as at gathering time. Plenty of feed such as fodder. Not many horses and mules going to market. A good many hogs going to market light. Not many cattle being marketed. A few sales. Corn 60c; kafir 50c; eggs 23c; butterfat 27c; hay \$5 to \$6.—George O. Johnson, Jan. 14.

**Barton County**—First real winter weather on January 12 when the temperature was 10 degrees below zero. Some farmers fear that the wheat was injured by the hard freeze. About 1 inch of snow which lodged along roads and fences leaving the fields bare. Warmer weather with some moisture would benefit wheat. Corn about all husked except the shock corn. A good deal of corn has been shelled and hauled to market. Stock doing well. Not much wheat going to market. Wheat \$1.06; corn 60c.—J. A. Johnson, Jan. 15.

### OKLAHOMA.

**McIntosh County**—Very cold weather, and 4 inches of ice. A large acreage of oats will be sown. Corn and cotton ground has not been divided yet.—H. S. Waters, Jan. 15.

**Texas County**—Cold weather and snow. Only 50 per cent of the wheat crop is good. Many new buildings being put up. Farmers delayed with threshing. Stock doing fine on wheat and barley. Eggs 20c; wheat \$1; milo and kafir 80c.—Frank Free, Jan. 15.

**Garfield County**—A very cold wave this week caused more or less suffering among livestock but stock in good condition otherwise. Green bugs in the wheat in parts of the county. Some damage from Hessian fly. Wheat \$1; corn 70c; kafir \$1.—Jac. A. Voith, Jan. 15.

**Delevan County**—Some cold weather at present. Heavy rains followed by a hard freeze and light snow. Ground covered with ice, and traveling is difficult. A few sales, and stock bringing good prices. Corn 60c to 64c on 10 months' time. Wheat \$1.05.—Frank Rock, Jan. 14.

**Custer County**—The coldest weather of the winter this week but it still is dry for the wheat. Threshing about done. Some green bugs reported. Sales numerous and prices very satisfactory. Land selling well. Wheat \$1; kafir 38c; eggs 23c; cream 27c; hogs \$6.25.—H. L. Tripp, Jan. 13.

**Tillman County**—We are having the coldest weather we have had this winter. Some snow and a little rain fell here but more is needed to keep the wheat in good condition. Many farmers will sow oats if it

rains enough. A large number of farm sales.—E. T. Austin, Jan. 15.

**Beaver County**—A very good winter for outdoor work. Two light snows. Farmers very busy hauling their wheat and other crops. A good deal of threshing yet to be done. Kafir and milo turning out well. Stock in good condition and farmers prosperous. Wheat \$1; kafir 40c; eggs 18c.—E. J. Walters, Jan. 11.

**Cleveland County**—Winter at last. Stock in feed lots and looking very good. Not much profit in feeding cattle this winter. Some farms changing hands and farm sales satisfactory. Plowing for spring crops about finished. Some green bugs reported. Roads in very good condition. Eggs 25c; hens 10c.—H. J. Dietrick, Jan. 13.

**Roger Mills County**—Weather very dry and warm for this time of year. Crops nearly all harvested. No plowing done on account of dry weather. Not many public sales. Some hogs dying. Wheat needs moisture. Corn 45c to 55c; shelled corn 67c to 68c; wheat \$1 to \$1.08; milo 68c to 73c.—Hugh H. Sober, Jan. 7.

**Hughes County**—Weather changeable. Cold and everything covered with ice now. Fine weather for butchering. A good many farmers were caught without enough fuel when the cold weather came. Feed plentiful but weather is hard on stock. Hay 25c a bale; corn 50c; eggs 25c; apples \$1.50 to \$2.—Albin Haskett, Jan. 15.

**Kiowa County**—Thermometer below zero yesterday morning. A light snow and rain will help the wheat some but more moisture is needed for plowing and for the wheat. Not much rain the last two months. Some hog cholera. Many public sales and prices of livestock good. Feed plentiful and stock in good condition. Cream 27c; eggs 20c; hens 9½c; corn 45c; kafir 40c.—T. Holmes Mills, Jan. 14.

**Blaine County**—Cold weather. Corn about all out of the fields. Kafir and milo all threshed with fairly good yields. Some fields averaged 30 bushels to the acre. Hog cholera checked. A little plowing done for spring crops. Wheat not growing very rapidly because of dry weather and because it is being pastured but it will be all right if we have favorable weather in March. A few sales and stock selling well. Wheat \$1; corn 50c; kafir 36c; milo 30c; hogs \$6; hay \$8 to \$10 ton.—Henry Willert, Jan. 13.

### Breaking the News

Pat and Mike were working on a tall building together and Mike fell off and was all mashed up and instantly killed. They gathered up what was left of him and sent Pat on ahead to break the news at Mike's home.

"Is this where Mike Malone's widow lives?" he asked at the door.

"Sure, I'm Mrs. Malone," said the woman who opened the door, "but I'm no widow."

"Ain't you, though?" cried Pat. "You just come and look what we've got in the wagon."—Country Gentleman.

## Fifth Annual Statement

End of Fifty-Six Months, December 31, 1915

# The Farmers' and Bankers' Life Insurance Co.

The Greatest Kansas Company

Home Office, Beacon Bldg., Wichita, Kan.

Total Income, 1915.....\$386,711.19

Total Disbursements, 1915..\$250,496.55

Pyramid of Permanent Progress

### Assets

Mortgages on Real Estate.....	\$506,853.56
Collateral Loans .....	14,087.32
Policy Loans .....	21,418.72
Renewal Premium Notes .....	14,476.48
County and Municipal Bonds.....	69,100.00
Certificates of Bank Deposits....	132,150.02
Cash in Bank .....	23,064.70
Accrued Interest .....	11,547.90
Net Defer'd and Uncollected	
Premiums .....	22,832.67
All Other Assets .....	29,121.55
<b>Total Assets.....</b>	<b>\$844,602.94</b>

### Liabilities

Net Legal Reserves on Policies...	\$324,642.07
Extra Reserves on Persistency	
Sharing, Guaranteed Survivor-	
ship and Guaranteed Dividend	
Policies .....	60,037.93
All Other Liabilities .....	4,394.67
Surplus for Distribution	
May 1, 1916...\$ 9,888.82	
Balance Surplus .. 170,639.45—	180,528.27
Capital Stock .....	275,000.00
<b>Total Liabilities.....</b>	<b>\$844,602.94</b>

### Insurance in Force

End of 1911, .....	\$1,845,255.00
End of 1912, .....	\$5,702,520.00
End of 1913, .....	\$7,124,613.00
End of 1914, .....	\$8,661,990.00
End of 1915, .....	\$11,201,994.00

### Assets

End of 1911, .....	\$429,288.00
End of 1912, .....	\$495,143.00
End of 1913, .....	\$566,380.00
End of 1914, .....	\$672,484.00
End of 1915, .....	\$844,602.94

### Reserve Protection of Policy Holders

End of 1911, .....	\$8,321.00
End of 1912, .....	\$39,584.00
End of 1913, .....	\$116,949.00
End of 1914, .....	\$200,502.00
End of 1915, .....	\$384,680.00

Insurance in Force, December 31, 1914, .....

\$8,661,990.00

Gained During 1915, .....

2,539,994.00

Insurance in Force, December 31, 1915, .....

\$11,201,984.00

INSURANCE WRITTEN AND PAID FOR, 1915, \$4,329,665.00

No Other Company Operating in Kansas Equals Us in Kansas

NORTHEASTERN KAN. AG'Y, Lawrence, Kan.  
J. R. Holmes, General Agent

NORTHWESTERN KAN. AGENCY, Salina, Kan.  
Muir & Surface, General Agents

CENTRAL KANSAS AGENCY, Hutchinson, Kan.  
Forsaker & Alexander, General Agents

SOUTHERN KANSAS AGENCY, Wichita, Kan.  
Gaston & Solter, General Agents

SOUTHEASTERN KAN. AGENCY, Parsons, Kan.  
Hal Iselt, General Agent

SOUTHWESTERN KAN. AG'Y, Dodge City, Kan.  
J. V. Allen, General Agent

MISSOURI STATE AGENCY, Kansas City, Mo.  
Amos Z. Gay, State Agent

OKLAHOMA STATE AGENCY, Enid, Okla.  
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# FARMERS CLASSIFIED ADVERTISEMENTS

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ANCONA COCKERELS FOR SALE CHEAP. G. W. Skinner, Baxter Springs, Kan.

PURE BRED BUFF ROCK AND ANCONA cockerels \$1 each. Mary Conner, Cheney, Kan.

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LIGHT BRAHMAS. BLUE RIBBON, CUP winners. Eggs for sale. Call for price list. Adolph Enderle, Salisbury, Mo., R. 5.

I SHIP MY LIGHT BRAHMAS AND EGGS everywhere from New England to California and from Canada to Florida. Winning the highest premiums wherever shown. Pictorial price list for asking. Mrs. J. R. Kenworthy, Wichita, Kan.

### BUTTERCUPS.

BUTTERCUP POULTRY YARDS—SICILIAN Buttercup cockerels for exhibition or utility. W. C. West, R. 5, Topeka, Kan.

### DUCKS.

FAWN RUNNER DRAKES \$1.00. BEN Bachus, Abbyville, Kan.

RUNNER DUCKS. CUP WINNERS. BURT White, Burlingame, Kan.

LARGE PEKIN DUCKS AND DRAKES. H. Beck, Whitewater, Kan.

WHITE PEKIN DUCKS AND DRAKES \$1.00. Jno. Eubanks, Holton, Kan.

FAWN AND WHITE RUNNER DRAKES. \$1.00. Lenore Lanphere, Deer Creek, Okla.

FAWN AND WHITE INDIAN RUNNER drakes \$1.00. Oscar Keller, Le Roy, Kan.

FAWN AND WHITE RUNNER DUCKS. 75 cents. Minnie Corley, Holt, Wilmot, Kan.

MAMMOTH PEKIN DRAKES 8 TO 9 LBS. \$2.00 if taken by Feb. 4. Lillia Heckman, Beattie, Kan.

CLOSING OUT THOROUGHbred PEKIN ducks \$1.00 each. Myrtle Duncan, Topeka, Kan., Route No. 28.

### GEESE.

FOR SALE—WHITE EMBDEN GEESSE. Mrs. W. R. Church, Augusta, Kan.

BIG TOULOUSE GEESSE. A FEW EXTRA. ganders \$2.50 each. Each goose \$2.00; \$6.00 per trio. All extra large and healthy fowls. Send your check early. Ed Sheehy, Hume, Mo.

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PURE BRED BLACK LANGSHAN COCKERELS. Martha Haynes, Grantville, Kan.

100 EXHIBITION AND UTILITY CKLS. \$1.00 to \$5.00 each. John Lovette, Mulhville, Kan.

FOR SALE—PURE BRED BLACK LANGSHAN cockerels \$2.00 each. R. F. Montgomery, Culver, Kan.

BLACK LANGSHAN COCKERELS: GOOD specimens at reasonable prices. W. S. L. Davis, Nickerson, Kan.

RICH, GLOSSY, GREEN, PURE BRED Black Langshan cockerels. Mrs. Geo. W. Shearer, Lawrence, Kan.

PURE BRED WHITE LANGSHAN PULLETS \$1.00, cockerels \$1.00 to \$3.00 each. Eggs \$1.50 per setting. Mrs. Geo. McLain, Lane, Kan.

BLACK LANGSHAN COCKERELS, FROM high scoring stock, large, healthy birds, good color. When writing for prices describe what you want. I think I can suit you. Thos. Hutley, Maple Hill, Kan.

### LEGHORNS.

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

CHOICE BUFF LEGHORN COCKERELS. Six \$5. Pearl Haines, Rosalia, Kan.

L. D. GOOCH, SEWARD, KAN. WILL SELL R. C. B. Leghorn cockerels \$1.00 each, 6 for \$5.00.

S. C. WHITE LEGHORN COCKERELS \$1.50 each. Henry Mehl, Lorraine, Kan., R. No. 1.

ROSE COMB WHITE LEGHORN COCKERELS for sale, 75 cents and up. L. H. Dicke, Lyndon, Kan.

S. C. WHITE LEGHORN COCKERELS 75 cents each. \$4.25 for 6. Frank Fisher, Wilson, Kan.

EXTRA FINE SINGLE COMB WHITE LEGHORN cockerels \$1-\$2. H. Vinzant, McPherson, Kan.

FOR SALE—THOROUGHbred BUFF LEGHORN cockerels. \$1.00 each. C. M. Trusler, Eskridge, Kan.

CHOICE FAMOUS S. C. W. LEGHORNS, bred to lay and win. Cockerels and pullets \$1 up. Geo. Patterson, Lyndon, Kan.

### LEGHORNS.

TIP TOP ROSE COMB BROWN LEGHORNS. J. E. Wright, Wilmore, Kan.

S. C. BLACK MINORCA COCKERELS. Victor E. Hawkinson, Randolph, Kan.

C. S. B. LEGHORN COCKERELS, HENS and pullets \$1.00 and up. H. N. Holdeman, Meade, Kan.

PURE BRED SINGLE COMB BROWN LEGHORN cockerels \$1.00 each. Mrs. F. E. Tonn, Haven, Kan.

SINGLE COMB BROWN LEGHORNS. Both matings. Prices right. G. F. Koch, Jr., Ellinwood, Kan.

SINGLE COMB BUFF LEGHORN COCKS and cockerels \$1.00. Extra fine. J. P. Rishel, Galatia, Kan.

SPONG'S FAMOUS S. C. WHITE LEGHORNS. Cockerels. Hens. \$1.00 up. Alex Spong, Chanute, Kan.

ROSE COMB BROWN LEGHORNS. KULPS strain, prize winners. \$1.00 and upwards. Otto Borth, Plains, Kan.

SINGLE COMB BUFF LEGHORN HENS \$3 and \$10 per dozen. 100 eggs \$4.50. John A. Reed, Lyons, Kan.

SINGLE COMB WHITE LEGHORN COCKERELS, Young strain. \$1.00 and \$2.00 each. Adolph Berg, McPherson, Kan.

PURE BRED ROSE COMB BROWN LEGHORN cockerels and pullets, Kulp strain, \$1. Mrs. B. B. King, Erie, Kan.

200 S. C. BROWN LEGHORN PULLETS and yearling hens for sale at \$10.00 per doz. Mrs. J. O. Hunt, Marysville, Kan.

BARREN-FRANTZ WINTER LAYERS. Single Comb White Leghorns. Selected cockerels \$2.50. Pullets \$1.50. Hens \$1.00. Jno. McMeen, Jefferson, Kan.

WINTERLAY S. C. WHITE LEGHORNS. Bred for eggs exclusively. Baby chicks, hatching eggs stock, orders booked now. Write us. Barlow & Sons, Kinsley, Kan.

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### MINORCAS.

SINGLE COMB BLACK MINORCAS, WITH size and quality. Cockerels \$1.50. H. H. Dunlap, Liberal, Kan.

S. C. WHITE LEGHORNS. COCKS, COCKERELS, capons, hens, pullets, \$1. Victor Hawkinson, Randolph, Kan.

### ORPINGTONS.

CHOICE BUFF ORPINGTON COCKERELS and pullets. Mrs. W. V. Wilson, Detroit, Kan.

FINE WHITE ORPINGTON COCKERELS for sale, \$1.00 each. Otto Kinzig, Clifton, Kan.

S. C. BUFF ORPINGTON COCKERELS. Pure bred. J. W. Wright, Newton, Kan., R. No. 6.

8 S. C. BUFF ORPINGTON COCKS FOR exchange. Mrs. Philip Sargent, Jamestown, Kan.

WHITE ORPINGTON COCKERELS FOR sale. \$1.50 and \$2.50 each. D. H. Hoyt, Attica, Kan.

S. C. BUFF ORPINGTON COCKERELS \$1 to \$3.00 each; good stock. Mrs. D. H. Axtell, Sawyer, Kan.

THOROUGHbred S. C. BUFF ORPINGTON pullets \$1.00. Cockerels \$2.50. J. A. Blunn, Sta A, Wichita, Kan.

SINGLE COMB BUFF ORPINGTON COCKERELS \$1.50 and \$2.00 each. Mrs. Nellie Lawyer, Grenola, Kan.

FINE WHITE ORPINGTON COCKERELS. Bargain prices for 30 days. John Vanamburg, Marysville, Kan.

WHITE ORPINGTON COCKERELS, LARGE bone, farm raised. \$2.00 and \$3.00. Mrs. Geo. Walker, Alden, Kan.

FISHER'S SINGLE COMB BUFF ORPINGTONS. Fine large birds at reasonable prices. F. F. Fisher, Wilson, Kan.

BUFF ORPINGTONS. A CHOICE LOT OF cockerels and cocks for sale. Can please you. August Petersen, Churdan, Iowa.

BUFF ORPINGTONS. SHOW AND UTILITY stock. Reasonable if taken soon. Pleasant Hill Poultry Farm, Ellinwood, Kan.

S. C. BUFF ORPINGTONS. 1ST PRIZE winners Topeka State Fair cockerels \$1 to \$2.50. Mrs. G. W. Miller, Overbrook, Kan.

241 EGG STRAIN S. C. BUFF ORPINGTONS. 200 cockerels, hens and pullets for sale. Catalog free. W. L. Bardsley, Neola, Iowa.

BIG BARGAINS IN WHITE ORPINGTONS. Show and utility stock, \$2 to \$5 each bred from the best blood lines obtainable. S. A. V. Howell, 215 W. 16th St., Oklahoma City, Okla.

WHITE ORPINGTONS—BEST WINTER layers, one hundred hens laid sixty-five eggs on January ninth, hatching eggs \$1.50 per fifteen, \$7.00 per hundred. Urbandale Poultry Farm, Butts Bldg., Wichita, Kan.

### PLYMOUTH ROCKS.

BARRED ROCKS. L. K. MEEK, Mulhall, Okla.

BUFF ROCK COCKERELS \$1.50 AND \$2.00. Mrs. A. Daniels, Wilson, Kan.

PURE BARRED ROCK COCKERELS \$1.00 each. Edw. Rohrer, Elmo, Kan.

BUFF ROCK COCKS AND COCKERELS. E. L. Stephens, Garden City, Kan.

PURE BARRED ROCK COCKERELS \$1.00. Mrs. Bryant Wells, Belmont, Kan.

WHITE ROCK COCKERELS \$1 EACH. Mrs. R. A. Buening, Dillon, Kan.

BUFF ROCK COCKERELS \$3.00 AND \$5.00. Mrs. Maggie E. Stevens, Humboldt, Kan.

PURE BRED BARRED ROCK COCKERELS \$1.00 each. Mrs. R. B. Donham, Hollis, Kan.

BUFF ROCK COCKERELS AT REASONABLE prices. Mrs. Perry Myers, Fredonia, Kan.

50 WEIGHER-LAYER BARRED ROCK cockerels, \$3.00 up. W. Opfer, Clay Center, Kan.

BUFF ROCKS—A FEW HENS AND MALES to spare. William A. Hess, Humboldt, Kan.

FINE BARRED ROCK COCKERELS, PULLETS. \$1.00, \$1.25 each. G. M. Shepherd, Lyons, Kan.

WHITE ROCKS, SIZE AND QUALITY. Satisfaction guaranteed. G. M. Kretz, Clifton, Kan.

BARRED ROCKS—EARLY COCKERELS \$1.50 each, 4 for \$5. Mrs. Ernest Rowe, Jewell, Kan.

WHITE ROCK COCKERELS. GOOD quality \$1.00 each. Cora Stephenson, Argonia, Kan.

BIG BUFF ROCKS, WINTER LAYERS. Quality guaranteed. Mrs. Lloyd Clark, Hazelton, Kan.

MAMMOTH SNOW WHITE ROCK COCKERELS. Write for circular. Charles Vories, Wathena, Kan.

PARTRIDGE ROCKS—THOROUGHbred. Stock and eggs. Edward R. Kelley, Pickering, Missouri.

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PURE BRED WHITE ROCKS. FEW choice cockerels left. Fishel strain. J. W. Boyce, Holton, Kan.

THOROUGHbred WHITE ROCK COCKERELS, large and vigorous. Mrs. E. W. Dales, Eureka, Kan.

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CHOICE BARRED ROCKS. COCKERELS \$1.50, \$2.00, \$2.50. Pullets \$1.00. Ulah Bros., Peabody, Kan.

PARTRIDGE ROCK COCKERELS AND pullets. Noftzger strain. Prize winners. Sol Banbury, Pratt, Kan.

BARRED ROCK COCKERELS. FINE barred, big boned. \$1.00 to \$1.50. Mrs. G. P. Field, Randall, Kan.

BARRED ROCK COCKERELS. HIGH quality \$2.00 to \$10.00. Eggs in season. L. P. Nichols, Kirwin, Kan.

PURE BARRED ROCK COCKERELS. Large, vigorous, farm-raised. \$1.50 each. Mrs. H. Buchanan, Abilene, Kan.

BARRED ROCK COCKERELS, \$2. FARM raised. Large, well marked. Good laying strain. L. B. Brady, Fowler, Kan.

BARRED AND WHITE ROCK COCKERELS and pullets. Won at Wichita this year. H. F. Hicks, Cambridge, Kan.

