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# The FARMERS MAIL AND BREEZE



## Sorghums That Have Won

By F. B. NICHOLS, Associate Editor

**A**N INCREASE with the yields of the sorghums can be obtained in Kansas by careful management. There are several things that need more attention. The first is to plant varieties adapted to the locality where one is farming. The next thing of importance is to put the seed into well prepared ground and then tend it well. Finally, one should practice head selection in the field, to improve the strain of seed from year to year.

A large loss is coming every season from the sorghums because of the growing of varieties not adapted to the local conditions. For example, Red Amber sorghum is an excellent variety to grow for forage in Western Kansas, but as one goes eastward in the state its value decreases. The Kansas Orange sorghum has a high value in Eastern Kansas, but as one goes westward its value declines. It is probable that the line of equal value of these two varieties is about at Nickerson, where both have been grown in field tests on the farm of the Reno County High school.

Good results have been obtained from the growing of Dwarf yellow milo in Western Kansas. The eastern line for this crop is the place where the Chinch bugs are encountered. The end of the trail for White milo is the same place; this probably is near Dodge City. Freed sorghum does well under the high, dry conditions of Western Kansas, but it has shown up poorly on the fields farther east. Blackhull white kafir has done well in most sections; in the western third the dwarf strain is being grown extensively. Feterita made a good record in 1916, but it has the objection that it shatters readily and the birds seem to like it especially well. Sudan grass did not do so well in 1916 as it did in the two seasons before that, mostly perhaps because of the cold, wet, backward spring. There is no doubt, however, that it has a place in Kansas. All the sorghums have been grown in variety tests over the state. This work is in charge of the department of agronomy of the Kansas State Agricultural college.

After one has good seed of the variety he has decided to plant, the next step is to see that the seed is placed in soil that has been prepared in a way that will give the plants a chance to make the best growth. A good start with this is to get more fall and winter listing and plowing. When the land is broken in the fall there is a chance for the conservation of moisture, for the forming of available plant food, and for the placing of the soil in a good physical condition for the crop. Winter listing will make it possible to catch the snow; this moisture will be saved to the land, instead of being blown away. This frequently makes all the difference between a good crop and a failure on the Kansas farms.

Soil that has been broken in the fall or winter needs to be worked down in the spring. Much of the cultivation for the sorghums should be given before they are planted. Even under the best conditions the crops will make a slow start, and the soil conditions have a big part in this progress. At the time of planting the land should be absolutely free from weeds. On surface planted fields this condition can be obtained by the thoro use of the disk and harrow. On listed land it can be obtained by working down the ridges and listing again. The technique is not so important if it accomplishes the result of destroying the weed growth and placing the land in good mechanical condition for the crop. The importance of destroying the weed growth is not appreciated properly in any section of Kansas. Especially is this true in Southwestern Kansas, where there has been much damage to the sorghum crops from

an equal chance with the weeds and grass.

The time of planting the sorghums is of as great importance as seedbed preparation. It must be remembered that these crops are adapted to warm climates; they have been grown for hundreds of years where the conditions in the spring are much more favorable than in Kansas. As a result the wet, cold weather of the early spring is decidedly unfavorable for them. I believe that in the course of time the crops will tend to adapt themselves to this condition, but until this time comes one should wait until the land is well warmed and the season seems to have "opened up" before planting.

Probably half the sorghum seed in Kansas is planted too early; in many communities the proportion is higher than this. Some seed is planted too late it is true—there is always some caught by frost every season before it has had time to mature—but much of

this late planting is caused by the fact that replanting is made necessary by too early planting. It is well for one always to be prepared for replanting, for abnormal conditions may cause a loss of the seed even after good weather has arrived. Crops which will mature quickly should be selected for this. For example, feterita will mature rapidly, and is well adapted to planting late in the season. It can be used quite generally over the state where grain is desired. Freed sorghum matures quickly; at the Hays station in 1916 it matured in 70 days. This was a better record than can usually be expected, but the crop will get thru in 80 or 90 days almost every year.

When the sorghums are planted properly on well prepared soil after it has become warmed, they are well started on the race. Good cultivation is required, of course, but this

is easy if the right preparation has been given. There is a great need for more use of the hoe in getting the weeds out of the rows, and it is used on some farms in the eastern part of the state. It needs to be used in all sections.

If the sorghums are handled in the way that has been outlined the yields will be much larger than the average in Kansas in the last few years. The profits from the crops depend to a large extent on the way they are harvested. The first thing is to select the seed for planting the following year. Head selection is of great importance with the sorghums, but it has been quite generally neglected. Most farmers have been selecting the seed from the bin, and as a result we have heard a great deal about seed "running out." There is no excuse at all for this sort of thing; if the right sort of head selection is given the seed will "run up." One of the best examples of this (Continued on page 26.)



Careful Head Selection, Better Cultivation and the Growing of Varieties Adapted to the Locality Will Increase the Yields of Sorghums.

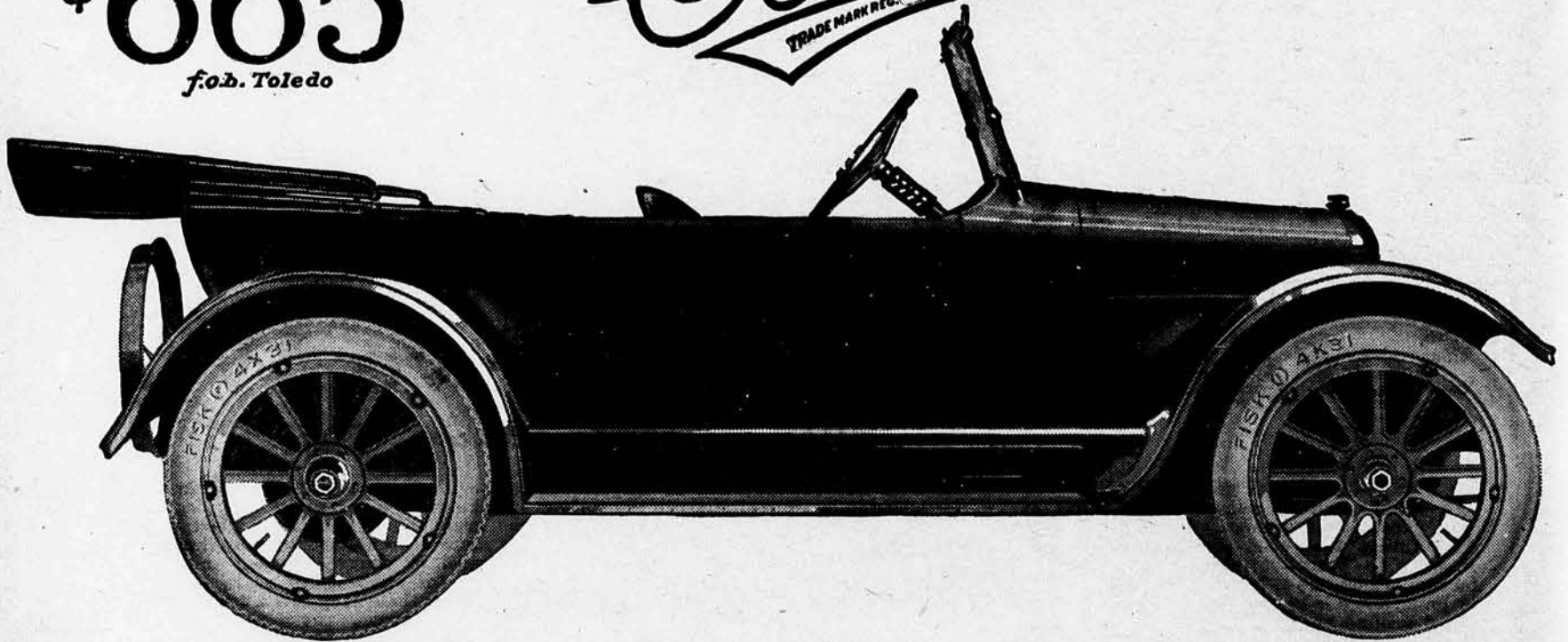
weeds in the last few years. This loss is increasing. Much of it can be prevented by destroying all weed growth at planting, to give the sorghums an equal chance with their enemies. The soil conditions in Southwestern Kansas are such that a large number of cultivations are not necessary; frequently two or three are all that are needed. This being the case, one can well afford to put plenty of additional work on the seedbed.

In Eastern Kansas there is more of an appreciation of the importance of getting the seedbed in good condition for the sorghums, but there is a considerable lack of effort in doing this. Much trouble is encountered with grass in sorghum fields in the eastern third of the state. Any man who has been kept from a kafir field by wet weather until the field became sodded can well appreciate the need for prompt action in getting the cultivator started and also in planting the seed in soil where the crop will have at least



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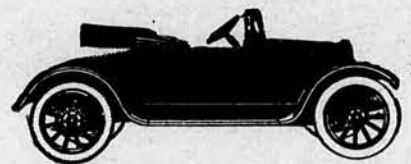
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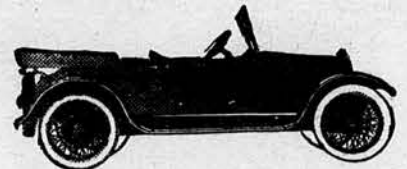
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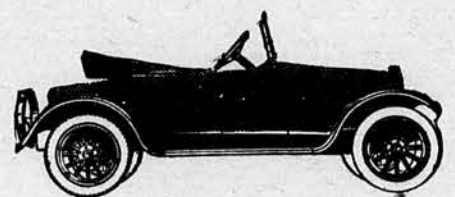
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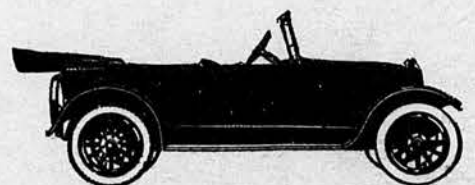
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# Here are the Winners:

## Capper Pig Club Leaders Show High Profits and Low Production Costs in 1916

By JOHN F. CASE, Contest Manager

GILBERT ARTHUR, Berkshire booster from Hartford, Coffey county, won first prize in the Capper Pig Club contest for 1916. Producing 1829 pounds of pork at the phenomenally low cost of \$1.90 a hundredweight, and



Gilbert Arthur.  
First.

writing a snappy story that told how the contest entry was fed and cared for, this 13-year old chap carried away the bacon with points to spare. His sow cost \$40, the feeding cost was \$35.87, and his profit \$154.62, not including the prize he won. Nor does this report include a fall litter weighing 450 pounds when the contest closed, and produced at a feed cost of \$1.15. Can you excel this record in any pig club contest in the United States?

Gilbert's low cost of production was made possible thru having alfalfa pasture and alfalfa hay. In addition he had shorts, bran and tankage. His corn feeding expense was one of the lowest in the entire club, only 1,800 pounds of shelled corn at 90 cents a hundred pounds being consumed. Gilbert's contest grade was \$4.04.

A Duroc breeder won second prize, \$20. Earl Wolf, 15-year old booster from Hanover, Washington county, produced 1,500 pounds of pork costing \$2.10 a hundred. Earl's investment was \$25, his feeding cost \$31.72 and his profit \$134.78. Rape pasture, shorts, skimmilk and corn did the work. His contest score was 79.19. Earl's story and picture will appear in an early issue of the Farmers Mail and Breeze. No picture had been taken when the contest closed.

Hampshires took third place and \$15. Wallace Corder of Lawrence, Douglas county, reported 1,747 pounds of pork with one pig sold and not weighed. His feeding cost was \$53.42 or \$3 a hundred pounds and his profit record \$147.28. Shorts was the big item with Wallace, and he had rape and oats pasture. Winning \$21 at the Douglas county fair boosted profit records for this winner. He is 13 years old. The score was 84.01. The sow cost \$25.

John Shepard, another 13-year old Duroc booster living near Irving, Marshall county, won \$10 and fourth place. John's pork production record was 1,690 pounds, his feed cost \$50.91, and his profit record \$152.09. John fed shorts, alfalfa meal, tankage and corn, and had rye pasture. His contest grade was 73.99, 4 points being awarded for the story and records. This chap also kept a record showing exact prices of feed bought. The contest sow cost \$35.

Ray Jones, 14, Sylvia, Reno county, Hampshire booster extraordinary, won fifth place and \$5. He produced 1,875 pounds of pork at a cost of \$3.30 a hundredweight and with a \$50 investment for the contest sow cleared \$138.28.



John Shepard.  
Fourth.

Table slop was the chief expense item with Ray. His contest grade was 73.54.

Every prize winner provided a sworn statement that his report is correct and true. William Robison, 15, Woodson county representative and breeder of Spotted Polands, produced 2,120 pounds of pork (estimated) at a cost of \$2 a hun-

dred weight and would have won second prize in the contest had his weights been official. Billy's father was ill. No scales were available, so breeders estimated the weight of the 11 pigs and the contest sow, and Billy sent the lowest estimate. But we can't take estimated figures, much as we regret the circumstances, so Billy must be content with his \$170 profit record. The 11 pigs were high for the club and I've no doubt the 2,120 pounds given would have been exceeded when placed on the scales. Hard luck, Bill, go after the prize this year. Bill's score would have been 82.13. His sow cost \$40.

Runners up in the contest were Homer Godding, Marion county; Virgil Knox, Sumner; Fred Coleman, Anderson; Clark Jenkins, Miami, and Lawrence Langvardt, Geary. Homer had a Duroc sow; Fred's entry was an O. I. C., and the other three boys had Polands. Homer's grade was 70.63, the others were considerably under.

In awarding prizes these points were considered: Cost a pound, 40; pounds of pork produced (live weight) 35; story and records, 25. Taking the low cost record and the greatest official weights reported as standards, the pork production records were graded carefully by Frank Howard, livestock advertising manager of the Farmers Mail and

swine. His record was \$120.06 with no sales of breeding stock. The other high breed profit records were made by boys who won prizes.

Team work made possible these remarkable records. Every boy did his best but back of him stood mother and dad with encouraging words and a family pride that meant much. Nor was the contest manager forgotten. "You seem just like one of the family," my boys keep writing, and I have a heart interest in the welfare of every chap. And back of every effort was the thought of one man who had faith in Kansas boys. "Mr. Capper trusted me and I couldn't fail," said one boy in his report. Those simple words provide food for thought.

Pork was produced at an abnormally low figure. With an average weight of 1,289 pounds for all breeds the feeding cost averaged \$39.34, making the cost a pound just a fraction more than 3 cents. The cost of production was charged according to these feed prices based on 100 pounds and tabulated in December, 1915:

Shelled corn, 90c; ear corn, 70c; kafir, milo, feterita and other sorghums, 80c; wheat, \$1.50; bran, \$1; shorts, \$1.20; tankage, \$2.50; linseed meal \$2; alfalfa hay, 30c; pasture, 15 cents a month for sow and for each pig after 2 months old; table slop, 25c; skimmilk, 25c; whole milk, \$1.



Arthur Capper.



John F. Case.

Breeze. Floyd Nichols, associate editor of the Farmers Mail and Breeze, graded the records and stories. After the work was completed the grades were added and the winners were found. Neither judge knew what the total would be until the final grades were added. It was a simple and fair method of deciding the contest on merit.

Seventy-three boys completed the work and sent in reports. These boys show an average profit of \$75.30 on an investment of \$30.65, the price paid for the contest sow. Fifteen boys report a profit of more than \$100. And these profit records do not include fall litters nor increased valuation of the contest sow. Pork produced was figured at 10 cents a pound, market price when the contest closed. Credit was given for sales of breeding stock but weight was deducted from total pounds of pork produced in figuring profits. These are legitimate profit records. Any increase in prices for feed would be cared for by valuation of fall litters and greater value of the contest sow. Can these profit records for so large a club be excelled?

Roy Kuntz of Graham county, had the highest official profit record, \$168.85. Fred Coleman of Anderson county, had the high profit record for the O. I. C.

Actual cost records kept by a number of the boys indicate that the abnormally high price paid for corn during the fattening period increased actual cost about 1 cent a pound. The feed prices given, tho, will average well with normal Kansas crop conditions. But even at \$4 a hundred pounds pork was produced much more cheaply than most experts assert can be done. And remember that these averages represent work done in 73 counties covering the entire state. Some of the Western Kansas boys made fine profit records, feeding sorghums with only corn enough to harden flesh. All these interesting facts will be brought out as the records and stories are published from week to week.

"But how did the breeds compare?" Here's a table that will tell you:

Litter Pigs	Pounds	Feed Cost	Feed Cost 100 Lbs.	Total Rec'd	Profit
Polands, 5.....	923.4	\$3.70	\$36.68	\$105.17	\$72.95
Durocs, 5.8....	1,081.3	4.00	44.49	110.68	71.44
Hampshires, 6.1..	1,343	3.30	43.90	136.47	97.43
O. I. C., 6.6....	1,268.3	2.60	39.07	127.83	88.76
Berkshires, 8....	1,820	1.90	35.87	190.50	154.62

These averages represent the work of 31 Poland breeders, 34 Duroc breeders, four Hampshire breeders, three O. I. C. breeders, and one Berkshire breeder. Of the remaining 29 members who filed approved recommendations and became official county representatives, five failed to purchase sows, which cut the

number actually engaged in contest work to 97. As 73 played the game thru the reports represent the work of more than 75 per cent, a mighty good record and one to be proud of. Of the remaining 24 most of the members lost records or became discouraged and quit. Only two boys reported a loss.

And now to enlighten those pessimistic persons who said that boys who borrowed money with no security except their personal notes never would pay their bills. The amount lent was \$2,189.20. The notes were due January 1, 1917. On that date every dollar had been accounted for, either paid, renewed, or the request had been made "Please wait a few days until I sell another pig." This record, fellows, is one to be immensely proud of, and I hope it will induce other men to finance clubs of this kind.

Less than \$500 will be lent to boys who were members of the club in 1916, for the new contest. Fewer than a dozen boys asked for renewal of their loan. They start the contest in 1917 with all bills paid, money in the bank and a contest sow of their own.

In closing this summary of the work for 1916, I desire to say that the boys who made the best records were the fellows who took an interest in the club work thruout the year, kept in touch with the contest manager, and showed pep from start to finish. Every boy who finished well up in the contest was a breed club booster. Pork will not be produced so cheaply in 1917 but with the prestige gained we have a fine opportunity to better profits thru the sale of breeding stock. Every boy living in a county where membership is not complete should hustle to fill the ranks before February 15.

With such a record for the first year we will have to move along some to better it in 1917. But we can do it, fellows. With an active organization in every county, led by a live member who will keep you lined up for the \$50 county prize and more than 500 boys boosting for the state wide club, things are going to hum this year. More than \$300 in prizes and two trophy cups—I'll tell you about the new one next week—should put an edge on the contest that will induce every fellow to do his best. Watch the Capper Pig Club make boys' club history in 1917.

And now there is still a chance for membership in Allen, Cherokee, Edwards, Finney, Ford, Lincoln, Pawnee, Riley, Barber, Barton, Brown, Comanche, Ellsworth, Meade, Morton, Ness, Norton, Rawlins, Seward, Sherman, Thomas, Wallace, Wichita, Ellis, Geary, Grant, Greeley, Hamilton, Haskell, Hodgeman, Kearny, Lane, Logan, Marion, Rush, Scott, Sheridan, Stanton, Stevens, Trego and Wyandotte. Any Kansas boy 10 to 18 is eligible to join. Send in your name. The five boy membership is complete in the counties not named. More than 400 boys have filed approved recommendations. Many have bought sows and begun record keeping. About 90 boys who entered the 1916 contest are enrolled for 1917.



Wallace Corder.  
Third.



Ray Jones.  
Fifth.



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## Passing Comment--By T. A. McNeal

### Can the People Govern?

A belief is held by a large number of persons, many of them, perhaps most of them, entirely honest in it, that the masses of the people are entirely incapable of self government. This belief has led, even in democratic governments, to the placing of a vast number of restrictions on the power of the people. This feeling is natural enough and easily explained when we remember how governments have been organized. Nearly all of them have been imposed on the people instead of coming from the people themselves. The masses have submitted to the rule of the few because the few who arrogated to themselves the right to govern have been shrewder and better organized than the masses. In fact the masses have not been organized at all in a way by which they could express their desires. The few have ruled, not because they possessed superior ability, but because they were so organized that they were able to impose their will on the disorganized masses.

At first thought it may seem strange that the masses of the people of all countries have permitted themselves to be used to forward the selfish purposes of the few, and yet on further consideration it does not seem remarkable at all. As a matter of fact in their disorganized and generally poverty-stricken condition it was impossible for the masses to express themselves, and so they have followed, more or less blindly, the lead of men who assumed the right to govern.

And, generally, it may be said, these few who have assumed the right to govern, have made a sorry mess of it. They are making a bad mess of it today. If there was ever any doubt that the people of any civilized country can govern themselves at least as well as the few who have assumed the right to govern have done the job, that doubt can exist no longer. All the governmental ills, the wars, bloodshed and horrible sufferings attendant, result from the mistakes, follies and wickedness of the few, the self-appointed or inheriting governing class. How much longer will the masses permit themselves to be sacrificed in the interest of the few?

### The School of Agriculture

It will no doubt be news to a great many of the readers of the Farmers Mail and Breeze that there is a special school of agriculture at our Agricultural college. I have no doubt that the general impression is that the study of agriculture is a part of the college course, and this is of course true; but I confess that I was not very well posted concerning this special course. Indeed I may as well be honest and acknowledge that I knew practically nothing about it. Here is an article prepared in part at the Agricultural college and in part by Mr. Dillon, who before coming to the Capper publications was at the head of the department of journalism at the Agricultural college:

The suggestion of the Efficiency Commission that the School of Agriculture and the Department of Industrial Journalism, both at Manhattan, should be abolished has not been welcomed by persons familiar with the work of those departments. It is to be hoped that neither recommendation will be adopted by those responsible for such matters, until the most careful unprejudiced study has been given the subject. The School of Agriculture was created by President Waters. It came of the conviction that such an institution was most urgently needed. He, too, originated the Department of Industrial Journalism. The first teaches agriculture to those who need it most, at an impressionable age, and the second fits boys and girls to write of the farm and its work, and of the great work done by the college. This is not taught in the Department of Journalism at the University, and every farm boy and girl has a right to the instruction.

Young men and women who expect to build the best kind of rural homes and make the most of country life in Kansas must have a chance to get special training for their work. They must get the training in a school where the country life ideal predominates and not where the constant din is "get ready for a profession so you can move to town." They must get this work too, especially the older ones who could not go directly from the grades into advanced school work, in schools which have short terms, and which are well equipped to give practical work. They must be able to get a great deal of help from one or two terms if they

cannot attend longer. Such work must be offered without any prerequisite other than a rural school course and in the case of mature people even that should be waived and the student given a trial. A short direct cut to good training for live, up to date farming is the real need just now. The School of Agriculture is the one school in the state that aims to furnish just that opportunity to young men and women.

Since the school was organized in 1913 more than 1200 young people averaging about 20 years old have attended the school one or more terms. The records show that all of the young men who were graduated from the course in agriculture in this school are on their home farms.

But of course the great service of a school of this kind is not measured in terms of graduates. Its greatest service and its most direct, immediate, and lasting service comes thru giving help and inspiration to and increasing the worth and earning capacity of a large number of young people who can go to school only a part of the school year and who can be spared for only one or two years. These make the permanent and producing citizens of the state.

The students who go to this school for only part of a year are the ones who take the helpful work in agriculture and farm shop work which the college is well equipped to give. They are the ones who spend the larger portion of their time studying livestock feeding, breeding and management, crop production, soil management, farm carpentry, and blacksmithing, or cooking, sewing, millinery and housekeeping. This work can be given well only in the exceptional high school and then by full years rather than three month terms. The college must care for such people if their needs are met. The college has the equipment to use, and why not use that equipment to the fullest possible extent?