PETTIS' BARRED ROCKS, WINNERS ST. Joseph and Kansas City, Mo. Heavy laying strain. Choice cockerels \$2 up. Mrs. P. A. Pettis, Wathena, Kan.

BIG BONED WHITE ROCK COCKERELS from prize winning stock. Ivory strain. \$1.50 and \$2.00. Mrs. Chas. Parker, Preston, Kan.

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

BARRED ROCKS—COCKS AND COCKERELS \$2.00 to \$5.00. Satisfaction guaranteed or money back. James H. Parsons, Quinter, Kan.

BINGHAM'S BIG BARRED ROCK COCKERELS are early hatched and well barred. \$1.50 each or 4 for \$5.00. Geo. Bingham, Bradford, Kan.

BARRED ROCK COCKERELS AND PULLETS \$1.50 each. 4 for \$5.00. Fine show birds \$2 to \$3 each. Mrs. A. M. Markley, Mound City, Kan.

BLUE RIBBON WINNERS. BARRED Rocks 106 Premiums. 27 years' experience. Write for prices. Mrs. Chris. Bearman, Ottawa, Kan.

LARGE BARRED ROCK COCKERELS \$2. 3 for \$5. 26 years a breeder. Bourbon Red turkeys. Toms \$4. Hens \$3. 2 for \$5. W. H. Hansen, Abilene, Kan.

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CHOICE STOCK. BUFF ROCK COCKERELS. Bessie Fuller, Blackburn, Okla.

DUFF'S BIG TYPE BARRED ROCKS. WINNERS Kansas State Poultry Federation medal. Cockerels, pullets and eggs. Prompt shipment. A. H. Duff, Larned, Kan.

WHITE ROCKS SHIPPED ON APPROVAL. Snow white, vigorous cockerels from selected pens not related to any I have sold. \$2, \$3, \$5. L. L. Heaton, Harper, Kan.

NARROW, DEEP BARRED, ROCK COCKERELS with right breeding behind them. Satisfaction guaranteed. Each \$2.00. Rates on five or more. Geo. Sims, Le Roy, Kan.

WHITE ROCKS, CHAMPIONS, PRIZE WINNERS. Special prices, cockerels \$3.00. Pullets \$2.00. Eggs \$7.50 per 100. Order direct from this ad. Wible's White Rock Farm, Chanute, Kan.

LINDAMOOD'S BARRED ROCKS. AT Newton, Kan., Dec. 13 to 17 won 4 firsts and sweepstakes in American class. Buy cockerels now from winning and best laying strains. Prices \$2 up. C. C. Lindamood, Walton, Kansas.

### RHODE ISLAND REDS.

ROSE COMB RED COCKERELS \$1 TO \$3. Mrs. Lee Eades, Toronto, Kan.

R. C. R. I. RED COCKERELS. \$1.00 AND \$2.00 each. Box 111, Inman, Kan.

GOOD SCORING S. C. REDS, GUARANTEED to suit. Lela Osterfoss, Hedrick, Iowa.

CHOICE ROSE COMB RED COCKERELS \$1.00 and \$2.00. Andrew Ketter, Kelly, Kansas.

CHOICE ROSE COMB RED COCKERELS \$2.00 each. Mrs. Jas. Crocker, White City, Kan.

CHOICE ROSE COMB RHODE ISLAND Red c'k's \$3.00 each. Mrs. A. L. Scott, Larned, Kan.

CHOICE ROSE COMB REDS, SPLENDID dark red cockerels \$1.50. Max H. Dyck, Halstead, Kan.

LARGE, DARK ROSE COMB REDS. COCKERELS, pullets. Bargains. Sunnyside Farm, Havensville, Kan.

THOROUGHbred S. C. RED COCKERELS. Extra good utility stock. \$2.50 each. Mrs. L. J. Loux, Scott City, Kansas.

S. C. RHODE ISLAND REDS FROM PRIZE winners. Cockerels \$1.50 to \$5.00. Thos. D. Troughton, Wetmore, Kan.

PURE BRED SINGLE COMB RHODE ISLAND Red cockerels \$1.00 to \$1.50. Satisfaction guaranteed. J. H. Vernon, Jennings, Kan.

ROSE COMBED R. I. RED EGGS FOR hatching, satisfaction guaranteed. \$1.00 for 15 or \$5.00 per 100. F. B. Severance, Lost Springs, Kan.

ROSE COMB REDS, 4 COCKS \$3.00 EACH, 18 cockerels \$2 left. Balance sold. These are bargains in even dark velvety Reds. Charles Sigle, Lucas, Kan.

BRED TO LAY S. C. REDS. CHOICE cockerels from the finest lot I ever raised. Satisfaction guaranteed. \$1.50 to \$3.50. Belmont Farm, Box 69, Topeka, Kan.

100 ROSE COMB RED COCKS AND COCKERELS sired by roosters costing \$15.00 to \$75.00. \$1.50, \$3.00, \$5.00, \$7.50 each. A few higher. 1916 pens best ever. W. R. Huston, Americus, Kan.

PRIZE WINNING R. C. REDS. 1ST PEN, 1st cock, 1st, 2d, 3rd pullets. Satisfaction guaranteed. 5 for \$8. Score 90 and up, \$2 to \$5. J. C. Banbury's Hornless Shorthorn Farm, Pratt, Kan.

MEIER'S WINNING SINGLE COMB REDS. Won at Topeka first, third, fourth and fifth cockerels; first and third pullets. Cockerels \$2.50 and \$5.00, guaranteed or money back. H. A. Meier, Abilene, Kan.

ROSE COMB REDS. COCKERELS OR pullets \$2. Bred from prize winners at big shows and fairs in Kan., Mo. and Okla. Red eyes and red pigment on legs. Write for sub-agency on Candee Colony Brooder Stoves. R. W. Baldwin, Conway, Kan.

MALES AND FEMALES IN BOTH COMBS, \$2 and up, sired by state show winners, pedigree, heavy egg laying strains, winners of sweepstakes best dozen eggs in competition open to the world. Get on the winning side, order today. A. M. Butler, Wichita, Kan.

SINGLE COMB RHODE ISLAND RED cockerels for sale. Good colors, weight and type, etc. Price \$1.50 to \$5.00. Won first hen at Topeka, fourth pullet on two entries. Also first hen at Hutchinson, second cockerel, third and fourth pullet, second pen. This was in the strongest class of Reds ever shown in Hutchinson. H. V. Welch, Macksville, Kan.

### TURKEYS.

BOURBON RED TURKEYS. MRS. NEWELL, Milan, Kan.

THOROUGHbred BOURBON REDS. FAY Egy, Turon, Kan.

BOURBON RED TOMS FOR SALE. WM. Moeller, Richland, Kan.

GIANT MAMMOTH BRONZE TOMS \$6.50. Ed Lockwood, Kinsley, Kan.

## TURKEYS.

BOURBON RED TOMS \$5.00. MRS. Frank Tuttle, Chanute, Kan.

THOROUGHbred BOURBON RED TOMS \$3.00. Rollie Kiner, Pierceville, Kan.

MAMMOTH BRONZE TOMS \$5.50. 50 LB. ancestors. L. R. Wiley, Elmdale, Kan.

THOROUGHbred BRONZE TOMS. EXTRA nice. \$5 each. E. Bidleman, Kinsley, Kan.

MAMMOTH WHITE HOLLAND TURKEYS. Mrs. Ada Polndexter, Medicine Lodge, Kan.

PURE BRED MAMMOTH BRONZE TURKEY TOMS. J. N. Cochran, Plainville, Kan.

LARGE BOURBON RED TURKEY TOMS. \$4.00 each. Mrs. F. E. Tonn, Haven, Kan.

MAMMOTH BRONZE TURKEYS. TOMS \$5. Hens \$3. Ruth Snowbarger, LeRoy, Kan.

MAMMOTH BRONZE TOMS. WEIGHT 25 pounds. \$4.00. C. F. Eater, Harper, Kan.

BOURBON RED TURKEYS. HENS \$3.00, TOMS \$4.00. Claude Bridgeman, Abbyville, Kan.

THOROUGHbred BOURBON RED TURKEYS. John Carroll, Lewis, Kan., R. R. No. 2.

BOURBON RED TOMS. PURE BRED. \$5.00 each. Hens \$3. J. W. Wright, Newton, Kan., R. No. 6.

WHITE HOLLAND TURKEYS. TOMS \$4.00, HENS \$3.00. Mrs. R. A. Lewis, Timken, Kan.

EXTRA LARGE. PURE WHITE HOLLAND TOMS \$4.00. HENS \$3.00. Mrs. Will Jones, Wetmore, Kan.

LARGE BOURBON RED TURKEYS. TOMS \$5.00. HENS \$3.00. Mrs. Geo. Bancroft, Piedmont, Kan.

MAMMOTH WHITE HOLLAND TURKEYS. TOMS \$5 up. HENS \$3.00. Mrs. Bertha Bazil, Olivet, Kan.

THOROUGHbred MAMMOTH BRONZE TURKEYS. TOMS \$5. HENS \$3.50. W. Williams, Carlton, Kan.

PURE BRED TOULOUSE GEESE \$2 EACH. Bourbon Red turkey TOMS \$4. Mrs. Del Buckley, Highland, Kan.

THOROUGHbred NARRAGANSETT TURKEYS. HENS \$3.50. TOMS \$5. Mrs. Frank Indermill, Piedmont, Kansas.

BOURBON RED TOMS AND HENS BY first prize cockerel at state show, 1915. Bert Ferguson, Walton, Kan.

THOROUGHbred BRONZE TURKEYS. TOMS \$5 to \$7. HENS \$2.50 to \$4. Mrs. Letha Parkhurst, Plainville, Kan.

FOR SALE—GIANT BRONZE TURKEY TOMS, big bone, splendid markings. Order early. Vira Bailey, Kinsley, Kan.

MAMMOTH BRONZE TURKEYS FOR sale. TOMS \$5.00, HENS \$3.50. Satisfaction guaranteed. Mrs. W. S. Reese, Lucas, Kan.

FOR SALE—NARRAGANSETT COCKERELS, sired by third tom at Frisco, four and six dollars each. W. W. Stover, Fredonia, Kan.

THOROUGHbred GIANT BRONZE TURKEYS for sale, prize winners, three straight state premiums. Mrs. J. W. Smith, Kinsley, Kan., Rt. No. 1.

FOR SALE—MAMMOTH BRONZE TURKEYS. Long line winners. May hatch, good bone. TOMS \$5-6. HENS \$3.50. Gert-rude Tilzey, Lucas, Kan.

## WYANDOTTES.

PARTRIDGE WYANDOTTES FOR SALE. Walter Mirfield, Dunlap, Kan.

CHOICE WHITE WYANDOTTE COCKERELS \$1.50. Mrs. Emma Arnold, Manhattan, Kan.

ROYAL WHITE WYANDOTTE COCKERELS \$1.50. Mrs. J. R. Antram, Galesburg, Kan.

WHITE WYANDOTTE COCKERELS AND females \$1.50 up. G. F. Brown, Lawrence, Kan.

WHITE WYANDOTTES. STOCK AND eggs reasonable. Dr. O. F. Searl, Solomon, Kan.

FOR SALE—BUFF WYANDOTTE COCKERELS. \$1.00 up. Mrs. Lucy Lowe, Pierceville, Kan.

THOROUGHbred WHITE WYANDOTTE cocks and cockerels \$1. Grace Taylor, Alma, Kan.

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

SILVER WYANDOTTE COCKERELS AND pullets, also eggs. Henry L. Brunner, Newton, Kan.

"BEAUTILITY" SILVER WYANDOTTES. \$1.50 to \$5.00. Write Mrs. Edwin Shuff, Plevna, Kan.

SCORED SILVER LACED WYANDOTTES; cockerels \$1.50 each. C. E. Smith, Bucklin, Kan., R. No. 1.

REGEL WHITE AND SILVER WYANDOTTE cockerels; they are fine. Mitchell Mehl, Bushon, Kan.

PURE BRED SILVER WYANDOTTES FOR sale. Prize winning stock. Mrs. Alvin Tennyson, Lamar, Kan.

CHOICE WHITE WYANDOTTE COCKERELS from pens scoring 94 to 96. \$2. Frank Mayer, Marysville, Kan.

THOROUGHbred SILVER LACED WYANDOTTE cockerels \$1.25 each. Frank Kletchka, Horton, Kan., R. R. No. 2.

PARTRIDGE WYANDOTTES. COCKERELS, pullets. Standard color. Best ever. Rosa Carder, Lyndon, Kan.

## WYANDOTTES.

SILVER WYANDOTTES. I HAVE SOME good ones for sale at prices that suit. M. B. Caldwell, Broughton, Kan.

PURE BRED PARTRIDGE WYANDOTTE cockerels \$2 to \$3 each. Satisfaction guaranteed. Carl Bowline, Ada, Kan.

LARGE SILVER WYANDOTTE COCKERELS, best of breeding. \$1.50 and \$2.50. C. R. Mayberry, Morrowville, Kan.

WHITE WYANDOTTES, COCKERELS, cocks, hens, pullets, eggs. Plock's White Wyandotte Farm, Clay Center, Kan.

WOOD'S SILVER WYANDOTTE COCKS and cockerels please. Ask for prices, and guarantee. Earl Wood, Grainfield, Kan.

FOR SALE—ROSE COMB WHITE WYANDOTTE cockerels \$1.00, \$2.00, \$3.00 each. Mrs. Robt. Greenwade, Blackwell, Okla.

FOR SALE—SILVER WYANDOTTE COCKERELS, also Mammoth Pekin drakes. Mrs. W. E. Tilley, Irving, Kan., R. No. 1, Box 41.

GOLDEN WYANDOTTE COCKERELS AND pullets. Eggs in season. Member K. S. P. F. Geo. W. Shelley, Route No. 4, McPherson, Kan.

PURE BRED SILVER LACED WYANDOTTE cockerels \$1 to \$3 each. Satisfaction guaranteed. Write for circular. S. B. Dressler, Lebo, Kan.

FOR SALE—WHITE WYANDOTTE COCK. High score. Blue ribbon and sweepstakes winner, also hens and pullets. G. D. Williams, Inman, Kan.

FOR SALE—WHITE WYANDOTTES AND fox terrier ratters. Some choice kls. 5 fine pens mated now. Mating list free. Glinette & Glinette, Florence, Kan.

FOR SALE—PARTRIDGE WYANDOTTE cockerels; fine, well marked birds. Chicks came from Glendale Farms. Premium strain. \$1.50 to \$3.50 each. J. Q. Boner, Kickapoo, Kan.

## SEVERAL VARIETIES.

AFRICAN GEESE AND PEAFOWLS FOR sale. C. H. Huland, Bellefont, Kan.

FINE BUFF ROCK COCKERELS \$1.50 each. Buff Orpington drakes \$2.00 each. Mrs. Florence Sieglinger, Peabody, Kan.

WHITE ROCK COCKERELS \$1.50 EACH. White Pekin drakes \$1.95 each. White Holland TOMS \$5.00 each. James Jensen, Kinsley, Kan.

MAMMOTH WHITE HOLLAND TURKEYS. TOMS \$4.00, HENS \$3.00 each. White Orpington cockerels \$1.00 each. Mrs. Ed Dorr, Mahaska, Kan.

THOROUGHbred RED TOMS, LARGE, well built, \$5.00 each. Also nice large Plymouth Rock cockerels \$1.00 each. W. T. Dunstone, Laird, Kan.

COLUMBIAN WYANDOTTE COCKERELS \$1 to \$3 each. White Holland turkeys. TOMS \$3.75 to \$4, HENS \$3 each. Bertha V. Chacey, Meriden, Kan.

STURDY STRAIN, STRONG, VIGOROUS cockerels, all varieties—Plymouth Rocks, Reds, Wyandottes, Orpingtons, Leghorns, Langshans, Brahmas, Minorcas, Campines, Hamburgs, Golden Seabright Bantams, \$2.00 and up. Also geese, ducks and turkeys. Write for egg prices. Logan Valley Poultry Farms, Drawer 14, Wayne, Neb.

## MISCELLANEOUS POULTRY.

PAYING 13C HEAVY HENS, DUCKS AND geese 11c. Turkeys 18c. Guinea, dozen \$4. Pigeons 90c. The Copes, Topeka.

POULTRY FOR MONEY MAKING. WRITE for free 1916 booklet giving valuable information about leading breeds. F. M. Larkin, Box 21, Clay Center, Neb.

## SEEDS AND NURSERIES

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

HILDRETH CORN, FETERITA, KAFFIR seed. C. E. Hildreth, Altamont, Kan.

STRAWBERRY PLANTS \$2.00 PER 1,000. 5000 \$9.00. List free. J. Sterling, Judsonia, Ark.

SUDAN GRASS SEED 10C PER POUND. No Johnson grass. Fred Atherton, Waukomis, Okla.

SUDAN SEED AT 6 CTS. IN 100 LB. LOTS. Larger quantities cheaper. W. J. Duncan, Lubbock, Texas.

WARRANTED WHITE BLOSSOM SWEET clover. Hulled \$10 per bu. Sacks included. R. Reynolds, Eskridge, Kan.

PURE WHITE BLOSSOM SWEET CLOVER seed, hulled \$10.00 bushel. Samples free. Chas. F. Redding, Waverly, Kan.

PURE WHITE BLOSSOM SWEET CLOVER seed. Hulled, \$10 per bu., 60 lbs. Sacks 25c. J. N. Thompson, Moran, Kan.

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

WHIPPOORWILL COW PEAS WHILE they last at \$2.50 per bu. F. O. B. Tyro. Good seed but slightly mixed. H. S. Tuttle, Tyro, Kan.

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

TREES AT WHOLESALE PRICES. TRUE to name. Packed with care. Fruit-book free. Wellington Nurseries, Dept. A, Wellington, Kansas.

SUDAN 10C LB. WHITE SWEET CLOVER hulled 25c lb., unhulled 15c lb. Choice dwarf white and red maize, red and dwarf white kaffir, feterita, cane \$3.00 per 100 lbs. All above prepaid. Large quantities short distances less. Write Claycomb Seed Store, Guymon, Okla.

KAFIR AND CANE SEED. WELL MATURED, fine quality, graded. Will all grow. \$2.00 per 100 lbs., sacked, F. O. B. J. C. Lawson, Pawnee, Okla.

PURE WHITE BLOSSOM SWEET CLOVER seed hulled \$9.00 a bushel 60 lbs. Unhulled \$6.00 per bushel 60 lbs. Alfalfa seed, choice, \$11.00 a bushel. F. Anstaett, Lyndon, Kan.

FOR SALE—PURE BLACK HULLED white kafir corn. Made 50 bu. per acre this year. I have 300 bu. Will sell one bu. to 300 at \$1.00 per bu. Will Albin, Saffordville, Kan.

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

SEED CORN \$1.25 BUSHEL IF ORDERED by Feb. 10th. Mammoth White Pearl. Shelled and graded. Germination guaranteed. Buy from producer and save expense. L. S. Whitney, Fairview, Kan.

WINFIELD RASPBERRY—BIGGEST OF all blackcaps. Has no equal for profit. Tested and proven hardly from Minnesota to Texas. A marvel in production. Never fails. Ripe 10 days before others. Catches highest prices. Send for big fruit book, free, with full information. Winfield Nurseries, Box 51, Winfield, Kansas.

## PET STOCK

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

SCOTCH COLLIES. WESTERN HOME Kennels, St. John, Kan.

FOR SALE—2 PET COONS AND ONE coyote. P. O. Box 146, Council Grove, Kan.

GREYHOUNDS—SPECIAL OFFER ON booked orders for spring pups. J. Brass, Lecompton, Kan.

FERRETS. 3000 FERRETS, TRAINED ON rats and rabbits. Booklet for stamp. Augustine's, Whitehall, Wis.

WANTED—NICE WHITE WOOLLY ESQUIMO-Spitz puppies about six weeks old. Brockway Kennels, Baldwin, Kan.

SCOTTISH TERRIERS. GREAT RAT. Watch, pet, stay home little dog. 5c for price list. William Harr, Riverside, Iowa.

## LIVE STOCK

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

HACKNEY STALLION SIX YEARS OLD. W. W. Eddy, Havensville, Kan.

WANTED—A BIG FIRST CLASS JACK, give description. H. Bethell, Hill City, Kan.

BERKSHIRE SOW PIGS, ELIGIBLE TO registry. Ten dollars. Wallace Elliott, Hamilton, Kansas.

FOR SALE—35 HEAD CHOICE STEERS, coming year old, ready for feeding. R. Martin, Rotan, Texas, Box 61.

HIGH GRADE HOLSTEIN CALVES, either sex, 3-4 weeks old. \$17 each, crated. Burr Oak Farm, Whitewater, Wis.

REGISTERED JERSEY BULL CALF. \$25.00. Sire Bulls Fern of Hood Farm. Jas. R. Snyder, Box A, Frazer, Mo.

SHETLAND PONIES. SIXTY HEAD TO choose from. Special prices for Christmas. Charles Clemmons, Coffeyville, Kan.

DOUBLE STANDARD POLLED HEREFORDS for sale. One fine herd bull, also several younger bulls. Wm. C. Mueller, Hanover, Kan., Rt. No. 4.

SPRINGDALE SHORTHORNS FOR SALE. 10 bulls, good ones, including my pure Scotch herd bull Athens Scotchman 356646. A. A. Tennyson, Lamar, Kan.

FOR SALE—DARK GRAY PERCHERON stallion three in May heavy bone, weight 1820 lbs. Will sell worth the money or trade for first class stallion not related to my mares. J. F. Rhodes, Tampa, Kan.

YOU DON'T NEED A SILO WHEN YOU feed our Special Feed. It produces maximum milk yields at great saving in cost. The most economical dairy feed. Write for prices. Fredonia Linseed Oil Works, Fredonia, Kansas.

FOR SALE—AN EXTRA GOOD TWO year old jack. Big boned and good size, the making of a 1000 or 1200 pounder, has 35 inch ear measure, and stands 15 hands standard, black with light points. Act now, for this ad appears but once. Archie Myers, Osborne, Kan.

## LANDS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

CALIFORNIA IMPROVED FARMS FOR sale. Terms. Write E. R. Waite, Shawnee, Okla.

LARGE LIVELY BARN TO TRADE FOR western Kansas land. C. C. Moreland, Eskridge, Kan.

GOOD 228-ACRE FARM ON RIVER, NEAR Olivet. \$60 a. if taken soon. Inquire of M. J. Edman, Osage City, Kan.

20 FARMS. TERMS EASY. ADMINISTRATOR. Save this advertisement. Ask Wm. Godby, 409 E. Douglas, Wichita, Kansas.

FOR SALE—320 ACRES, WELL IMPROVED, three miles to town. Price \$20,000. Oscar Brewer, Route 3, Ellinwood, Kan.

OWNERS LIST EXCHANGES. WANT merchandise, large ranches and income property. Progressive Realty Co., Greeley, Colo.

120 ACRES, CLOUD COUNTY, IMPROVED, \$5000.00. 1315 Lincoln, Topeka, Kan.

FAMOUS JUDITH BASIN LANDS. WE have it, improved and unimproved, any size tract. Hedges Land Co., Lewistown, Mont.

160 ACRES IMPROVED NEAR PHILLIPSburg, Kansas. Price \$7500 for \$5000 stock hardware. Balance terms. Drenning Bros., Salina, Kan.

SELL YOUR PROPERTY QUICKLY FOR cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

FOR SALE—800 ACRE RANCH ON Grouse creek, eastern Cowley county. 320 acre farm in Logan county, Kansas. W. K. Brooks, Burden, Kan.

FOR RENT—FIVE YEARS ¼ SECTION Wallace Co. land, improved. Party enclosing best references with 1st letter makes own terms. Address No. 22, care Mail and Breeze.

FREE 320 ACRE COLORADO HOME—steads almost gone. Last chance for free farms. Fine water. Rich loam soil. Write Day and Night Realty Co., Box 595, Pueblo, Colorado.

FOR SALE OR TRADE—240 ACRES Rooks Co. farm for 20 to 40 acres joining good town. All clear. E. A. Folsom, Webster, Kan.

FOR SALE OR EXCHANGE—GOOD, WELL imp. 140 acres 3 ¼ miles of Lawrence, Kan., also imp. 160 acres in Wallace Co. Address owner, Ben Anderson, Lawrence, Kan., R. No. 1.

FOR SALE—200 ACRES IMPROVED IRRIGATED land Chaves Co., N. Mex. Close to oil wells. No oil lease. Plenty of water. Price \$20,000.00. Will take half trade, cheap ranch land. Write Wm. Ash, Canyon, Tex.

FOR SALE—80 ¼ ACRES OF CUT OVER land adjoining the town of Pajo, La. On the Santa Fe R. R. Price \$1456. \$1000 cash, balance in three equal yearly payments 6% interest. Address Elmer Males, Humboldt, Kan.

FOR SALE—260 ACRE STOCK FARM IN Coffey county, Kansas. Good improvements. 100 acres in cultivation. 25 alfalfa, 90 blue stem meadow, balance pasture. One mile of town, school and church. \$12,000. ½ cash, balance on time at 6%. Write Ivy Allen, owner, Burlington, Kan.

FOR RENT—240 ACRE FRANKLIN COUNTY, Kansas, farm; 2 ¼ miles from railroad station; about 60 miles from Kansas City; good five room house; two large barns; plenty water and fuel; 70 acres prairie hay land; 25 alfalfa; 75 grain; 60 pasture with living water; don't overflow; immediate possession. Mrs. Frank Fyle, R. F. D. No. 3, Osawatimie, Kansas.

## FARMS WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

WANTED TO HEAR FROM OWNER OF good farm for sale. Send description and cash price. R. G. List, Minneapolis, Minn.

WANTED: TO HEAR DIRECT FROM owner of good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

WANTED—TO HEAR FROM OWNER OF good farm or unimproved land for sale. H. L. Downing, 111 Palace Bldg., Minneapolis, Minn.

I HAVE SOME CASH BUYERS FOR SALE-able farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

WANTED—FARMS AND RANCHES! OWNERS send description. We have cash buyers on hand. Don't pay commission. Write Up-to-Date Realty Exchange, La Salle, Illinois.

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, 23 Palace Bldg., Minneapolis, Minn.

## FOR SALE

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

FOR SALE—HEDGE POSTS; CARLOTS. H. W. Porth, Winfield, Kan.

DON'T MILK A STRIPPER. BRING every cow up to her highest possible production and build up strong, healthy, vigorous, paying cows by feeding our Special Feed. Write us for literature and prices. Fredonia Linseed Oil Works, Fredonia, Kansas.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from fine school, fine old shade, park like surroundings, lot 6 1/4 by 205 feet, eight room house, modern in every detail, hardwood finish, four fine mantels and grates, of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses, etc., etc. Fine place for farmer who wants to move to the capital city. Price \$5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E., care Mail and Breeze.

## TOBACCO

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

FOR SALE—40,000 POUNDS BEST LEAF tobacco. Mail stamps for samples. Anton Wavrin, Franklin, Ky.

KENTUCKY BEST NATURAL LEAF TOBACCO, smoking or chewing, parcel post prepaid. 4 lbs. \$1.00. 10 lbs. \$2.00. Rosenblatt, Hawesville, Ky.

## BUSINESS CHANCES

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**HAY: SEVERAL CARLOADS ALFAFA**, buy direct, write for grade and prices. W. A. Grogger, Solomon, Kan., R. No. 2.

**FOR SALE—FEED STORE, FEED MILL**, hydraulic cider press, fine location. Doing good business. Must sell on account of sickness. G. P. Gill, 2612 E. 6th St., Topeka, Kan.

**FOR SALE. A PRIVATE SANITARIUM** established by me 25 years ago. Pays \$150.00 to \$750.00 per month. Thoroughly modern fifty room house with fifty-four acres of fine land one and a half miles from Atchison, Kansas, as, fine water, vineyard, orchards; all kinds of outbuildings; garage; on paved road. Fine business opportunity for someone. I am going to retire. Come and see me or write at once. Price and terms on application. Geo. W. Wells, Atchison, Kansas.

**FREE FOR SIX MONTHS—MY SPECIAL** offer to introduce my magazine "Investing For Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real earning power of money, and shows how anyone, no matter how poor, can acquire riches. Investing For Profit is the only progressive financial journal published. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 425-28 W. Jackson Blvd., Chicago.

## BEES AND HONEY

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**FOR SALE. NEW HONEY. SAMPLE AND** prices on application. Glen C. Voorhees, Tranquillity, Calif.

## FARM MACHINERY

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**FOR SALE—DEMPSTER WELL DRILL** good as new. Price reasonable. E. S. Rhodes, Tampa, Kan.

**FOR SALE OR TRADE—JOHN DEERE 8** bottom engine plow in good condition. Will trade for small tractor and give or take difference. Herman Regier, Moundridge, Kan.

**THE FOLLOWING BRAND NEW MACHINES** at ridiculously low prices: 2 brand new gasoline tractors. Numerous new gas engines from 1½ to 12 H. P. Mounted-saw rig. Power corn shellers, equipped with elevator and cob stackers, (mounted). Feed grinders and mills. Soil packers and cream separator. Address E. A. Smith, 210 Dwight Bldg., Kansas City, Mo.

## TRACTORS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**AVERY TRACTOR. 20-35 FIVE BOTTOM** Avery power lift plow. Also No. 3 Bird-sell huller. Sell separately or together. Good condition. Bargain price. Address T., care Mail and Breeze.

## HELP WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**I CONDUCTED GOVERNMENT EXAMINATIONS.** Can help you secure railway mail or other government positions. Trial examination free. Ozment, 38R, St. Louis.

**U. S. GOVERNMENT WANTS CLERKS.** Men, women, 18 or over. \$75.00 month. List of positions now obtainable free. Write immediately. Franklin Institute, Dept. F 48, Rochester, N. Y.

**WANTED FARMERS—MEN AND WOMEN** everywhere. U. S. government jobs. \$75 month. Short hours. Vacations. Rapid advancement. Steady work. Many appointments coming. Common education sufficient. No pull required. Write immediately for list of positions now obtainable. Franklin Institute, Dept. F 51, Rochester, N. Y.

## MALE HELP WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**GOVERNMENT FARMERS WANTED.** \$60 to \$125 monthly. Free living quarters. Write Ozment, 38R, St. Louis.

**MOLIER BARBER COLLEGE. MEN WANT-** ed. Special fall rates. Write for free catalogue. 514 Main St., Kansas City, Mo.

**SALESMEN WANTED FOR FRUIT AND** ornamental trees. Experience unnecessary. Outfit free. Pay weekly. The Lawrence Nurseries, Lawrence, Kan.

**WE GUARANTEE YOU A GOOD POSITION** paying from \$15 to \$25 per week by taking a course in Stuhl's Institute of Watchmaking and Engraving. 207 Altman Bldg., Kansas City, Mo.

**MOTORMEN-CONDUCTORS: \$80 MONTH-** ly. Interurbans everywhere. Experience unnecessary. Qualify now, state age. Book-let free. Electric Dept., 812 Syndicate Trust, St. Louis, Mo.

**SALESMEN FOR HIGH-CLASS TOBACCO** factory; experience unnecessary. Good pay and promotion for steady workers. Complete instructions sent you. Piedmont Tobacco Co., Box 8-36, Danville, Va.

**FIREMEN AND BRAKEMEN: \$100** monthly. Experience unnecessary. Hundreds needed by the best railroads everywhere. Particulars free. 796 Railway Bureau, East St. Louis, Ill.

## CREAM WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**CREAM WANTED—THE INDEPENDENT** Creamery Company of Council Grove, Kansas, buys direct from the farmer. Write for particulars.

## PATENTS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**PATENTS THAT PAY. \$500,812 CLIENTS** made. Searches, Advice and two books free. E. E. Vrooman & Co., 885 F, Washington, D. C.

**SEND FOR FREE BOOKLET, "ALL** About Patents and Their Cost." Shepherd & Campbell, Patent Attorneys, 500C Victor Bldg., Washington, D. C.

**PATENT WHAT YOU INVENT. IT MAY** be valuable. Write me. No attorney's fee until patent is allowed. Estab. 1882. "Inventor's Guide" free. Franklin H. Hough, 532 Loan & Trust Bldg., Washington, D. C.

**MEN OF IDEAS AND INVENTIVE ABIL-** ity should write for new "List of Needed Inventions." Patent Buyers, and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

**IDEAS WANTED—MANUFACTURERS ARE** writing for patents procured through me. Three books with list hundreds of inventions wanted sent free. I help you market your invention. Advice free. R. B. Owen, 34 Owen Bldg., Washington, D. C.

**WRITE FOR LIST OF PATENT BUYERS** who wish to purchase patents and what to invent with list of inventions wanted. \$1,000,000 in prizes offered for inventions. Send sketch for free opinion as to patentability. Write for our Four Guide Books sent free upon request. Patents advertised free. We assist inventors to sell their inventions. Victor J. Evans & Co., 825 Ninth, Washington, D. C.

## MISCELLANEOUS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4¢ cents a word each insertion. No display type or illustrations admitted.

**EGG CASES 15C EACH. THE COPE,** Topeka.

**WANTED—TO BUY A CAR OF GOOD** hedge posts. Peoples Lumber Co., Athol, Kan.

**MAGAZINES—NEWSPAPERS. ONE-HALF** price and upwards. Catalog free. H. G. Mosher, Schell City, Mo.

**ASSISTANCE GIVEN OWNERS DESIRING** farm loans; state amount desired. 713 Farmers' Exchange, Denver, Colo.

**EXPERIENCED MARRIED MAN DESIRES** position on stock farm with chance for advancement. Adr. Carl Haug, Box 48, R. 1, Seneca, Kan.

**SUCCESSFUL CATTLE FEEDERS NOW** feed our Special Feed because it is a scientific, balanced ration. Can ship promptly car loads or less. Don't fail to write for prices. Fredonia Linseed Oil Works, Fredonia, Kansas.

**LUMBER—WE SHIP TO CONSUMERS AT** wholesale. Send us your itemized bills for estimate. Lowest prices on Bol's D' Arc, cedar and oak posts. Telephone poles and piling. McKee Lumber Co. of Kansas, Emporia, Kansas.

**WANTED. EVERY ONE TO TRY A BOX** of Beate's 'Em All shoe dressing. It softens preserves and absolutely waterproofs shoes with one application if properly applied. Price ten cents postpaid. Beate's 'Em All Mfg. Co., Lebanon, Mo.

**STOP LOSING MONEY. WHEN WHOLE** grain is fed, fully 25 per cent is lost, due to imperfect mastication. This loss is prevented by feeding our Special Feed. It is perfectly balanced. The most economical feed. Write for prices. Fredonia Linseed Oil Works, Fredonia, Kansas.

**BIG BARGAIN FOR SHORT TIME ONLY.** Send only 10 cents and receive the greatest farm and home magazine in the Middle West for six months. Special departments for dairy, poultry and home. Address Valley Farmer, Arthur Capper, publisher, Dept. W. A. 10, Topeka, Kansas.



**Ship Us Your Stock That You Want to Market**

Our twenty years' experience on this market will save you money. Each department is looked after by competent men. Our weekly market letter will be sent free upon request. See that your stock is billed to us.

**Ryan-Robinson Commission Co.**  
421-5 Live Stock Ex., Kansas City, Mo.

**FORD JOKE BOOK 64 PAGES 10C**  
Richard Lavery, Asbury Park, N. J.



**Free Catalog** in colors explains how you can save money on Farm Truck or Road Wagon, also steel or wood wheels to fit any running gear. Send for it today.  
Electric Wheel Co., 30 E. 1st, Quincy, Ill.



**LEARN TELEGRAPHY**  
Students earn board while learning. A practical school with railroad wires. Owned and operated by A. T. & S. F. R. Y. EARN FROM \$55 to \$105 PER MONTH. Write for catalogue.  
Santa Fe Telegraph School, Box 6, 506 Kansas Ave., Topeka, Kan.

## Storm Advanced the Prices

Markets Improved Last Week for Hogs, Cattle, Sheep and Grain  
Largely Because of Unfavorable Weather

**T**HE severe cold weather which swept the Central West last week curtailed the movement of hogs and caused a sharp advance in prices. January 14, most of the hogs sold at \$7 to \$7.35, the high record level of the season. However, the return of moderate temperature increased the movement again and the market turned down, but closed January 15, 20 to 25 cents higher than a week before. Notwithstanding the interrupted movement the five western markets received more than 500,000 hogs last week. Monday's receipts were 148,000, the largest of any day this season, and Saturday 77,000, the largest ever reported at the five western markets on Saturday. The hogs coming here show good weight and quality. The average weight last week was 207 pounds, 4 pounds more than in the preceding week, and 7 pounds more than a year ago. Chicago's average weight is about 15 pounds below normal.

## Demand for Cattle is Better.

The first real activity for several weeks developed in the cattle market last week, and prices ruled higher. However, there was considerable unevenness on the upturn, and the extremes were 10 to 35 cents higher, mostly 15 to 25 cents up. Cold weather had less effect in the movement of cattle than of hogs, and this advance appears to indicate an increasing demand for fat cattle. Moderate advances were quoted in wholesale prices of beef.

The bulk of the cattle coming now are short fed grades that bring \$7.25 to \$7.75, a few at \$7.85 to \$8.50. One carload of choice heavy Kansas steers sold at \$8.75. In Chicago the top price was \$9.80 paid for much better cattle than any received in Kansas City. In Chicago, as here, the bulk of the steers sold under 8 cents.

In butcher cattle trade was active, with prices 10 to 15 cents higher. Killers say supplies of good heifers and yearlings are below requirements. Heifers sold up to \$9. Veal calves were 50 to 75 cents higher, top \$10.50.

Demand for stockers and feeders was active at firm prices. Weather conditions had small effect on buyers. Several shipments were made to Ohio and Pennsylvania.

Lambs sold up to \$10.50, yearlings \$9, wethers \$7.50, ewes \$6.75 and feeding lambs \$9.15, all new high record prices for the local market and 40 to 60 cents above last week. In the two weeks this year prices have advanced \$1.50 to \$1.75. Small receipts and an urgent demand for both mutton and wool are the causes of the advance. The highest previous price, \$10.30, for lambs, was paid in May, 1910. With more than three months in which supplies will have to come up from feed lots, salesmen believe that prices will go still higher. Fat lambs are quoted at \$9.25 to \$10.50, yearlings \$8.50 to \$9, wethers \$7 to \$7.50, ewes \$6.25 to \$6.75 and feeding lambs \$8.75 to \$9.15.

## Livestock Receipts.

	Last week.	Preceding week.	Year ago.
Cattle—			
Kansas City .....	35,050	33,500	35,250
Chicago .....	52,200	47,400	61,300
Five markets .....	142,650	138,625	142,700
Hogs—			
Kansas City .....	70,750	83,150	52,400
Chicago .....	254,000	334,000	215,000
Five markets .....	634,950	651,450	393,900
Sheep—			
Kansas City .....	41,950	36,775	40,000
Chicago .....	88,000	91,000	99,500
Five markets .....	209,550	193,575	227,900

## Wheat Prices Went Up.

Wheat prices reached new high levels of the year last week, owing mainly to the widespread storm and cold wave that checked the movement of grain from the country. The market displayed a good deal of nervousness and after being up 3 to 4¢ cents at one time, closed with 1½ cents net gain in May wheat and 2½ cents in July deliveries.

The storm checked deliveries of wheat by farmers, besides delaying movement of cars already in transit. Receipts at the five important winter and spring wheat markets were 4,869 cars, 40 per cent less than in the preceding week and only 26 per cent more than a year ago. With favorable weather movement it is expected to enlarge somewhat, but receipts more nearly normal for this time of the year are anticipated from now on. Private estimates of reserves indicate a liberal percentage of the crops remaining on farms.

The shadow of Russia's unknown surplus, which has been a worry to exporting countries ever since the war began, owing to the possibility of the allied forces overcoming opposition in the Dardanelles for its release, was removed by official announcement of a complete evacuation of the Gallipoli Peninsula, the center of attack. This means that Russian wheat probably will remain bottled up until the end of the war, excepting moderate quantities that may trickle through northern ports.

Minneapolis stocks of wheat increased 670,000 bushels last week and Duluth stocks increased about a million bushels. Receipts in Chicago exceeded shipments about 400,000 bushels. In Kansas City shipments exceeded receipts, but stocks increased 218,000 bushels, representing larger loading into elevators from cars accumulated on track. Seaboard exports just about equaled receipts at those ports. Prices for wheat at Winnipeg last week were about 3½ cents higher than the preceding week. Receipts there were 1,801

cars, compared with 3,788 cars in the preceding week and 812 cars a year ago.

## Another High Record for Corn.

Corn futures attained new high records for the season last week, owing to buying based on moderate receipts and belief that Europe soon will have to depend on this country for supplies because of the scarcity of vessels to make the long voyage from Argentina. Prices for May delivery rose about 2½ cents and closed with about a cent net gain for the week.

Receipts of corn last week at the three important western markets were only 2,263 cars, 30 per cent less than in the previous week and less than one-half as large as a year ago.

Exports of corn from the United States last week were 456,000 bushels, compared with 1,159,000 bushels a year ago.

Prices for oats are about 2 cents higher than a week ago. Moderate receipts and evidence of export business were strengthening factors.

Hard Wheat—No. 2, nominally \$1.15@1.19; No. 3, nominally \$1.10@1.17; No. 4, \$1@1.10.

Soft Wheat—No. 2, nominally \$1.20@1.25; No. 3, nominally \$1.12@1.23; No. 4, \$1.02.

Corn—No. 2 white, 70¢; No. 3, 69¢; No. 2 yellow, 71¢; No. 3, 70½¢; No. 2 mixed, 70¢; No. 3, 69¢; No. 4, 68¢.

Oats—No. 2 white, nominally 46¢@47¢; No. 3, nominally 45¢@46¢; No. 2 mixed, nominally 41¢@42¢; No. 3, nominally 40¢@41¢.