### Selling Munitions

I have here a letter from C. C. Swisher of Oberlin dealing with a number of subjects but especially with the matter of selling munitions to the allies. This is, of course, an old subject which has been talked about and written about a great deal. Generally speaking, those who have most violently criticized the government for permitting the sale of these guns and munitions of war are strong sympathizers with the central powers, and as the allies have been getting all or nearly all of the munitions manufactured in this country and sold abroad, these persons, whose sympathies are with Germany and Austria naturally feel more deeply on the subject than those whose sympathies are on the other side or who possibly may not have any decided leanings either way.

However, it seems to me that the real question to be considered is not which side is getting the munitions but whether our manufacturers have a moral right to make guns and other war munitions and sell them to either side engaged in a war in which we are not engaged. There is no question about the legal right of our manufacturers to carry on this trade, that is recognized by even Germany. It is a question of moral right, that is all. So far as the general principle is concerned I agree with Mr. Swisher and others who favor placing an embargo on the sale of these munitions to the nations engaged in war. However, I should be opposed to a law which went no further than this for the reason that it would not accomplish the real purpose that ought to be sought. If such a law as that were passed it would result in the arms and munitions being sent to some other neutral nation which has no embargo law and from there reshipped to its ultimate destination.

The legislation which I should favor would forbid the sale of cannon and other guns and other munitions whose sole purpose is for use in war, to any individual, company or nation outside of the United States. I should go still further if I had the power and forbid the manufacture of such war material entirely. I realize fully that this sentiment is regarded by the majority and perhaps by a large majority, as utterly foolish and impractical. They insist that wars are inevitable and that we must prepare for war not only by manufacturing vast quantities of munitions, guns and every modern instrument of slaughter, but that all the able-bodied men of the nation should be trained for war.

I, on the other hand, believe that the way to

abolish war is to cease to prepare for war. Admitting that there may be some risk that some other nation would take advantage of our unprepared state, I am willing to take that risk. It is my candid judgment that if Great Britain, France and Russia had disbanded their armies and dismantled their navies 10 years ago, not only would there have been no war but that German militarism would have destroyed itself. The German people, that is the masses, are not a people who love war and bloodshed, but they were persuaded to believe that militarism was necessary to preserve their country from attack. With this belief thoroly implanted in their minds they submitted to conscription and to the tyranny of military officers. But suppose that the nations surrounding them now composing the entente alliance had taken the courageous step of disarmament, it would then have been impossible longer to impress on the minds of the German people that their country was in danger of attack and they would have demanded that the military burden be lifted off their backs also. They would have argued, and correctly, too, that they could not compete in the commercial race with other nations when they were forced to carry this load which their neighbors did not carry.

Now that is my opinion. Necessarily it cannot be demonstrated that this opinion is correct because the experiment was not tried. I am well aware that my opinion regarding the course which should be followed by the United States will not be followed, but I still have that opinion. That opinion is that if we made no preparation for possible wars; if we should proclaim to the world, and show by our actions that we meant what we said, that we will make no military preparation; that we will not build battleships, and that we will cease the manufacture of huge guns and other modern implements of war, the people of the war-weary world would rise and call us blessed. Now we are not in so favorable a situation to take that position as we should have been had we refused years ago to engage in the manufacture of these instruments of murder, and had long ago placed an embargo on all exportations of such arms and munitions.

I believe that we shall be compelled either to take that position or we shall have to take just the opposite course. In other words either we must take the side of peace or war. That man is in the most dangerous condition possible who goes among armed men carrying an ineffective weapon. The fact that he carries a weapon of any kind places him in the attitude of depending on that weapon for self-defense, whereas if he were totally unarmed he would not be expected to defend himself against armed men.

Anyone who has lived on the frontier knows that the safest man was the one who never made a practice of carrying a revolver. And what is more his bravery was not questioned because he refused to carry a gun.

Now, when such a suggestion as this is made we always are referred to China as a horrible example of a pacifist nation. The militarists say, "Just see what Japan is doing to China!" The trouble with China is not her lack of an army but her lack of an honest, efficient government. For thousands of years government in China has been a synonym for graft. There was no thought of working in the interest of the people, or making life more tolerable for them, but only the thought in the mind of the official, how much could he make out of his position? As a result Chinamen lack patriotism. Why should they love a country which means nothing to them except the extortions of officials who have bought their offices for the purpose of enriching themselves? If China had had an honest, efficient government, which would have looked after the welfare of the people, which would have kept pace with the advancement of the age and intelligently and energetically developed the vast natural resources of that wonderful country, there would have been no need of standing armies or navies. It was not the fact that China was not a warlike nation that ruined it but the fact that it failed utterly to keep pace with the peaceful development of the age.

I acknowledge frankly that I am a pacifist of the most pronounced type. I regard war not only as the greatest of crimes but the supremest folly. I do not believe that armies or navies are necessary, and I believe that unless they cease to exist our civilization will perish. But I realize that there are open to us as a nation two roads; one is the peaceful road to disarmament and the other is the military



road, which sooner or later, as I firmly believe, will lead to war.

I do not think that there really is a middle road. I do not believe we can be half peaceful and half warlike. Unless we show by our acts that we really mean to follow the road of peace, of humanity, of practical Christianity, then we must follow the other road or we shall be in the condition of the man who goes among gunmen armed with a trifling, ineffective .22 revolver.

We cannot continue to make profit from the miseries of our fellowmen and at the same time declare we are a benevolent and peace-loving nation. We must be either for Mars or the Nazarene.

### What Might be Done?

I have several times referred to the possibilities of municipally-owned and municipally-operated electric light and heating plants. Very few persons, I apprehend, either know how cheaply electricity can be produced on a large scale, or what discriminations are practiced under private ownership. I was informed only a few days ago by a Topeka business man that he was getting his electricity for 3 cents a kilowatt hour or less, and he said that he knew of another business concern that is getting its supply of electricity for 2 cents a kilowatt. The ordinary citizen is paying 7 cents a kilowatt, and is expected to look as if he is greatly favored at that.

This same business man, who has had considerable to do with electrical plants, informs me that he knows that in other large cities certain big concerns are being supplied with electricity at less than 1 cent a kilowatt.

Now the point I wish to make is this: The electrical plants supplying this cheap light and power, presumably are not selling it at less than cost. No doubt the profit at these low prices is very small, but if it is sold at any profit at all, then the ordinary user is paying a tremendous price for his electricity.

There is no reason why a well managed municipal plant cannot produce electricity in large quantities as cheaply as one of these private concerns, and it should do it. There should be a plant in Topeka of sufficient capacity to supply light, heat and power to all the citizens of the city, and experience has demonstrated that it could be supplied at not to exceed 2 cents a kilowatt. There should be a certain minimum charge to cover those expenses common to all users, such as meter-reading, bookkeeping and line inspection and repairs, but so far as the electricity is concerned it should be supplied at a flat rate.

To illustrate what I mean: Suppose there were 10,000 meters in Topeka and it required \$1500 a month to take care of the fixed common charges I have mentioned, with others perhaps, that do not occur to me just now. Every meter should then be charged 15 cents a month, regardless of the amount of electricity used, but for the current consumed every user should be charged exactly the same amount.

With proper appliances I think there is no doubt that electricity at 2 cents a kilowatt would be as cheap for heating purposes as gas at 25 cents a thousand feet, or ordinary soft coal at \$4 a ton. Of course in the matter of convenience and cleanliness not even gas could be compared to it, while coal would be looked back upon as a relic of barbarous and filthy age.

Under private ownership of utilities those least able to bear the burden must carry, comparatively speaking, the heaviest load. This must necessarily be so where a business is run for profit.

In Topeka we have, unfortunately in the matter of city water works, followed the old, discriminating policy of the private corporation, and as a result the poor users of water pay higher in proportion than the rich. This is entirely wrong and should be righted; but so far the people who are being discriminated against either do not know that they are being discriminated against, or if they do know, do not understand how to make an objection that will be effective. When the water works were purchased from the old water company our people were held up for at least \$300,000. This was an outrage, but even at that it was better than to go on in the old way. But now that the city owns its plant it should not discriminate against the poor in favor of the large users. No water user in this town should be paying more than 15 cents a thousand cubic feet for water.

### Poverty to be Abolished

When some conservative wise man reads that head he will say that I am conversing thru my head covering. Am I?

Already we recognize a principle and carry it into effect to a certain degree, which if carried to its logical conclusion would mean the abolishing of poverty. We pass ordinances forbidding the erecting of buildings within a certain section of the city or town in which we live, unless such buildings are constructed out of certain kinds of material and in a certain manner. Now this necessitates the spending of more money for buildings than would be necessary if there were no such regulation. We compel persons within certain areas to erect safe and comfortable buildings.

Why? Because we have reached the stage of civilization where we concede that the rights of society are paramount to the rights of the individual. We say that the individual has not the right, within these prescribed limits, to erect a building on his

own premises which would necessarily endanger the property or the health of his neighbors.

Now, it is very well known that in every city there are localities where conditions are insanitary as well as unsightly. In these districts people live in miserable hovels, ily ventilated, and where those inhabiting them are neither properly protected from the winter's cold nor the summer's heat, and neither are they provided with proper or nourishing food. It is also well understood that the death rate is much higher there than in those districts where the people are properly housed and fed and clothed. It is known also that diseases of all kinds are much more prevalent in these districts than in the districts where the people live comfortably.

Why do persons in these slum districts, as they are called, live in this way? Principally because they are too poor to live better. Grant that many of them are in that condition on account of indolence and general shiftlessness, the fact still remains that they are there because they are too poor to live in a sanitary and comfortable way, for even the poorest do not voluntarily choose to live in a condition of sordid poverty.

These slums are acknowledged to be a menace, not only to the physical health but also to the moral well-being of the entire community. Therefore society, acting on the principle that what is for the common good should be done, should abolish these slums, these abodes of hopeless and unhealthful, disease-breeding poverty.

But, manifestly it would be unjust and impracticable to ask the dwellers in these districts to do the impossible. They cannot build comfortable homes and even if they were in comfortable homes, they could not supply themselves with sufficient wholesome food and comfortable clothing. If then society, that is government, should decree that in the interest of the common good these slums must be abolished, the next logical and necessary step would be to make it possible for the dwellers in these slums to earn sufficient incomes to enable them to live comfortably. That, however, would mean the abolishing of poverty.

In the age which is to come poverty will be abolished, not as a matter of charity, but in the interest of public health and public morals.

### Thfu My Hat?

In your Passing Comment of December 23 you seem to be losing your head about the Peace League. I have found out long ago that I don't know much, but I think I know that a league between the nations, such as Mr. Taft proposes and you seem to sanction, would be just as wise as a league between the devil and Jesus Christ to enforce the Christian religion. In the latter case, which on the surface would seem to be a good thing, the devil would have quite an advantage because force is decidedly un-Christian, and to enforce Christianity is to destroy it. You certainly know that this nation, being a republic, cannot make a league with any nation ruled by a king, for when we do we in fact do acknowledge the divine right of kings. As you know, Mr. Taft is a firm believer in the classes ruling the masses. This shallow scheme is all right for him. Now I am going to suggest what I think is a better plan for this nation to adopt:

First, I would have universal military service of every able-bodied man, and as the army and navy are for the sole purpose of defending property I would have property value as the standard for enlistment. In case of war the wealthiest man would be drafted first, the next wealthiest second and so on down. I would not allow any substitutes hired and in times of peace these same wealthy men should do patriotic police duty for the nation.

I know that the capitalistic pet, Mr. Taft, would not favor this plan but I believe that men like Mr. Taft may cry "Peace, peace," until they are hoarse, but there can be no peace under cornered, consolidated and competitive competition in commerce, and captured and caged enterprises in industry. There is more hell in this kind of peace than there is in actual war. Here is hoping that the sanitarian food you got up in Michigan hasn't affected your sanity, and that you will continue to give us sensible ideas in Passing Comment.

Cherokee, Okla.

P. T. ALEXANDER.

Some people are crazy without being aware of it. I trust I am not in that unfortunate condition and also that my friend in Oklahoma is not either, altho some of his remarks would indicate that he is drawing dangerously near to the line which separates sanity from insanity. A league is merely another name for a treaty or agreement to do certain things. Every republic has treaties with all the countries with kingly government, but I never before heard it argued that this was an acknowledgment of the divine right of kings.

I have not been a supporter of Mr. Taft, and I do not think he is a firm believer in the classes ruling the masses, but even if he does entertain such a belief as that I would still favor the consideration of a plan which he might suggest if I believed that plan when put into operation will benefit the masses of humanity.

But the inconsistency of my Oklahoma friend astonishes me. After declaring that the use of force is un-Christian he proceeds to unfold his own plan which calls for universal military service. Then as a further remarkable exhibition of inconsistency he proposes that the wealthiest men be taken first. But if his plan of universal military service is put into operation what does it matter whether the wealthy is drafted first or last? Universal military service according to his own definition would mean that all able-bodied men were to be required to do military duty and that, of course, would do away with either volunteering or preference on account of wealth.

The absurdity of his plan is further shown by the fact that the richest men in the country are generally incapable of performing military duty on

account of age or physical incapacity, so that the talk of putting the richest man in the service first and taking them down in their order may sound like a pretty good scheme, but Mr. Alexander knows perfectly well it would not work.

Now the League to Enforce Peace may not prove a success. If not it will be because the leading nations will not be willing to submit to the plan. The League plan certainly would mean practical disarmament for if the only military force was an international police contributed to equally by the great nations, it is perfectly plain that a large force would not be necessary, and if the plan was adopted by these nations in good faith it would make future wars practically impossible.

I want to be open minded about this matter. The end to be desired is a real world peace. That can never be without practical disarmament. It is idle to talk of permanent peace if the nations go back to the conditions existing before the war, so far as standing armies and navies are concerned. That would mean simply another period of armed truce such as existed before the war began. I believe the plan which Mr. Taft and others are advocating will accomplish the result desired. Therefore I am for it. I will not be for it, however, if some plan is suggested that seems to me to be more likely to accomplish that end.

### The Grange

I read with interest the part of the letter of J. C. Cooper and your comment thereon, in the Farmers Mail and Breeze. I am a member of both the Grange and the Farmers' Union. In my opinion both organizations are working in the wrong direction. I believe the primary object should be "to obtain for the farmer the highest price possible for the thing he has to sell." I lived for several years in a community where the only industry was coal mining. I have been in towns of more than a thousand people where the entire population, outside of the merchants and business men, were coal miners and their families. Every miner was a union man, yet they had no stores or co-operative associations. The union had but one purpose, one object, to obtain for the miner the highest obtainable wage and the shortest day of labor.

Organized labor leaves the retail business to the individual merchant. Organized labor is constantly obtaining two things and only two: higher wages and shorter working days. Organized labor has but one thing to sell, so organized labor constantly seeks to obtain a higher price. With this single purpose in view and leaving everything else to others, organized labor has constantly won.

My observation is that the Grange and the Farmers' Union look to the buying end, the retail business and leave the farmer to sell his goods for what the buyer will pay him. For the products of his soil the farmer receives 40 per cent to 60 per cent of the price paid by the consumer; the difference goes to the distributor.

All admit this is wrong, but so far as I am able to observe, the farmer himself is doing nothing to correct it. I am sure the Grange and the Union do not even consider the matter.

CHESTER A. LEINBACH.

R. F. D. 1, Onaga, Kan.

That suggestion certainly is worth considering. One thing is true, and that is that farmers have been slow in effectively organizing to protect their own interests. I have thought that the Farmers' Union and the Grange could be of great benefit in taking care of the farmers' interests on both the selling and buying end of the game. Of these two I am disposed to agree with Mr. Leinbach that the selling end is the more important to the farmer, for the reason that the farmer, if he is prosperous, sells much more than he buys.

### Was Note Premature?

I am surprised that President Wilson sent a note to all belligerent nations of Europe to stop fighting and make peace when the Allies are not able to accomplish the promise they made to small nations at the beginning of the strife. So long as Germany is undefeated there cannot be any durable peace in Europe as the Poles had been promised a united Poland by Russia and freedom of all Slav, Rumanian and Italian subjects of Austria-Hungary, Turkey and Austria-Hungary ought to be wiped off the map of Europe. The Turkish massacres of Armenians and the starving of hundreds of thousands of Syrians should discontinue the rule of Ottoman empire in Europe and Asia.

The misrule of the rotten empire of the Hapsburgs with oppression to all subjects of that empire except Germans and Hungarians ought to be sufficient to dethrone the Hapsburg family and free all the subjects of that unhappy country.

The Austro-Hungarian empire is composed of Bohemians (Czechs), Poles, Slovaks, Croats, Serbians, Rumanians, Italians, Germans and Hungarians (Huns or Magyars). All these nations are striving either to gain independence, or to join their kinsmen beyond the boundaries, and on account of that there is not any Austrian nation left.

The Bohemians used to say if Austria should die another one would have to be called to life. They thought and believed that such a state composed of different little nations was the best protection for them. But since the war started, Austria is no more. Germany took hold of the government and all the other nations are afraid of the German iron fist and so they clamor for independence or to join their nation outside.

If the peace should be proclaimed now the Allies could not force Germany and Austro-Hungary to free these nations. Peace would have no value as those little nations would strive for freedom and the war would have to be fought again. I am of the opinion that talk of peace at this time is premature, and I am surprised that President Wilson considers peace a possibility at this time.

On May 27 President Wilson said that "every people has the right to choose the sovereignty, under which they shall live," and this proclamation is very admirable, and in every way worthy of the chief magistrate of the American republic.

Does he imagine that Germans, so long as they are undefeated, would agree to let Bohemians and other nations oppressed in Austria choose the government under which they shall live?

The voice of America should declare in no uncertain terms for liberty of all nations.

Medford, Okla.

READER.







# Plain Talk from Capper

## Fewer Boards and More Efficiency in Spending Kansas Money, Urged by the Governor

THE LEGISLATURE listened to a straight-from-the-shoulder message, this week, when Governor Capper read the customary review of the state's business, and made his suggestions for its conduct. The governor said:

If this legislature will get down to business; keep down to business every day for the next few weeks; restrict the number of its employees to the minimum; refrain from playing politics; eliminate log-rolling; abstain from pork; kick out the grafters; maintain a strict regard for economy; guard against the innocent-looking jokers who lobby will have ready to slip into bills; transact all business in the open; enact the legislation that we have promised the people, but make as few laws as possible; refrain from legislation in behalf of special interests of any sort; straighten out some of the worst tangles of our complicated code; and then adjourn promptly and go home, the people of Kansas will rise up and call you blessed.

The people are not clamoring for a great mass of new legislation. The legislature of 1916 passed 421 new laws—106 in the last twenty-four hours of the session—a large proportion of them unnecessary if not positively detrimental. I hope we may set a new mark this year in the expeditious transaction of business and in giving time only to those measures that are really worth while.

The governor shows that Kansas never was so prosperous as now. Its taxable wealth is nearly 3 billion dollars, an increase of 175 millions in two years, and this excludes 100 millions in churches, schools and other public institutions. The taxable wealth per capita is \$1,753. Bank deposits amount to 300 million dollars. Farm products for 1916 were valued at 350 million dollars and livestock 325 million dollars. Manufactured products amounted to 350 millions. The state has no bonded debt.

Politically, Governor Capper says, Kansas is free from the more notorious forms of graft and public corruption. The message continues:

But we are not doing our best with our problem of self-government. Self-government has not failed. But we have not had self-government. We have left government to precedent, and indifference and red tape and expediency and all the other attendants of mismanagement and bad government. And we pay the price in high taxes and poor service.

The people of Kansas, in the last fiscal year paid \$35,788,000 in state and local taxes, an increase of \$1,900,000 over the preceding year. This year they will pay more. This is due partly to the increased cost of every commodity bought by the state and local governments, and partly to the enlarged functions of government which call for greater expenditures for the public welfare, but more than all is due to our antiquated, extravagant business system which often calls for the expenditure of dollars where pennies would be amply sufficient.

These two things: First, a sane business-like over-hauling and reorganizing of our machinery of government, state and local, and second, a good start at least in the direction of a more equitable distribution of the burdens of taxation should have your chief attention and best efforts.

### Simplified Government.

Kansas admittedly has outgrown its present system of government. It is a patch-work; antiquated, cumbersome, wasteful, inefficient; entirely out of keeping with the more scientific systems of business. A multiplicity of boards, commissions, bureaus and departments duplicate the work of one another, divide responsibility which should be concentrated, and by interfering with one another often retard the public business. They increase the cost of government without giving adequate return or efficient service to the public. Some of the defects of which the people complain are embodied in the state constitution, now more than 50 years old. Consequently there has arisen in many quarters an insistent demand for a new constitution. It seems only fair that the people of the state should have an opportunity of deciding whether they desire the calling of a constitutional convention. The old objection to such a convention—the fear of endangering the prohibitory amendment—no longer exists; and if the people desire now to undertake this important task, they should not be denied.

In case the legislature in its wisdom should decide this is not the time to consider the question of a constitutional convention, I recommend that an amendment to the constitution be submitted to the people permitting the submission to the people of an indefinite number of amendments at any general election, instead of three only, as the constitution now provides. This will make possible more consistent readjustment of our machinery of government than is possible under the three-amendment proviso.

Referring to the report of the commission on efficiency and economy, appointed by the legislature two years ago, Governor Capper says:

### Consolidate the Boards.

I recommend that the four boards now in charge of the state institutions, namely: The board of administration, the board of control, the board of corrections and the board of managers of soldiers' homes be abolished; and that the state schools, penal institutions, charitable institutions and soldiers' homes, be placed under one board, to be appointed by the governor, composed of

a director of educational institutions; a director of penal institutions; a director of charitable institutions; a director of soldiers' homes; with the governor ex-officio member and chairman, empowered to appoint a business manager and purchasing agent for all state institutions.

Honorary boards could be provided to counsel and advise with the heads of the educational institutions in regard to policies affecting the welfare and management of the schools.

I am convinced that a high grade, experienced business man, as business manager and purchasing agent for the four classes of state institutions will save the people thousands of dollars and at the same time improve the public service.

I also recommend consolidating all departments pertaining to agriculture into a department of agriculture in charge of a commissioner similar to the plan followed by the national government. It should include the state board of agriculture, the departments of horticulture, livestock, grain inspection, entomology, dairy, stallion registration, feeding-stuffs, veterinary, forestry, and possibly others. Not only would this reduce the cost of maintaining these departments, but the benefits resulting from a more closely correlated administration would be many.

Governor Capper suggests also that the number of judicial districts be reduced and that the supreme court be empowered to transfer judges from one district to another as required. He recommends an executive budget system of making appropriations, requiring the governor to submit to the legislature a carefully prepared schedule of the financial needs of the state, showing where and why increases, if any, are demanded. The present haphazard spending of public moneys, the governor says, inevitably leads to pork-barrel legislation and inequalities and injustices demoralizing to the public service. At the governor's conference in Washington last month, 24 governors were unanimously of the opinion that this system marks a most important forward step in legislative methods. The governor would have no more power under it than under the present order; all that the budget plan does is to substitute foresight for hindsight; to substitute a unified, coherent plan of distribution of the state's appropriations for a patched and incoherent plan.

Governor Capper recommends that all terms of office in state and county, be made four years with all elective officers subject to recall; and that all offices purely clerical in both state and county administrations be made appointive instead of elective. The saving in election expenses alone, he says, would

amount to thousands of dollars, and he believes the service would be greatly improved, and that there would be fewer scrambles for public place.