Kafir—No. 2 white, 99¢; No. 3, 98¢ Rye—No. 2, nominally 90¢@91¢. Barley—No. 4, nominally 61½¢@62¢. Bran—87¢. Shorts—Nominally 99¢@1.38. Seed—A cwt., alfalfa, \$15@18; clover, \$14.50@17; timothy, \$5.50@6.50; cane seed, \$1.05@1.20; 1 car \$1.14; millet, German, \$2.15@2.40; common, \$1.75@2; Siberian, \$1.40@1.60.

## Kansas City Hay Market.

Total receipts of hay this week were 478 cars, compared with 506 cars last week and 554 cars a year ago.

Quotations follow: Prairie, choice, \$9.50 @10; No. 1, \$8@9; No. 2, \$6.50@7.50; No. 3, \$4.50@6. Lowland prairie, \$4@5. Timothy, No. 1, \$11.50@12.50; No. 2, \$8@11; No. 3, \$6@7.50; clover mixed, choice, \$10@11; No. 1, \$8.50@9.50; No. 2, \$6.50@8. Alfalfa, choice, \$15.50@16; No. 1, \$13.50@15; standard, \$10@13; No. 2, \$7.50@9.50; No. 3, \$5.50@7. Straw, \$5@5.50. Packing hay, \$3.50@4.

## Butter, Eggs and Poultry.

Eggs—Extras, new white wood cases included, 31c a dozen; firsts, 29c; seconds, 20c; storage, April, 20c.

Butter—Creamery, extra, 31c a pound; firsts, 29c; seconds, 27c; pound prints, 1c higher; packing stock, 19c.

Live Poultry—Broilers, under 2 pounds, 17c; springs, 16c; young roosters, 12½¢; old, 8½¢; hens, 4 pounds or over, 14c; under, 11½¢; turkey hens and young toms, 18c; old toms, 15c; ducks, 13c; geese, 11½¢.

## Publisher's News Notes

## Complete Fence Information.

The readers of our paper, who are needing farm, poultry or lawn fence, barbed wire, steel fence posts or fence supplies will certainly find it to their advantage to get the catalog of Kieselman Brothers, Box 52, Muncie, Ind. Their catalog contains a lot of reliable fence information and the prices they are quoting should be very attractive. They sell their products direct to the farmer, with no unnecessary selling expenses between their wire mill and your farm. Write them your request on a postal card and they will mail the catalog to you free. Their ad appears elsewhere in this issue.—Advertisement.

## Knowing Your Livestock.

Every man and boy that owns or handles livestock should know everything that it is possible to learn about them, whether they be horses, cattle, sheep or swine. The more one knows of his stock the better he will appreciate them—the better returns he will get from their use and breeding. Too many men and others who own and who are intrusted with livestock suffer many losses by their lack of knowledge, and as there is a book that enables anyone who can read to become a competent judge of all breeds, types and classes of domestic animals none should lose the opportunity of studying it. That book is entitled "Judging Livestock," by John A. Craig. It is used as a textbook in more than 140 colleges in the United States and Canada. Eighteen editions have already been sold. This work not only tells how but shows how, in its 165 halftone engravings, to judge animals by action, form, style, quality, structure, age, and scale. It describes and illustrates every breed of horse, cattle, sheep and swine, method of handling, feeding, examination, and gives the official standard of excellence in each breed and class. The book contains 200 pages printed on fine book paper, elegantly bound in cloth and is sent postpaid to any address for \$2 by Col. J. R. Long, Cedar Rapids, Iowa, who will fill all orders the day they are received.—Advertisement.

## More Livestock to St. Joseph

The St. Joseph livestock market showed a gain in 1915 in receipts; 44,794 cars were received in 1915 and 39,773 in 1914. The receipts in 1915 included 405,852 cattle, 35,619 calves, 1,097,842 hogs, 877,930 sheep and 41,254 horses and mules. The St. Joseph yards now have a capacity of 15,014 sheep, 28,671 hogs, 17,304 cattle and 1,896 horses and mules.

# BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroughly reliable and the many bargains are worthy of your consideration

## Special Notice

All advertising copy discontinuance orders and change of address must be received by the Real Estate Department in this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrolyzed.

160 IMPROVED, 5 miles town. \$6400.00. J. P. Donahue, Mound Valley, Kan.

INTERESTED IN SOUTHERN KANSAS? Write Couch Land Co., Anthony, Kan.

BARGAIN for 30 acres, 320 improved, 5 mi. of town. \$28. Webb & Park, Clements, Kan.

MUST SELL. 80 acres; some fine alfalfa, nicely impr. Youngs Realty Co., Howard, Ks.

160 A. Hamilton Co. raw grass land, \$4.50 a. No trade. Walter & Patton, Syracuse, Kan.

480 A. ALL GRASS. Every acre can be cult. \$12.50 per acre. Box 215, German Colonization Co., Plains, Kansas.

IMPROVED 80 acres, 3 1/2 miles of town, 1/2 mi. to school. Priced to sell. Terms on part. Guy Barnes, Milton, Kansas.

FOR BUSINESS, homes or farms at Baldwin, Kan. seat of Baker University, write D. E. Houston & Co. Some trades.

310 A., 25 a. alfalfa, 130 corn land, bal. pasture. Abundance water; well impr. 1/2 mi. station. \$45 a. J. B. Fields, Alma, Kan.

FOR THE BEST blue stem limestone pasture and alfalfa bottom farms for sale, no trades, write P. D. Stoughton, Madison, Kan.

COFFEY COUNTY, Eastern Kansas. Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Kan.

280 A., 100 broke; extra bottom; 180 pasture, 2 mi. town; extra impr. \$40 a. S. L. Karr Real Estate Co., Council Grove, Ks.

1/2 SEC., 200 cult., 20 alfalfa, bal. pasture, well improved, spring and well. \$18,000. Terms. Hill & Murphy, Holsington, Kan.

SUMNER CO. LAND. 80 a. 6 mi. of Wellington, 1/2 mi. to R.R. town; all alfalfa land, black rich soil; fence only impts. Snap at \$4250. 80 a. 9 mi. Wellington, 2 mi. R.R. town, black, level land, slightly impr. Price \$4500. Best bargains in Kan. Description guaranteed. E. S. Brodie, Wichita, Kan.

640 ACRES, 8 mi Peabody, 8 mi. Burns, Kan. 580 a. under cult., 60 a. prairie, 60 a. alfalfa. 2 sets of good improvements; includes elevator, scales, fine feed lots, everlasting water. Can be handled 1/2 down, bal. time to suit purchaser. A snap; time short, come. Molohan Land Co., Peabody, Kan.

FINE \$5500. 80 a. 3 1/2 mi. out; fine imp. Decker & Booth, Valley Falls, Kan.

FARMS ALL SIZES for sale, \$35.00, up. Wilson & Reasel, Colony, Kansas.

FOR LAND BARGAINS write or call on Towanda Realty Co., Towanda, Kan.

160 A. improved, good upland farm, 4 miles out; \$55.00 a. Easy terms. J. M. Conlan, St. Marys, Kansas.

FOR REAL ESTATE BARGAINS in the great Neosho Valley, see or write S. M. Bell, Americus, Kansas.

IMPROVED FARMS for sale in German Catholic and Lutheran settlement. Write Jake Brown, Olpe, Kansas.

960 ACRE block fine level land, east Stanton Co., shallow water, \$7.00 acre. Bargain. Haines & Conner, Hutchinson, Kan.

WHY RENT, when you can buy 320 acres, well improved, lots of bottom land, fine pasture, timber, water, only \$30 per acre? F. D. Greene, Longton, Kansas.

WELL IMPROVED farms, near town and school; 80 acres, \$50 a.; 150, \$45 per a.; 240 a., \$38 per a.; 640, \$48 an acre. Terms. P. H. Atchison, Waverly, Kan.

WESTERN KANSAS land. Good wheat farms near Bucklin, Ford Co. Easy terms. Stevens and Haskell county land cheap. Good terms. H. J. Spore, Bucklin, Kansas.

FOR SALE. Good 80 acre farm close to railroad and school; 1/2 in cult., bal. grass. Good imp. Price \$40 an acre. Terms. A. A. Murray, Westmoreland, Kan.

160 A., 3 1/2 MI. OUT. IMP. FAIR. 130 cult., 30 grass, good water, fenced. Second bottom. \$10,500. Mtg. \$4,000, 6%. Ed A. Davis, Minneapolis, Kan.

160 A. Bourbon County. 2 miles to town, dark limestone soil, no stone; 80 acres cultivated, 40 meadow, 40 bluegrass; well improved, good water. \$60 an acre. Chennault Bros., Fort Scott, Kan.

160 A. 2 mi. from R. R. town; 80 a. corn, 10 a. alfalfa, 15 a. hog pasture, bal. pasture and meadow; 6 room house, good barn; well and cistern. Very cheap, if sold soon. \$45.00 per acre. Rosenquist & Renstrom, Osage City, Kan.

SELL LAND AND LOTS AT AUCTION. It is the surest, quickest, most successful method, proven by hundreds of auction sales this season. For terms, etc., write LAKE BURGER, LAND AUCTIONEER, Wellington, Kan.

A REAL BARGAIN. 273 a. good smooth land, 100 a. bottom, 2 sets improvements; good 8 room house, big barn, 10 a. bearing orchard; 4 1/2 miles to good R. R. town. Part cash, bal time; easy terms. Worth \$60, price \$45. Salter Realty Co., Wichita, Kan.

NORTHEAST KAN. Good improved farms in bluegrass section, \$60 to \$100. Send for list. N. Compton, Valley Falls, Kan.

Only \$1,000 Down 160 a., 90 a. in and pasture, all good tillable land except 10 a. broken. 4 1/2 mi. of R. R. town. 75 miles from Wichita. Only \$45 per a., \$1000 down and \$500 per year at 6%. A. Edminster, Wichita, Kan.

Ness County 160 acres 3 1/2 miles from town; 120 acres cult., bal. meadow pasture. Stone house 30x30, frame barn and two small granaries, two stone chicken houses and other imps. Mail, phone, one mi. school. Price \$4,000. No trade. Terms on 1/2. Ask for list. V. E. West, Ransom, Kan.

SACRIFICE SALE Small improved farm, one mile of town, has sold for \$60. Will cut price to \$50, for short time. Carry two-thirds at 6%. Write Glenn Riley, Waverly, Kansas.

2-Rare Bargains-2 Choice level 160 a. farm, \$4 a. cash. Also well imp. alfalfa farm 168 a. Perfect title. Immediate possession. \$50 a. Terms. Western Real Estate Exchange Co., Syracuse, Ka.

Death Cause of Sale 190 a. 9 mi. Topeka, some creek bottom, 100 a. cult., 5 r. house, wells, living water, orchard, alfalfa, timber. Must sell to settle estate. \$55 per acre. Stephenson & Webb, Topeka, Kan.

Graham County Grecian's Real Estate Bulletin No. 2 now ready. Farm views, crop statistics, land prices and other valuable information for men who want to make more money farming. Frank Grecian, Hill City, Kan.

WE OWN 100 FARMS IN FERTILE Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water; will sell \$0 acres or more. Frikell & Ely, Larned, Kan.

80 Acres Only \$500 Only 7 mi. Wichita. Virgin black loam soil. New 5-room cottage, new barn, etc. \$5000; \$500 cash, \$500 Mch. 1st, \$500 yearly. R. M. Mills, Schweiter Bldg., Wichita, Kan.

FOR SALE CHEAP 120 acre farm, 1 1/2 miles from town, large barn and house, double corn crib, alfalfa farm, plenty of water. Orchard R. F. D. and telephone. Price \$3400.00, \$1000.00 cash down, balance your own time at 5 1/2 interest. The man with a thousand can get a bargain. No trades considered. Write J. H. Lee, Harveyville, Kan.

Eastern Kansas Stock Ranch \$24.00 Per Acre, Terms. 960 acres, all good grass land except 160 acres good valley land in cultivation, never-failing water, good alfalfa land, good improvements, close to school, four miles town. Write now for description and terms. Eastern Kansas Land Co., Quenemo, Kan.

Read This Ad-You May Find What You Want By writing to J. C. Hopper, Ness City, Kan., you will get in touch with some valuable ranches from 1000 to 5000 acres each at low prices; also two, three and four year old feeding steers; two to three hundred head of young mules, ranging in age from two to four years; some first class stallions and jacks; good gelding farm teams, registered polled and horned Hereford males, ready for service. Some good wheat farms. These things belong to customers of the CITIZEN'S NATIONAL BANK and I desire to help them and you. No trades, and no trouble to correspond with anyone meaning business.

FOR SALE OR EXCHANGE LAND and mdse for sale or exchange. Co-operative Realty Co., Humansville, Mo.

TRADES EVERYWHERE. Exchange book free. Bersie Agency, El Dorado, Kan.

LANDS for sale and exchange for western lands. John Goff, Willow Springs, Mo.

E. KANSAS farms in Catholic settlements. Exc. Frank Kratzberg, Jr., Greeley, Kan.

BEST exchange book in U. S. 1,000 honest trades. Graham Bros., Eldorado, Kan.

BIGHAM & OCHILTREE sell and trade best corn, alfalfa, wheat land in U. S. Write for list. 116 N. 8th, St. Joseph, Mo.

FOR SALE OR TRADE. 80 a. in eastern Okla. Price \$15 per a. clear. Will take in good auto. W. H. Drinkern, Beloit, Kan.

TO EXCHANGE QUICK for mdse. General stock preferred. 720 a. of all smooth, unimproved land located in Lane Co., Kan. No better soil in the state. Approximate value \$21 per a. I have all kinds of wheat and alfalfa land for sale. Address C. F. Edwards, Ness City, Kansas.

BUSINESS PROPOSITIONS OF MERIT. We buy, sell and trade farms, city property, stocks and bonds, second-hand autos, etc. We know values in Kansas. Have lived in Wichita the last ten years and perhaps sold more securities than any other man in Wichita. We invite investigation of our business dealings. Property listed only on cash basis. Special list issued: New brick, 14 apartment flat; best in Kansas to trade for unimproved Barber, Butler, Harvey, Chase or Lyon county land. J. A. HOPKINS, 110 E. 1ST ST., WICHITA, KANSAS.

## CHASE COUNTY STOCK RANCH

640 acres 2 miles from shipping point. 100 acres best creek bottom, 75 acres alfalfa, timber, creek. 540 acres best bluestem pasture, running water, splendid improvements. No overflow, no gumbo, best combination in the county. Price \$25,000.00, liberal terms. J. E. Beacock & Son, Cottonwood Falls, Kansas.

## Live Wire Land Bargains

1740 a. in Gove Co., Kan., good improvements, 250 a. cult., 120 a. wheat, balance grass, \$10 per a. for 60 days. 640 a. in Lane Co., Kan., 200 cult. in wheat, bal. pasture, will exchange. 360 a. 3 1/2 mi. to Palsades, Colo., all irrigated, 100 a. alfalfa, also 6 1/2 a. in fruit, 4 blocks from P. O. Palsades, will exchange for Kan. land. 160 a. near Lawton, Okla., well improved, will exchange for Kan. land. 79 a. Necedah, Wisconsin, improved, will exchange for wheat land. Live Wire Realty Co., Wichita, Kansas.

## LANE CO.

If you want to buy a farm or ranch, in the coming wheat, corn and stock county of the West, write me as we have bargains from \$8.00 to \$25 per acre. Both improved and unimproved. Let me know what size farm you want and how much you want to pay on the same. W. V. Young, Dighton, Kansas.

## WHY PAY RENT?

80 a. 3 1/2 mi. R. R. town; all good land; 15 a. blue grass pasture, 15 a. clover, good 7 r. house; barn 32x32; plenty fruit; good water; close to school. Price \$67.50 per a. \$1500 cash, bal. 5 years 6%. Casida & Clark, Ottawa, Kan.

## SPECIAL BARGAINS

320 acres one mile town, splendid 8 room house, large barn, splendid conveniences, main traveled road, 100 acres pasture, remainder cultivation, splendid water. 120 acres 3 1/2 miles Ottawa, good improvements, 40 acres bluegrass pasture, 25 acres wheat, remainder of land for cultivation, fair orchard, beautiful yard, close to school. Write for full description of these and other farm bargains. Write today. MANSFIELD LAND COMPANY, Ottawa, Kansas.

## Ness County Lands

Good wheat and alfalfa lands at \$15 to \$25 per acre. Fine crops of all kinds in 1914 and better crops in 1915. No better soil in Kansas. Land in adjoining counties on the east \$40 to \$75 per acre. Buy here while land is cheap. Write for price list, county map and literature. No trades. Floyd & Floyd, Ness City, Kansas.

## WYOMING

320 ACRE HOMESTEADS. Will locate for \$100. A. P. Knight, Jireh, Wyoming.

## OKLAHOMA

OKLA. LANDS. 40 to 500 a. tracts. Write for list. Roberts Realty Co., Nowata, Okla.

350 ACRES, 200 cult., 150 rough timber pasture, imp. Joins station. Good water. \$27.50 a. C. M. Smith, Crowder, Okla.

EASTERN OKLAHOMA land as good as the best, limestone soil, corn, oats, wheat, timothy, blue grass and alfalfa land. Selling cheap. Smalley & Stout, Afton, Okla.

400 ACRES, good land; 8 houses. \$35 per a. Good terms. Other lands. Charles Whitaker, Eufaula, Okla.

320 A., 200 TILLABLE. 100 A. CULT. Bal. pasture. Close city this county. \$13 per a. Terms. Southern Realty Co., McAlester, Okla.

160 A. 2 1/2 miles from town. 75 plowed; good soil; bearing orchard; 8 r. house, all kinds of outbuildings. Fine well, R. F. D. and phone. Price only \$3200. Terms on \$1,200. Free list and map. Perry DeFord, Oakwood, Okla.

500 A. WASHITA VALLEY FARM. 1 mi. from railroad town; finely improved; fenced hog tight; 130 a. alfalfa, choice corn and alfalfa land; no better in Oklahoma. \$70 per a., 1/2 cash, bal. time. Write for list of Oklahoma bargains. Major Bros., Chickasha, Okla.

Oklahoma Land For Sale Good land in Northeastern Oklahoma; price from \$20.00 to \$35.00 per acre. Write for price list and literature. W. C. Wood, Nowata, Okla.

Dewey, Washington Co., Okla. Located in a splendid oil, gas and agricultural country. Has two steam railroads, one electric interurban, water works, sewer system, electric lights, natural gas, paved streets, free mail delivery, manufacturing plants, two National banks, splendid schools, the best county fair in the state and three thousand live energetic citizens. Want more folks like those already here. For information, write Joe A. Bartles, Dewey, Okla.

## Public Auction Sale Of Oklahoma State and School Lands

Beginning February 21st, 1916, the Commissioners of the Land Office of the State of Oklahoma, will sell at the highest bid on forty (40) years' time at five (5) percent per cent, approximately 177,425 acres of its public lands in tracts of 160 acres, according to the Government Survey thereof.

Said lands are situated in Jefferson, Stephens, Grady, Caddo, Comanche, Kiowa, Washita and Custer Counties and will be offered for sale in respective County Seats of said Counties at the door of the County Court House thereof where County Court is held, as follows:

Waurika, (Jefferson County), Feb. 21, 1916, at 9 a. m. Duncan, (Stephens County), Feb. 21, 1916, at 2 p. m. Chickasha, (Grady County), Feb. 22, 1916. Anadarko, (Caddo County), Feb. 23, 24, 25, 1916. Lawton, (Comanche County), Feb. 28, 29, Mch. 1, 1916. Hobart, (Kiowa County), March 6, 7, 8, 9, 1916. Cordell, (Washita County), March 10, 11, 1916. Arapaho, (Custer County), March 13, 14, 1916.

For further information, address: G. A. SMITH, Secretary Oklahoma City, Oklahoma

## MISSOURI

STOP! LISTEN! 40 a. impr. farm \$550. Other farms. McGrath, Mountain View, Mo.

BARGAINS in high class farm near Kansas City. Some Exc. L.W. Kircher, Cleveland, Mo.

MISSOURI State Fair Blue Ribbon County-POLK; the place to buy a farm. Polk County Land Inv. Co., Bolivar, Mo.

100 ACRES, improved, near town, \$1500. 40 acres 1 1/2 miles out, improved, \$650.00. W. A. Morris, Mountain View, Mo.

SOUTH MISSOURI farms. Mild climate, pure water, rich soil, reasonable prices, good terms. Frank M. Hamel, Marshfield, Mo.

POOR MAN'S CHANCE-\$5 down, \$5 monthly, buys 40 acres good land, near R. R. town; some timber; price \$200, \$10 monthly buys 80 a. Write for list Box 425-0, Carthage, Mo.

160 ACRES, 1 mi. of good R. R. town near Cape Girardeau; well improved. Produces 75 bu. corn, 5 cuttings alfalfa. Best land in U. S. Climate excellent; health good. \$50 per a. Warren L. Mabrey, Jackson, Mo.

SOUTHEAST MISSOURI LANDS-If you want to become independent, buy lands in Southeast Missouri, in the rich drained lands that raise anything and raise it certain. All I ask is a chance to "SHOW YOU." Prices are very reasonable. No trades considered. Write for literature and information. F. S. Elco, Oran, Missouri.

## TEXAS

BARGAINS IN FARMS and ranches, improved and unimproved. Midland, Upton and Glasscock counties; 70,000 acres for sale right. Henry M. Half, Owner, Midland, Tex.