### County Government Costly.

Touching county government, the governor says:

The most extravagant and wasteful branch of government is that of the county in its present form. County taxes have nearly doubled in the last ten years, increasing from \$4,882,335 in 1906 to \$8,942,736 in 1916. With all our complaint of increased taxation, it seems incredible that no effort has been made by the legislature to curb extravagance at this source where it is greatest. We have sometimes seemed to begrudge the money required for the maintenance of state institutions, even to the extent of hampering their growth, development and usefulness, when in reality the money required for them is but a small part of the public revenues. We have been saving at the spit and wasting at the bung-hole.

Every county now elects 13 or more county officers. Nearly half of them are unnecessary. Commission form of government for the counties is worthy of serious consideration, but it is doubtful whether it can be adopted without changing the constitution. In the meantime, a number of county offices should be abolished or combined. For example, the office of register of deeds, can easily be dispensed with and its duties given to the county clerk.

The legislature is urged to enact a law placing in the hands of the public utilities commission the business of all bankrupt public service companies, the governor says, the commission to appoint the receiver and to have general supervision of the business, in the same manner as the bank commissioner now handles the business of an insolvent state bank. The fees of the receiver and the attorneys employed should be limited by law to a sum in keeping with those paid in the ordinary conduct of business.

### As to taxes Governor Capper said:

The state tax levy in Kansas is \$1.30 a \$1,000, with few exceptions a rate lower than other states. That you may know how this \$1.30 is expended let me say that 57 cents of it goes to the support of the state educational institutions; 27 cents to the charitable institutions; 13 cents for prisons and reformatories; 5 cents for homes of soldiers and their widows; and 28 cents for the maintenance of all other state officials, institutions and departments, including the supreme and the district courts, the state printing plant and the legislature. The state, all told receives on an average, about one-tenth of the total funds raised for all purposes.

For the year 1916, the taxes reported by the county clerks in all of the counties, aggregated \$35,788,531.96, an increase of nearly two million dollars. The total cost of

the state government in 1916 was \$5,484,712. The principal expenditures were:

Educational institutions.	\$2,179,803.83
Charitable institutions.	916,672.43
Penal institutions.	976,891.09
Soldiers' homes.	142,111.84

It is plainly evident that any genuine attempt at retrenchment in public expense cannot begin and end in economy in the state's business alone. Should you eliminate entirely the expense of state government and all the state institutions, you would reduce the taxpayers' burden only 10 per cent. It is for this reason that the demand grows for greater simplicity and economy in the forms of local government—the places where 90 per cent of the taxes is expended.

To lessen "tax dodging," a practice commonly resorted to by very many persons, Governor Capper urges that for taxation purposes the county records should be made prima facie evidence of ownership of mortgages.

All fees collected by state departments and state institutions, the governor says, should be turned into the general revenue fund of the state treasury. These fees last year amounted to \$1,560,344. He suggests, also, an inquiry into the amount of fees in state and local courts and in county offices.

The governor gave much attention to the subject of schools, urged vocational training; standardizing of schools; ample provision for rural high schools, and finally a law requiring every Kansas child to finish the eighth grade.

State publication of text books, the governor says, has been a success. He recommends the enacting of a law providing for free text books in all public schools, as in Nebraska, the books to be district property.

In discussing roads Governor Capper says that to get the state's share of money under the Shackelford Act a highway commission will be necessary but it can be honorary, and should be composed of state officers. He suggests that county and city prisoners be employed on the roads in camps.

### Stop Liquor Advertising.

Governor Capper asks for a law giving the governor power to suspend from office upon evidence any county attorney who neglects to enforce the prohibitory law. He continues:

I further recommend that Kansas newspapers and periodicals be prohibited from publishing liquor advertisements and the advertisements of liquor dealers and manufacturers, and that the sale and the display for sale by newsdealers and others of all publications carrying such advertisements, be likewise prohibited.

I ask this legislature to adopt a memorial petitioning the congress of the United States to submit to the people of the nation at the earliest possible date, an amendment to the federal constitution, prohibiting the manufacture, sale and importation of alcoholic beverages; and in the meantime to enact federal laws which will aid and assist states having prohibitory laws to enforce them.

Rebuilding of the state penitentiary is urged as an immediate necessity. Minor improvements are suggested in the primary law; the abolishing of the school of mines at Weir City is recommended. This school, the governor says, cost \$50,000, and its average enrollment in five years has been 18 students.

### New Books on Farming

Three excellent books on farming have been issued recently by the Orange Judd Co., of New York. One, the Semi-Centennial History of the Patrons of Husbandry, by Thomas Clark Atkeson, Master of the West Virginia Grange and Past Overseer of the National Grange, is of special interest to the 30,000 members of the Grange in Kansas. This gives an account of the remarkable rise of this order, which now has 600,000 members. The book consists of 364 pages, and the price is \$1.50.

Another book is Modern Fruit Marketing, by Bliss S. Brown. It consists of 283 pages, and the price is \$1.25. It is of special interest to the parts of the state, such as Doniphan county, where the growing of fruit is of importance. The third book is Judging Farm Animals, by Charles S. Plumb, and the price is \$2.25. A copy of this book ought to be in the library on every livestock farm in Kansas.

The United States raises about two-thirds of the world's production of cotton.

## THE ONE BIG THING

### From Governor Capper's Address on the Boy and Girl Problem.

No nation can be better, can rise higher, than its homes. The American home is the very foundation of the progress or failure of the American nation and we are discovering that there is something the matter with the American home of today.

I think the trouble is largely due to the changed conditions of life and living, especially in our towns and cities. It is a world-wide change, but greater on this side of the world and affecting us more than any other people. Then in the rush and struggle of existence I think the fathers have been too willing to leave all the responsibilities of the home and the upbringing of the children to the mothers.

Here are some ugly facts:

During the last 25 years, murder has increased 200 per cent in this country.

During the last 20 years tramp burglaries have increased 100 per cent.

In 1910, for every million of our population, 118 murders were committed. Italy had only 15, Canada only 13, Great Britain and Ireland only 9. Germany only 5—5 to our 118.

We are paying out 3½ million dollars every day in this country for punishing crime.

I am not alone in my opinion that this is largely a home problem, a home problem of the towns and cities.

We are learning that if we are to perpetuate the state, we must not only produce citizens, but good citizens—men and women of sound bodies, clear minds and clean souls. And this change in our attitude toward the life and health and well-being of the individual is not entirely sentimental, it is based on the soundest economic principles.



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## Why the Reduced Papers

THE COST of paper continues to advance, and prices probably will be much higher before the end of the winter. In addition, the supply is very uncertain; it has become obvious that enough paper will not be available to supply the ordinary requirements of the Farmers Mail and Breeze. This has made condensed papers necessary. In no other way is it possible that the paper will appear every week—without white paper the organization cannot produce an issue. Therefore, the paper will have to be issued with less editorial matter than under ordinary conditions. The plan, however, is to have every department represented and to boil down the matter more, to give the best service possible. The agricultural program for the winter will be covered in the usual way, but less space will be used. In this way the editors hope to give a service that is satisfactory. As soon as the white paper situation becomes normal the Farmers Mail and Breeze will return to its usual liberal policy in printing a high proportion of editorial matter.

## For More Flax

BY S. H. WILEY

The production of flax in the United States has decreased during recent years, notwithstanding the fact that our annual consumption increases about 10 per cent a year, and that flaxseed, with its products, is a necessity. This country was for many years a large exporter of flaxseed, but now our manufacturers are compelled to import at least half of their requirements. This seed has usually come from South America, and in the past it has always been available in sufficient quantities to supply our requirements, and consequently the shortage in this country has not heretofore been extremely serious. However, crop failures in South America and a greatly reduced crop in North America have caused a severe shortage in this country, which threatens to result in a flaxseed famine before conditions can improve. This situation constitutes a great opportunity for farmers in Kansas as flax is easy to raise. Flax fits in well with any system of rotation. It is not attacked by Chinch bugs, and for this reason many farmers raise it year after year as a sort of insurance against a total crop failure. It is a 90-day crop sown during March and April, just as soon as one can reasonably assume there will not be any heavy freezes, and it is harvested in June.

This crop is easy to handle and requires no particular knowledge excepting that the seedbed must be compact, smooth and free from clods. This can be most satisfactorily accomplished by fall plowing or by disking corn ground in the spring, and then thoroughly dragging and cross-dragging with a heavy log. The root system of flax is fine and delicate, and requires a good seedbed. If the soil is prepared properly the growing crop quickly establishes itself and reaches a full and early maturity.

The average yield, even under unfavorable weather conditions, when other crops have been practically total failures, has been from 8 to 12 bushels an acre. Hundreds of Kansas farmers, however, raise more than this. These heavy yields can be obtained by properly preparing the soil. Too much importance cannot be attached to the careful, thorough and painstaking preparation of the seedbed. Labor so spent is well repaid by a greatly increased yield. The seedbed must be smooth, compact and free from clods, and this can be obtained by thorough dragging better than by any other method.

Most of the crop in 1916 was marketed at \$1.75 to \$2 a bushel, but during the past 30 days many farmers have received

as much as \$2.50 a bushel. The average price, one year with another, probably is from \$1.25 to \$1.75 a bushel, and present indications are that high prices will prevail for several years.

Agricultural colleges have conducted experiments in the culture of flax, and they all recommend it as being a profitable crop worthy of more general attention. The Kansas Agricultural Experiment Station Bulletin No. 144 says: "Flaxseed is a crop that is worthy of general trial and more extensive growing throughout the state."

Bulletin No. 71 of the North Dakota Agricultural college states: "Experiments conducted in the botanical department and in large plots of the North Dakota Agricultural Experiment station definitely illustrate that flax is not destructive to the soil." Bulletin No. 47 of the Minnesota Experiment station states: "Flax does not remove an excessive amount of fertility from the soil. An average yield of 15 bushels of flax an acre will remove less fertility from the soil than 150 bushels of potatoes, 45 bushels of corn or 30 bushels of wheat."

Flax straw has a good feeding value. By raising flax we can increase the earning capacity of our land, and eliminate the danger of total crop failures. It provides a cash income at a season when the farm is not otherwise productive. It conserves the soil fertility and more evenly distributes the labor, as flax does not conflict much with other crops. It is a good nurse crop for timothy, alfalfa or clover, as it is removed at exactly the proper time to permit the full development of these crops. Farmers are beginning to realize these facts and they are clubbing together in many localities where flax has not been raised in the past, thereby obtaining community plantings of 500 to 1,000 acres, which insures competent threshing services and highest market prices.

## Help for Writers

If you wish to write for publication; if you have a paper to prepare for your institute or the Grange; if you are to make a speech or write an essay for the school teacher, Dillon's Desk Book will be a constant help. It answers all the bothersome questions. It contains 48 pages of valuable instruction. The price is 50 cents, postpaid. The third edition has just come from the presses of the Mail Printing House, a branch of the Capper Publications. Address Charles Dillon, Managing Editor, Capital Building, Topeka, Kan.

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Send your photographs at once to the Cement Editor, The Farmers Mail and Breeze, Topeka, Kan.



## Is the Winter Listing Best?

Much Work Has Been Done on the Corn Land

BY HARLEY HATCH

I FIND many ideas as to the best way to prepare listed ground for the second listing at planting next spring. If you had a field listed last fall or this winter what would you do to it before listing again next spring? Would you disk it, disk and harrow it or float it or do nothing but split the ridges when the time came? I would really like to know what is the best plan to follow. Our plan was to float the ridges down with a plank drag before the second listing and perhaps harrow after that. Would that start the weeds and grass and pulverize the ridges as well as a disk? Let's have your experience for it would be welcome not only to myself but to hundreds of other readers who have listed ridges to split next spring.

A friend writes me in regard to our experience with lubricating oil in the motor car. You will remember that our car was not running just as it should and that a change of oil made it go like a new one. This friend suggests that perhaps it was because we had been using too heavy an oil for cold weather and that the new oil was lighter and so circulated better. He also says that probably the garage man charged us a higher price for the light oil when in reality it should have been cheaper. The funny part of it is, we changed from a light oil—too light for our make of car, as events proved—to a heavier kind which was, no doubt, more real oil in it and less waste.

A friend who made a trip to Michigan last summer told us that at one garage he had a gallon of oil of the kind we

kafir seed—if they plant any. Several farmers have written to me asking why those who have such seed for sale do not advertise in the Farmers Mail and Breeze. If they will look on the page of classified advertisements I think they will find what they want now. One friend wrote that he had been watching the paper for some time for such an advertisement and that when the first one appeared he at once sent in his order as he was in a hurry to insure his seed supply for next spring. There is going to be a great demand for seed during the next 60 days and those who have it to sell would do well to advertise what they have as soon as possible. The early advertiser will get more than his share of the orders.

As to planting Dwarf kafir, feterita, darso or any of those substitutes for Blackhulled white kafir I do not think it wise in Eastern Kansas. We have had several bad seasons lately when the hybrids which have a relationship to cane have made grain when kafir failed, but with the coming of normal seasons kafir will again be by far the best grain sorghum crop we can raise in Eastern or Central Kansas. I prefer the Blackhulled white kafir to the red variety and find that 95 per cent of the farmers do, but for the north part of the kafir belt the red might be best as it matures about 10 days earlier.

I had a visit this week from a representative of the Fredonia Linseed Oil Works. He is traveling over the country visiting individual farmers trying to get them interested in flax growing. I was glad to meet him for he was an intelli-



How Should the Listed Land be Prepared for Corn? A Great Deal of Winter Listing Has Been Done in Kansas.

garded put in his car and following that his engine "acted up" for the only time during the trip. He said that inside of 12 hours that oil made more smut and dirt in his car than the better oils did in all the rest of the trip. As soon as he got the cheap oil out his car was all right again. If in doubt, write to the makers of your car and ask them what kind of lubricating oil you should use and follow directions.

The advocates of the present system of recording land titles will tell you that despite all its faults it is safe. Can a system which allows so many errors—or what lawyers tell us are errors—be a safe one? Is it not easy under the present system to put a cloud on a title? Can you find scarcely a title in Kansas which a lawyer hunting for a fee will tell you is entirely free from technical faults? Not long ago a mortgage was filed upon a piece of land in this county and in giving the description a mistake was made in the range number which put the land mortgaged just 6 miles east or the real location. This went clear thru to the register of deeds who happened to be familiar with the farm. He noted the number and thought "Can it be that 'so-and-so' has had to put a mortgage on his land?" An examination showed him the mistake and he was able to have it corrected before it went on the record. Had he not known the land in question it would have gone on the record and might not have been found out for years when a suit in court would have been necessary to have cleared a perfectly clear title. This could not happen under the Torrens system.

There are many farmers in Kansas who will this spring have to buy their

gent man and a farmer with 40 years' experience in Wilson county. This locality, some 12 to 15 years ago, grew a great deal of flax and at that time it was perhaps as profitable as any grain crop raised here. The average yield from 1896 to 1910 was 7 or 8 bushels an acre. A good yield was 15 bushels and a poor one any falling below 5 bushels. But beginning with 1911 flax "fell down" badly, and until this year has not made a profitable crop in this neighborhood.

We have raised several crops of flax on this farm. The first two crops we raised, in 1909 and 1910, were very profitable. In 1910 we received \$2.10 a bushel for our flax, which made 11 bushels to the acre. In 1911 flax got a black eye and our yield was only 2 bushels to the acre, for which we received \$2 a bushel. In 1912, the last year we raised flax, the season was dry up to blooming, when we had rain which started a second growth and a show for a good crop was blighted. The flax kept blooming and growing and we only got 4 bushels to the acre from a field which looked as tho it might make 12.

Flax has one very good point in its favor. Chinch bugs will not eat it and because of this it was largely raised here when the bugs were so plentiful that oats raising was not profitable. Just now we do not seem to have any bugs altho they are not far away and may fly in when warm breezes begin to blow next April. In case we are invaded again by Chinch bugs it likely will be a good plan to give up oats and go back to flax as a change for the land and to allow summer plowing. Farmers who believe in a nurse crop for grass, clover or alfalfa will find flax one of the best.



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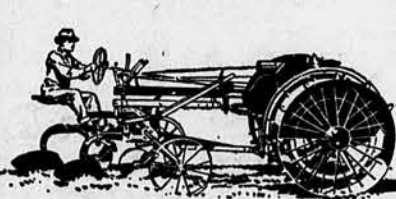
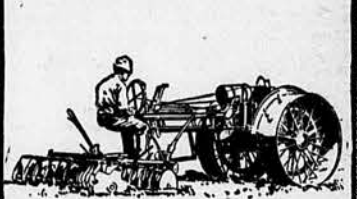
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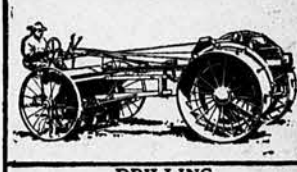
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## Valuable Eggs—High Grain

This Is a Good Winter for the Owner of a Flock of Productive Hens

BY J. W. KELLER  
Pratt Experimental Farms

NEVER has there been a time in the history of this nation when the price of grain has been higher. Only in short periods during the uncertain days near the end of the Civil War were the prices as high as now. It is not strange that many poultry owners have viewed the situation with alarm, and have marketed large numbers of their fowls in order to make the feed bills less.

In ninety-nine cases out of a hundred such action has been the result of the impulse of the moment, and not the result of analysis of the situation and of mature deliberation. Mistakes at the best are costly, and nowhere are they more costly than in the poultry business. Wisdom will not dictate the reduction of flocks until feed prices are again normal.

In these days of wars and lightning changes, no man honestly can foretell the future. The present situation as well as the past, however, certainly does afford ample facts to lead one to believe that a flock of laying hens is a valuable possession at the present time.

Admit prices are high and are going to remain so. Should we reduce or increase our flocks? The poultry business is subject to the same laws as any other business. One of these is that the cost of raw materials is of no importance so long as the selling price of the finished article is changed correspondingly. Has this been the relation between poultry feed and poultry products, that is eggs, dressed fowls, and livestock?

### A Dollar a Dozen.

Figures are so tiresome, and are so easily obtained from papers or dealers, that we shall give them here only in a general way. Egg prices never have been so high as now. Moreover they are rising rapidly, with a greater demand than supply. New York, Boston and Philadelphia poultry dealers predict "eggs at a dollar a dozen." This high price is not only a prediction, but a fact according to the report of the state poultry adviser of Pennsylvania, who gives instances of the payment of such prices. Today's mail brings a report from Nevada of a poultryman getting 90 cents a dozen for eggs. A day or two ago a report came from the Ozark mountains of Missouri, from a dealer who complained of offering 60 cents a dozen for eggs and not being able to get enough of them. Eggs generally sell in that district for not more than 25 cents a dozen. These are not isolated cases, and are not due alone to lessened supply. No student of the problem will deny that prices are going up, and that this year's average price will be high.

### The Why of High Prices.

When we search for the cause of this condition we are confronted with several facts. First, the average income is greater today than ever before, and the better off a family is the more eggs they use. Government figures show several million less dozen eggs in cold storage this year than last, as well as an increased exportation. Before the outbreak of the great war, several foreign countries were dependent upon the Scandinavian countries, Germany, Russia, and the Balkan states for much of their egg and poultry supply. This was particularly true of Great Britain. That supply is now almost completely shut off. Due to snap judgment many persons in this country have disposed of considerable numbers of their layers, because of the high price of feed, and the production of eggs has been curtailed. These are but a few of the more important causes of the great demand and high prices for eggs. Do you think that eggs will be cheaper or dearer as time passes? Wise poultrymen in all sections say that it is a favorable time to keep more fowls rather than fewer, for while feeds cost more the price of eggs is greater in proportion, and the poultryman's books are showing greater profits than before. It is a mistake at this time to send to market any hen that can be expected to lay a fair number of eggs during the next few months.

In this connection there is another interesting and important phase that should not be overlooked. The high price of eggs, attractive profits, and great demand for poultry products is going to

create great interest in the industry and cause many persons to take up poultry raising next year. This always happens. That means a tremendous demand for hatching eggs, baby chicks, and breeding fowls. As with eggs a heavy demand for these will mean higher prices.

### Cull out the Drones.

When we speak of "keeping" the flock, however, do not understand that we advocate housing and feeding them for months if they are drones or unfit. Maximum profits come from close attention. Every unproductive fowl should be culled from the flock and marketed while the prices are high. Housing should be looked after carefully to insure against profit consuming disease as well as to increase egg production. Attention should be given to feeding. Give your birds all they need, but do not waste nor underfeed. The greatest production always accompanies the best feeding. Watch the health of your fowls. The adoption of any reasonable method to insure the health of your birds is justified. Husky, healthy, vigorous fowls, unbothered by parasites or disease can do good work for you and coin dollars. Poultry health is more essential than ever before, for healthy fowls digest all their food and consequently require less to get the same amount of nourishment. You can't afford to waste high priced feed on sickly, non-productive fowls.

### For Both Meat and Eggs

I prefer either Plymouth Rock or Rhode Island Reds. I have found my flock of Rhode Island Reds very profitable. I find more profit in putting my eggs in the incubator and selling baby chicks than I can supply, and let customers know by telephone when they are hatched. All eggs I do not set I have a ready sale for as I always sell them while fresh and get a good price.

I feel safe in saying I could purchase all the feed for my chickens and have a good profit left. I have been selling from \$3 to \$6 worth of eggs all spring besides selling my baby chicks and have several hundred chickens I kept to raise for my own use. There is some profit in selling young broilers, but I find more profit in selling them from the machine as then all bother is taken off my hands. I think a very good side line for a farmer's wife is to keep and sell chicks and eggs, and it is one that you can get the ready cash for any time you need it.

I prefer the dual purpose fowl. They are the best eating fowl and I prefer them for all purposes. I find the machine beats old biddy as it is always on the job and doesn't eat anything but a little oil and water, and the chicks have no lice. Therefore they are healthier and grow faster as I think the lice often stunt the growth of many young chicks.

I may tell at some other time how I run my incubator and find it successful.

Mrs. D. E. Young.

### Millet for Exercise and Eggs

Experience has taught me that a good supply of eggs can be had in winter when prices are high by feeding millet in the straw about every third feed as corn alone is too fattening. The reason that I prefer feeding millet in the straw is that it furnishes the poultry plenty of exercise in scratching to get the seed out. It can be fed on floors or on the ground. I plow my ground about June 1 and harrow it and prepare just the same as for wheat or corn, getting a good seedbed. Just as soon as this is done I sow, using a grass seed sower, sowing one peck to the acre of the large German variety. I prefer sowing it thin as it grows more rank and the heads are so much larger. After it is sowed I harrow the ground all over once with a steel harrow. This covers the seed. It can be harvested with a binder or cradled the old fashioned way when only a small piece has been sowed. I let it stand in the shock about three weeks so it will thoroughly cure out, then I haul it in and mow away for winter use. When it is in sheaves like wheat it is much easier handled and fed.

Omar Schrougham.

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### Make Them Dig

Activity is the life of the laying hen. As her activity decreases, so does her egg production. The hen that stands around all day and scarcely has enough energy to eat food placed before her, never is a laying hen.

The amount of forced exercise necessary will vary with the breed. The Leghorn, conceded to be the highest egg producer, and most active bird, will take a great deal of exercise. The Brahma is an example of the other extreme, and always must have a strong incentive to exercise. The vigor and productivity of the free-range hen as compared to one yard-confined is accounted for largely by her active life.

During the winter months exercise can be provided by feeding all the whole grain in a litter 10 to 12 inches deep. This will not involve a waste, for if hens are left a little hungry they will scratch long after the last kernel has been found.