## ARKANSAS

**WRITE** Dowell Land Company for bargains in Arkansas lands. Walnut Ridge, Ark.

**FREE** literature about S.W. Arkansas farms. Write today. L. E. Smith, Lockesburg, Ark.

**WRITE FOR OUR BOOKLET** "Bearden, the Eden of Arkansas." No rocks, hills, swamps, or overflows. Very healthy climate. Good lands. J. A. McLeod, Bearden, Ark.

**160 A.** black sandy loam, 1/2 in cultivation. Grow corn, wheat, oats, alfalfa, cotton. 140 acre. Pike and railroad. Polk Real Estate Co., Little Rock, Ark.

**WRITE FOR FREE "WARRANTY DEED"** of farm bargains, improved, \$4.00 per acre and up. New Home Land Co., Opposite Union Station, Little Rock, Ark.

**200 ACRES**, 120 cultivated; 50 bottom land; good house and other buildings; 1/2 mi. to school, church and postoffice; 5 miles railroad. Free list. Price \$3,000.00. W. J. Copp, Calico Rock, Ark.

**GOOD FRUIT FARMS** on reasonable terms; dairy and stock farms. Good grazing land at \$5 per a. and up. A few good properties to exchange for income and farms. Call on or write M. C. Stevens, Rogers, Ark.

**180 ACRES**; 160 cult. 5 room res. 4 room tenant house; very rich loam. 6 miles of Jonesboro; rock road, R.F.D., phone. One of the best farms in Arkansas for the money. Price \$40.00 per acre. Terms. Southern Land & Loan Co., Jonesboro, Ark.

**BIG CREEK VALLEY LAND**, sure crops corn, oats, wheat, clover, alfalfa. \$10 to \$50 per acre. No swamps, rocks, mountains, alkali or hard pan. Fine climate, water, schools, churches, neighbors and markets. Northern settlement, 15,000 acres already sold to satisfied homeseekers. Car fare refunded, if not as represented. Cash or long time, easier than paying rent. Write for free map and booklet. Tom Blodgett, Little Rock, Arkansas.

## COLORADO

**FOR SALE:** Fruit tracts and irrigated farms in Northern Colorado. Write me what you want. A. H. Goddard, Loveland, Colorado.

**320 Acre Homestead Relinquishments.** We have a few of the best 320 acre relinquishments in the three best counties of Colorado. Finest climate, soil, water, crops, and schools. Write now. Cline & Catron, Brandon, Colo.

**LAND FOR SALE.** If some of you fellows that are looking for land don't come out here pretty soon and get some of the \$10 and \$15 Russian thistle land, I am going to quit telling you about it. I have herded sheep for a living and can do it again. Harry Maher, Deer Trail, Mo.

## LAND SNAP NEAR DENVER

Executor of estate will sell all or any part of 5500 acres, splendid land, 12 miles from Denver in rainbelt. Near railroad and shipping point. Gently rolling, ideal soil. Only \$8.50 per acre. Reasonable terms. T. H. Williams, Ideal Bldg., Denver, Colo.

## Wheat Farms in the Rain Belt

We can sell you good improved and unimproved farms in Elbert County, Colo., from \$12.50 to \$25.00 per acre; close to town and railroad. Good community. These lands are producing as high as 38 bushels of wheat and 74 bushels of oats per acre. Corn will make from ten to forty bushels. Some farmers this year are getting as high as \$90.00 per acre for potatoes. The low lands will produce between four and five tons of alfalfa per acre without irrigation. Our terms are four hundred dollars down, four hundred dollars at the end of two years and the balance to suit purchaser. Investigate this, buy while land is cheap. Plenty of soft water can be obtained. Join the rush to Simla, Elbert County, Colorado. Lands advancing rapidly. Live agents wanted. Address H. P. Vories, 35 Opera House Bldg., Pueblo, Colo.

## FLORIDA

**FREE TRIP TO FLORIDA FEB. 1ST** to visit our fine combination lands. If you buy 40 acres of our land we refund your round trip railroad fare. Our lands are located below frost danger zone and will grow 3 and 4 crops each year. New Home Realty Co., 1110 Commerce Bldg., Kansas City, Mo.

**WE OWN** 12,000 acres choice citrus fruit, natal hay, trucking and farming land in the beautiful highlands district of Orange County, Fla., close to R.R., well improved district, we are wholesaling and retailing at rock bottom prices. Might exchange for good central West farms on a cash basis. Write O. P. Kroh, Searritt Bldg., Kansas City, Mo.

## FLORIDA LANDS

Wild and improved, from 40 acres to 100,000 acres. Colonization tracts and grazing lands a specialty. Refer to any bank here. Arthur T. Williams, Jacksonville, Fla.

## WISCONSIN

**30,000 ACRES** cut-over lands; good soil; plenty rain; prices right and easy terms to settlers. Write us. Brown Brothers Lumber Co., Rhinelander, Wis.

## FARM LOANS

**FARM AND CITY MORTGAGES** a specialty. Write us if you wish to borrow. Perkins & Co., Lawrence, Kan.

**FARM LOANS**, Missouri, Kansas, Oklahoma and Arkansas, low rates, liberal privileges, most favorable terms. No delay. You get all you borrow. The Dering Investment Co., Oswego, Kan. Branch offices: Wichita, Kan.; Oklahoma City, Muskogee, Durant, Okla.; Little Rock, Ark.

## WHAT BREEDERS ARE DOING

**FRANK HOWARD,**  
Manager Livestock Department.

## FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 114 So. Water St., Wichita, Kan.  
John W. Johnson, N. Kansas, S. Neb. and Ia. 820 Lincoln St., Topeka, Kan.  
Jesse R. Johnson, Nebraska and Iowa. 1937 South 16th St., Lincoln, Neb.  
C. H. Hay, S. E. Kan. and Missouri. 4204 Windsor Ave., Kansas City, Mo.

## 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.

## Jacks and Jennets.

Feb. 3—A. E. Limerick & Son, Columbia, Mo.  
March 7 and 8—L. M. Moneses & Sons, Smithton, Mo.  
March 15—Bradley Bros., Warrensburg, Mo.  
Mar. 26—G. C. Roan, La Plata, Mo.

## Percheron Horses.

Feb. 24—C. B. Warkentin and others, Newton, Kan. Sale at Hutchinson State Fair grounds.

## Percherons and Other Draft Breeds.

Jan. 25, 26, 27, 28—Breder's Sale Co., Bloomington, Ill.; C. W. Hurt, Mgr., Arrowsmith, Ill.  
Jan. 28—North & Robinson, Grand Island, Neb.  
Feb. 23, 24, 25—Nebraska Purebred Horse Breeders' association sale, Grand Island, Neb. C. F. Way, First National Bank Bldg., Lincoln, Neb., secretary.  
Feb. 28—P. J. McCulley & Son, Princeton, Mo.

## Combination Breeders' Sale.

Jan. 25 to 28—F. S. Kirk, Mgr., Enid, Okla.  
Feb. 14 to 19—F. S. Kirk, Mgr., Wichita, Kan.

## Shorthorn Cattle.

Jan. 24—G. H. Hasebrook & Son, Neodesha, Kan.  
Feb. 5—Frank Uhlir, Falls City, Neb.  
March 22—Ruben Harshbarger & Son, Humboldt, Neb.  
March 23—Ben Lyne, Oak Hill, Kan. Sale at Abilene, Kan.  
Mar. 31—H. C. McKelvie, Mgr., Lincoln, Neb. Sale at So. Omaha, Neb.  
Hereford Cattle.

March 4—Carl Behrent, Oronoque, Kan. Sale at Norton, Kan.  
March 6—Kansas Hereford Breeders, Manhattan, Kan. Prof. W. A. Cochel, Mgr.

## Holstein Cattle.

Jan. 27—E. S. Engle & Sons, Abilene, Kan.  
Jan. 28—Independent Creamery Company, Council Grove, Kan.  
Feb. 2—Dr. R. H. Graham, Clay Center, Kan.  
Feb. 24—D. S. Engle & Sons, Abilene, Kan.

## Polled Durham Cattle

Feb. 11—T. M. Willson, Lebanon, Kan.

## Poland China Hogs.

Jan. 25—A. J. Swingle, Leonardville, Kan.  
Jan. 25—W. J. Croft, Webb, Ia.  
Jan. 26—J. L. Griffiths, Bliley, Kan.  
Jan. 31—S. Nelson & Sons, Malcolm, Neb.  
Feb. 1—Thos. F. Miller, York, Neb.  
Feb. 1—W. Z. Baker, Rich Hill, Mo.  
Feb. 2—Fraser Bros., Waco, Neb.  
Feb. 3—H. J. Beall and Wisel Bros., Roca, Neb.  
Feb. 4—J. A. Godman, Devon, Kan.  
Feb. 5—Fred B. Caldwell, Howard, Kan.  
Feb. 9—Henry Fessenmeyer, Clarinda, Ia.  
Feb. 9—C. A. Lewis, Beatrice, Neb.  
Feb. 10—Wm. McCurdy, Tobias, Neb.  
Feb. 11—T. M. Willson, Lebanon, Kan.  
Feb. 11—W. E. Willey Steele City, Neb.  
Feb. 12—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.  
Feb. 14—J. G. Burt, Solomon, Kan.  
Feb. 15—K. S. A. C., Manhattan, Kan.  
Feb. 17—H. C. Graner, Lancaster, Kan.  
Feb. 18—H. E. Walker, Effingham, Kan.  
Feb. 18—J. H. Hartner, Westmoreland, Kan.  
Feb. 26—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan.  
Feb. 29—E. M. Wayde, Burlington, Kan.  
March 1—Clarence Dean, Weston, Mo. Sale at Dearborn, Mo.  
March 4—Carl Behrent, Oronoque, Kan. Sale at Norton, Kan.  
March 1—W. V. Hoppe & Son, Stella, Neb.  
Mar. 8—John Kemmerer, Mankato, Kan.  
March 23—Ben Lyne, Oak Hill, Kan., Abilene, Kan.

## Duroc-Jersey Hogs.

Jan. 24—Geo. Briggs & Sons, Clay Center, Neb.  
Feb. 2—Martin Kelly, Verdon, Neb.  
Feb. 2—Albrecht & Son, Smith Center, Kan.  
Feb. 5—J. H. Proett & Son, Alexandria, Neb.  
Feb. 7—Howell Brothers, Herkimer, Kan.  
Feb. 15—K. S. A. C., Manhattan, Kan.  
Mar. 10—W. C. Whitney, Agra, Kan.

## S. W. Kansas and W. Oklahoma

## BY A. B. HUNTER.

## Big German Coach Stallions.

If you want to know about the German Coach horse and how well he is adapted to the general purposes of the farm and farm work, just turn to the large display ad of J. C. Bergner & Sons, Pratt, Kan. The picture in the ad shows four of their big, growthy, young stallions which they want to sell. When you see these stallions you will probably be surprised at their size. They are handsome fellows and they are pricing them away down for quick sale.—Advertisement.

## Scotch Shorthorn Sale.

G. H. Hasebrook & Son, Neodesha, Kan., will sell at auction Monday, January 24, 54 registered Shorthorns. The writer has visited the herd and took note of the offering which consists of eight spring and winter bulls and the splendid head of their herd, Sultan's Victor. He is a bull that should go to a real Shorthorn breeder. Included will be 46 females, 12 heifers and 34 cows, either by or bred to Sultan's Victor. Few offerings this winter will afford such an opportunity to buy Scotch and Scotch topped breeding stock of equal size

and quality. Do not fail to send at once for a catalog which gives full particulars. Please mention Farmers Mail and Breeze.—Advertisement.

## Lant Brothers' Duroc-Jerseys.

One of the best bred herds of Duroc-Jerseys in Kansas is owned by Lant Brothers of Dennis, Kan. They are always on the lookout for the best in Duroc-Jersey breeding. The latest addition to their herd is the young boar Crimson Orion King, by Orion Cherry King, an Ohio grand champion. This young hog gives promise of developing into a boar of good size and show yard quality. He comes from a line of breeding that has produced many ribbon winners at eastern fairs and at the International. Glits bred to Crimson Orion King and sired by Golden Model Again of the famous Iowa prize winners would give purchasers a new cross of the highest line of breeding. Look up Lant Brothers' card ad in this issue and write them, mentioning Farmers Mail and Breeze.—Advertisement.

## N. Kansas and S. Nebraska

## BY JOHN W. JOHNSON.

John Coleman of Denison, Kan., breeder of strictly big boned, big type Poland Chinas, has for sale three bred glits that are good enough to ship to any herd. He also has about 20 head of choice fall pigs. He will make special prices on any of these hogs. If interested write him and mention Farmers Mail and Breeze.—Advertisement.

J. G. Burt, Solomon, Kan., will sell Poland China bred sows February 14. His offering is made up of tried sows and fall glits largely and is one of the good offerings of the winter. You can write him any time about this sale. It is in the day before the Poland China and Duroc-Jersey sale at the college and both sales can be attended very conveniently.—Advertisement.

F. B. Wempe of Frankfort, Kan., is offering a few choice bred Hampshire glits, weanling pigs and Buff Leghorn cockerels. Mr. Wempe has one of the best herds of Hampshires in Kansas and his customers are pleased with the hogs he ships them. He has sold all his boars and only has a few of his bred glits left. Write for further particulars.—Advertisement.

On January 27, E. S. Engle & Son, Abilene, Kan., will sell a draft of Holstein cows and heifers, some milking now and others to freshen soon. They are all tuberculin tested and are yearling and 2-year-old heifers and bred to a registered bull of merit. Abilene sale will be held at the farm close to Abilene on the above date. For further particulars address E. S. Engle & Son, Abilene, Kan.—Advertisement.

At the dairy farm of the Independent Creamery Company, Council Grove, Kan., January 28, F. W. Edmunds will sell 40 Holstein cows. Also a choice herd bull, registered, and a good yearling bull, also registered. All of the cows will calve during the early spring and some of them in February. This offering of Holstein cows is one of the good ones to be made in Kansas this season. These cattle were bought as young stock and developed here in Kansas. For further information address F. W. Edmunds, Council Grove, Kan.—Advertisement.

## Holstein Cattle Sale.

D. S. Engle & Sons, Abilene, Kan., have claimed February 24 as the date of their dispersion sale of Holstein cattle. They will also sell on that date 25 high grade and exceptionally choice yearling Angus steers. They are by a registered bull and out of high grade cows. The Holsteins are grade cows and heifers and bred to a registered bull. The sale is a general closing out sale including work horses, farm machinery, etc. It will be advertised in the Farmers Mail and Breeze. This sale should not be confounded with the D. S. Engle sale which is held at Abilene on January 27.—Advertisement.

## Percheron Dispersion Sale.

H. J. Urish of Scranton, Kan., will disperse his herd of Percherons and Belgians on Tuesday, February 8. Mr. Urish is one of the oldest Percheron breeders in Osage county. He has been in the business 35 years and has always bought the best stallions he could get to head his herd. Some of the horses and mares in this sale are imported; have been prize winners both in the old country and this. Don't miss the sale as he has a strong line of breeding to offer. Write H. J. Urish, Scranton, Kan., or Col. M. C. Pollard, Carbondale, Kan., for catalog.—Advertisement.

## Jack and Percheron Bargains.

Lewis Cox of Concordia, Kan., is offering at bargain prices six jacks and two Percherons. One of the Percheron stallions is Prince of the Valley, an 8-year-old prize winner and one of the best sires and money-makers in Kansas. He has lots of good colts around Concordia to show what he can do in the way of a producer. The other Percheron is imported Navareux. One of the jacks is Champ Clark, a 5-year-old, 15 1/2 hands high and weighs 1,000 pounds. He is a half brother to John L., champion jack at Topeka fair last fall. He is an extra good mule getter. All of these animals are first class in every particular and will be priced worth the money. If interested write Mr. Cox and mention Farmers Mail and Breeze.—Advertisement.

## Griffiths' Poland Sow Sale.

Next Wednesday, January 26, the day following the A. J. Swingle Poland China bred sow sale at Leonardville, is the date of the J. L. Griffiths' sale of Poland China bred sows. The sale will be held at his farm about 6 miles from Leonardville. All those attending the Swingle sale will be entertained free of charge at the Swingle hotel in Leonardville and taken out to Mr. Griffiths' farm the morning of his sale. Those coming to Riley will find free hotel accommodations there and free transportation to either sale. But come to Leonardville via Manhattan and Garrison in the morning or Clay Center. Good connections made both ways. Mr. Griffiths is selling 40 head. Because of his big demand among farmers in his vicinity he has decided to sell a number of his bred sows and buy new blood in coming sales this winter. Nine tried sows go in the sale. They are bred to King of Kansas and Long Jumbo Jr. The 17 fall glits

## LOUISIANA

**800 ACRES ORANGE AND RICE LAND** with improvements. Canal and pumping plant, close to railroad and brick paved model road. Will grow corn, cotton or any kind of garden produce. Best bargain in the state. Price \$25 per acre; 1/4 cash 6%. Come and see it. J. D. Pace Real Estate Co., Lake Charles, La.

## NEBRASKA

**FINE LITTLE RANCH**—480 a., 200 fine cult., bal. fine pasture, well fenced; ample bldgs., good condition. Station 6 mi. McCook, Neb. (Pop. 4,000). 11 mi. good roads. School 1 1/2 mi.; phone and R.F.D. Best small ranch in county. \$25 per a., 1/4 cash, bal. any time desired, 5%. No trades. Write. R. A. Simpson, Owner, Blue Hill, Neb.

## IDAHO

**"GO WEST, YOUNG MAN,"—GRIELEY.** And when you do, go to Pocatello, Idaho. Second city in the state and buy some of that cheap irrigated land at \$40 to \$75 an acre. Raise alfalfa, beets or grain. Write to J. M. Bistline, Pocatello, Idaho.

## SPRING PLOWING BEGINS IN 40 DAYS

40 acres rich soil—sure crops—close to market—hay, grain and stock farms \$20 up; orchards, \$250 up. Write us today. H. W. Arnold & Co., Boise, Idaho.

## LIVESTOCK AUCTIONEERS.

**Rule Bros., H. T. & R. D., Ottawa, Kan.** Livestock sales a specialty. Write for dates.

**Jas. T. McCulloch, Clay Center, Kan.** References I am selling for every year. Write for open dates.

**R. L. Harriman, Bunceton, Mo.** Selling all kinds of pure bred livestock. Address as above.

**Spencer Young, Osborne, Kan.** Livestock Auctioneer. Write for dates.

**WILL MYERS, BELOIT, KAN.** LIVESTOCK Reference, breeders of North Central Kan. Address as above.

## Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages.

## Missouri Auction School

Largest in the World. W. B. Carpenter, Pres. 818 Walnut St., Kansas City, Mo.

**Col. E. Walters** Skedee Oklahoma  
**W.B. Carpenter** 818 Walnut St. Kansas City, Mo.

Sell your farms and city property at auction, as well as your pedigreed livestock. Write either for dates. Also instructors in

## Missouri Auction School

## POLAND CHINAS.

## Original Big Spotted Polands!!

85 Fall pigs, both sexes, pairs and trios not related. April and May boars and glits. Write at once. ALFRED CARLSON, CLEBURNE, KANSAS

## BIG TYPE POLAND CHINAS

Big March and April boars priced to move. Glits bred to your order, to a great son of King of Wonders. Fall pigs, the best I ever bred. Write me. ANDREW KOSAR, DELPHOS, KANSAS

## FAIRVIEW POLAND CHINAS

For sale: Several heavy-boned fall and spring boars. Also choice spring and fall yearling glits, bred for March and April litters. Bargains. Write us. F. L. WARE & SON, PAOLA, KANSAS

## Large Type Polands

Spring boars, by the great boar, Logan Price, and others of note. Over 50 prizes won this year at leading fairs. All immune. Satisfaction guaranteed. Write today. OLIVIER & SONS, DANVILLE, KANSAS

## Big Type Poland China Boars

I am offering big, stretchy spring boar pigs at reasonable prices. Some of the best blood in Mo. Come and see them or write R. F. HOCKADAY, PECULIAR, MISSOURI

## Original Big Spotted Polands

20 March boars—20 March glits. Tops of 100 head. 15 fall glits bred or open. The big litter kind. Address R. H. McCUNE, Longford, (Clay Co.) Kan.

## Private Sale

Spring Glits—Bred or Open, at Farmer's Prices. September Pigs—Pairs and trios not related. I guarantee everything I sell. John Coleman, Denison, Ks. (Jackson County.)

## Big Type Polands

Herd headed by the 1,625-pound Big Hadley Jr., grand champion at Hutchinson State Fair, 1915, was also first in class at Topeka and Oklahoma State Fairs. Our herd won more first prizes in the open classes at Oklahoma State Fair than any other Poland China herd. Young stock for sale. A. J. Erhart & Sons, Ness City, Kan.