Laying hens should never be fed in such quantities as to satisfy their appetite. Whole grain should be fed very sparingly in the morning, and heavily at night. This not only keeps the birds more active thru the day, but a heavy feed of grain at night keeps their bodies warmer.

Straw, hay, alfalfa chaff, leaves and cut corn stover, all make good litters. Shavings and saw dust are not best because they pack, and also hold dampness. Regardless of the kind of litter used, it should be renewed frequently and never allowed to become badly contaminated with droppings.

Exercise can be encouraged by suspending a head of cabbage, or a few roots, above the reach of the hens. At butchering time a part of the offal, or a raw bone hung in a similar way, will keep hungry hens on the jump most of the time.

C. S. Anderson.

### Buy Hens from a Good Strain

The breed of hens is not so important as the strain. In the egg-laying contest a pen of a certain breed will win the contest while another pen of the same breed will lay very few eggs. For egg-laying on the farm and without any special care or feed the Brown Leghorns are difficult to surpass. Their color is not especially attractive to hawks and they certainly will find something to eat and will lay a lot of eggs if they are of a vigorous, good-laying strain. The main objections to them are they are too small for meat and it is almost impossible to keep them out of places where they are not wanted. For both meat and eggs the Barred Rock is a good breed for the farm, but care should be taken to get a healthy, vigorous, good-laying strain. One of the best all-round breeds for meat and eggs on the farm or in small yards is the Rhode-Island Reds. As with all breeds, a good strain should be selected. I have found the best to be medium size, bright medium red, with Leghorn shape instead of the brick shape required by the Standard. The dark reds are slow to mature and are not as vigorous and as good layers as the medium reds. As a rule, the Reds have excellent dispositions, are good layers (especially in winter), and are good setters and mothers but are not difficult to break up from setting. At present prices for feed and for eggs and spring chickens I can purchase all feed and clear from 50 to 100 per cent over the cost of the feed. A good strain of almost any breed is good but I think the three mentioned are deservedly the most popular.

L. E. Killian.

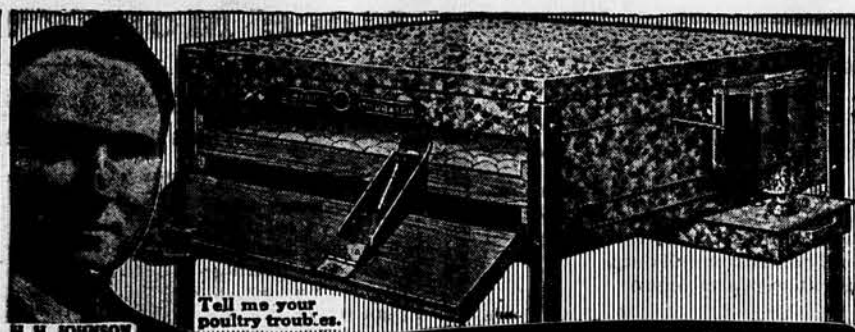
### A Few Wild Turkey Facts

There are three varieties of wild turkeys, the Mexican, North American and Honduras. The Honduras is a native of the tropics, and has a plumage equal in brilliancy to that of the peacock. Attempts to domesticate this turkey have not been successful. The domestic turkeys have been developed from the Mexican and North American varieties.

### And Leghorns for Him

I prefer the Leghorn chickens because they are better layers. Eggs are more profitable than meat. I have found that chicken raising for meat is not so profitable as for eggs. At this time of year you could purchase feed at market price for your chickens and make a profit from them.

Clinton Bishop.



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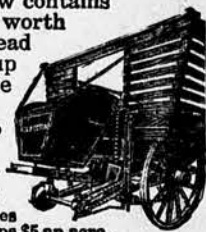
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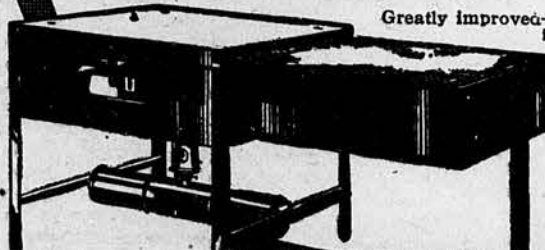
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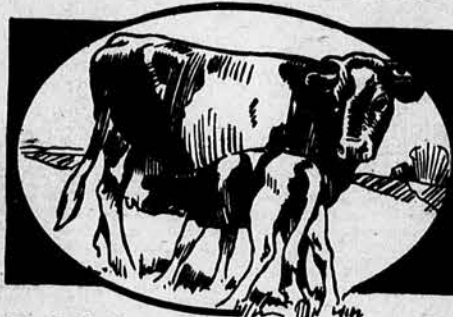
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(23)

## More Money from the Stock

Co-operative Shipping Associations Help to Increase the Returns Which can be Obtained from Farm Animals

### COMMUNITIES

in Kansas that have stock shipping associations are getting larger returns than where the old system is used. Grange communities have been leading in this co-operative effort. Especially good results have been obtained by the Granges in Woodson county in co-operative hog shipping.

A co-operative shipping association is an organization to take the place of the country buyer. The members believe they can market stock cheaper themselves than thru a buyer. They believe they know when their stock is ready to market, and that it is a needless expense for competitive buyers to drive out to look the stock over.

The capital required by such a company is small, as the Independent Farmer has shown, and the plan of organization very simple. A manager is elected who does the major portion of the work for the association. Often a certain day of the week is agreed upon as a regular shipping day. The members who have stock to ship notify the manager. He orders cars and attends to the details of shipping.

It is often necessary, and in fact usual, to ship in one car stock belonging to several men. One of the simplest methods of marking the stock is to clip the hair upon some part of the body with a pair of shears. For example, A's stock may be marked on the right side of the neck, B's on the left side, and C's on the right ribs. Sometimes a dab of paint is used instead of the clip.

Animals belonging to every shipper are sold separately, and the manager turns the proceeds over to him, less the necessary shipping and selling expense and a small fee which pays the running expenses of the association. Every man receives what his stock is worth on the open market, no more and no less. As the shippers do not receive their pay for stock until after the net returns have been remitted to the co-operative company from the terminal market, only a small capital is required. Every farmer finances his shipment; that is, he receives his net returns a few days later than if he had sold to a local buyer.

The Farmers' Business association of Arapahoe, Neb., is unique in its organization, in that no shares of stock are issued. Every member pays an entrance fee of \$1, and \$1 for every carload weighed over the association scales. These two items supply sufficient money to keep the yards, sheds, office, and water supply in good condition. Every shipper pays his share of the freight and selling expense on a car of stock and a small per cent to the local manager of the association. The secretary of the association wrote me a year or two ago: "We are credited with having one of the finest yards between Hastings and Denver. Our association has driven all competition from town, a sure sign that our system works well. Farmers pass their own town to ship thru us."

During last year the association shipped 108 cars of stock valued at \$132,000. The expense of operating the association was \$51.75. This does not include the small fee paid the manager by the shippers.

Practically all the shipping associations from which I have heard give favorable reports and continue their work from year to year. They can perform the service of selling livestock cheaper than any individual who is working for personal profit. In other words, the owner receives 100 per cent of his profit on feeding stock.

What about the country buyer who loses his livelihood because of the co-operative association? Will there be less of prosperity in the community because his work has proved needless? The greatest factor in human progress is the elimination of labor. Man is made more efficient by machinery, his powers enlarged by reducing the waste of energy, and added returns for labor performed allow him more of the comforts of life. Three thousand years ago 6 per cent of all human labor in the most civilized country in Europe was engaged in



grinding flour for bread, after the wheat had been planted, cultivated and threshed by wearisome hand methods. Today the grinding of flour employs a small fraction of 1 per cent of our labor. And we get very much better flour and pay the maker a very much higher price.

Are the men whom modern machinery has displaced lost to society? They are engaged in manufacturing bath tubs and books, electrical fixtures, furnaces, self-binders and automobiles, and many other conveniences but little known to the ancients. The men who receive the added price for their stock have more money to spend for things which add to the joy of living. Let the displaced stock buyer help supply these wants. No nation or community prospers because it has many men who are performing unnecessary work; some communities prosper despite such a handicap.

The farmers' shipping association is easily organized. The most that is required is stock to ship and a little confidence in one's neighbors. The results are increased confidence and larger profits. We usually like our neighbor when we know him.

A farmers' co-operative elevator may often add the shipping of livestock to its other work. It requires but little capital and only a small portion of the manager's time. If the manager says he is too busy, let him hire some assistance in his routine work. Where practically all members of the elevator company sell livestock it is better to use the established organization than to start a new one. In the past the term "business man" has seldom been used to include the farmer. It has been considered the function of the farmer to produce, while the business man should distribute the product. This condition will continue so long as each farmer markets independently of every other farmer. Co-operation permits the producers of any community to become the business men of that community, by uniting in the sale and purchase of goods.

In many communities every man who grows livestock knows that he receives just as good a price for stock as any of his neighbors. He has simplified the question of profit-making by eliminating the man between him and the packer. At the same time he is gaining confidence in his neighbors, because we all are selling together instead of in competition with one another. The livestock shipping association is worth while, not only because it brings larger profits, but also because it helps pave the way for rural credit associations and kindred co-operative organizations.

### Chronic Scours is Hard to Cure

I have a 6-months-old colt that has the scours, and has had ever since it was born. I feed alfalfa hay, with a change of good prairie hay, oats, chop and ear corn. The colt has run in bluegrass pasture and in the stalk fields. It keeps in excellent flesh. I put her in the barn every night, and on stormy days.

The chances are that if a colt has been affected with scours continuously for six months that the disease has become chronic and will be very resistant to treatment on account of the fact that extensive permanent alterations will have taken place in the structure of the digestive organs. The following treatment may be tried. Administer 6 ounces of castor oil mixed with 1/2 pint of hot water and cool the mixture down to a temperature where it can be given to the animal without injuring it. It is to be administered as a drench. Two or three days following this the following method of medication is to be instituted. The animal should receive morning and evening in the feed a powder consisting of 30 grains of tannic acid and 30 grains of salicylic acid. This remedy is to be continued until the diarrhea stops or if it causes the colt to lose its appetite I would advise that it be given only once daily.

Dr. R. R. Dykstra,  
Kansas State Agricultural College.



# Keep Bugs Out of the Milk

Dairy Cleanliness Means Fewer Bacteria and Less Disease

BY EARLE THOMAS

MILK contains a vast number of bacteria. As an example of this may be cited the average of the general milk supply of Washington, D. C., which contained 11,270,000 bacteria to the cubic centimeter, or less than a teaspoonful, during the summer of 1906, and 22,134,000 bacteria to the cubic centimeter during the summer of 1907. These are not extraordinary examples, but may be taken as a fair average of the general market milk of many of the larger cities. Such enormous numbers as those given above mean but little to the average person. By comparison it is found that few substances contain such large numbers of bacteria as does milk when consumed. Compared with sewage, a substance rightly supposed to teem with germ life, milk is often found to contain a larger number of bacteria.

## Two Groups of Bacteria.

In classifying the bacteria of milk it is best to divide them into two groups according to their action upon the health of the consumer of the milk. The first group will contain such bacteria as those causing milk to sour; those causing various bad odors and flavors, those causing the coloration of milk, and those causing a beneficial action in the manufacture of dairy products, such as cheese. The second group will include the pathogenic organisms, or those causing tuberculosis, diphtheria, typhoid, scarlet fever, and various other diseases which are communicated by means of bacteria; those organisms causing rosy or slimy milk; and the streptococci of which little is positively known, but which if found in large numbers reduces the quality of the product.

The number of bacteria in milk cannot be taken alone as an index to the quality of the milk, but, generally speaking, if milk has a high bacterial count it is undesirable for human consumption. The number of bacteria in milk depends on: the age, the temperature, and the cleanliness with which it is handled. As different organisms develop at different temperatures, the number may be small and yet may consist of the virulent disease communicating kinds. Usually, however, the smaller the count the more wholesome the product.

## Milk is Pure at the Start.

At the moment milk is secreted by the healthy cow it is absolutely free from bacteria, but the many sources of bacterial contamination to which it is subjected soon cause it to become bacteria laden unless strict attention is paid to preventing such exposure. Perhaps the most important of these sources is the cow herself. In many dairies the cows rarely are groomed, but soon become covered with filth, especially on the flanks. During the milking there is more or less movement of the cow, such as switching of the tail, which causes a shower of bacteria, some of which will fall into the milk pail. The milker also loosens small particles of the filth on the udder, which may fall into the pail and carry bacteria with it. In cases where the milking is done in small, crowded stables, the air becomes an important source of bacterial contamination. The cows are constantly giving off dust from their bodies, and in some dairies hay is fed just before milking, thus causing a cloud of bacteria laden dust to float over the barn. These bacteria may settle into any pail or can which remains in the barn during milking. The milker also is a notable source of contamination, because pathogenic bacteria are more liable to be found associated with persons than with animals. Such pathogenic bacteria may find entrance to the milk from the hands or clothing of the milker. The source of the water used for washing the milk vessels is very important, because it is here that many dangerous bacteria enter the milk. This supply should be from deep wells situated on high ground, free from surface drainage, and away from such sources of contamination as barnyards and vaults. The milk vessels may add bacteria to the milk if not properly washed and sterilized with live steam.

The first attempt to make a legal standard for the bacterial count in milk was made by the New York City board of health in 1900. This standard was that milk sold in New York should con-

tain fewer than 1 million bacteria to the cubic centimeter, but this was found impracticable and was abandoned. Boston, five years later, when conditions and methods were better, set the standard at 500,000 and has since maintained it. These standards are considered by some too high, by others too low. The number of bacteria allowable in milk depends on the purpose for which it is used, and varies with the locality. If milk is used for infant feeding it should of necessity contain fewer bacteria.

## Pasteurization Kills Bacteria.

Pasteurization is a measure resorted to for destroying the bacteria in milk after it has become infected. It is the heating of milk to a certain temperature for a definite period of time, these factors being governed by the thermal death point of pathogenic bacteria. As far as knowledge on the subject goes, this temperature is 140 degrees Fahrenheit, and the time about 20 minutes. As the temperature is increased, the number of bacteria is decreased with safety. The effect is to kill practically all the organisms. Experiments have shown the percentage to be as high as 98. One danger, however, is that if the few bacteria remaining should be of the disease communicating type, they would multiply rapidly, and those causing the souring of milk would be killed, and thus the consumer could not tell the age of the milk. The separating of the milk by centrifugal force has been proved to lower the bacteria count. In some experiments as high as 47 per cent of the bacteria were removed in the separator slime. The production of certified milk, or that containing less than 10,000 bacteria to the cubic centimeter is brought about by the observance of strictly sanitary methods of production and handling. Any man who expects to maintain a reputable business will use these methods.

## Try to Balance the Ration

Economy in feeding usually demands that as much of the ration as possible be made up of home-grown feed stuffs, especially with regard to the roughage. First, provide for all the good, clean farm-grown roughage that the cow will eat up clean, as the nutrients in roughages are generally much cheaper than in concentrated feeds.

Now consider whether the grain on hand is such as to make a balanced ration with the roughage used. Concentrates must be used because cows cannot consume enough coarse bulky feed to supply all their own bodily requirements, and have enough left for a large flow of milk. If the dairyman has plenty of alfalfa hay, he can balance his rations nicely with ordinary farm grains, such as corn, barley and oats. Five per cent of cottonseed meal or linseed meal added to this grain mixture will increase production.

If the roughage consists entirely of native hay, straw, corn fodder or corn silage, he still can use his homegrown grains but it will be necessary to use bran, cottonseed meal, or linseed meal also to supply sufficient protein. A good grain mixture in this case would consist of equal parts ground barley, ground oats and oil cake or oil meal.

If the roughage ration is of a mixed nature, such as 10 pounds of alfalfa hay and 30 or 35 pounds corn silage the dairyman might use a mixture of 2 parts corn chop, 2 parts bran or oats and 1 part cotton seed cake. These grain mixtures should be fed at the rate of 1 pound grain for every 3½ or 4 pounds of milk each cow is producing.

C. I. Bray.

## A Word for Brown Swiss Cattle

Brown Swiss cattle, as the name indicates, originated in Switzerland. They are remarkably strong, healthy animals, larger and coarser than any other dairy breed. While many individuals have made excellent dairy and milk records, the total number of the breed in this country is small and it has not, therefore, been as important a factor in the dairy industries here as it has been in Switzerland. The number of animals is rapidly increasing and the breed is receiving more attention from dairymen.

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Hand selected, Butted and Tipped, Shelled and graded, \$2.50 a bu.; 5 bushels or over \$2.00 a bu. Cash with order. As I have only a limited amount to offer, better order now and not be disappointed.

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Member Kan. Corn Breeder's Ass'n. Winner Corn Prize Panama Exposition. First Prize Seven Consecutive Years on Seed Corn.

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

C. S. Schmoker, Vernon, Tex., writes: "Compass Cherry-Plums bore a good amount of fruit the second year, although very dry here. Will plant more of these trees."

Trees and Seeds at wholesale prices. Apple Trees, 7 cents. Small fruits, Shrubs, Garden Seeds, Alfalfa, Clover and Grass Seeds. Seed and Nursery book free.

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HIGHEST MONEY-MAKER KNOWN—INVESTIGATE. The greatest forage plant that grows. Superior to all as a fertilizer. Equal to Alfalfa for hay. Excels for pasture. Builds up worn-out soil quickly and produces immense crops, worth from \$50 to \$125 per acre. Easy to start, grows everywhere, on all soils. Write today for our Big 100-page free catalog and circular about unhusked and scarified bulled sweet clover. We can save you money on best tested, guaranteed seed. Sample Free.

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25 Budded Peach Trees, \$1.00;  
25 Grafted Apple Trees, \$1.00,  
and many other bargains in exceptionally high-grade nursery stock. Vigorous, hardy, guaranteed. On request, we'll send you our illustrated catalog and a due bill for 25c free. Write today.

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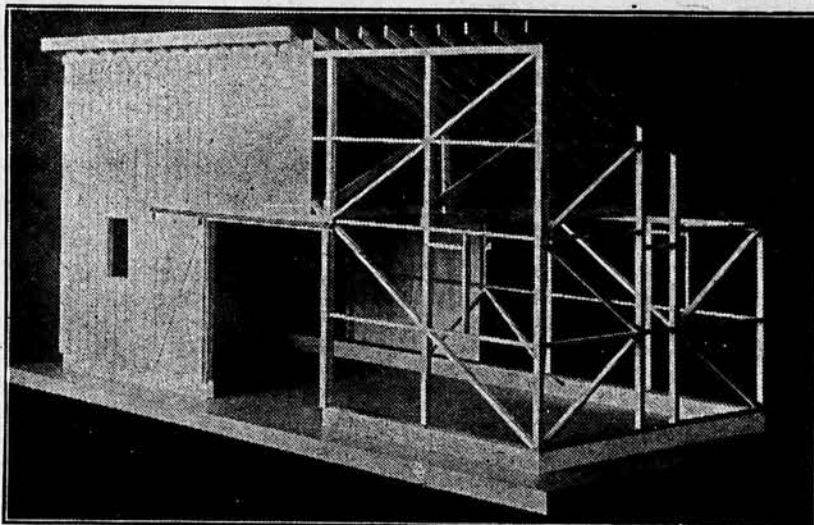
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Clover, Alfalfa, Sweet Clover, Timothy and all kinds of grasses and seed grain of highest quality. Samples and special price list free. Write today.  
**IOWA SHIELD BRAND SEEDS**  
Iowa Seed Co., Des Moines, Iowa

## Farm Buildings of Pine

BY K. J. T. EKBLAW



Suggestion for an Implement Shed. Such Structures Should Be Painted—at Least Two Coats.

A FAIR indication of the thrift and general prosperity of a farmer is the method he employs in caring for his tools. Shiftlessness, waste, lack of energy, constant buying and heavy burdens of debt will accompany poor care. Good care is an indication of shrewdness, business ability, long-lived machinery, bank balances and the assurance of a peaceful, prosperous future.

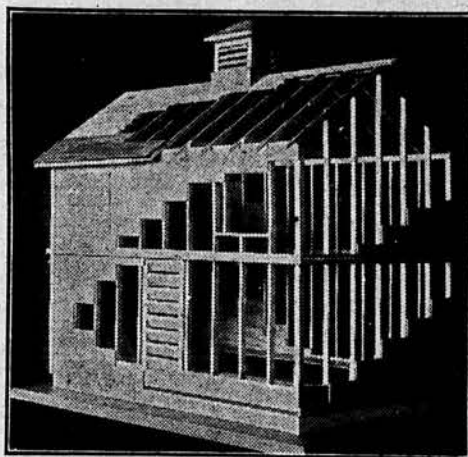
To the progressive man, figures speak more forcibly than does the most persuasive lecturer. The report of the United States Census for 1910 contains some figures that bear a distinct message to the farmers of the country. In 1900 the value of all farm implements and machinery was \$749,775,970; in 1910 this same value had increased to \$1,265,149,783, representing an increase of 68.7 per cent. This increase can be ascribed mainly to increased quantity rather than to higher prices, for the increase in price of farm machinery has been comparatively slight. It means that the farmers are realizing the benefits to be derived from the use of labor-saving machinery. In 1900 the acreage of improved land in farms was 414,498,487; in 1910 this became 478,451,750, an increase of only 15.4 per cent. These figures may be a little more significant if expressed in the following way: In 1900 there was \$1.80 worth of machinery for every acre of improved farm land; in

1910 this had increased to \$2.65, or an increase of more than 47 per cent.

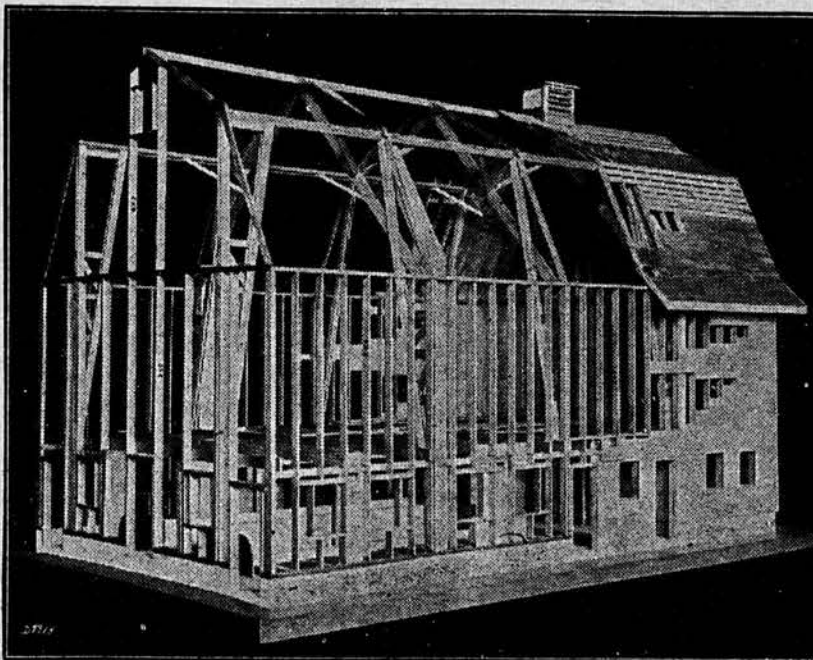
With so much capital invested in equipment, the American farmer certainly would be a very poor business man indeed if he did not take some means of protecting this equipment to reduce depreciation and to increase its length of life.

The needs of the average farm for a cheap, easily-built implement shed are met by the simple shed type. The framing consists of 6 by 6 posts set on a light 1:2½:5 mixture concrete foundation, at intervals of 8 feet, the plate consisting of two 2 by 6's. Short diagonal braces can be set under between the plate and the post to give the plate further support. The rafters for a span of 18 feet should be at least 2 by 6 and better 2 by 8, set not less than 2 feet apart on centers. The wall covering may consist of vertical siding, either 10 or 12-inch boards, with the cracks covered. For horizontal siding studs are necessary; these should be 2 by 4's, placed not more than 3 feet apart. Either drop-siding, German or novelty siding or ordinary weather-boarding may be used satisfactorily, but the latter is somewhat light for a building of this kind, and probably would not be so durable as the others.

Buildings for storing grain are of two kinds: granaries and cribs. As far as



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### HANDY WAGON

Low steel wheels, wide tires, make loading and handling easier. We furnish Steel Wheels to fit any axle, to carry any load. Plain or grooved tire. Catalogue sent free.

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For Large or Small Growers, 1 or 2 rows. Opens furrow, drops seed any distance or depth required, puts on fertilizer (if wanted), covers up, marks next row. Accurate, automatic and dependable. Operated by one man. Furrow is opened directly under axle and seed is dropped in plain sight of operator. Made of steel and malleable iron, assuring long life and few repairs.

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the general design is concerned, principles which apply to one type will apply equally well to the other. The main differences are that granaries must have tight walls and floors while cribs should have walls with air spaces which permit ventilation; cribs must be made narrower than granaries to make provision for the removal of the rather considerable amount of moisture which is given off by the drying corn.

Upon a solid foundation extending around on all sides of the granary are laid 2 by 10's on edges spaced 16 inches on center, upon which the floor consisting of matched boards is laid. The studs are placed at intervals of 2 feet. The plate consists of two 2 by 6's extending all around the building. The rafters are 2 by 4's. The rods are placed at the height of 6 feet from the floor and also just above the plate. To prevent the ends of the building from bulging it is necessary to put in ties lengthwise of the building also; these may be of wood or iron rods. A 4 by 4 placed as a belt entirely around the building gives added strength and provides a bearing for the heads of the tie-rods.

In building a barn too many persons start at the wrong end. A fixed dimension usually is considered, and then the problem is to get all the stock on the farm into this building. A better method is to consider the number of cattle or horses to be sheltered. Thirty-six feet is the commonly accepted width of a barn. Specifications and plans for the barn shown here may be procured free by addressing the extension department of the National Lumber Manufacturers' association, Chicago.

Wood floors are insanitary and last for a very short time. A good concrete floor, well drained, with a wood overlay, or well bedded, is entirely satisfactory. In constructing the wood overlay the boards should be laid lengthwise of the stall. It should be made to be easily removed, thus permitting cleansing. A concrete floor, to be satisfactory, must be finished with a wood trowel which will leave the surface rough enough to prevent the cows from slipping.

Barns are less likely to be damaged by lightning if rods are used. Investigations by the farmers' mutual fire insurance companies prove that the damage to rodless barns by lightning is low in comparison with the damage to unrodless barns. Many reports on the use of the lightning rod show that it is from 80 to 99 per cent efficient on farm buildings.

Paint, the great preservative, should be applied to all farm buildings. The first cost of two coats of good paint is not prohibitive; the durability of the wood may be increased almost indefinitely if the pores are kept closed to prevent decay. The prosperous farmer's buildings are always kept painted, not only to preserve the wood, but to improve the appearance of the buildings themselves.

On new wood, two coats are usually sufficient. The first coat should contain mainly oil, with a small amount of the base and coloring pigments, so that it will permeate every pore; the second coat should be heavier, containing less oil and more pigment. Surfaces that have been painted can be kept in good condition by the occasional application of a single coat.

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You can run the heater about two days before you must clean it out, and if the weather continues cold, I build a fire again. When we want to heat the water quickly, wood is burned, altho you probably could do it just as well with coals. Tank heaters are fine to take the chill off the water. J. A. Jackson.

"Say, pa, I had a fight with Billy Brown today."  
"That so? Did you whip him?"  
"Sure. You don't suppose I'd be telling you about it if I didn't, do you?"—  
The American Boy.

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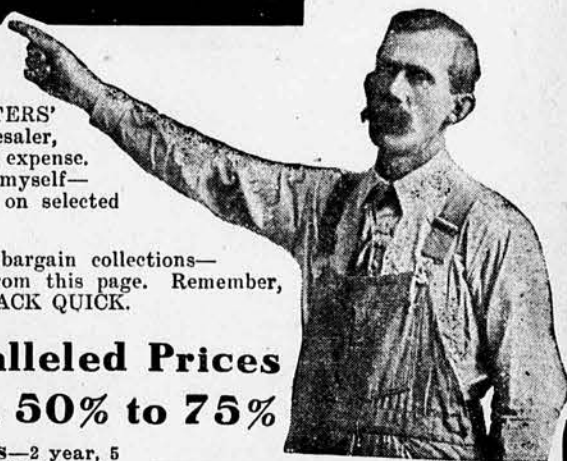
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	By mail postpaid, collect, f.o.b. Ark.	By express, charges collect, f.o.b. Ark.
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## A New Entertainment Idea

This "All-Hands" Party Will Delight Your Friends and Elaborate  
Preparations are not Required for It, Either

A PARTY where everyone helps with his hands to furnish the entertainment provides an evening of fun that is out of the ordinary. Make invitation cards in the shape of an outstretched hand, and merely say that you are bidding "all hands" to a party at the given time.

When your guests arrive, they should find in conspicuous places about your rooms finger-board guides marked: "This Way to the Dining Room," "This Way to the Cloakroom," "This Way to the Lemonade," "This Way Out."

A good game with which to start the evening is one that requires a sheet stretched tightly across a frame, with a small hole cut in it near the top. Have the girls go behind it and one after the other thrust a hand thru the hole. The young men are to guess the owner of each hand. After that has been thoroughly tried, the men go behind the screen and thrust their hands thru for the girls to guess. It is needless to say that all rings

part of the hand is often eaten? Lady fingers. What part of the hand is a good reference? Index finger. What famous woman had great difficulty in washing her hands? Lady Macbeth. What flower implies that a certain animal has hands? Foxglove. A little thought will suggest other questions of the same kind.

When the flight of time makes it necessary for your guests to follow the pointing finger that reads "This Way Out," doubtless "all hands" will go home grateful for a pleasant evening.

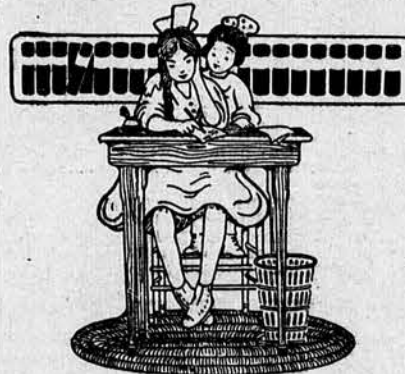
### Character in Reading

The Youth's Companion does more than entertain: it affords the reader a mental and moral tonic. Its stories are not only well told, contributed by the best writers of stories, but they maintain the standards, reflect the ideals of the best homes. They do not throw a false glamour over the tawdry things of life. Rather do they depict the courageous, the healthful, the simple—the true life of the greater number with their adventures, their conflicts of temperament, their failures and successes. In 1917 The Companion will print 12 serials and story groups besides fully 250 single stories and sketches, all for \$2.00. The Forecast for 1917, which will be sent on request, tells all about the great features of the coming volume.

By special arrangement new subscribers for The Youth's Companion can have also McCall's Magazine for 1917—both publications for \$2.10.

Our two-at-one-price offer includes:

- 1—The Youth's Companion—52 issues of 1917.
- 2—The Companion Home Calendar for 1917.
- 3—McCall's Magazine—12 fashion numbers of 1917.
- 4—One 15-cent McCall Dress Pattern—your choice from your first number of the magazine—if you send a 2-cent stamp with your selection.



should be removed. "Handy" articles like handkerchiefs, gloves and thimbles make suitable prizes for the most successful guessers.

Next, have each player draw the figure of a hand with his left hand. Apportion judges and award a prize for the best drawing.

A trial to determine the size of each hand is also amusing. Pass a bowl of nuts, and let everyone take as large a handful as possible. The girl who holds the most nuts wins a prize; so also, does the boy who seizes the largest handful.

Another feat suggested by a writer in the Youth's Companion, requires a bowl of beans placed at one end of the room. Let each player in turn go to it, thrust in his hand and see how many beans he can get on the back of his hand. He then walks around the room holding the beans in that position. The person who has the most beans on the back of his hand at the end of the promenade is adjudged the prize winner.

Again, let each player write as many quotations about the hand as he can in 10 minutes. The reading of the quotations is usually very amusing.

Still another test is to ask a series of questions about the hand. Of course, the hostess must prepare them in advance. Perhaps her list will be somewhat like this: What famous lover wished himself a glove? Romeo. What

### And the Flicker Didn't Forget

It is only a Flicker, whose anxiety not to be left unfed by the mother bird caused it to fall from the nest in the high oak, about 50 feet from the ground. Its parents had built their home in a rotting limb in which squirrels had been residing for several years until the season the Flickers came. Stunned by the fall, the little furry bunch of quivering life was picked up by a woman and carried into her kitchen where everything was done to restore it to consciousness. Bread, ants and worms, fed regularly, soon made the bird strong. Its plumage grew, and today it is a beautiful member of its tribe.

The little Flicker has not forgotten its benefactor, either, according to our Dumb Animals. At early dawn the door of the kitchen is opened and the little bird flies, no one knows where, but just as soon as the ruddy sun sets in the west it returns home to its roost. The two cats have been taught to know that the Flicker must not be touched. They pass it by, should it be feeding on the lawn, as tho it never existed.

### True Friendship.

They say that Friendship's hollow thru,  
And Love is hollower;  
But I have one sincere and true  
Devoted follower!

The neighbors see us "walking out"  
Together daily;  
They think no harm, but turn about  
To greet us gayly.

And "he" is handsome as a dream,  
Is oft repeated,  
But spite of all he does not seem  
One bit conceited.

He watches me all thru the walk,  
His dark eyes glisten;  
He seldom speaks—but when I talk  
He loves to listen.

Yet if a rival tries to steal  
A friendly greeting,  
His jealous language then, I feel,  
Won't bear repeating!

He likes to feel my fingers rest  
Upon his shoulder,  
He walks along with prouder crest,  
Erecter, bolder.

I hope you do not think me bold  
With all this folly?  
For I am only 5 years old,  
And he's my—collie,  
—Edith Harrison, in London Chatterbox.





## Start Right

Had I but known what now I know  
That went to school so long ago,  
I should have made the most of days  
I wasted in a hundred ways.  
I should have early buckled in  
A little lead on life to win;  
I should have known how much it meant  
To gather learning as I went;  
And all the things that I despised  
And left neglected, I'd have prized.  
Were I once more to go to school  
I'd learn each theorem and rule;  
Altho it made me twist and squirm,  
With honor I would start the term;  
I'd do the simpler lessons well,  
And then when harder tasks befell  
To master them I'd be equipped;  
'Twas there so often that I slipped;  
Tho eagerly I yearned to play,  
I'd get my studies every day.  
No rule or lesson now I know  
Was hard, unless I'd made it so;  
And when I studied as I should  
And closed the day with markings good  
With speed and ease I always wrought  
The problems that tomorrow brought,  
And had I known what now I know  
I should have studied long ago,  
For I have learned at bitter cost  
The lessons that I had and lost.  
—The American Boy.

## Here's a Clever Trick

Some of these long evenings when you are looking for something to do ask someone to open a book at any place and choose a word in the first nine lines of the page, not after the ninth word in the line. Then ask the person to multiply the number of the page chosen by 10 and to the product add 25 and the number of the line. The result thus obtained is in turn to be multiplied by 10 and the number at which the word stands to be added to the product. Have the person give you the figures last obtained and you can readily tell him what word he chose.

To obtain this surprising result all you have to do is to subtract in your mind 250 from the amount given you, according to the Kansas City Star. The last figure of the answer will give you the number at which the word stands in the line, the next one the number of the line, and the remaining figures the number of the page.

Suppose, for instance, that the person choosing the word had happened to choose the fifth word in the ninth line of the 84th page. The process would be as follows:

84 times 10..... 840  
340 plus 25 plus 9..... 874  
874 times 10..... 8740  
8740 plus 5..... 8745  
8745 minus 250..... 8495

And 8495, divided as explained, gives 84, 9 and 5, being the three clues necessary to the discovery of the word.

## Let's Work this Puzzle

There are 14 letters in the name of this tree and from these 14 letters the names of the objects in and around the tree can be spelled. 7-9-12-14 is an American coin; 12-6-5-11, the home of birds; 12-9-14, a snare; 14-6-12, a number; 13-4-12, a kind of vase; 8-3-10-6, a water tube; 2-1-11, a head covering; 4-3-10-6, a flower, 2-3-4-12-5, projecting



parts; 4-3-3-10-14-6-4, a male bird; 9-1-4, an organ of sense; 11-3-9-5, parts of the feet; 5-13-14-11-9-6, a Hindoo widow of old. What is the tree? Send in your answers to the Puzzle Editor of the Farmers Mail and Breeze, Topeka, Kan., by January 23. A package of postcards for the first five correct answers received.

## Ever Hear of These Firms?

A pretty good firm is Watch and Waite, and another is Attit, Early and Layte; and still another is Doo and Daret; but the best is probably Grinn and Barrett.  
—Woman's Home Companion.

Stop paying rent - Buy your own farm with rent money

Move Southwest to the prairie country of North Texas where land costs less and earns more ::

Twenty-dollar-an-acre land here has made 26% yearly on investment, if farmed right, compared with 6% on \$150 land in the Illinois and Iowa corn belt.

## Wheat Growing Pays

I came from Cooper, Missouri, to Ochiltree County in 1908. I had \$700, 3 mules, a mare and a cow. For some time I worked out. I then began renting land and growing crops. I have done well and now have 19 horses, 19 head of cattle, 8 milk cows and 40 hogs and have bought 320 acres of land.

I have about 200 acres in milo and other feed crops. The man who will attend to his farm properly need never have any crop failure. I am well pleased with what I have been able to do since I came here. I consider grain raising the most profitable. The average yield of wheat is around 15 bushels, but I have grown as much as 30 bushels to the acre.

D. K. Bauman,  
Ochiltree, Texas.

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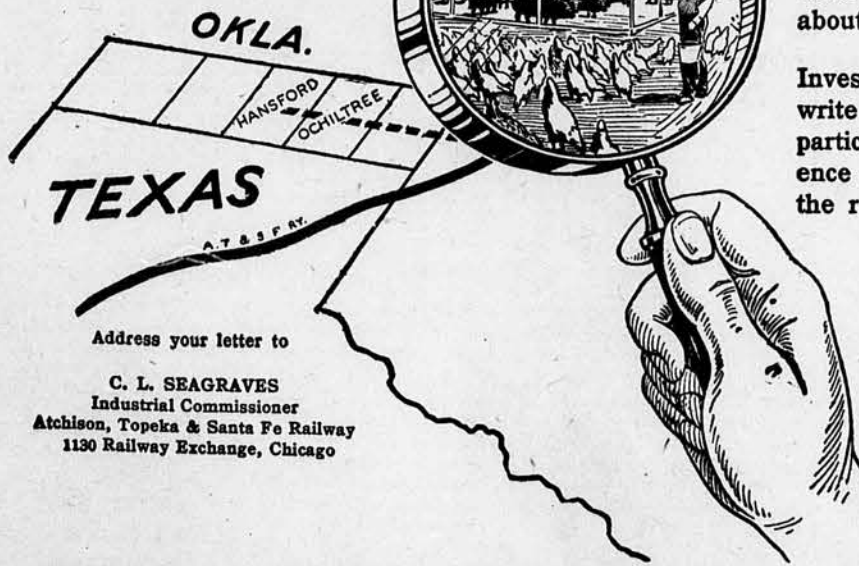
No guess-work about crops. Results are known, as others have pioneered for you.

Wheat, cattle and hogs are the three big money-makers here.

Let facts convince you. Read what farmers already there say about their success.

Invest 1 cent in a postal card to write me for our booklet with particulars. It gives the experience of farmers now there and the results they have achieved in a short time and on small capital. Surely it is worth 1 cent to GIVE YOURSELF THIS CHANCE — a real opportunity. I will promptly put you in touch with the owners of these lands.

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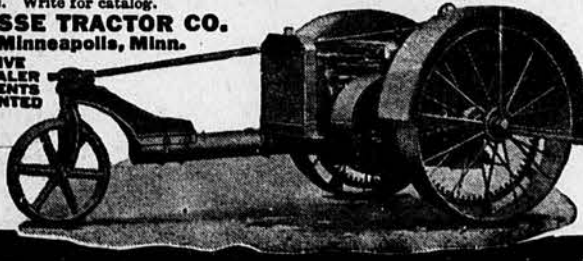


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These gloves are just the thing for automobile driving or work gloves. They are well made, pliable and durable.

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### Between the Days

Between the days, the lonesome days,  
When you are gone the whole week thru,  
I fold my hands and rest, sweetheart,  
Between the days, and think of you.

It helps me bear the lonesomeness  
To stop each day at set of sun,  
And strength and hope and life renew  
In dreams, my dear, when work is done.

And the I yearn to have you near,  
Yet just for this I sing my praise,  
That always your deep, tender love  
Abides with me—between the days.  
—Carrie L. Burton.

### Uncle Sam's Corned Beef

Beef which is to be corned should be cooled from 24 to 36 hours after slaughtering, but should not be put up when it is frozen. Plate, rump, cross ribs and brisket are the best pieces to use. Cut the meat into pieces about 5 or 6 inches square as near alike as possible so they will make an even layer in the barrel. A recipe sent out by the United States Department of Agriculture calls for 8 pounds of salt to every 100 pounds of beef. Sprinkle a layer of salt an inch deep over the bottom of the barrel, pack the meat in as closely as possible making a layer 5 or 6 inches deep, add another layer of salt and continue alternating salt and meat until all is used, reserving enough salt to make a thick layer on top. Let stand over night, then add for every 100 pounds of meat 4 pounds of brown sugar, and 4 ounces of saltpeter dissolved in a gallon of tepid water. Add enough more water to cover the meat which should be covered with boards and weighted down so that no part of the meat projects from the brine. It is not necessary to boil the brine except in warm weather. Keep the barrel in a cool place as there is sometimes trouble from the sugar fermenting if the brine is too warm. Watch the brine closely and if it appears ropy or does not drip freely from a spoon which has been inserted into it, throw it away, wash the meat carefully and add new brine. Meat should be kept in the brine from 28 to 40 days to insure thorough corning.

### What Your Thumb Shows

If you have a liking for reading the characters of the persons around you, notice their thumbs. Personality and force or weakness of one's nature are indicated as plainly by the thumbs as by any features of the face.

A long, straight thumb, square at the tip, indicates good mental capacity and the ability to carry out successfully any work with which the owner may be entrusted. The possessor of such a thumb has an even, judicial temperament, carries himself with dignity and overcomes difficulties readily by his tenacity of purpose. Thumbs long and thick and heavy at the tip indicate a tyrannical, cruel and selfish nature.

A short, straight thumb shows obstinacy and driving power. When such a thumb is very thick and heavy at the tip, a brutish, unreasoning disposition is shown.

Short thumbs tapering at the tip denote an inconstant, changeable nature, especially in matters concerning the affections. The owner of such a thumb lacks ability to concentrate and works only in spurts. He is unpunctual and often makes others suffer by his indecision.

A cautious, timid, mean nature is indicated by a thumb which lies close to the hand, while the owner of a thumb which stands away from the hand with a marked curve will be boastful, extravagant and even lacking in principle where money is concerned.

A thumb curving outward at the tip shows adaptability to persons and circumstances accompanied by natural politeness and a tendency toward making compliments. The owner is broad minded, impulsive, generous and easy going and is a good conversationalist.

If the first point—that which forms part of the hand—is full and fleshy, a warm, affectionate nature is shown; but if it is very full, the character will be lowered by sensuality.

### A Book That's Different

A rather unusual new book is "Child and Country" by Will Levington Comfort. The author, wearied of life in a great city, made a home for himself and his family along the shore of one of the Great Lakes where he could carry on his work in quiet and peace. There he learned the importance of using the great sources of Nature in educating and de-

veloping children. He relates in an interesting way his experiences in training his own children and other children in the neighborhood by using Nature and not schools. The ideals the book sets forth in child development will give many parents a new viewpoint. "Child and Country" is published by the George H. Doran Company of New York. Price \$1.25.

### To Open Fruit Jars

Never open a jar of canned fruit by running a knife blade under the top. The knife is likely to nick the edge of the top so that it will not seal tightly when used again. Invert the jars in hot water for a moment and the lids may be loosened easily. Effie M. Parks.

Pratt Co., Kansas.

### A Kitchen Hint

Housewives will find it a great convenience to keep one of the many catalogs that come to every farm family in the kitchen cabinet to set hot kettles on. When a leaf becomes soiled it can be torn off and burned.

Mrs. C. B. Davis.

Dickinson Co., Kansas.

### A Quiet Moment Helps

One mother began the daily habit of reading a portion of Scripture with her little son when he first started to go to school. Just after breakfast, no matter what else was on hand, they spent 10 minutes in the reading of the Bible. She felt that the quiet of this brief period would give poise and strength for his day's experience. He is now a high school boy, noted for his fine character and his love for, and ability to use good English. Mary E. Reuter.

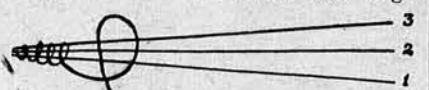
Perry Co., Pennsylvania.

### Making a Hair Switch

Please print directions for making a hair switch. N. R. ALFORD.

Neosho Co., Kansas.

A frame for weaving hair switches can be made at home from a board 24 inches long. Nail an upright at each end and drive a nail into the one at the left and three nails 1½ inches apart into the one on the right. Tie three threads long enough to reach across the board to the left nail and fasten one to each nail at the right, keeping them tight. No. 25 black linen thread is best. Tie another thread a little more than twice the length of the board to the nail at the left. Pull the combings apart, then grasp with the left thumb and finger



Threads Ready for Weaving.

where the hair seems thickest and straightest, and pull the snarls from both ends of the strand. Pull the uneven hairs with the right hand, letting them slip between the left thumb and finger and placing them so as to be as even as possible at one end. Lay the straightened hairs in bunches about the thickness of a match. The lower ends can be evened after the weaving is done.

Begin weaving by looping the long thread around the other three, putting it over the three threads, then bringing it down back of them and out over the long thread, making a loop like a writing e with the three threads running thru. This is the loop that fastens the hair. Make an inch of it.

Working with the top or even end of the straightened hair, put a strand of about a dozen hairs under thread No. 1, over thread 2, under thread 3, over thread 3, under thread 2, and over thread 1. The short end should be left about 2 inches long so as not to comb out or make uneven work. Slip to the left close to the loops and fasten with a single loop. Continue until the weaving is long enough to make a strand of the desired thickness and fasten the end the same as the beginning.

Begin at the lower end of the woven strand and turn the fastened end under, tacking it with needle and thread to a round, firm black shoestring. Wind the woven edge of hair round and round in spiral form over the shoestring, fastening as you go, until near the end of the weave. Then make a loop in the end of shoestring and finish fastening the woven hair. The loop is large enough for a hairpin. Many weavers use a small silk cord instead of the shoestring as it is more pliable.

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or resort to snuff and vapors—they only irritate the delicate membranes.

Modern science proves catarrh a symptom of poor health.

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### How to Get These Dollies Free

Send us a yearly subscription to Capper's Weekly at the regular rate of \$50, and these three dolls, one big one and two smaller ones, will be sent by return mail.