## POLAND CHINAS.

**25 BOARS IMMUNE POLANDS** Will Ship on Approval. 30 Gilts. Customers in 10 states like my hogs, so will you. Prices right. **G. A. WEIBE, BEATRICE, NEBRASKA.**

**POLANDS** Sired by grand champions and out of prize winning sows. Prices reasonable. **W. Z. BAKER, RICH HILL, MO.**

**BLOUGH'S BIG POLANDS** I am offering a choice lot of big, growthy, heavy boned boars out of 700 and 800 pound sows of the best big type breeding. At most reasonable prices. Everything guaranteed cholera immune for life. **JOHN M. BLOUGH, BUSHONG, KANSAS**

**ENOS IMMUNED POLANDS** Fall and spring boars sired by the noted herd boars Orphan Chief and Mastodon King. Will sell a choice lot of my herd sows and gilts bred for early spring farrow. 100 head to pick from. Everything guaranteed immune. Write or phone. **A. R. ENOS, RAMONA, KANS.**

## O. I. C. HOGS.

**Immuned O. I. C's.** 3 herd boars priced and bred gilts. Also fall pigs. **A. G. COOK, Luray, Kan.**

**LYNCH'S IMMUNE O. I. C's.** Boars and gilts not related. **W. H. LYNCH, Reading, Kan.**

**Western Herd O. I. C. Hogs** Spring boars and gilts for sale. Also fall pigs not related. Get my prices. **F. C. GOOKIN, RUSSELL, KANS.**

**Alma Herd "Oh I See" Hogs of Quality** A trial will convince you; anything sold from right weeks on up. All stock shipped C. O. D. on receipt of \$10. Write for price list. **HENRY FEHNER, ALMA, MISSOURI**

**20 White Boars** Best breeding \$25 each. Sow sale January 20. Ask for catalog. **AMOS TURNER, WILBER, NEBRASKA**

**"OH, I SEE" BARGAINS** Pigs 8 weeks old \$8.50, trio \$25.00, 3 months \$10.00, trio \$29.00, 4 months \$12.50, trio \$36.00, 5 months \$15.00, trio \$44.00. Herd boar \$30.00, bred gilts \$25.00, bred sows, \$30.00 to \$35.00. **F. J. GREINER, BILLINGS, MISSOURI.**

**SILVER LEAF HERD O. I. C's.** Tried sows bred for February farrow. April and June gilts. Fall pigs both sex. Price \$10-\$40. Satisfaction guaranteed. Everything double immune. **C. A. CARY, R.F.D. No. 1, Mound Valley, Ks.**

The Scotties O. I. C's WHITE HOGS OF QUALITY  
The largest pure bred herd of O. I. C's in the U.S. and with the greatest show record behind them. Carefully selected breeding stock, either sex, of the highest class, pure bred and shipped to you on approval.  
**L. W. & R. H. SCOTT, Nelson, Missouri**

## DUROC-JERSEYS.

**DUROC BRED SOWS** 8 fall yearlings bred for second litter \$30. 4 fall yearlings \$35. Older sows \$35 to \$45. 40 young boars from 50 to 125 pounds. All bred sows immune. Write your wants. **J. E. Weller, Fauett, Mo.**

**Guaranteed Immune Duroc Bred Gilts** Pedigreed Duroc Gilts, prize winning blood, guaranteed immune and in farrow. Shipped to purchaser on approval before he pays for them. Prices reasonable. Address **F. C. Crocker, Filley, Nebraska**

**TRUMBO'S DUROCS** 10 August boars; big, stretchy fellows by Illustrators II and Crimmon Wonder; all immune. \$15 each. Write today. **WESLEY W. TRUMBO, PEABODY, KAN.**

**BONNIE VIEW STOCK FARM** 30 or 40 March and April gilts for sale, bred or open. A few good spring boars. **SEARLE & COTTLE, BERRYTON, KANSAS**

**DUROC HERD BOARS IMMUNED** Boars and Gilts of large smooth, easy feeding type. From the Champions Long Wonder, Defender, Superba and Golden Model breeding. Gilts bred or open, also fall pigs. Prices reasonable. **JOHN A. REED, LYONS, KANSAS.**

## Spring Duroc Boars and Gilts

All my spring gilts and boars at private sale. Gilts bred or open. Will breed them if desired to either Prince of Col. Wonder or Taylor's Model Chief. Write me. **DR. E. N. FARNHAM, HOPE, KAN.**

## BANCROFT'S DUROCS

Everything on the farm properly immunized. No public sales. For private sale: spring boars; also gilts open or bred to order for spring litters and September pigs, either sex, when wanted. Reasonable prices on first class stock.

**D. O. BANCROFT, Osborne, Kans.** (Shipping Point Downs, Kans.)

## Crimson Herd DUROC-JERSEYS

Founded in 1894. Up-to-date blood lines. Herd boars, Golden Model Again, Ohio Kant Be Beat, Crimmon Surprise and Crimmon Orion King. A few Golden Model gilts for sale, bred to Crimmon Orion King, by Orion Cherry King. Extra good fall gilts and boars by the above herd boars. Inquiries answered in full.

**Lant Bros., Dennis, Kans.**

are by King of Kansas and bred to Long Jumbo Jr. The 14 March gilts are by the two boars and bred to Jumbo Wonder. Mr. Griffiths's sale will prove as strong or stronger than any sale he ever made and is one of the very best offerings to be made in the state this winter. You can't afford to miss these sales if you want the best at reasonable prices. Send bids to J. W. Johnson in care of J. L. Griffiths, Riley, Kan.—Advertisement.

## Graner's Annual Sow Sale.

H. C. Graner, Lancaster, Kan., sells Poland China bred sows at his farm Thursday, February 17. This is his regular annual bred sow sale but in this sale he is selling all of his high priced herd sows bought last season and the year before at long prices. It is very seldom that breeders have the opportunity to buy sows of this class at auction. All of these sows are proven money makers and are sure to do the buyer good. Long King's best and Big Spot are the herd boars included. This is really a dispersion sale. You can write any time for further information and Mr. Graner will be pleased to answer questions about this great sow sale. The sale will be advertised later in the Farmers Mail and Breeze.—Advertisement.

## Dispersion Holstein Sale.

Dr. R. H. Graham, Clay Center, Kan., has decided to disperse his young herd of Holstein cattle and has claimed February 2 as the date of his sale. The sale will be held in Clay Center under cover and all will be made comfortable. There will be 17 cows that are from 3 to 5 years old and 23 heifers that are coming 1 year old. Also the 2-year-old herd bull, Forbe's Mutual Longfield 5th, which is a registered bull. All the cows are bred to Forbe's Mutual Longfield, the sire of this bull, and will calve between February 15 and April 1. It is a dandy lot of young cows and heifers intended as the foundation of one of the strong dairy herds in the state. The question of competent help has been solved. Dr. Graham on making this dispersion. Come if you want good cows. All the cows and heifers are high grade and the bull is registered.—Advertisement.

## Buys Prize Winning Galloways.

E. J. Guilbert of Wallace, Kan., recently bought from G. E. Clark, owner of the Capital View Galloways, a head of cattle. Mr. Clark's herd has furnished champion cattle for the western shows, including the American Royal and the International for the past several years. Mr. Guilbert's purchase includes the dams of many of these show animals, also the noted bull, Meadow Lawn Medallist, the sire of practically all of Mr. Clark's show cattle, and of many of the best breeding cattle in the herd. Mr. Guilbert also bought the great show and breeding bull Casino, by the great imported bull Captain 4th of Tarbrooch, and the imported bull Novelist. This addition to Mr. Guilbert's already large and well bred herd gives him one of the largest herds of Galloways in the state, and possibly in the United States. Mr. Guilbert has an ideal ranch for the production of cattle. His land is in the shallow water district and he will soon have 500 acres of growing alfalfa.

## Howell Brothers' Annual Sale.

Howell Brothers of Herkimer, Kan., will hold their third annual sale of Duroc-Jersey bred sows and gilts on Monday, February 7. The offering will include 50 head, consisting of tried sows, spring and fall yearling sows and spring gilts. The feature of this sale is the large number of tried sows and fall yearlings. Among the tried sows will be found the good producing sows, Violet and Mary Monarch. Violet is the dam of Perfect Climax, the herd boar used in this herd last season and the sire of many of the young things in this sale. The fall gilts, out of Mary Monarch, included in this offering will be a living testimony to her ability to produce high class stuff. Other tried sows will include daughters of Perfect Col., Royal Climax, Revelator, King Sampson and others. The offering is in fine shape and will be presented in exceptionally fine form. Write today for catalog, mentioning Farmers Mail and Breeze.—Advertisement.

## Poland China Bred Sows.

A. J. Swingle, Leonardville, Kan., sells Poland China bred sows at his farm joining Leonardville next Tuesday, January 25. Fifty head will be sold and considered from every angle they are as desirable as anything that will be sold in Kansas this winter. The 20 fall yearlings are out of a splendid son of King of Kansas and out of Gritter's Surprise dams. The 27 March gilts are by Gritter's Surprise and Jumbo and their dams are the famous Swingle sows that have size, bone and quality that are sure to meet with your approval. The Swingle bred sows have always proven profitable places to buy and Mr. Swingle's desire to make a satisfied customer out of every man that buys in his sale has made his sales more popular each year. Everything has been immunized with the double treatment by a competent man from the Agricultural college. J. L. Griffiths sells the day following the Swingle sale and those attending the Swingle sale will be entertained that evening in Leonardville at the Swingle hotel and taken out to Mr. Griffiths's farm the morning of his sale. Bids sent to J. W. Johnson, fieldman for the Farmers Mail and Breeze will be handled carefully and in the interest of the buyer.—Advertisement.

## Fesenmeyer's Bred Sow Sale.

Henry Fesenmeyer's public sale of Mastodon Poland China bred sows and gilts at Clarinda, Ia., Wednesday, February 9, will prove one of the strongest offerings of bred sows that will be held this winter. It is indeed a wonderful lot of sows of the larger type with which is combined unusual size with lots of quality. The writer visited this herd recently and does not hesitate to say it is the best lot of sows and gilts he ever saw that was going in one sale. There will be 15 mature sows and spring yearlings in this sale that it would be very hard to duplicate anywhere. The balance of the offering are fall, winter and spring gilts that have been selected for this sale, with the idea of making it an outstanding good offering. About half of the offering is bred to Fesey's Timm, the junior champion at the Nebraska State Fair last fall. He is a great fall boar of great merit and was also first in class, first in futurity and headed the under 1 year herd that won first place. Others are bred to Fesenmeyer's A Wonder, one of the best breeding sons of old A Wonder. His get in Mr. Fesenmeyer's last fall sale

## DUROC-JERSEYS.

**Durocs, Tried Sows** Gilts, bred or open. 10 extra fine boars. **A. C. HILL, HOPE, KANSAS.**

**25 Duroc Boars** March and April farrow, tops. Crimmon Wonder and Mo. Climax breeding. Spring gilts, bred or open. **R. T. & W. J. GARRETT, STEELE CITY, NEBRASKA**

**Immune Durocs** Spring boars and gilts, best of blood lines. Every animal guaranteed. **E. L. HIRSCHLER, HALSTEAD, KANS.**

**50 Immune Duroc-Jersey Boars** Ready for service, \$25 to \$30 each. Yearlings at \$40. Females all ages, both bred and open. Red Polled bull calves up to serviceable age, also cows and heifers. Ton Percheron stallions. Everything guaranteed. **Geo. W. Schwab, Clay Center, Neb.**

**Boars, Boars and Bred Gilts** 18 big, husky boars, 30 bred gilts, a few tried sows, Crimmon Wonder, Illustrators II, Colonel, Good Enuff and Defender breeding. Either by or bred to sons of the greatest champions of the breed. Prices for quick sale. Immune. **G. M. SHEPHERD, LYONS, KAN.**

## Good Durocs at 10c a Lb.

Fall and spring gilts, bred or open, fall and spring boars, they are good ones, sired by sons of B. & C's Col. and Graduate Col. Weanlings, \$8.00. Everything immune. Write for breeding sheet. **MIKE SEIWALD, EUDORA, KANSAS**

**Immuned Durocs!** 5 June boars, big, long, rangy kind. As good as ever looked through a pen. **F. J. MOSER, GOFF, KANSAS**

## Wooddell's Durocs!

The best lot of spring boars and gilts we ever offered—Good E Nuff Again King, Graduate Col., and other good blood lines. **G. B. Wooddell, Winfield, Kan.**

## DUROC HOGS FOR SALE

The blood of champions. Entire herd; 2 herd boars, 10 herd sows, young boars, bred gilts, yearling gilts, 50 fall pigs, not related. **BUCKEYE STOCK FARM, OLEAN, MO.**

## 40 DUROC-JERSEY

Bred fall yearling gilts for sale. Some have raised litters. Write for prices. **JOHNSON WORKMAN, Russell, Kan.**

## Jones Sells On Approval

August and September pigs for sale. Prices right. Farm raised White Wyandottes. Eggs 50c per setting. **W. W. JONES, CLAY CENTER, KAN.**

## BALDWIN DUROCS

Baby boars \$10. Baby sows \$15. Some nice bred gilts and tried sows at \$25 to \$40. A few spring boars left at \$15 to \$20. Some sows and gilts to farrow yet this fall. **R. W. Baldwin, Conway, Ks.**

## Marshall Co. Pure Bred Stock Breeders

Nothing but first class animals offered for sale for breeding purposes. It is economy to visit herds located in one locality. For the best in purebred livestock write these breeders or visit their herds.

## HEREFORD CATTLE.

**HEREFORDS—POLANDS** Herds established 30 years. 125 Herefords, 90 spring pigs, and 18 bulls, 11 to 15 months old, for sale. **S. W. TILLEY, IRVING, KANSAS**

**Choice Young Bulls For Sale** Sired by Maple Lad 84th 397607 and Real Majestic 373628. Write your wants. **J. F. SEDLACEK, BLUE RAPIDS, KANSAS**

**Pleasant Valley Herefords.** Two splendid July bull calves and some good heifer calves coming 1 yr. old. **GEO. E. MILLER, Blue Rapids, Kansas**

**Hereford Cattle** All sold out of serviceable bulls at present. Will have some for spring shipment. **B. E. & A. W. GIBSON, Blue Rapids, Kan.**

**Wallace Herefords** Inspection invited. Write for prices and descriptions. **THOS. WALLACE, BARNES, KAN.**

**Wm. Acker's Herefords!** About 25 spring bulls for this fall and winter trade. Address **WM. ACKER, Vermillion, Ks.**

**Clear Creek Herefords—** Choice last March bulls for fall and winter trade. 30 breeding cows in herd. **J. A. SHAUGHNESSY, Axtell, Kansas**

**HEREFORDS** Big and rugged. 2 miles out. **W. B. Hunt & Son, Blue Rapids, Kan.**

## DAIRY CATTLE.

**Mills' Jerseys** One 16 month bull. Bull calves from Aquas's Last Time 124818. R. C. R. I. Red cockerels, 75c each. **C. H. MILLS, WATERVILLE, KANSAS**

**WILLOW SPRINGS JERSEY FARM** Golden Fern's Lad's Last Time 25562 at head of herd. Offers a few young bull calves. **Joseph Krazy, Waterville, Ks.**

**JERSEY BULL** By a grandson of Golden Fern's Lad, out of a 500 pound cow. Price \$50. Duroc-Jersey spring pigs for sale. **B. N. WELCH, Waterville, Kansas**

**HOLSTEINS** Cows and heifers for sale. Registered and grade. Address **LAUCKLAND BROS., AXTELL, KANSAS**

## AUCTIONEERS.

**S. B. CLARK, SUMMERFIELD, KANS.** AUCTIONEER. Write or phone for dates, address as above.

**Jesse Howell, Herkimer, Kan.** of Howell Bros., breeders of Durocs and Herefords can make you money on your next sale. Write for dates

## BERKSHIRES.

**Hazlewood's Berkshires!** Yearling gilts, bred. Spring pigs priced for quick sale. **W. O. HAZLEWOOD, WICHITA, KANSAS**

## HAMPSHIRE.

**REGISTERED HAMPSHIRE HOGS** Bred gilts and yearling pigs, priced reasonable. **C. I. Suck, Canton, Okla.**

**REGISTERED HAMPSHIRE** 150 gilts and 40 boars, all ages. Cholera immune. Description guaranteed. **C. E. LOWRY, Oxford, Kan.**

## Shaw's Hampshires

180 registered Hampshires, nicely belted, all immuned, double treatment. Special prices on bred gilts. Satisfaction guaranteed. **WALTER SHAW, R. 5, Wichita, Kan.**



## HEREFORDS.

**Registered horned and double standard polled Hereford Bulls For Sale** Also a few horned heifers. **JOHN M. LEWIS, LARNED, KAN.**

**D. S. Polled Herefords** Herd Bull; 1 coming 2-year-old and 1 yearling. Registered. **W. C. Mueller, Hanover, Kansas.**

## JERSEY CATTLE.

**Lad of Nightingale** by the great Signal's Successor. 3 yr. old. Gentle. Keeping his heifers. Write for price. **L. P. CLARK, Russell, Kan.**

**QUIVERA JERSEY COWS** pay at the fall. A few good bred cows for sale. Males for sale at all times. **E. G. Munsell, Herington, Kansas**

## LINSCOTT JERSEYS

First Register of Merit herd in Kansas. Est. 1878. Oaklands Sultan, 1st. Register of Merit sire in Kansas, is dead. Last chance to get one of his daughters. \$100. **R. J. LINSCOTT, HOLTON, KAN.**

## GUERNSEYS.

**GUERNSEYS FOR SALE** Choice Guernsey bulls of serviceable age, out of A.R. cows, also a limited number of females. **C. F. HOLMES, Owner Overland Guernsey Farm, Overland Park, Ks.**

**Choice Guernsey bulls of serviceable age, out of A.R. cows, also a limited number of females. C. F. HOLMES, Owner Overland Guernsey Farm, Overland Park, Ks.**

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## ABERDEEN-ANGUS.

## AberdeenAngus Cattle

Herdheaded by Louis of Viewpoint 4th. 150624, half brother to the Champion cow of America.  
Johnson Workman, Russell, Kan.

## ANGUS BULLS

1 good 3 yr. old bull, 1 two yr. old and 12 extra choice yearling bulls. Quality, with size and bone.  
H. L. Knisely & Son, Talmage, Kan. (Dickinson County)

## ANGUS BULLS

Five from eight months to one year old. Females for sale, bred or open. Farm joins town. Correspondence and inspection invited.  
W. C. Denton, Denton, Kans.

## SHORTHORN CATTLE.

A. H. Cooper, Natoma, Kan.  
offers 10 Shorthorn bulls, 8 to 20 mos. old and 12 heifers coming 2 yrs. old, by Goodlight, by Searchlight. Address as above.

## Shorthorn Bulls For Sale!

Six heifers, two-year-olds. Reds and roans.  
L. M. NOFFSINGER, OSBORNE, KANSAS

## Pure Bred Dairy Shorthorns

Double Marys (Flatcreek Strain) and Rose of Sharon families. Registered Poland Chinas. Breeding stock for sale. Address R. M. ANDERSON, Beloit, Kansas

## Shorthorns

20 bulls and heifers sired by Duchess Searchlight 348529, a 2500 pound bull, and from cows weighing 1400 to 1600 pounds. Good milkers. Come or write.  
A. M. Markley, Mound City, Kansas

## Shorthorn Bulls, Private Sale

10 yearling bulls. Reds and Roans. All registered. Big rugged fellows. Also will spare a few heifers.  
W. H. Graner, (Atchison Co.) Lancaster, Kan.

## Stephenson's

## SHORTHORNS

Yearling bulls and early spring bull calves, reds and roans, by Cherry Knight 343761, by Barmton Knight and out of Cherry Bud. Every one a good individual. All vaccinated. Priced very reasonable. Shipment main line of the Santa Fe.  
H. C. STEPHENSON, CHASE CO., CLEMENTS, KAN.

## Registered Shorthorn Bulls!

20 bulls 11 and 12 months. Reds with a few roans. Sired by the sire of my 1913 show herd. All registered and extra choice.  
G. K. GIGSTAD, Lancaster, Kan. (Atchison County.)

## SCOTCH AND SCOTCH TOPPED BULLS

from 8 to 16 months old. Sired by Secret's Sultan  
Write for descriptions and prices. Inspection invited.  
Farm near Clay Center.  
S. B. Amcoats, Clay Center, Ks.

## SHORTHORN BULLS AT PRIVATE SALE

4 yearlings, 8 that are 8 to 10 mos. old. Solid Reds. All registered.  
N. S. Leuszler & Son, Almena, Kan. (Norton County) Main line Rock Island

## PEARL HERD Shorthorns

Vallant 346162 and Marengo's Pearl 391962 in service. 20 choice bulls 10 to 20 months old, reds and roans, for sale. Thrifty and good prospects. Scotch and Scotch topped. Correspondence and inspection invited.  
C. W. TAYLOR, Abilene, Kans.

## JACKS AND JENNETS.

## JACKS and PERCHERONS

40 Big Black Mammoth Jacks: Young Black Ton Percheron Stallions and Mares, Extra Quality.  
Reference the five banks of Lawrence. Farm, 40 miles west of K. C. on the U. P. and Santa Fe.  
Al E. Smith, Lawrence, Kansas

## PRAIRIE VIEW STOCK FARM

Has 40 big, black Mammoth jacks and jennets. Every jack my own raising; two to six years old. 15 to 16 hands high, extra heavy bone, big bodies. I can sell you a better jack for \$500 to \$800 than most speculators can for a thousand. Come and see for yourself. They must sell.  
E. BOEN, LAWSON, MO. 38 MILES N. E. of K. C. on C. M. & St. P. 40 MILES S. W. of ST. JOE, on SANTA FE.