CAPPER'S WEEKLY, Doll Dept. 4, Topeka, Kansas

When writing to advertisers be sure to mention Farmers Mail and Breeze



## Your Boy—What about Him?

Don't Mind Noise if Your Son is Happy and Busy

BY JANE JULIAN

**W**HAT ABOUT that boy of yours? The one who is so noisy; the one who is forever getting into something; the one who keeps you so busy? Wait a minute. You say he keeps you so busy? Whose place is it to prepare busy work? Now you have it. It's your place, of course. You must keep him busy. More times than not, that is all he wants. Let him "whoop and holler" all he likes, but do a little planning before you tell him to start in.

Every boy should have a hobby. If yours has none, help him to select one and let him ride it on the run from one point of interest to another. It may be base ball, tennis or some other outdoor sport, but he should have some indoor amusement also to fall back on for rainy days. Some boys enjoy using the hammer and saw to make things for them-

factories in the Eastern part of the United States, but this is far from being the case. Most of the reforms made along this line have been in factories, and conditions have improved greatly in the last 10 years. It is the children employed in some form of agricultural work who are in greatest need of help. Nearly three-fourths of our child laborers (1,431,254 between the ages of 10 and 15) are working in cotton fields, sugar beet fields, onion fields, cranberry bogs and so on, and the reform movement has done nothing for them. In Colorado, where the National Child Labor committee investigated sugar beet fields last year, 5,000 children between 6 and 16 years of age lose from two to 22 weeks of school annually because they are compelled to work in the beets.

The child labor committee does not mean to imply that children on farms should do no work. It is conducting a campaign to see that no child is compelled to miss his chance of an education because he is compelled to work when he should be in school. Farm women's clubs will do well to give the matter serious attention. Plan to have a discussion of child labor at the club meeting that day. Full information for papers and discussion may be had free by writing to the National Child Labor Committee, 105 East 22nd St., New York City.



Let Your Boy Have a Hobby.

elves or for the house. Let a boy of this sort have a real workshop if you can, but let him work in the kitchen if you can do no better. Boys are worth more than tidy kitchens anyway, and he can learn to clean up his muss when he is thru.

Give your boy useful work as well as play to keep him busy. The play hour usually should follow the work hour, but don't be too unbending. Never keep a boy scrubbing, turning the washing machine or hoeing the garden when there is a circus parade in town. Be wise and get a lot of work done beforehand on the strength of his going. He will enjoy it all the more for having earned it.

When a boy sees a circus his enjoyment is not ended until he tells his family about it and it is the family's downright duty to listen and thus keep up the measure of his pleasure. Some persons cannot get it into their heads that they owe their boys anything. A month or two without boys might bring them to their appreciative senses. Many a boy is the life of his family. He keeps them from getting into a rut by introducing variety. He carries the current news to the slow ones at home. His fine enthusiasms over little discoveries keep the family awake and thinking.

Did you ever make a list of the things you have learned thru your boy's powers of observation? Take my word for it, you are in his debt and it is not becoming for you to feel too superior toward him. The wise man or woman who is so fortunate as to be able to mingle with inquiring, energetic and enthusiastic boys will not mind a little noise but will be thankful for the fine exhilaration of learning new things.

### Plan for Child Labor Day

A national child labor day will be observed by clubs and schools thruout the United States on January 29, 1917. The day will be observed in churches on January 28. This day has been called a "look-around-you day" by the National Child Labor committee and those interested in the movement are urged to study child labor as it exists around them.

Many persons have the idea that the child labor evil is confined mostly to

bust measure, is made with yokes at the front and back.

Skirt 8124 is cut in four gores and closes at the side front. It is cut in sizes 24 to 30 inches waist measure. These patterns may be ordered from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents each.

### A Man's Idea of It

BY LELA W. BARRETT

A woman complains that you don't understand her and gets furious if you do. A woman resents her husband's admiration when he thinks she looks well in last season's gowns.

Sometimes it's money in pocket not to have any there.

No matter how good a woman may be she hates to be called amiable, or estimable.

When a woman says she has an appetite like a bird, she sometimes means an ostrich.

You can't make a hit with a woman by taking her home the playbills.

### Patterns You May Need

Ladies' Dress 8100 is cut in sizes 36 to 42 inches bust measure. It has the new long-waisted effect, a two-piece gathered skirt and a pretty square collar.

Waist 8102, cut in sizes 36 to 44 inches



## Ask Yourself This Question

It is important for reasons of health and practical economy for every housekeeper to ask herself this question:

"Do I prefer a pure baking powder like Royal or Dr. Price's, made of cream of tartar derived from grapes, or am I willing to use a baking powder made of alum or phosphate, both derived from mineral sources?"

The names of the ingredients printed on the label show whether the kind you are now using or any brand, new or old, that may be offered is a genuine cream of tartar powder, or merely a phosphate or alum compound.

Royal Baking Powder and Dr. Price's Cream Baking Powder are free from alum and phosphate and leave no bitter taste.

## A Big Washing With Little Work

That's the result when you use 20 Mule Team Borax. It softens the water—it helps the soap do its best work—it whitens the clothes and makes your linen take a glossier ironing. But the laundry is only one of the many places where



## MULE TEAM BORAX

has a big use. Take the kitchen for instance. 20 Mule Team Borax makes dish washing easy. It cuts the grease—puts a shine on china and glassware. And in the bath tub you find this Borax a splendid soother, pore cleanser and antiseptic.

### 20 Mule Team Borax Soap Chips

Soap in chip form. Saves you soap cutting. Blended in the right proportions, one part Borax to three parts of pure soap. Not a substitute for Borax but a time, labor and money saver that will pay you to use every wash day. See the picture of the famous 20 Mules on each of the above packages. Sold by all dealers.



## The Farmers' Flashlight Free

This lamp should be in every home. A push of the switch floods the darkness with a brilliant, steady white light. It is built for lifetime use; size 1 1/2 x 2 1/2, vulcanized fiber case, non-shortcircuit, with nickel plated trimmings, slide switch for either flash or continuous light.

Extra large reflector, bullseye lens 2 1/2-inch diameter which increases candle power and spreads light. Uses standard 2-cell renewal battery. It is rapidly displacing the unreliable lantern for every purpose. There is no danger from fire and no matches are needed. It is perfectly safe around gasoline, hay, or any inflammable materials. Do not risk fire in your barns, but be on the safe side and use a flash light. Just the thing for doing chores. This gives you the cheapest light you can possibly get, for one 25-cent battery will last for many months.

**Mail and Breeze Free Offer** We will furnish you with one of these lamps carefully packed free and post-paid if you will send us only one 3-year subscription to Farmers Mail and Breeze and \$2.75 to pay for same. If you are at present taking the paper we will extend your subscription for three years.

FARMERS MAIL AND BREEZE, Dept. HL, Topeka, Kansas

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Nurses  
Boys—Girls  
Everybody



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National Refining Co.: The White Rose Gasoline that I procured from you has proven very satisfactory. Your National Carbonless Motor Oil gives my motor 100 R. P. M. more power.—(Signed) RUTH LAW. Keokuk, Ia., Oct. 5, 1916.

National Refining Co.: I have been buying oils for a number of years. My repair bills for burning out carbon were \$3 about every three months. My attention was directed to your oils through the word "Carbonless," and although skeptical, I placed an order for a barrel. Although this is more than a year ago, my car has not been in the garage for carbon or lubrication troubles since, and it runs smoother than ever. (Signed) E. S. FAUTH. DeSoto, Mo., July 12, 1916.

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Proved highest quality by years of most practical tests and use. Guaranteed clear, clean, carbon-free. Lubricates perfectly without carbonizing. Guaranteed to eliminate costly repair bills, caused by friction, and to give perfect satisfaction in any make of automobile, motor boat or power engine. Try it.

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Absolutely superior to any other and goes twice as far as ordinary grease. Won't spoil. Packed in useful galvanized pails. Friction-free, wear-resisting. No compound to clog and gum. Wagons last much longer and the load

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The leading grease for automobiles. Also for use in screw compression cups, crank pins, cross heads, valve motions, eccentrics, slides, pillow blocks, main journals, and in all heavy open bearings. Try it.

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## TOM McNEAL'S ANSWERS

Will you please tell us how road overseers are chosen; when they are chosen, and what is the length of their term of office?  
Kanopolis, Kan. W. L. R.

The township trustee, treasurer and clerk of the township constitute the township highway commissioners who have the power to appoint the road overseer for the township except in counties which have a county engineer. In that case the road overseer must be appointed with his consent. Cities of the third class, however, are made separate road districts and have the power thru the city council to select their own road overseers. The term of office of the road overseer is two years. The term begins whenever the appointment is made. The compensation of a road overseer is \$2 a day.

### Utilities Board.

Please inform me as to the number of members of the utilities commission and who they are.  
Ames, Kan. G. M.

There are three members of the board, J. L. Bristow, C. S. Foley and John M. Kinkel.

### Licenses.

I am thinking of taking the agency for a washing powder. Please inform me if I need a license for such work.  
F. L. W.

If you expect to work in the country, no. The incorporated towns, however, have the right to fix a license fee if they desire. If you expect to sell the washing powder in the town you would better ascertain first whether there is any city ordinance requiring you to pay city license.

### State Officers.

Will you please publish the names of the new state officers?  
GLADYS COWLES.

Governor, Arthur Capper; Lieutenant-governor, W. Y. Morgan; Secretary of State, J. T. Botkin; Auditor of State, Fred Knapp; State Treasurer, Walter Payne; Attorney General, S. M. Brewster; Superintendent of Public Instruction, W. D. Ross; Superintendent of Insurance, Carey J. Wilson; State Printer, W. R. Smith.

### Farm Loans.

Concerning the Farm Loan Act. Can a man owning a farm in any state apply for a loan on his farm? I have a No. 1 improved farm, in Webster county, Missouri, worth \$8,000, on which I wish to get a loan of \$4,000 if the rate of interest is cheap. If I can apply for a loan what is the address to which I may write?  
Enterprise, Kan. G. E. H.

The machinery of the Farm Loan Act has not yet been put in motion. The Farm Loan Board has just selected the cities which are to have the land banks. No loans will be made until these banks are organized and established in business.

### I Stand Corrected.

In reading the Farmers Mail and Breeze December 18, we find that you advised T. C. J. of Valley Center, Kan., that "both wheat and corn are on the free list; this of course applies to grain shipped from both Canada and the Argentine Republic." This is wrong. Canada wheat is admitted to the United States only upon 10 cents a bushel duty. This wheat would be admitted free if the Canadian government had no duty against United States wheat as the United States admits grain free from duties from foreign countries providing these foreign countries have no import duties against the United States grain. This reciprocal feature has been overlooked when you gave T. C. J. your answer. Of course the Canadian wheat duty is remitted to the United States buyer, when it is proved that the wheat or wheat product has been exported out of the United States, but this drawback of duty paid is not allowed when the Canadian wheat is used for final distribution in the United States.  
Winfield, Kan. G. CLINTON ADAMS.

### It's Her Property.

A woman purchased a quarter section of land. Afterward she married and is living on the land with her husband. The title to the land still remains in her maiden name. In a case of this kind can the husband hold part of the land or does it belong to the wife during her life time, and who would inherit it after her death? Should the title be changed to her present name and how would you go about it? How could it be fixed so that the husband would inherit it after her death? She wishes to keep it in her own name as long as she lives.  
MRS. A. M. L.

The property is hers absolutely while she lives. If she dies without will and leaving children, her husband would inherit half of the land and her children the other half. If she leaves no children her husband would inherit all her estate. She can will it all to her husband or she can will half of it to him and the other half to whom she pleases. There is no need for her to change the name in the deed.

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Save 60% on Robes and Coats by sending your hides to "Ede Tanned"—same as largest manufacturers do. Ede Safety Tan. Only tan that will not waste or shrink your hide with alum. Produces robes 10 sq. ft. larger—worth 85¢ per sq. ft. to you. Only tan that destroys all disease germs and is approved by Government Inspectors. Guaranteed for life. Ede Ship-Safe System. Recognized by railroads as only safe way to ship hides. Ends losses, theft, delays. You can ship a thousand miles as safely as ten. Ask for it. Prices 12 1/2 to 50 Per Cent Below Others. Because we produce 35¢ of America's Custom Tanning, we can save you money. Write for Beautiful Catalog L., illustrating Ede Furs. Agents: If no Ede agent in your town, write for special proposition.

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**WEIL BROS. & CO.,** Box F, #2, FORT WAYNE, INDIANA.

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## What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO

### It Is Smallpox.

We are having a good deal of disease that has an eruption a good deal like chickenpox, but people get it that have already had chickenpox. It is not so very bad, but our local doctors, who did not know at first what to call it, have been informed by the state board of health that it is smallpox, so they are putting a quarantine on it which is very annoying. Please tell me what the disease is so we may escape this great annoyance. J. J. S.

I can answer this from personal experience. We had a very similar condition of affairs about 15 years ago. The disease was so mild that doctors doubted whether it could be smallpox. Many persons had just one or two papules and not more than a day's illness. It was diagnosed as chickenpox by some, but the favorite name was Cuban Itch, as it was supposed to have been brought back by the soldiers from Cuba. As it spread it seemed to gain in virulence, however, and very soon it took on unmistakable features of smallpox. It was not long before it began to take its toll of human life, and then the state board of health declared there was no such disease as Cuban Itch, and suspicious cases of that character that were not chickenpox, must be diagnosed as smallpox. No doubt the officials of the board recall their past experience and are trying at this time to make a positive ruling before the death stage is reached.

### Take Exercises.

Mrs. M. F. F.  
I doubt whether "treatments" of the kind you mention ever are worth the money. A disturbance that can be cured by such a treatment, given every two or three days, will get well of itself if helped by a cleansing douche. Neither should I advise an operation for you at present, since you say you are getting better. Practice daily light exercises that will strengthen the abdominal muscles, such as bending over, with knees straight, and touching the floor six times; lying full length and raising to the sitting position six times, standing on tiptoe and swinging from side to side with hands on hips. Avoid lifting any heavy weights or any straining work. Try the "knee chest" position every night for 10 minutes. Aside from these exercises try to forget your condition for six months. If not markedly better by that time, have the operation.

### Inflammatory Rheumatism.

I have something wrong with one of my legs. My doctor called it inflammatory rheumatism. It started about July 15 in my shoulder as a pain that became intense about July 22. I went to bed where I remained eight weeks. My leg became affected the first week in bed. Since then my arm has got all right, but my leg is still as bad. I can walk very little. When I step on that foot it hurts the cord in the back of the hip and when I go to put the foot forward it hurts the cord in the inside front of the leg. It seems to cramp and when the cramp goes out it leaves the cords sore. Sometimes the cords hurt when I take a breath and hold it a second. The leg hasn't very much strength. I am a man of 26 years and have always had the best of health until this. I have no disease of the blood. What is wrong with me and what shall I do? R. V. F.

I am inclined to agree with your doctor's diagnosis of inflammatory rheumatism, tho a long distance diagnosis of a case like this is not very satisfactory. Sometimes such an attack is very slow in clearing up and requires the patience of Job. I think your doctor should make careful examination to see that there is no collection of pus to keep up the infection. Such might be around the teeth, in the tonsils, a diseased appendix, a prostatic or rectal inflammation, or a condition of the kidneys. If anything of the kind is there it must be cleared up before you can get well.

### "Red" Meats.

Please say why we are always forbidden to eat "red meats" in rheumatism. Does this mean that I can eat all the chicken, turkey or bacon I want? L. B. S.

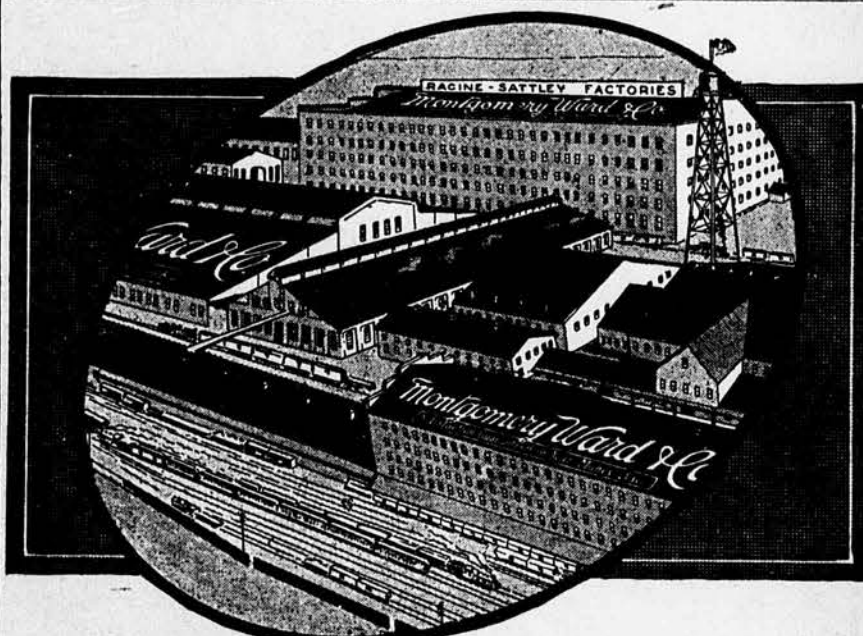
It probably grew out of the idea that red meats were more decidedly nitrogenous than any other kind. As a matter of fact this is incorrect. If a patient is to avoid proteins he must leave chicken off the list as well as beef. Meats other than red show just as great a percentage of protein on chemical analysis, excepting only those that are fat.

"Can you tell me what a smile is?" asked a gentleman of a little girl.  
"Yes, sir; it's the whisper of a laugh."  
—Answers.

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**The Cattle Enjoy This Weather**

As soon as the weather turns cold again a great deal of butchering will be done. Since the first of the year the weather has been mild, and the cattle have enjoyed it. Many sales are being held now. In some counties there is plenty of moisture for the wheat, in others rain or snow is needed.

**Ellsworth County**—Cold and fair. Snow about melted. The last snow and rain brought the most moisture we have had since harvest. Not much field work of any kind being done. Lots of wheat being marketed.—C. R. Blaylock, Jan. 6.

**Edwards County**—Have had a light snow since our last report, but wheat still needs moisture. Very little wheat pasture, yet stock seems to be doing well. Some wheat being marketed. Wheat \$1.77; corn \$1; butter 35c; eggs 35c.—G. A. King, Jan. 6.

**Ford County**—Fine winter weather. A good rain is needed for the wheat as the snow of a week ago made little moisture. Most of the stock is still on wheat pasture with plenty of straw to help out. Wheat being marketed at \$1.74.—John Zurbuchen, Jan. 6.

**Dickinson County**—Weather nice and warm. A fine wet snow fell a week ago and supplied plenty of moisture. Wheat is looking well. Farmers are cutting wood and butchering. Quite a few sales and everything sells well except horses.—F. M. Lorson, Jan. 7.

**Osborne County**—Fine weather since the cold wave. A good snow fell New Year's Day, but is all melted now, giving much-needed moisture to the wheat. Ice-houses are filled with 6 to 10-inch ice. Livestock doing well. Wheat \$1.80; corn 90c; eggs 30c.—W. F. Arnold, Jan. 6.

**Chautauqua County**—December was quite a cold month, the thermometer registering zero two or three times. A nice rain about a week ago supplied moisture for the small grain. Livestock doing well, although feed of all kinds is very scarce. Prices of everything high.—H. B. Fairley, Jan. 6.

**Geary County**—Fine weather since the first of the year. Frost is coming out of the ground and roads are bad. Lots of moisture for wheat. Wheat \$1.78; corn 86c; rye \$1.30; oats 52c; eggs 33c; fat hogs \$9.25. Livestock doing well. Pig crop will be short next spring.—O. R. Strauss, Jan. 6.

**Coffey County**—Very cold at present. We have had several light snows, but it has been too cold to snow much. Cattle doing well and there is plenty of stock water. Hay fair and good price, from \$7 to \$8.75 baled. Shipped in corn 90c on track; shipped in oats 60c on track.—E. F. Opperman, Jan. 5.

**Pottawatomie County**—Fine weather now. A number of snows have fallen, but not enough to help what little wheat is sown here, and some of it is now eaten up by Hessian fly. Farmers only hauling feed and doing general chores. A large acreage of oats will be sown. Corn 80c; butter 30c; eggs 32c.—S. L. Knapp, Jan. 5.

**Ottawa County**—Wheat is looking better since the wet snow of December 31, which was the best moisture-maker this winter. Many farmers are hauling the remainder of their wheat to market at \$1.78 a bushel. Coyote roundups are being held in the southern part of the county with great success. The gripe is abroad in the land.—W. S. Wakefield, Jan. 6.

**Anderson County**—Weather warm and pleasant. Farmers are busy getting wood as coal is so high-priced that it is cheaper to burn wood. Quite a good deal of butchering is being done and lots of farmers will be without hogs when the family's supply of meat is laid in. Cattle are increasing in number, and good dairy cows are worth \$75 to \$100. There is a good chance for a milk condenser to be established in this county. That will mean more cows.—G. W. Kiblinger, Jan. 5.

**Cloud County**—The old year closed with two or three inches of wet snow which melted and gave us plenty of moisture. The condition of the wheat is uncertain as it is not showing up well yet. Livestock is generally doing well as weather is favorable, but feed will be scarce before grass comes. Not many fat hogs and but few cattle on full feed. More public sales than usual at this time of year. There is little variation in prices of grain, potatoes, etc., but everybody is complaining of the scarcity of eggs.—W. H. Plumly, Jan. 5.

**What Kansas City Pays for Eggs**

(Owing to the fact that this paper is necessarily printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication.)

Quotations at Kansas City follow:  
Eggs—Current receipts, \$11.50, new white wood cases included; firsts, 39 1/2c bid, 41c asked; storage, 33c bid, 34c asked. Butter—Creamery, extra, 40c a pound; firsts, 37 1/2c; seconds, 36c; pound prints 1c more; packing stock, 27 1/2c. Live Poultry—Broilers, 20 1/2c a pound; springs, large, 15 1/2c; medium, 17c a pound; young roosters, 14c; old roosters, 12c; hens 3 1/2 pounds and over, 17c; under 3 1/2 pounds, 16c; turkey hens and young toms, 25c; old toms, 23c; ducks, 15c; geese, 14c.

New York, Jan. 6.—Butter—Stronger; creamery, extra, 40 @ 40 1/2c; firsts, 36 1/2 @ 39 1/2c; seconds, 35 @ 36c. Eggs—higher; fresh gathered, extra firsts, 49 @ 50c; firsts, 47 @ 48c; seconds, refrigerators, 31 @ 34c. Poultry—Dressed, chickens, 19 @ 26c; fowls, 15 1/2c @ 28c; turkeys, 20 @ 32c.

Chicago, Jan. 6.—Butter—Steady; creamery, 33 @ 39c. Eggs—Steady; at mark, cases included, 32 @ 40c; firsts, 39 @ 40c; ordinary firsts, 35 @ 36c. Poultry—Steady; springs, 18 1/2c; fowls, 15 @ 18 1/2c; turkeys, 22c.

Quotations at Kansas City follow:  
Prairie, choice, \$11.50 @ 11.75; No. 1, \$10.50 @ 11; No. 2, \$9.50 @ 10; No. 3, \$8 @ 9. Lowland prairie, \$5. Timothy, No. 1,

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\$13.50@14; No. 2, \$12@13; No. 3, \$10@11.50. Light clover mixed, \$13.50@14; No. 1, \$12@13; No. 2, \$10@11.50; Light clover mixed, \$13.50@14; No. 1, \$12@13; No. 2, \$10@11.50. Clover, No. 1, \$13@14.50; No. 2, \$11@12.50. Alfalfa, choice, \$21@21.50; No. 1, \$19.50@20.50; standard, \$16@19; No. 2, \$14@15.50; No. 3, \$11.50@13.50. Straw, \$6.50@7. Packing hay, \$6@7.50.

Last week's top prices were up more than 30 cents from the low level reached December 21, and only 6 to 9 cents under the tip top prices of the season, that were made November 13. The trade is very nervous over the conflicting aspects of the situation, but underlying every other factor is the widespread feeling that wheat will be very scarce in this country before another harvest.

The defiant reply of the Allies to Germany's proposal for peace negotiations, gave a stimulus to speculative buying early in the week, which was augmented by the persistent export demand. The subsequent setback was due mainly to reports from Washington that the President still is endeavoring to find some basis on which the warring nations can consider propositions for ending the war. Doubtless the market will continue to be highly sensitive to the fluctuating opinions and developments toward peace.

The Liverpool wheat quotations remained all week unaffected by the rise in American prices, but that circumstance was attributed to the restricted market in England, owing to government control of all supplies.

Corn for May delivery reached a new high level, a dollar a bushel, in Chicago, 1/4 above the previous top, reached November 13, from which a setback of about 10 cents occurred. The Kansas City May price did not quite reach last November's top price. The close showed about 6 cents net gain for the week.

Last week started livestock prices at the highest levels ever known at the beginning of a new year, and with the exception of sheep the market showed added strength as the week advanced. Killers say prices a hundred weight are not only unusually high, but that the low killing percentages are making the cost of beef higher than at any previous time in the history of the market. Hogs sold up to \$10.55, steers up to \$11.50 and lambs up to \$13.50 in Kansas City. Less than the usual amount of feed has been used in making weight this year, and killers assert they have been unable to buy any cattle that dress as much as 60 per cent, few hogs that go above 85 per cent "full dress," and that lambs kill out 3 to 4 per cent less than normal. In most cases steers are killing 56 to 57 per cent and cost \$8.75 to \$9.75. This market is no exception to the low dressing percentages, and the "poor kills" are the result of farmers and feeders turning livestock to market with the least possible feed.

January does not rank as a high priced month for livestock. The previous record price in Kansas City for steers in the first month of the year, \$9.25, was paid in 1914, and in only two other Januarys was as high as \$9 paid. Last January the top was \$8.75, and in only two Januarys previous to 1913, in 33 years, was the top above \$7. And in 30 Januarys it was \$4.50 to \$6.90. Last January the top price for hogs was \$8, in 1914 it was \$8.50 and in 1910, which was the high year previous to 1916, the January top was \$8.75. Prior to 1910 the January top was \$8, and in 30 years up to 1909 only seven Januarys showed at top above \$6. The low top of the last 36 years, \$3.50, was paid in January, 1897. Sheep and lambs show about the same low comparisons with the present high prices. The top price for lambs last January, \$10.75, stood as the January high record up to this week, but in most Januarys lambs have sold under \$8 and the low top was \$4.25 in 1895.

Prices for fat steers are up 15 to 25 cents. Receipts were fairly liberal for this season of the year, and killers made fairly large purchases. A few loads sold at \$10.75 to \$11.50, in the weighty class, and other steers sold at \$8.25 to \$10.50, mostly under the 1,200-pound weights. Killers want weight. Cows and heifers were in active demand and mostly 25 cents higher. The best cows brought \$9, heifers, \$10.25, and steers and heifers mixed, \$10.50. Veal calves sold up to \$11.50.

Because of the high prices for fat cattle demand for stockers and feeders was active with prices 15 to 25 cents higher. Countrymen are meeting killers' competition in the fleshy feeder classes, paying \$8.50 to \$9.

Compared with two weeks ago hog prices closed 15 to 20 cents higher. The receipts were some larger than the preceding week, they were small compared with a year ago. The total supply at the five Western markets last week was 422,000, or 209,000 less than a year ago.

Receipts of livestock last week, with comparisons, are here shown:

	Last week.	Previous week.	Year ago.
Cattle—			
Kansas City .....	31,550	14,850	33,500
Chicago .....	51,500	47,400	47,900
Five markets .....	142,875	101,950	138,625
Hogs—			
Kansas City .....	45,600	35,750	33,150
Chicago .....	200,000	195,000	334,000
Five markets .....	422,300	366,650	651,450
Sheep—			
Kansas City .....	35,750	30,000	36,775
Chicago .....	56,500	50,000	91,000
Five markets .....	155,650	131,650	193,575



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Keep the cow's udder free from irritating conditions and the milking will be easier the yield better. Bag Balm is a soothing, penetrating ointment that quickly heals all cuts, chaps, bruises, sore cracked or injured teats. A sure relief for caked bag, and useful in treating bunches and stricture.

Large 50c package, sold by druggists and feed dealers. Ask for free booklet, "Dairy Winkles."

**Dairy Association Co.,**  
Lyndonville, Vt.



**Smallest Bible on Earth**

This Bible is about the size of a postage stamp and is said to bring good luck to the owner. Sent free if you send 10c for three months' subscription to our big magazine.

**HOUSEHOLD,** Dept. B2, Topeka, Kan.

### Sunday School Lesson Helps

BY SIDNEY W. HOLT.

Lesson for January 21. First Disciples of the Lord Jesus. John 1:35-51.

Golden Text. Jesus saith unto him, Follow me. John 1:43.

At a place near Bethabara fords were found on the East bank of the Jordan river. This was where the crowds gathered to hear John the Baptist preach his wonderful sermons on repentance. All teachers, rabbis, or preachers of that period were surrounded by an inner circle of disciples. These disciples were able in a measure to represent their masters in speaking in the synagogues, answering questions and undertaking journeys of a missionary nature. No teacher ever assumed his office in Israel without such a group of followers, for it was thought a sin for any rabbi to be at any time without someone to instruct in the law.

Now, among the followers of John the Baptist were John, the man who is writing this Gospel, and Andrew both were natives of Bethsaida, a fishing village on Galilee.

The multitudes attending such gatherings as the Baptist called forth were wont to build temporary shelters of flexible rods bound together with twigs, their striped outer cloaks thrown over the boughs for a cover. That someone had offered Jesus a share in such a shelter is a most plausible conclusion. He was ready to begin His public ministry and had permanently given up the obscure life of Nazareth.

One day as he mingled with the crowd, the Baptist standing a little apart with John and Andrew said, "Behold the Lamb of God." While a great deal of the Baptist's wondrous testimony concerning the Messiah had been lost on the multitude these two followers were waiting anxiously for His appearance. They heard the Baptist proclaim Him and feeling the Divine attractiveness in their hearts they hastened away from the Baptist's side to follow Jesus. They were eager to speak to Him, but as they came nearer they were embarrassed. Jesus, hearing the rapid steps behind Him, turned and judging with the quick instinct of sympathy that He was being sought for the first time, spoke to them and asked what they were seeking? In their sudden confusion, instead of answering the question, they asked another. "Rabbi, where dwellest Thou?"

The simple words "Come and see" were both an invitation and a promise of fulfillment. Soon they were with Him where He dwelt and the day passed all too quickly. His teaching and His whole being had excluded all other thoughts. Not a shadow of a doubt lingered about the Messiahship, and henceforth they were His loyal followers, but a joy to be perfect must be shared with someone; as they listened to His message of mercy from the Father they thought of their brothers. Andrew went first to bring his brother Simon, and this proved to be the greatest act of his life, the bringing of Peter to Christ.

Of the parents of Andrew and Simon Peter we know nothing, but John and James were the sons of Zebedee and Salome, the sister of Mary, the mother of Jesus.

If St. John was the beloved disciple, Peter was the disciple who loved Christ, and his distinction lies not in the qualities of his mind but in those of his heart. He was ever impulsive and ardent, leaping before his companions and often speaking unadvisedly, and incurring rebuke. This, however, was only the weakness of his strength, and warm and generous affection. The one blot on Peter's life story is his denial of Jesus in the courtyard of the high priest's palace, but the situation was really a trying one, as at that time it was dangerous to be associated with Jesus or his followers, and Peter's impetuous nature was prone to panic. We must always remember that it was his devotion to Jesus that exposed him to the temptation. If he sinned greatly, he suffered greatly and it was only Peter and John who had nerve enough to follow their Lord out of Gethsemane.

Teacher—"Johnny, can you tell me what a hypocrite is?"

Johnny—"Yes, ma'am. It's a boy what comes to school with a smile on his face."

—Brooklyn Citizen.



## A Business Proposition.

In all progressive farming communities modern and systematic business methods are rapidly supplanting guess-work and mere tradition in the handling of soils and live stock.

Wherever you see fertile fields, good buildings, comfortable homes, silos and improved live stock you know you are among farmers who are builders, not wreckers.

It is in the midst of surroundings that indicate the presence of knowledge—which is power—in the handling of farm problems that you will invariably find **The Breeder's Gazette.**

To be a member of a "Breeder's Gazette Club" in any community is to establish at once the fact that you are studying your business, and keeping yourself—and your books—posted right up to date.

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Great Northern Railway has just issued two beautifully illustrated descriptive bulletins. One describes opportunities in irrigated lands in West Okanogan Valley at the foot of the beautiful Cascade Mountains—fruit-growing and diversified farming paradise. Three crops of alfalfa first year after planting. One-third of entire new irrigated area settled in past year.

**Investigate the Profits Made** in Wenatchee North Country. This year's fruit crops amazing. Alfalfa—corn—a great stock-raising country. Small tracts mean big profits. You can buy on easy terms. Be sure to read Wenatchee North Country Booklet. Either or both books about Washington's garden spots mailed on request. Write me personally.

**E. C. LEEDY,** General Immigration Agent  
Dept. 179 Great Northern Railway, St. Paul

## BUY AN ENGINE ON YOUR OWN TERMS.

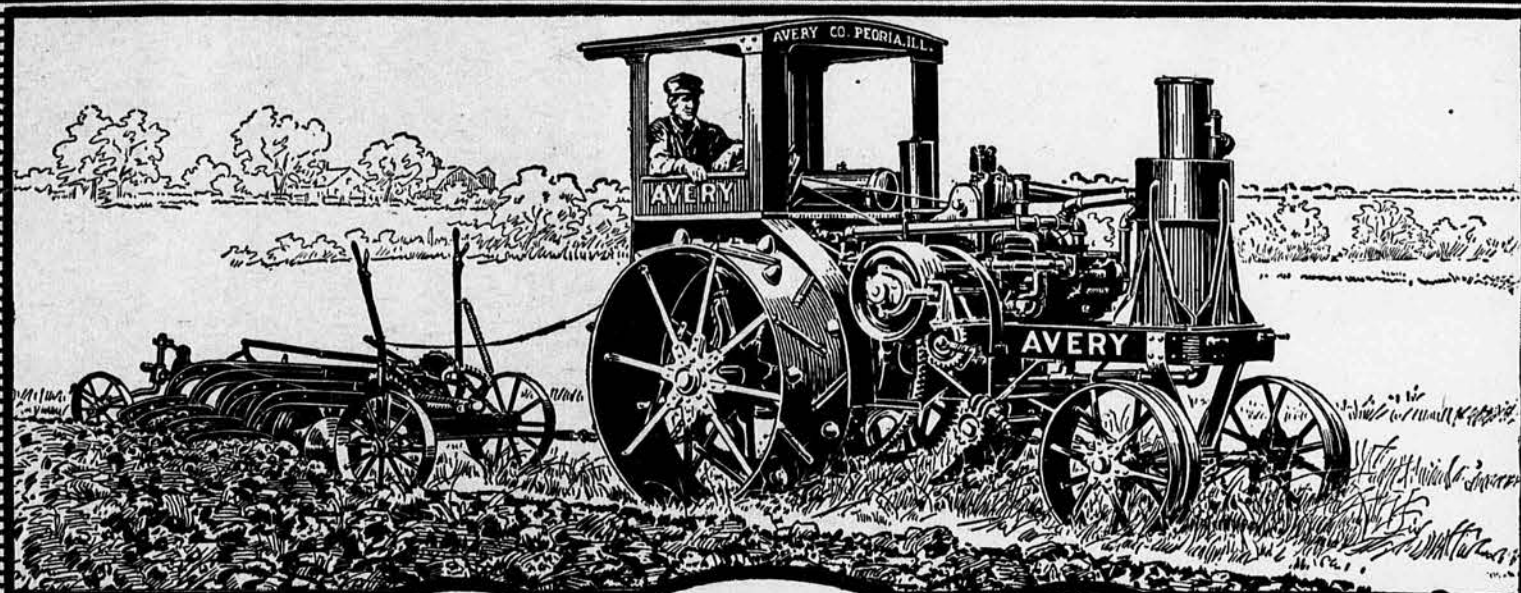
30 Years of success in making and selling my high-grade engines enables me now to sell direct to the user on practically his own terms. Any worthy, creditable man anywhere in the U.S. can accept my offer, and be sure of a reliable engine at direct from factory prices.

## WITTE ENGINES

are made in sizes 2, 3, 4, 6, 8, 12, 16 and 22 H.P.—Kerosene or Gasoline. Particularly adapted for farm and shop. Hundreds in use in every state. My Free Book, "How to Judge Engines," explains fully by printed word and illustration, what you should know before buying.—Ed. H. Witte, Pres.,

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## The Only Standardized Tractor Design

**I**T may sound rather strong to say that Avery Tractors are the only make having a standardized design, but the facts clearly prove it. Avery Tractors are the only make built in five sizes (a size for every size farm) all having exactly the same design. There is practically no other make of tractors where there are more than two sizes of the same design. Some companies building four or five sizes of tractors have as many different designs as they have sizes. Most companies building new sizes of tractors are building them of a different design from their former sizes, which is clear proof that their former design was not satisfactory and the best that can be said of any new design is that it is an experiment.

But when the Avery Company builds one size tractor and after thoroughly testing it out, builds another size, and then another, and then another, and then another, until it has five sizes all of exactly the same design, it is unquestionable proof of the success of that design.

This one fact, that Avery Tractors are the only make built in five sizes all of the same design and that Avery Tractors are being sold by the thousands every year, is proof in itself that you get a tractor with the right design when you get an Avery. Avery Tractors proved themselves to be

### Genuine KEROSENE Burners

by burning kerosene through all of the eight National Tractor Demonstrations last year.

Burning kerosene, however, is only one of many advantages you get in an Avery Tractor.

You get an opposed motor that is the most successful tractor motor built—a crankshaft so strong that no owner has ever broken one—renewable inner cylinder walls, an exclusive feature of Avery Tractors—you get a patented sliding frame and all spur gear transmission which is the simplest and strongest tractor transmission made. No sprocket chains or bevel gears are used.

You get four ground wheels with two speeds and a double drive, not a single speed, single drive or three wheel construction—you get a tractor that has no intermediate gear or shaft, no counterweights on the crankshaft, no water pump, no fuel pump, no fan, no mechanical lubricator, no belts, no sprocket chains.

You can get an Avery Tractor in any one of the following regular sizes—8-16, 12-25, 18-36, 25-50 or 40-80 H. P.—and a special smaller size tractor rated at 5-10 H. P. We also build and sell plows in sizes to fit all size tractors and threshers in any size to run with 8-16 to 40-80 H. P. Tractors.

There's a size Avery Tractor and Plow to fit every size farm and a size Avery Thresher to fit every size run.



## You Get REAL Service After You Buy An Avery

The Company behind your tractor is a more important consideration to you than it is with any other machine. A tractor fills a most important place in your farm operations. You must be able to keep your tractor running when you need it.

When you get an Avery you get a design that's so simple and strong that most men require few repairs and no help. The Avery design was so nearly correct at first that we have not had to spend time changing it, but have been able to put all our effort during the past five years on perfecting the original design.

It has been put to the hardest tests known—Avery Tractors are the only make entered in every Winnipeg Contest and every important Plowing Demonstration in this country.

The Avery Company has its own Branch Houses located at convenient points where we carry large repair stocks and maintain a force of trained service men.

## Learn Latest Tractor Farming Facts

You will find real information about tractor farming and about tractor design and construction in the new 1917 Avery Catalog. Get ALL the facts. Write for a free copy and name of nearest Avery dealer.

**AVERY COMPANY**  
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# AVERY

**Tractors and Plows—6 Sizes—Fit Any Size Farm**





# Confidence

**THE** unseen merit in a tire determines its mileage value to you. This is why you must have the confidence that goes with the Firestone name. Confidence in the in-built quality—the hidden values which make Firestone Tires deliver Most Miles per Dollar.

## Firestone Tires

**Red Side Wall—Black Tread**

This color combination (the trade-mark of Firestone Tires) is another reason for your confidence. It shows that all the extra refinements, fine looks as well as service, are yours with Firestone Tires. Your safety, economy and riding comfort are all safeguarded by this "Word of

Honor," Firestone name, which gives you the assurance of personal responsibility.

**Free Offer**—A Firestone Cementless Tube Patch free, if you will send us your dealer's name, and the make of your tires. Ask also for copy of our book, "Mileage Talks," No. 29

**Firestone Tire & Rubber Co., Akron, O.—Branches and Dealers Everywhere**

### Do Students Pray?

A mother's Christmas gift led to Journalism students in the University of Kansas being assigned this week to gather information and write articles on the attitude of students in the university and other colleges toward prayer. A book, "The Meaning of Prayer," by Harry Emerson Fosdick, was the mother's Christmas gift that caused Frank B. Thayer, an instructor in the department of journalism, to give the assignment to his students.

"I attended Oberlin college, where there is a religious atmosphere, before going to a state university," said Mr. Thayer. "My association with students here and elsewhere has convinced me the moral life of the University of Kansas is as sound as that of other universities or denominational colleges. Half of our students are voluntarily students of the Bible. Few institutions without required Bible study can show such a record, and you won't find a finer lot of boys and girls anywhere. That little Christmas book on prayer made me think of letting the students carry this subject a little further in their practice work."

### Sorghums That Have Won

(Continued from Page 1.)

is the success A. L. Stockwell of Larned has obtained in the breeding of Black-hull white kafir for both forage and grain. He obtained a strain of seed grown originally by the agronomy department of the Kansas State Agricultural college, and planted it on his farm in the bottoms of the Arkansas River near Larned.

The aim on this place is to grow kafir silage for sheep. The crop is grown under irrigation, and some abnormally high yields have been produced; 23½ tons of silage an acre was obtained in 1916 from the seed that had been selected. A variety test was run in connection and the yields for all other varieties were much lower. The high yield is explained on the basis that Mr. Stockwell had the Black-hull white seed well adapted to the conditions on his place, and he had bred it for several years with a definite ideal in mind.

There is a big need for breeders of the sorghums all over the state, who will work along the lines followed by Mr. Stockwell, and select the seed in the field. A great deal of the seed did not mature last fall, and there was a need for men to select the early heads. An especially good opportunity is presented for this work in Northwestern Kansas. There was but little head selection generally, and as a result it will be difficult this year to get seed adapted to the local conditions.

If one will string the heads that are selected on a wire and hang them up in any dry place, such as at the top of a bin, the seed will dry out, and go into the winter in good condition. If the heads are piled up they are likely to heat.

After the seed is selected the next thing of importance is to harvest the rest of the crop so the greatest value will be obtained. This requires the use of a silo on most places. In Western Kansas especially, where there is such a variation in the yields from the sorghums, a more extensive use of silos is needed greatly. In years of plenty the silage can be saved for the years of famine. Storage space for silage may be obtained in a pit silo at a low cost; as a rule a direct cash outlay of \$18 or \$20 is all that is required, in addition to the labor, for a 100-ton silo.

When the crop is cut with a corn binder and the weather is wet it is a good idea to shock in small shocks, to avoid heating. In some casesreshocking is required even then in the eastern third of the state. After the grain is threshed it should never be placed together in considerable quantities unless it is quite dry.

The acreage of the sorghums is increasing in Kansas. This gain is coming on merit. It will grow with the years, for the sorghums have a larger adaptation to the agriculture of Kansas than they have been called on to fill.

### To Show the Tractors

The annual thresher and tractor show will be held at Wichita February 22 to 24. The exhibit of machinery will be far larger than ever. The show will be in charge of the Wichita Thresher and Tractor club, of which F. G. Wieland is secretary.

## COMBINED FEED COOKER—SCALDING VAT

### A BIG MONEY MAKER

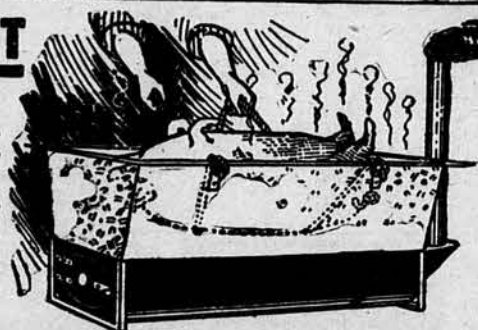
Should be in service on every farm. Is used for cooking grain, mashes, vegetables, all waste products, etc.; and for scalding hogs; heating water for all purposes; rendering lard; making soap; preserving fruit; heating out-buildings, and a score of other uses.

**THE VAT** is removable from the furnace and is made of best grade No. 20 gauge galvanized metal. Has heavy rope hooks for use when scalding hogs. It is 30 inches wide at top, 24 at bottom, 18 inches deep and 6 feet long. Capacity 150 gallons. Has extra false bottom to prevent sticking to bottom while cooking.

**IT PAYS TO COOK FOOD FOR HOGS AND POULTRY** Cooked food fattens them in less time and saves half the cost and is free of disease germs. Cold food retards digestion and its full food value is not obtained.

**THE FURNACE** is made of range steel and has round bottom. It is reinforced around top and has angle iron legs. Vat sets on it. Fire box full length. Has heavy cast iron door with draft regulator. Burns anything—cobs, chunks, etc., has removable grates for burning coal. Four feet of smoke stack furnished.

**ONLY \$25.00** for this handy cooker and vat **FREE** PRE-PAID to your station. You cannot invest \$25.00 to better advantage. Order one today. Pay for it when it arrives. Also for sale by most good dealers.



**WRITE US** Ask for Special Prepaid prices and illustrated folder. It's brim full of highly interesting information on indestructible hog troughs, feeders, sheds, smoke houses, automatic waterers with oil burning heaters. **WRITE TODAY.** If your dealer don't have them give us his name.

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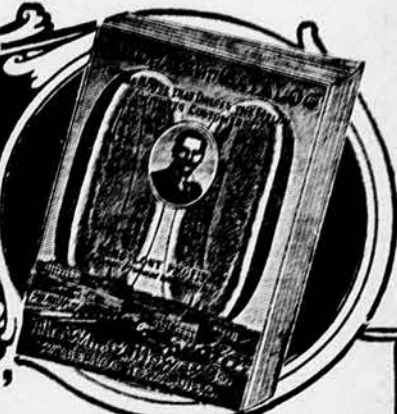
Drilling Water Wells is a profitable, healthful year-round business. There are wells all round you to be drilled. Don't you want to get into a money-making business for yourself? Write for particulars.

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Made Easy—Bigger crops—better farms with  
Farm Ditcher & Road Grader  
10 days' trial. Money-back guarantee. Cuts ditch to 4 ft. Grades roads. All Steel—Practical—Adjustable—Reversible. Cleans ditches, cuts and works out dirt at same time. Does work of big machines. Soon pays for itself. Write for free booklet and introductory proposition. Owners: Ditcher & Grader Co., Inc., Box 140, Owensboro, Ky.



# LET 1917 BE A YEAR OF GREATER SAVING ON QUALITY GOODS



"The best separator I know how to build."  
—Wm. Galloway.