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sold up to \$250. Another boar used in breeding the sows and gilts that go in the sale is Progression, by Panorama, by old Expansion. There will be 10 spring gilts in the sale that are wonderful in size, quality, bone, perfect feet and splendid arched backs. In fact the entire offering will impress you in these particulars. Seven of the spring gilts are by Big Joe. If you intend to improve your herd this spring you can't do better than attend this sale or send bids to J. W. Johnson of this paper. Send them in care of Mr. Fessenmeyer at Clarinda, Ia.—Advertisement.

## Nebraska

BY JESSE R. JOHNSON.

Readers of Farmers Mail and Breeze should remember the big Poland China Nebraska bred sow sale circuit beginning with S. A. Nelson & Sons of Malcolm, Neb., Monday, January 31. Nelson's special leaves Lincoln at 11:15 morning of sale. The Nelson offering will be high classes in every way. A feature of the sale will be the large number of sows and gilts sired by or bred to the great boar Mable's Wonder, one of the strongest breeding big type boars of the breed. The T. F. Miller dispersion sale will be held at York, Neb., the day following, Frazer Brothers at Waco, Neb., follow Miller's, and Beall & Wissel close the circuit at Roca on the 2d.—Advertisement.

## Beall &amp; Wissel Sow Sale.

The H. J. Beall and Wissel Brothers Poland China bred sow sale to be held at Roca, Neb., Thursday, February 3, follows the Frazer Brothers' sale at Waco on the 2d. The Beall & Wissel offering will be high class in every way. A big lot of tried sows go in as Wissel Brothers are selling their entire breeding herd, because one of the brothers is retiring from the business. There will be much of the blood of Nebraska Wonder, sire of champions at Nebraska State Fair. Kansas breeders should attend the entire circuit. S. A. Nelson at Malcolm, on January 31; T. F. Miller at York on February 1; Frazer Brothers, February 2; and Beall & Wissel Brothers on February 3.—Advertisement.

## Last Call North &amp; Robinson Sale.

One of the biggest and best sales of draft horses to be held this winter will be the North & Robinson sale at Grand Island, Neb., January 28. The mare division is especially strong. There will be 20 Percheron and 10 Belgian mares included. They are all first class and there is no doubt but what prices will continue to grow stronger as the winter advances. There is a scarcity of good work horses and the farmer with foresight enough to buy a good pair of registered mares for use on the farm can't help but make money. All of them are in foal to big imported sires. This firm has made some of the best sales ever held in the West. Their offerings are always high class and their absolute guarantee is worth considering.—Advertisement.

## The T. F. Miller Dispersion.

One of the big Poland China events of the winter will be the dispersion sale to be held at York, Neb., February 1. This sale is being held because of the death of Thomas F. Miller, one of the foremost Poland China breeders of the country. Seventy head are cataloged for this sale, including some of the best and largest sows of the breed. They are bred to thousand pound boars and many of them could not be bought at any price but for the conditions already stated. The Miller farm will also be sold at auction at the same time. This is a splendid farm for the purebred hog business and the location is ideal. Frazer Brothers sell at Waco, just a few miles east, the day following, and S. A. Nelson sells at Malcolm the day before. Breeders should attend all three sales and stop at Roca for the Beall & Wissel sale on the 3d.—Advertisement.

## Ohio Chief Line Breeding.

The Duroc-Jersey bred sow sale to be made by J. H. Proett & Son of Alexandria, Neb., Saturday, February 5, will be practically a Big Lincoln Valley Chief sale as everything in the sale not sired by the great line bred Ohio Chief boar will be bred to him. This opportunity to secure again the blood of old Ohio Chief should interest some of the best breeders in Kansas and Nebraska. Half of the offering was sired by this big boar and will be bred to the great young boar, Top Col's Charmer, a boar selected especially to cross on Big Lincoln Valley Chief gilts. He was sired by Wonder Col. by Pat's Col., by Morton's Top Col. and his dam was the daughter of Golden Model 5th. Proett & Son include 10 tried sows in this sale, among them Belle Lorene, a granddaughter of Chief Select, her dam by the great King The Col. Rose Wonder, granddaughter of Wallace Sensation, the sire of so many state fair winners. McCarr's Crimson, by Crimson of Crimson Wonders, son of Crimson Wonder Again. Some choice gilts were sired by Kelly's Model and out of a Col. Defender dam. Others are out of sows by old Goldfinch. The gilts by Lincoln Valley Chief have strong backs and lots of scale. They will be sold in nice breeding form but without fat. Everything is immune. Free hotel accommodations in Alexandria sale day. Write for catalog and mention Farmers Mail and Breeze. If unable to attend send sealed bids to Jesse Johnson in care of J. H. Proett & Son, Alexandria, Neb.—Advertisement.

## Shorthorn Sale at Falls City.

Frank Uhlig, Shorthorn breeder of Falls City, Neb., also the veteran breeder L. J. Hitchcock, also of Falls City, have joined forces and will hold a sale at Falls City on Saturday, February 5. Several years ago Mr. Hitchcock after breeding Shorthorns for nearly 40 years dispersed his herd, reserving just a few head of the very best. Now because of his advanced age he finds it necessary to disperse and all of his cattle go in this sale, including the cow Red Queen that would weigh a ton, fitted. Every female of breeding age will be in calf to Mr. Uhlig's splendid young Scotch bull, Le Boyne Rex, sired by Scottish Rex, a 2500 pound bull and out of a cow tracing close to the great cow Lady of the Boyne. All of the young bulls and younger cows and heifers in the sale were sired by the big 2400 pound pure Scotch bull Golden Dutchman, coming from the great Golden Princess family. His granddam was the great cow Imported Golden Gem 2d, by Scotch Thistle and his sire The Dutchman.

## GALLOWAY CATTLE.

## Walter Hill's Galloways!

For Sale: 14 choice yearling heifers and six bulls same age. Also a few choice bred cows. Address WALTER HILL, (Dickinson Co.), Hope, Kan.

## RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle.  
C. E. FOSTER, R. R. 4, Eldorado, Kansas.

Pleasant View Stock Farm  
Red Polled cattle. Choice young bulls and heifers. Prices reasonable. HALLOREN & GAMBRILL, Ottawa, Kansas

## RED POLLED CATTLE

Choice young bulls, best of breeding.  
Prices reasonable. I. W. POULTON, Medora, Kan.

## Special! Red Polls

11 bred cows and a yearling bull for \$1,000. Cows bred to L. C. Cremo. This offer for quick action is a big bargain.  
Ed Nickelson, Leonardville, Kan.

## HOLSTEIN CATTLE.

Holsteins For Sale high bred registered bulls ready for serv. e. N. S. AMSPACKER, JAMESTOWN, KANS.

Segrist & Stephenson, Holton, Kansas  
Prize winning registered Holsteins. Bulls from three months to yearlings for sale. Address as above.

FOUR REGISTERED HOLSTEIN-FRIESIAN BULLS for sale. 2 ready for service now. All out of A. R. O. dams. BEN SCHNEIDER, NORTONVILLE, KANSAS

High Grade Bull Calves for sale. Sired by Alba Sir Mercedes Segis Vale 83689. Look up his breeding. W. H. Bechtel, Pawnee City, Neb.

## Sunflower Herd Holsteins

THREE bulls ready for service, real herd headers with breeding and quality, not merely black and white males at any old price, but bulls you might be proud to own and at right prices.  
F. J. SEARLE, OSKALOOSA, KANSAS



## HOLSTEIN HEIFERS

Springers, coming 2 and 3 years, single lot or car loads. Also a few registered and high grade bulls, ready for service. Wire, phone or write.  
O. E. TORREY, TOWANDA, KANSAS

CLYDE GIROD, At the Farm. F. W. ROBISON, At Towanda State Bank.  
HOLSTEIN FRIESIAN FARM Towanda, Kansas  
M. M. Mercedes, Pictorial Homestead No. 156587 at head of Herd. Pure bred and high grade Holsteins, all ages. Large selection, 225 head to choose from. 150 springing cows and heifers, all the right type, in calf to pure bred bulls strong in the blood of the best milking strains, to freshen soon, as well as fresh cows on hand. Our pure-bred heifers are choice, some with A. R. O. records under three years of age. 15 pure-bred bulls, ages 6 to 24 months all out of A. R. O. dams and from Record Sires. Bring your Dairy expert, the better informed the dealer to please. Wire or write your wants.  
GIROD & ROBISON, TOWANDA, KANSAS



## 260 Holstein Cows 260 and Heifers 260

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

## 200—Holstein Cows—200

You are invited to look over our herd of Holsteins before you buy. We have 150 high grade cows and heifers and a lot of registered bulls to go with them. Three Cows and a Registered Bull \$325  
50 cows in milk and 40 that will freshen before January. Come and see our cattle. Bring your dairy expert along. The quality of the cows and our prices will make it easy for us to trade. Come soon and get choice. Well marked heifer and bull calves, crated ready to ship, \$20 each.  
LEE BROS. & COOK, HARVEYVILLE, KANSAS



## OLATHE, KANSAS On The HOLSTEIN MAP

LOCATED 25 MILES S. W. OF KANSAS CITY, MO. ELECTRIC CAR EVERY HOUR. (STRANG LINE) ALSO ON THE SANTA FE, FRISCO, K. C. C. & S. RYS.

I have opened a Branch at Olathe. The first shipment of Holstein grade cows, heifers and registered bulls will arrive at my barns at south edge of town on Kansas Ave. by January 20th. New consignments every week thereafter. You may now get high-class Holsteins in numbers to suit at the same prices prevailing in Wisconsin and Minnesota, with freight only added. Guernseys or Shorthorns will be supplied if in demand. Address Paul E. Johnson, South St. Paul, Minnesota, or Olathe, Kans.

## Holstein Cattle Sale Council Grove, Kan., January 28

At the DAIRY FARM and BARN of the INDEPENDENT CREAMERY COMPANY, I will sell at Public Auction the following choice HOLSTEIN DAIRY Stock: 40 cows, six 2-year-old heifers, 16 heifer calves, born in 1915, one registered bull, 3 years old, a grandson of King Walker, and 1 choice yearling bull. This stock is Kansas born, or brought in while young; is acclimated, and not subject to risk and loss. Dairy stock is susceptible to that if brought in from a colder country, where all dairy cows are kept in warm barns. Many of these cows weigh over 1,200 pounds each. Some now fresh, but most of them are to calve after February 1. If interested write for large sale bill and full report of the coming sale.  
Address  
F. W. Edmunds, Agent, Council Grove, Kansas

## JACKS AND JENNETS.



## Kentucky Jacks and Saddlers

Always a good lot of Kentucky Mammoth Jacks and Jennets. Saddle stallions, geldings, mares and colts. Write us fully describing your wants. The Cook Farms, Box 436 Q, Lexington, Ky.

## BARGAINS in Jacks and Percherons

Six Jacks, two Percherons, all blacks; sound and good performers. I will sell you a good one as cheap as any man in the business. Come and see, or write. LEWIS COX, CONCORDIA, KANSAS.



## Jacks and Jennets

35 big Black Jacks and Jennets for sale. 38 years' experience. We raise all we sell. We know what they are and our guarantee is good. Buy from us and save dealer's profits. We bred and raised John L. Jr., grand champion Topka State Fair, 1914 and 1915. M. H. ROLLER & SON, Jackson County, Circleville, Kansas

## Two Registered Jacks

coming 8-year-olds, weigh 850 pounds and 1,000 pounds. Guaranteed all O. K. Would trade for an extra good young Jack. One registered standard bred stallion sired by Thornfield. Gentle to drive. Three registered Shorthorn bulls from 7 to 12 months old. Reds and roans, best of breeding. 40 bushels of Sudan grass seed. For prices and description, write H. M. WIBLE, HAZLETON, KANSAS

## Mammoth Jacks

30 Jacks from suckers to 6 years old. All that is old enough broke. Also 8 Jennets with foal. 17 years a Jack breeder. Write for full information R. King, Robinson, (Brown Co.) Kan.

## Jacks and Jennets

14 large, good boned black Jacks coming 3 to 7 years old. If you want a good Jack at the right price or a few good Jennets we can deal. Write or call on

Phillip Walker  
Moline, Elk County, Kansas

## HORSES.

Clydesdale Dispersion Herd Stallion; 2 reg. mares, bred; 2 stallion colts, one 2-year-old filly. C. H. WEMPE, Seneca, Kan.

Imported and Home-bred Percheron, Belgian and Shire Stallions and mares for sale at reasonable prices. Frank L. Stream, Creston, Iowa.

REGISTERED PERCHERON STALLION TWO YRS. 1900; black; splendid individual. Out of imported sire and dam. See him. Write M. E. GIDEON, EMMETT, KANS.

Two Registered Percheron Stallions coming two years old from imported stock, weight 1750 and 1800 pounds. J. H. MAPES, R. F. D. 3, SALINA, KAN.

## Percherons at Private Sale

10 Percheron stallions from two to four years old. Two tried tou stallions. 30 mares from fillies to mares six years old. Brilliant breeding. Fully guaranteed. W. H. Graner, (Atchison Co.) Lancaster, Kan.

## Bernard's Draft Stallions

The largest dealer in draft stallions in the West. Percherons, Belgians and Shires. Same old prices. Percheron mares and fillies to trade for young stallions. Barns in town. M. T. BERNARD, GRAND ISLAND, NEBRASKA.

## For Sale or Trade

Fine registered Percheron stallion, coming 7 years old, black, sound, weight 2,000 lbs. This is one of the best stallions in the State and is an excellent breeder. Will sell or trade for quarter section of Western Kansas land. W. H. DRINKER, BELOIT, KANSAS



REGISTERED Percheron Stallions and mares, daughters and grandsons and granddaughters of Casino. Mares in foal and stallions well broke to service. L. E. FIFE, NEWTON, KANS.

## Dispersal Sale

Huntsville, Mo., Monday, Jan. 31  
40 head of big registered Mammoth Jacks and Jennets from 142 to 16 bands high; all of my own breeding and have been breeding Jacks in Missouri since 1826. You can get in this sale just what you want from a colt up to a 6-year-old; all in fine shape. Sale in town. JOE P. HAMMETT, HUNTSVILLE, MISSOURI.

Woods Bros. Co. LINCOLN, NEBRASKA  
(Successors to Watson, Woods Bros. & Kelly Co.)



AT THE NEBRASKA AND KANSAS STATE FAIRS, 1915, in the face of strong competition, our exhibit of Percheron, Belgian and Shire stallions won 21 championships, 21 first prizes, 9 seconds and 4 thirds. An unequalled record. We have on hand 75 HEAD OF OUTSTANDING STALLIONS of the three breeds, imported and home bred, nearly all coming three and four years old; a few top yearlings and several aged horses of extra weights and quality. Barns Opposite State Farm. A. P. COON, Manager.

When writing to advertisers please mention the Farmers Mail and Breeze.

Golden Dutchman goes in the sale because so many of his helpers are being kept in the Uhlig herd. Three of the cows were sired by Secret Conqueror, another 2400 pound bull. Several head were sired by Sir Charming 10th and out of Secret Conqueror cows. One extra Scotch bull was sired by Secret Charming 10th and one is out of Red Queen, the big cow already mentioned. Mr. Uhlig began breeding Shorthorns about 10 years ago and he and Mr. Hitchcock while not partners in the business, have worked together to some extent and the breeding of the two herds is very similar. The offering while not large is one of the good offerings of the season and should be seen by readers of this paper that are in the market. Ask at once for catalog and mention this paper.—Advertisement.

## S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.

Have you received a catalog of W. Z. Baker's February 1 offering? It contains cuts made from actual photos, a complete list of the herd's winnings and accurate descriptions of the offering. Write for this catalog today and plan to attend the sale.—Advertisement.

## A Good Place to Buy.

F. J. Greiner of Billings, Mo., is offering O. I. C.'s of all ages at very attractive prices for a short time, in order to make room for his large crop of spring pigs. Mr. Greiner is an old and established breeder and his herd ranks with the best. He has on hand nearly 100 fall pigs 25 choice bred gilts. He is also offering a high class herd boar. The entire offering is in perfect health. He has never had any disease on the farm. These facts are worth considering and make his herd a very desirable one to select from. See his advertisement in this paper and write him your wants.—Advertisement.

## Last Call Fuhman's Duroc Sale.

This is the final notice of the Duroc-Jersey sow sale to be held at Oregon, Mo., January 27. This is a picked lot, consisting of 15 fall yearling gilts and 35 spring gilts, carrying the blood of B. & C. Crimson, B. & C. Col., Col. Wonder 2d, Model Top, King of Oregon, 2nd Climax, Fond Defender, Hoosier Lad, Morton's Col., Chief Instructor, King Advance, Ardenhill's Wonder, Duroc Lad and others. Kansas buyers will find excellent connections from St. Joseph. If unable to attend the sale in person, send bids to C. H. Hay, fieldman for the Capner Papers.—Advertisement.

## Percheron Sale Postponed.

On account of the very stormy weather January 13, P. G. McCulley & Son of Princeton, Mo., were compelled to postpone their Percheron sale. They have chosen for their sale date, Friday, January 28, at which time they will sell their entire herd of Percherons, consisting of 34 head, 16 stallions and 18 mares. The offering is largely descendants of their two great show mares, Gaite and Grive. Practically all of the older Percherons are imported and the younger animals are by imported sires and out of imported dams. Messrs. McCulley have been showing their Percherons on the western fair circuit for several years and have been awarded grand champion on mare in a number of these fairs. In addition to the Percherons they will sell four Jacks. Postponed sales are usually bargain days. If you want a bargain in high class Percherons or Jacks don't overlook this opportunity. If you did not secure a catalog for the original sale write for one today and mention this paper.—Advertisement.

## Bred Duroc Sows Cheap.

J. E. Weller, who lives at Faucett, Mo., a small town on the Interurban between Kansas City and St. Joseph, is one of Missouri's pushing Duroc breeders. The last few years he has used for a herd boar E. Pluribus Unum 19850. This boar is a fine individual and has proven a great sire, having a lot of good sows in the Weller herd to his credit. Mr. Weller has crossed the E. Pluribus Unum sows with a splendid boar by the Missouri grand champion S. & C.'s Valley Chief. This boar he calls J. E.'s Valley Chief. His dam was by Beauty's Model Top. He is also using a young boar by J. E.'s Valley Chief. Mr. Weller is offering 20 sows bred for spring farrow. They were bred reasonably early and must move soon and are being priced with that in view. Mr. Weller has a large list of customers. He has shipped to 17 states; has shipped to 54 counties in Missouri, 16 in Kansas, 14 in Oklahoma and 12 in Arkansas. If you are interested in Durocs you will be interested in Mr. Weller's ad which is running in this paper.—Advertisement.

## Godman's Poland China Sale.

J. A. Godman, the man who has picked the plums from something like 15 of the best Poland China sales of Missouri and Kansas the last two years, will make his first sale February 4. In order to make this sale one of unusual attractions he is consigning practically all of the top sows he has collected. In speaking of these sows as tops, we mean tops in every sense. In buying these sows Mr. Godman has made careful selections, not letting a few dollars stand between him and the best. This is not a sale of three or four attractions, but is what the "movie" promoters would term an "all star offering." The line up is as follows: White Head, by Panoramia's Son, top sow in Harry Wale's 1914 fall sale and later a top in John Belcher's sale, selling at \$220; Fashion Maid, by Big Logan, from the Okeefe herd; Miss Nash, a granddaughter of old Gold Medal; Big Long Beauty, from the Charters herd; Hadley Beauty, a top from J. R. Cline's; gilts by Dan Hadley 2d, Frazier's A Wonder, A King, Hoosier Giant, Orphan Chief Price, Big Bob Wonder, Bill Charters and Kansas Grand Look. Other sows are by Prince Monarch, Long Prospect, Wadell's Long King, Wale's Mo. King, Eikmore Jumbo, C's Giant Wonder, A Wonder and others of good breeding. These sows and gilts are bred to Big Wonder, by Frazier's A Wonder, a pig purchased by Mr. Godman for \$110; Dan Hadley, one of the largest Hadley boars in service and Sure Expansion, by Expansion Sure. On February 3, Mr. Godman will sell Percherons, Jacks, Shorthorns and mules. See display ad in this issue for breeding. Catalogs will be sent on request. Mail bids sent to C. H. Hay of this paper will receive careful attention.—Advertisement.



## Registered Percheron Stallions

19 Ton and 2200 lb. four and five-year olds, 34 coming 3's, 17 coming 2's. Grandsons of International champion, PINK. 23 registered mares for sale. Just above Kansas City. FRED CHANDLER PERCHERON RANCH, R. 7, Chariton, Ia.

## Lots of All Kinds of Shetland Ponies

For sale. Write us your wants. 150 head of the choicest to pick from. All colors, lots of coming yearlings and coming two-year-olds. Disposition guaranteed, as we have used great care to select gentle stock. Won't do any harm to write us.

Johnson Pony Farm, Clay Center, Neb.



## Harris Bros. Percherons

30 Stallions  
60 Mares  
BARN IN TOWN

If you want Percherons come and visit our barns and pastures where you can see a splendid assortment from which to select. They are all registered in the Percheron Society of America, are strong in the best imported blood and have size, bone and conformation that cannot help but please you. We expect to sell you when you come because we have the right kind and at right prices. Write today stating when you will come. HARRIS BROS., GREAT BEND, KANSAS

## Bishop Brothers Percheron Stallions

Our stallions are two and three year olds. Very large, drafty type, with conformation and QUALITY. Pasture grown, fed in outdoor lots with outdoor exercise; the kind that make good in the Stud. If you want a stallion see ours. Prices are right; barn in town. Bishop Brothers, Box A, Towanda, Kansas

## Dispersion Sale of Percheron and Belgian Stallions and Mares

Scranton, Kansas, Tuesday, February 8, 1916  
17 head registered. 12 head of high grades, the low-down, wide-out kind. All pasture grown; fed in out door lots with plenty exercise. The kind that will do you good. Write for catalog. Auctioneer: Col. M. C. Pollard. H. J. URISH, Scranton, Kan.

PUBLIC SALE  
50-JACKS AND JENNETS-50  
Columbia, Mo., Thurs., Feb. 3, '16

30 head of Jacks; ages 1 to 5 years; 25 large enough for service. 20 Jennets, most of them safe in foal; some extra good ones. Some of the best Jacks sold this year will be in this sale. Several herd headers including our two great herd Jacks. Some of our two-year-old Jacks will weigh 1,000 or more. If you want something good at your own price—attend this sale. Sale under cover. Write for catalogue, address A. E. LIMERICK, OR W. E. BRADFORD, COLUMBIA, MISSOURI

German Coach Stallions and Mares  
80 Head From Which to Select

## 11 Stallions

from coming 2 to 5 years old, also one of our herd headers, the Imp. Milton, 1st in 4-year-old class and Reserve Champion at St. Louis World's Fair.

## Mares and Fillies

all ages. Practically all of our foundation mares are by grand champions both of Chicago and St. Louis World's Fairs.

These German Coach horses are large handsome, stylish, early maturing, easily broke and quiet in harness and mature into 1250 to 1650 pound animals.

They have great endurance both for heat and cold and always ready for the harness. They are the kind the Germans use both in peace and war and are sure to grow in popularity in this country as their good qualities become better known. Our herd is bred in the purple and our prices are reasonable. Call on or write

J. C. BERGNER & SONS, Pratt, Kansas

## POSTPONED SALE!

On account of stormy weather we will hold our

Percheron Dispersion Sale  
Princeton, Mo., Friday, January 28

We will sell our entire herd of Percherons consisting of 34 head, including 16 stallions and 18 mares, largely the descendants of the two widely known imported show mares Gaite 64450 (72209) and Grive 64451 (81670).

Most of our aged Percherons are imported and the younger ones are by imported sires and out of imported dams. Among our home bred animals will be Dorothy 87678, the champion Percheron mare at Sedalia, Mo., this year. We have held the champion mare of Sedalia for the past three years, Gaite twice and her daughter Dorothy once. We will also sell two Shire and one Standard bred mares.

## FOUR GREAT JACKS

The sale will be held at the farm, under cover. Farm only one mile from town. Free conveyance provided. Write today for catalog. Address

P. G. McCULLEY & SON, Princeton, Mo.

Auctioneers: Crews, Nelson, Deem. Fieldman, C. H. Hay.

# Henry Fesenmeyer's Mastodon Poland Chinas!

**Public Sale of Bred Sows**  
**Clarinda, Iowa**  
**Wednesday, February 9th**

15 mature sows and spring yearlings. Balance of offering fall, winter and spring gilts. This is Mr. Fesenmeyer's annual bred sow sale and the offering is one of unusual merit. About half of the offering is bred to Fesey's Timm, the great yearling that was first in class, first in futurity, headed the first prize under year herd and was junior champion at Nebraska State fair last fall. Others are bred to Fesenmeyer's A Wonder and Progression, by Panorama, by old Expansion.

The several tried sows in this sale are among the most valuable producing sows in the United States as the records of Mr. Fesenmeyer's last two sales will show. They are in their prime and sold as positive attractions in this sale. Seven spring gilts by Big Joe, that will weigh up to 400 pounds; other spring gilts by Fesenmeyer's A Wonder, Fesey's Orange and a few by other good boars. With the great size in this herd will be found quality in a marked degree. Catalogs ready to mail. Address

**Henry Fesenmeyer, Clarinda, Iowa**

Send bids to J. W. Johnson in care of Mr. Fesenmeyer.  
(Mention Farmers Mail and Breeze when you write.)

## Holstein Cattle Dispersion Clay Center, Kan., Wednesday, Feb. 2

**48 HEAD** Seventeen cows from three to five years old, and 23 heifer calves coming yearlings that are well marked and from the best Holstein families in the country. The 17 cows will all calve between February 15 and April first and are bred to **Forbe's Mutual Longfield**, a registered bull with a reputation. I am also including my herd bull, **Forbe's Mutual Longfield 5th**.

In buying this young herd of Holstein cattle I have spent considerable time and money and it is with reluctance that I am selling out. But the scarcity of competent help and my inability to give it my personal attention has decided me to sell. My loss should be your gain. Write for further information. Everything except bulls are high grade. Address,

**Dr. R. H. Graham, Clay Center, Kan.**

Jas. T. McCulloch, Auctioneer; J. W. Johnson, Fieldman.

## Choice Holsteins

**At Public Auction**

**4½ miles west of**

**Abilene, Kan., Thursday, Jan. 27**

**25—Choice High Grade Holsteins—25**

Cows and heifers, some milking now, some to freshen soon; yearling and two-year-old bred heifers. Registered bull, of good dairy blood, used on this offering. All tuberculin tested, clean in every way. All cows have dropped living calves during past year. This selection represents the surplus of a herd developed, selected and raised by men who make milking a business. Write for catalog.

**E. S. ENGLE & SON, Abilene, Kan.**

Auctioneers: J. T. McCulloch, W. C. Curphy, J. G. Engle.  
Fieldman, J. W. Johnson.

## Thos. Miller Dispersion Polands and Farm

**York, Nebraska, Tuesday, February 1**

**The Entire Herd  
Without Reserve**

**All Immune.**

**Sows Bred for  
Feb. and March.**

**70 Head**

**20 Tried Sows, 12**

**Spring Yearlings,**

**35 Spring Gilts,**

**4 Herd Boars,**

**including the great**

**Bloemendaal's Big Chief.**

**SIZE**

The same day we sell to the highest bidder the Thos. F. Miller farm adjoining the town of York. This farm comprises 87 acres and is one of the most desirable and best equipped places in Neb., selling in two tracts if desired. Write for illustrated circular giving all information and terms. Mention this paper when writing.

This is without doubt the greatest bunch of sows that ever went through a sale ring in Nebraska and include daughters of A. Wonder, Long Chief, Big Joe, Long King, Big Bone Jumbo, Big Price, Mouw's Big Orange, Chief Price 2nd and other noted big boars. Write early for catalog, mentioning Farmers Mail and Breeze, and if unable to attend send sealed bids to that paper's representative in our care at York, Neb.

**THOS. F. MILLER, York, Nebraska.**

Auctioneers: H. S. Duncan, A. W. Thompson. Fieldman, Jesse Johnson.

## Big Lincoln Valley Chief Duroc-Jersey Sow Sale

**ALEXANDRIA, NEBRASKA, SATURDAY, FEB. 5**

**45 HEAD**

**Immune, All Sired by or Bred  
to the 1000 lb. Boar**

**BIG LINCOLN VALLEY CHIEF**



Big Lincoln Valley Chief.

10 tried sows, 10 fall yearlings and 25 spring gilts. The get of Big Lincoln Valley Chief will be bred to Top Col's Charmer, a richly bred Col. boar bought especially to make this cross. The tried sows include sows tracing close to King The Col, Chief Select, Crimson Wonder Again, etc. The gilts have same breeding on dams side and include some with the blood of Defender and Kelly's Model. We are selling them in ordinary flesh. Write for catalog and mention Farmers Mail and Breeze. Bids may be sent to fieldmen representing this paper. Free hotel accommodations.

**J. H. PROETT & SON, Alexandria, (Jefferson Co.) Neb.**

Auctioneers: W. M. Putman and J. H. Barr.

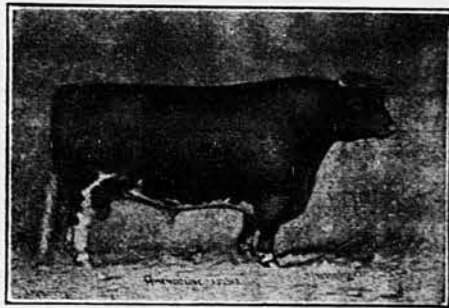
Fieldmen: Jesse Johnson and J. W. Johnson.

## Hitchcock-Uhlig Shorthorn Sale!

**Sale Under Cover**

**Falls City, Neb.**

**Saturday  
Feb. 5**



11 choice young bulls in age from 12 to 18 mos. 15 females, choice young cows and heifers all bred to the Scotch bull Le Boyne Rex, sired by the great Scottish Rex. All of the young bulls and heifers were sired by the 2,400-pound Golden Dutchman, also included in the sale. Every animal included is either Straight Scotch or four or five Scotch Tops. Mr. Hitchcock is putting in all of his cattle and his consignment contains cows that weigh over 1,500 pounds. Write at once for catalog and mention The Farmers Mail and Breeze.

**FRANK UHLIG, Falls City, Neb.**

**L. J. HITCHCOCK, Falls City, Neb.**

Auctioneers: J. C. Price, J. G. Whitaker. Fieldman: Jesse Johnson.

# Shorthorn Dispersion Sale!

Neodesha, Kansas, Monday, January 24



**54** Scotch and **54**  
**HEAD** Scotch Topped **HEAD**

**34 Cows and Heifers of Breeding Age**  
**12 Coming Yearling Heifers**  
**7 Coming Yearling Bulls and the**  
**1 Herd Bull, Sultan's Victor 343514**



The great breeding bull, Sultan's Victor, by Victor Sultan, by Whitehall Sultan, and out of Countess Victoria 3rd, has for four years headed our herd. He is a bull of great scale and substance and best of all has shown himself a wonderful sire. All of the bulls are by him and most of the young females. All of the cows and heifers are bred to him except his own daughters. Ten of the cows and heifers now have calves at side. A large number of these cows are extra milkers.

Nothing but the best of bulls have been used on our foundation females which include Mysie, Lavender, Village Girl, Young Mary, Ruby, Matilda, Rose of Sharon and other families of note. These cattle are being sold for no fault, we have been 12 years building this herd. They are the good kind and we hate to part with them but we have sold the farm and must move, hence this sale and your chance to buy them. Catalogs are now ready. Address

**G. H. HASEBROOK & SON, Neodesha, Kan.**

Auctioneers: J. C. Price and J. W. Sheets. Fieldman, A. B. Hunter.

## Big Combination Sale

Wichita, Kans., Feb. 14 to 19

All breeds of pure bred horses, cattle, hogs, jacks and jennets. Send in your entry at once.

We now have listed some of our best livestock grown in Kansas, Missouri, and Oklahoma.

Olliver & Sons, sell 20 bred sows out of their famous show herd, they are sired by champion boars, and bred to such champions as Chief Price, Logan Price, A. Wonder King, Model Expansion, Smuggler, etc.

We sell 10 bred sows from the home of A. WONDER, New London, Mo. 5 sows sired by A. WONDER, THE GREATEST BIG TYPE BOAR IN POLAND CHINA HISTORY.

30 Duroc bred sows consigned by G. B. Wooddell, and bred to the good boars, Cowley Wonder, and Crimson King.

We will sell 50 to 75 head of imported and American bred Percheron stallion, mares, and colts, including imported Genfrier, grand champion, Kansas State Fair, 1912, and sire of ROWDY BOY, an American Royal grand champion.

50 jacks and jennets, including two carloads of the big kind from the "SHOW ME" state.

50 Holstein and Jersey bulls, cows, and heifers.

50 Shorthorn bulls, cows, and heifers.

50 Hereford bulls, cows, and heifers.

If you have registered stock of any kind that you would like to sell in this sale write at once for the sale charges.

Catalogues are now ready for our big sale at Enid, Jan. 25 to 28, with about three hundred head of stock to sell.

**F. S. Kirk, Sale Mgr., Enid, Okla.**

Address care Manhattan Hotel, Wichita, Kansas, after Feb. 1.

## Howell Brothers Third Annual Sale of Bred Duroc-Jersey Sows and Gilts

Herkimer, Kansas, Monday, Feb. 7

**50—HEAD—50**

Fifty Tried sows Spring and Fall Yearlings, and Spring Gilts. Excellent individuals, backed by the very choicest breeding. Some of the Breeds most Popular strains will be represented in this offering.

The offering comprises the following, 15 tried sows; 14 Fall Gilts; 3 Spring Yearlings and 18 Spring Gilts. Representing these popular strains: The Colonel's, The Ohio Chief's, The Model Top's, The Climax's.

**BRED TO**

18 bred to Elk Colonel, 178025, by the Grand Champion Perfect Col. Dam by the Champion Model Top. 13 bred to Gold Nuggett, 180011 by the Grand Champion, Good Enough Again King, a boar backed by 7 Grand Champions in an unbroken line. 4 bred to Queen's Climax, 108701, 8 bred to Violet's King, 190689, 7 bred to King's Best, 190691.

Write for our catalog which gives full particulars, terms, entertainment, transportation, railroad time tables, etc.

**Howell Brothers, Herkimer, Kans. (Marshall County)**

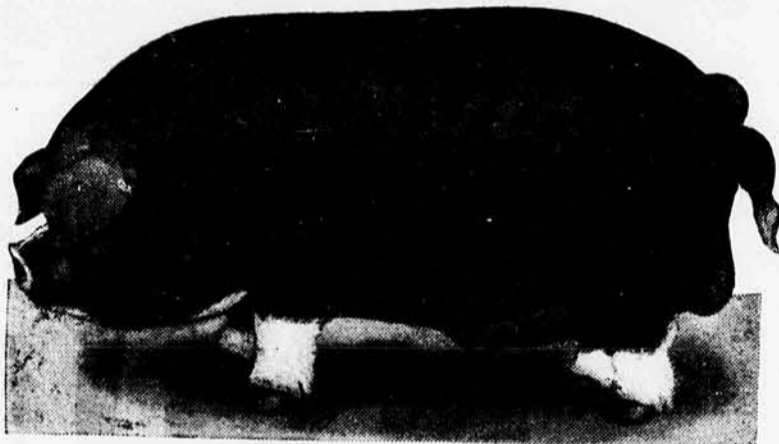
Auctioneers—Col. H. S. Allen, Russell, Iowa and Col. H. H. Dalley, Fairmont, Okla. Fieldman—John W. Johnson. Clerk—A. Mayhew, Marysville, Kan.

# Two Big Riley County Sales

90 Poland China bred sows, the tops of two herds. Both herds have been carefully immunized with the double treatment

**A. J. SWINGLE, Leonardville, Kan.**  
**Tuesday, January 25**

Two tried sows, 20 fall yearling gilts and 27 March gilts.



GRITTER'S SURPRISE

The fall gilts are by King's Quality, by King of Kansas and out of Gritter's Surprise and Big Orange Again dams. Most of them bred to Jumbo, a grandson of A Wonder and Long King's Equal. Others are bred to Baron Again. The Spring gilts are by Gritter's Surprise and Jumbo and out of my big mature sows. Write at once for catalog. Address

**A. J. SWINGLE, Leonardville, Kansas**

Auctioneers—Jas T. McCulloch, Vernon Noble.

**J. L. GRIFFITHS, Riley, Kansas.**  
**Wednesday, January 26**

Nine tried sows, 17 fall yearling gilts and 14 spring gilts.



KING OF KANSAS 65406

KING OF KANSAS.

The 17 fall gilts are by King of Kansas and bred to Long Jumbo Jr. The Spring gilts are by these two boars and bred to Jumbo Wonder, by Big Wonder.

I will also sell seven summer boars sired by King of Kansas and Long Jumbo Jr. Write at once for catalog. Address

**J. L. GRIFFITHS, Riley, Kansas**

Auctioneers—Jas. T. McCulloch, Jas. Cross.

**Free hotel accommodations and free transportation for both sales at Leonardville, Kan.**  
**Send bids for both sales to J. W. Johnson, in care of either party.**

## GODMAN'S BIG TWO DAYS SALE

Devon, Kansas, February 3 and 4

### Poland Chinas

February 4

40—Bred Sows and Gilts—40  
All tops sired by

Panorama's Son, Big Logan, White Sox Chief, Gold Medal, Tec. Hadley, Ex. Hadley, Prince Monarch, Long Prospect, Wedd's Long King, Wedd's Ex., Wale's Mo. King, Big Hadley, Kansas Grand Look, Elkmere Jumbo, C's Giant Wonder, John K, Bill Charters, Big Bob Wonder, Orphan Chief Price, Hoosier Giant and Frazier's A Wonder.

The offering is bred to the three great boars—Big Wonder, Dan Hadley 2nd, and Sure Expansion.



FASHION MAID (167210)

THE KIND THAT MAKES POLAND CHINAS POPULAR.



GOLDENA (163530)

TYPICAL OF THE BROOD SOW OFFERING.

### Percherons

February 3

King 51018, by Oragenx 26110, weight 2,000; age 8 years.

Teddy 81448, by son of Casino, weight 1,900; age 5 years.

Royal 53850, by Alcalix 12803, black; 8 years old.

10 Percheron farm mares—10

5 Black Mammoth Jacks—5

22 head of mules—22

4 Registered Shorthorn cows—4

**Special Coach From**  
**Ft. Scott to Devon**  
**Send for Catalog**

Auctioneers—R. L. Harriman, C. B. Robbins, T. J. Macon, J. B. Duerson, W. A. Woods. Fieldman—C. H. Hay.

**J. A. GODMAN, Devon, Kan.**

# \$2 Brings You This Big LIFE-TIME GUARANTEED NEW BUTTERFLY Cream Separator

## On 30 Days' Trial At Our Risk

Then if pleased you can keep it and pay only a little each month out of your extra cream profits until the machine is paid for. In this way the separator itself will earn its own cost—and more before you pay. You won't feel the cost at all. If you do not need a large capacity machine you can obtain a smaller one on payments as low as

## Only \$2 a Month No Interest to Pay—No Extras

The prices we quote include everything. You have no extras to pay—no interest. You buy direct from the manufacturer and save nearly half. We give **30 days' trial** on your own farm. During this time if you don't find the New Butterfly the lightest running, easiest cleaning and best all around separator on the market (regardless of price), you don't need to keep it. Just send it back at our expense and we will refund what you paid, including all freight charges both ways.

## Used on More Than 50,000 Farms

Over 50,000 New Butterfly Cream Separators are now in use. No doubt some of them right in your own neighborhood. We have been advertising in this paper for years—the publishers know us and know we do just as we agree. Read these letters from just a few of thousands of satisfied owners:

### Seven Years Old—Runs Like New

"The Butterfly Separator we purchased of you about seven years ago is still doing fine work. I recently took it apart and cleaned the gears with coal oil. Now it runs like a new machine and works as well as ever."  
H. S. Stonebraker,  
Kokomo, Indiana.

### Twelve-Year-Old Girl Runs It

"We would not do without our Butterfly Separator or exchange it for all the other machines we have seen. Our little girl, 12 years old, runs it like a clock!"  
Mrs. P. E. Rude, Ashland, Wis.

### Made \$61.39 More from Same Cows

"We made \$78.61 worth of butter before we had the machine and in the same length of time we made with the Butterfly Separator \$140.00 worth of butter from the same number of cows."  
Thos. S. Kermosky,  
Point Aux Pius, Mich.

### Lighter Running and Easier to Clean

"We don't see how we got along without the New Butterfly as long as we did. It runs lighter, is easier washed and kept clean than the higher priced machines in this neighborhood."  
E. E. Morrison,  
Ollie, Mont.

Top of  
Milk  
Tank  
Is  
Only  
38 in.  
From  
the  
Floor

Skimming  
Device  
Made of  
Aluminum  
One-piece  
Easily  
Cleaned



(30)

**ALBAUGH-DOVER CO.,**  
2177 Marshall Blvd., Chicago

Gentlemen:—Without obligation on my part, please mail me your **free** Catalog Folder and full particulars regarding your special easy payment offer on the New Butterfly Cream Separator.

I keep.....cows.

Name .....

P. O. ....

State.....R.F.D.....

## Fill Out Coupon and MAIL TODAY

Why not get one of these big labor-saving, money-making machines while you have the opportunity to do so on this liberal self-earning plan? Let us send you our big new illustrated Catalog Folder showing all the machines we make and quoting lowest factory prices and easy payment terms. We will also mail you a book of letters from owners telling how the New Butterfly is helping them to make as high as \$100 a year extra profit from their cows. Sending coupon does not obligate you in any way. Write today.

**ALBAUGH-DOVER CO.**

Factories: 2177 Marshall Boulevard, CHICAGO, ILL.