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By making better farm implements in greater quantities and selling them at the lowest possible prices. My prices on the highest quality Cream Separators, Gasoline Engines, Motors, Spreaders, Tractors, etc., that I manufacture in my own chain of factories right here in Waterloo include only the cost of raw material, the skilled labor that is required to produce them and one small profit, based on enormous volume. I sell these goods direct to you—from FACTORY TO FARM—without a single dollar of expense in selling through the ordinary salesman-jobber-dealer methods. My motto is NO LOBBY PROFIT BETWEEN PRODUCER AND CONSUMER. Galloway prices have not advanced more than the cost of the increased cost of first-class materials and the expert labor that it takes to turn out high-class gasoline engines, cream separators, motor spreaders and tractors. I was the first manufacturer to offer a high-grade gasoline engine direct to you at one small profit. I built the first high quality spreader and sold it direct at a reasonable price. I was the first bona fide manufacturer of high-class cream separators to build and sell direct to you on the farm, cream separators as good or better than you have been paying fancy prices for. The whole story about the growth of the Galloway Institute, the policies and selling plans on which we sell high-class goods, the growth of the great chain of Galloway factories, the story of the MILLIONS OF DOLLARS OF SAVING I have made directly and indirectly for the farmers of America is told in Galloway's 1917 catalog. To get this book, to read it, to study it means that 1917 will be a year of great saving for you and it will prove that I am STILL DIVIDING THE MELON WITH MY FRIENDS AND CUSTOMERS. Ask for this book today. Read the advertisement below. Please state what you are interested in buying and I will send the book free by the first mail.

## MY NEW 1917 SANITARY CREAM SEPARATOR

Is NOT SKIMMING in skimming ability, in beauty of design, in the fine material which goes into building, in workmanship, finish or the lasting satisfaction that it will give every user. By any cream separator on the American market. Remember, that we took four years to design and perfect this separator—its build into it every good cream separator feature. It has not been built down to a price as many separators have been, but instead has been built up to a high standard in our own factories right here in Waterloo. Don't get fooled on separators only assembled by cheap manufacturers and sold at figures you can't believe. Galloway side by side with cheaper machines and you will see the difference in material, workmanship, down-to-date design and skimming quality. It is the highest priced machine—test them side by side for months and you will see that higher priced machines will not run any easier or skim any closer, cannot be more perfectly sanitary, nor better built.

### TRY IT 180 MILKINGS ON YOUR OWN FARM!

Note its few strong, simple, sanitary parts. See how easy to wash and clean—no sharp corners. Bowl catches any foreign matter in the milk while skimming. Only two shafts in the whole gear train, both of high-carbon steel, in long, perfectly fitted bearings. You will find all four shafts and both bowl and bearings supported by one casting—the gear case. This means perfect alignment, little wear and easy running. All working parts run a way or out. Note that the cream shelf drops when not in use—that it forms a vice to hold the bowl while handling. I just want you to try this separator. If you like it, buy it. If you don't, send it back. We pay freight both ways. If the new Galloway Sanitary is as good as I say

it is you can't afford to buy any other kind. If it is not as good as I say it is I could not make this 30-day (180 milkings) trial offer, and I could not afford to guarantee IT TEN YEARS, nor make

## EVERY SALE BACKED BY A \$25,000 BOND

Ask for Galloway's 1917 catalog today. I want you to have this book. It tells how we build Galloway Sanitary Cream Separators from the ground up. How they are designed, and the story of how we perfected this wonderful cream separator. It gives many separator secrets and facts. Check full of dairy wisdom. Why by setting direct I can make a machine as good or better than many high-priced separators sold through the three and four profit system and sell it for much less.

### My Book Is Free to You

It tells the whole story. It tells the facts. It will settle the separator question for you. ASK FOR IT TODAY and mention cream separators.

## MASTERPIECE ENGINES FOR 1917 INCLUDE EVERY SIZE-STYLE

motors. Double ball governor, never sticks, regulates speed perfectly. Large, heavy flywheel. Large bore, long stroke, heavy weight, perfect balance. Galloway engines will not rack and tear themselves to pieces like high speed engines. Perfect lubrication, winter or summer. Magneto (extra) supplies blue-hot sparks. Make and break Galloway lighter, never miss a fire. EASY TO START—no cranking, needs no batteries. Cylinder and water pot frost-proof. Compare the 1917 Masterpiece engine size for size, bore, stroke, weight and low speed (which means easy running and long satisfactory engine life when in your own hands. My

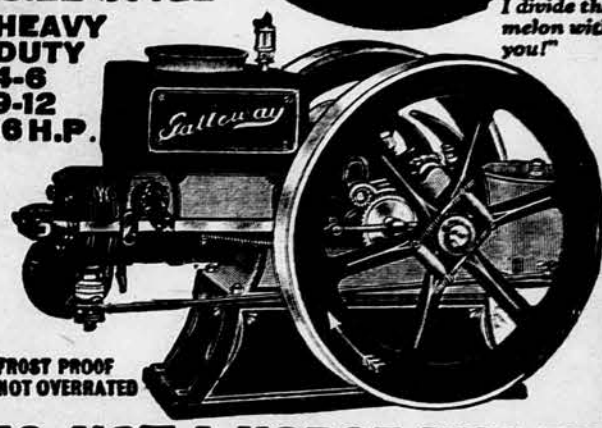
### FIVE NEW SELLING PLANS NOW READY!

Buy on your own terms—cash or time—any way to suit you. That's how I sell all Galloway products. My 1917 book describes each plan in full. Tells how to pick out, size up and judge an engine.

Tells why to insist on SERV TRACTOR. Laid out LONG STROKE and LOW SPEED. How to lay out and build a cheap, efficient power house. Why our prices are so low considering quality. This book will guide you to saving upwards of \$250 or even more in fitting up a complete farm power house. That is why I want you to get it.

ASK FOR MY BOOK TODAY  
Please mention engine in writing.

HEAVY DUTY 4-6 9-12 16 H.P.



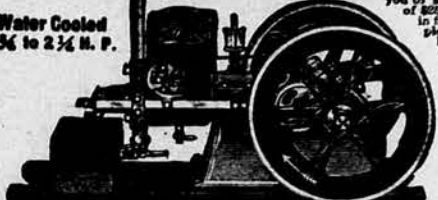
"Yes sir, I divide the melon with you!"



Four New Sizes—Skimming Capacities 375, 500, 750 and 950 lbs. per hour  
Get my new 1917 Wholesale Prices

## HERE ARE THE 1917 IMPROVEMENTS!

Galloway Masterpiece engines for 1917 are masterpieces of mechanical construction. My new simplified, improved models are masterpieces in engine design, built by master engine builders, of superior materials—every part standardized, interchangeable, reliable. All Galloway engines develop WAY ABOVE RATED H.P. Bearings adjustable. Economy carburetor, worth \$15 more on any engine—costs nothing extra on the Galloway—cuts down fuel bills. Valves in the head, exactly like high class automobile



Water Cooled 3 1/2 to 2 1/2 H.P.

## 1917 EFFICIENCY TRACTOR

Users call it the wonder of all farm tractors. It is unlike other tractors for we have eliminated unnecessary friction and built it along automobile lines. How far and how easily could you go in your automobile if it had an axle like your farm wagon or your mower? The Galloway Efficiency tractor is built with anti-friction bearings, twenty-one sets of Hyatt roller and ball bearings—which save engine power for the draw bar and the pulley—where power is really needed. By actual dynamometer test the Galloway tractor only takes 13-12% of the motor's power to drive the tractor unloaded. On many tractors it takes from 30 to 50% of the engine power to propel themselves. A ONE-MAN TRACTOR—OTHERS ASK \$500 MORE!

This new tractor has a four cylinder, valve in the head, modern motor, water cooled; all working parts protected. 28 h. p. on the draw bar and 20 h. p. on the pulley guaranteed. Turns short. Weighs 5,200 lbs. Transmission a unit with the motor. We have exclusive manufacturing rights on this patented transmission. Will pull three 14-in. bottoms 8 to 9 in. deep in clover or timothy sod. Will do any portable engine job—sawing, mowing, mowing, corn shelling, shredding, handles a 28-in. grain separator, any kind feed grinder, a pumping or irrigation plant. Double chain drive. Engine runs in tight oil-bath case. Rear wheels 38 in. high. Famous Pierce governor on the motor—engine never races. Only two levers control it. Complete description of this wonderful farm tractor in my new 1917 book.

Wm. Galloway Co., Waterloo, Iowa.

Le Mars, Iowa, November 15, 1915.

Gentlemen: I have tried it out in every way and it is right up and coming. I have run an ensilage cutter with it, filling a silo 16x32 ft. two-thirds full in 4-5 hours and it was play for it. I have plowed in all kinds of soil, stubble, backsetting and clover sod and wild prairie sod. I can pull the three plows 8 inches deep in the prairie sod and do it with ease. I know it has power enough to pull four plows in stubble. It is very economical on gas and oil. After the demonstration here three different parties here told me it did better work than at the Pleasant plowing match.

My new catalog illustrates and describes this tractor in full. Ask for it today. If you are going to buy a tractor within the next twelve months, kindly let us know.



Plows, Hauls, Thrashes, Saws, Grinds, Shreds, Grades, Roads, Fills Silos  
Will Pull Three 14-in. Bottoms 8 to 9 in. Deep in Clover or Timothy Sod  
Pulls anything, anywhere, any time.  
Does anything a 12-horse team or 20 h.p. engine will do.

## MY No. 8 IS NOT A HORSE KILLER

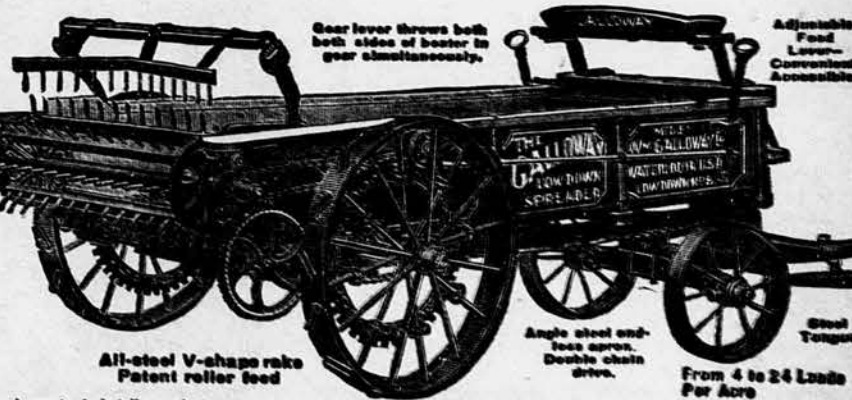
But is the lightest draft, best built, low down spreader in the world, with all four wheels under the load. It is worth more to you in the field in actual use than any other spreader. First—it is low down—only 42 in. high to center of box. Two horses handle it anywhere. The Galloway wide spreading V-rake—worth \$15 extra on any spreader, costs you nothing extra on the Galloway. The invincible irresistible patented roller feed—an exclusive Galloway feature—the secret of its light draft—alone worth \$25 on any spreader, costs you nothing extra. Patented automatic stop, uniform clean-out push board—worth \$10 extra on any spreader, costs you nothing extra, exclusive on the Galloway.

## SHORT TURN—WHEELS UNDER LOAD—STEEL BEATER!

These are only a few of the special features you will find on the Galloway spreader, all of which are protected by Galloway patents. Don't buy a spreader of any make or kind until you have tried a genuine Galloway 1917 model No. 8, No. 5 or No. 1A at our risk without obligating yourself in any way. Give my spreader THIRTY DAYS' ACTUAL FIELD TRIAL and return to me within one year if not perfectly satisfactory. Could anything be more fair? Could you want a better offer?

My 1917 spreader improvements include beater bolts 1-16 in. larger with lock nuts. Beater bar bolts increased in size and strength. Beater teeth longer and stronger than ever—bear the toughest manure finer than ever and spread it easier. Rear shaft increased in strength—higher carbon steel used. Larger drive sprockets, which mean lighter draft than ever. Fifth wheel castings larger and stronger—makes spreader box sturdier in turning. Rear conveyor shaft now made of 40 carbon steel. All steel tongue. All metal parts thoroughly coated with asphaltum weather-proof paint. Spreader box better finished and painted. No other spreader compares with it.

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SINGLE COMB BUFF ROCK COCKERELS, extra large. \$1.50 each. Mrs. C. W. Burr, Grenola, Kan.  
WHITE ROCK COCKERELS, FISHEL strain. \$2 to \$3 each. Mrs. Frank Powell, Buffalo, Kan.  
LARGE PURE BRED WHITE ROCK COCKERELS. \$2 each, 3 for \$5. Mrs. Elwin Dales, Eureka, Kan.  
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WHITE ROCKS, THAT ARE WHITE. Cockerels for sale at \$1.50-\$3.00. Virgil Taylor, Holton, Kan.  
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BARRED ROCK COCKERELS, FINE PREMIUM stock, large bone. \$2.00 to \$5.00. Pullets \$1.50. Mrs. A. M. Markley, Mound City, Kan.

## PLYMOUTH ROCKS.

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## RHODE ISLAND REDS.

R. C. RED COCKERELS \$1.50. BERTHA Adkisson, McFall, Mo.  
CHOICE R. C. RED CKLS. MRS. JAS. Crocker, White City, Kan.  
ROSE COMB RED COCKERELS AT \$2.00. Mrs. S. C. Dodds, Halstead, Kan.  
PURE BRED ROSE COMB RED COCKERELS \$2.00 each. Ford Brown, Shields, Kan.  
JAN. BARGAINS. ROSE COMB RED cockerels \$2, \$3. Mrs. Lee Eades, Toronto, Kan.  
ROSE COMB RHODE ISLAND RED COCKERELS \$2 and \$3. Wm. Treiber, Wamego, Kan.  
SINGLE COMB RED COCKERELS AND pullets. Price reasonable. E. F. Dean, Topeka, Kan.  
LARGE DARK ROSECOMB REDS, COCKERELS, pullets, bargains. Sunnyside Farm, Havensville, Kansas.  
20 BEST OF OUR VIBERT EGG-BLOOD R. C. Red cockerels left. Reasonable. Earl Clayton, Americus, Kan.  
S. C. RED COCKERELS \$2.50, \$3.00, \$5.00, \$7.50 and up. Sold on approval. Thos. D. Troughton, Wetmore, Kan.  
SINGLE COMB RED COCKERELS AND pullets, good size and color. Reasonable. Helen Roberts, Holsington, Kan.  
LARGE ROSE COMB RED COCKERELS, \$1.50 to \$3.00. Some extra good pullets left. Andrew Ketter, Kelly, Kan.  
ROSE COMB RED COCKERELS BRED from my blue ribbon state show winners, \$2 to \$5. Morris Roberts, Holsington, Kan.  
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CHOICE REDS, BOTH COMBS. \$1.50 to \$5.00. Chix 15c. Eggs \$1.25. \$5.00-100. 240 Trusty Incubator \$12.00. Fannie Goble, Healy, Kan.  
DARK ROSE COMB RHODE ISLAND RED COCKERELS from good laying strain \$2.00, \$2.50, \$3.00 and \$3.50 each. E. G. Rowland, Peabody, Kan.  
GOOD BREEDING S. C. RED COCKERELS, sired by my first prize World's Fair cockerel. \$2.50 and \$5.00 each. Guaranteed to please. H. A. Meier, Abilene, Kan.  
FOR SALE—1 PEN PURE BRED SINGLE Comb Reds, 1 cockerel, six pullets ten dollars. 1 cockerel two dollars, two cockerels one dollar each. Amelia Wales, Downs, Kan.  
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ROSE COMB RED COCKERELS OR PULLETS \$2.50. Bred from prize winners big shows in Kan., Missouri and Okla. Blood red with beautiful luster. Red eyes and red pigment on legs. Three firsts at State Fair this fall. R. W. Baldwin, Conway, Kan.  
100 ROSE COMB RHODE ISLAND RED COCKERELS and cockerels sired by roosters costing \$15 to \$35; \$2, \$3.50, \$5 and \$7.50 each. A few higher. Order at once, they will go fast. Our pens mated for 1917 are the best we ever had. W. R. Huston, Red Specialist, Americus, Kan.

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PURE BOURBON RED TURKEYS. TOMS \$4. \$4.50. Hens \$3.50. E. V. Eller, Dunlap, Kan.  
GIANT BRONZE TURKEYS—PRIZE HENS Tom, Madison Square Garden winner. Ringlet Barred Rocks, Ed Lockwood, Kinsley, Kan.

## TURKEYS.

PURE BLOOD BOURBON RED TOMS \$5.00. Mrs. J. Peterson, Linwood, Kansas.  
FOUR NARRAGANSETT TURKEY TOMS \$5.00 each. Mrs. Perry Myers, Fredonia, Kan.  
MAMMOTH BRONZE TURKEYS. TOMS \$5.00. Hens \$3.00. Mrs. Ruth Snowbarger, Le Roy, Kan.  
WHITE HOLLAND TURKEYS. TOMS \$4. Hens \$3. Mrs. Jane Thompson, Cambridge, Kan.  
LARGE WHITE HOLLAND TURKEYS. TOMS \$5.00. Hens \$3.00. Mrs. Ellis Paramore, Delphos, Kan.  
BOURBON RED TURKEYS FOR SALE. TOMS five dollars, hens three. Mrs. H. Passmore, Wayne, Kan.  
WHITE HOLLAND TURKEYS. THE BIG kind. TOMS \$8.00 and \$10.00. Hens \$5.00. M. E. Burt, Kinsley, Kan.  
EXTRA LARGE PURE WHITE HOLLAND hens \$3.00. TOMS \$5.00 and \$6.00. Mrs. Will Jones, Wetmore, Kan.  
PURE BLOOD MAMMOTH TURKEY TOMS, from prize winners, extra quality. Mrs. Ellen Dally, Scottsville, Kan.  
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MAMMOTH BRONZE TOMS, EXTRA GOOD stock. From prize winners. Very heavy boned, markings good. \$7 and \$8 each. Mattie Peasley, Soldier, Kan.  
MAMMOTH BRONZE TURKEYS. BIG boned, deep breasted, rangy birds. May and June hatched. Hens \$3.50. TOMS \$5.00. Mrs. Bert Cordry, Haddam, Kan.  
MAMMOTH BRONZE TURKEYS. I HAVE a few young toms for sale, weighing from twenty-five to thirty pounds. Satisfaction guaranteed. R. L. Parrott, Osborne, Kan.

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WHITE WYANDOTTE COCKERELS \$2. John Kletchka, Willis, Kan.  
WHITE WYANDOTTE COCKERELS \$1.50 each. H. Dierking, Bremen, Kan.  
CHOICE GOLDEN WYANDOTTE COCKERELS. D. Lawver, Weir, Kansas, Route 3.  
PURE BRED WHITE WYANDOTTE COCKERELS \$1.50 each. M. C. Moye, Natoma, Kan.  
BARRON WHITE WYANDOTTE COCKERELS, fine birds, \$3 up. Ernst Yokum, Colony, Kan.  
FINE GOLDEN WYANDOTTES, COCKERELS for sale \$2.00 each. G. M. Effland, Victor, Kan.  
PARTRIDGE WYANDOTTE COCKERELS \$5 each. Sold on approval. O. E. Collins, Drexel, Mo.  
CHOICE SILVER WYANDOTTE COCKERELS from laying strain. Henry L. Brunner, Newton, Kan.  
FINE WHITE WYANDOTTE HENS AND cockerels for sale. J. Benjamin, Cambridge, Kan.  
WHITE WYANDOTTE COCKERELS. GOOD ones. April hatched. Mrs. Fletcher Arnott, Sabetha, Kansas.  
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SOME FINE WHITE WYANDOTTE COCKERELS. Excellent laying strain. Dwight Osborn, Delphos, Kan.  
FOR SALE—PURE WHITE WYANDOTTES, cockerels \$1.50 to \$4.00. Satisfaction guaranteed. Ira Ives, Liberal, Kan.  
SILVER LACED WYANDOTTE ROSE Comb hens \$1.25. Pullets \$1.00. Frank Kletchka, Horton, Kan., Rt. No. 2.  
WHITE WYANDOTTE COCKERELS—Farm raised. \$1.50 to \$2.50 each. Mrs. Emma Arnold, Manhattan, Kansas.  
WHITE AND SILVER LACED WYANDOTTE cockerels from \$2 to \$5 each. Satisfaction guaranteed. J. L. Galloway, Foss, Okla.  
WHITE WYANDOTTES, HENS AND PULLETS \$1 to \$2. Cocks and cockerels \$2 to \$5. Bred from special mated prize winners. Plocks White Wyandotte Farm, R. 3, Clay Center, Kan.

## SEVERAL VARIETIES.

FAWN WHITE RUNNERS \$1 EACH. \$10 dozen. Big Toulouse Geese \$5 trio. V. Young, Melvern, Kan.  
THOROUGHbred STOCK, TOULOUSE geese \$2 each. Bourbon Red turkey toms \$7, hens \$5. Mrs. Kressley, Highland, Kan.  
BOURBON TURKEYS, SINGLE COMB. White Orpington and Brown Leghorn cockerels. Emma Ahlstedt, Roxbury, Kan.  
MAMMOTH BRONZE TURKEY TOMS \$5. Blue Andalusian cockerels \$1.50 to \$3.00. Mrs. H. L. Young, Ottawa, Kan., R. No. 8.  
2,949 COCKERELS, HENS AND PULLETS, 49 varieties chickens, geese and ducks. Eggs in season. Seeds and trees. Aye Bros., Blair, Neb., Box 5. Free book.  
BARRED ROCKS, SINGLE COMB WHITE Leghorns, Rhode Island Reds, 2 lbs each. \$6.00 dozen. Baby chicks: 50,000 for 1917. Booking orders. Alfred Young, Wakefield, Kan.  
S. C. BUFF ORPINGTON COCKERELS, big boned weigh 7 1/2 to 9 lbs. Farm raised, one to five dollars apiece. A few good Bourbon Reds, young toms \$4 apiece. Fred Mowry, Ford, Kan.

## POULTRY WANTED.

OLD PIGEONS DELIVERED FEB. 1ST. 2nd, 3rd, \$1 dozen. Write number will ship. "The Copes," Topeka.  
WE ALWAYS PAY HIGHEST MARKET price for poultry of all kinds. Coops loaned free. Address Edw. E. Witchoy, Topeka.  
PAYING: TURKEYS 24c. CAPONS 20c. Ducks and geese 13c. Guineas 40 c each. No. 1 fowls. Coops loaned free. "The Copes," Topeka.

## FENCE POSTS.

FOR SALE: HEDGE AND WALNUT posts, carlots. H. W. Porth, Winfield, Kansas.



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ONE PURE BRED BROWN SWISS BULL calf for sale. J. J. Zimmerman, Harper, Kan.

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FOR SALE—TWO PERCHERON STALLIONS and Mammoth Jack. Further information write J. T. Johnson, Scandia, Kan.

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PERCHERON TO CHANGE FOR PERCHERON or Belgian; big black Jack for Draft stallion or car. Cleveland Bay for Ford. Wilson, Haddam, Kan.

FOR SALE—REG-A-WONDER. BOAR 6 months old \$30.00. Also 200 a. farm near Blue Mound. Will take in 80 or Eastern Colo. land. Ben Anderson, Blue Mound, Kan.

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FOR SALE—170 HEAD OF COMING three year old steers. Priced by the head and lbs. \$6.50 per hundred, \$7.50 per head. White Faces and Shorthorns. Extra good cattle. Must sell quick. Write or call. R. E. McFarlane, Hesston, Kan.

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ENGLISH BLUEGRASS SEED. HENRY Mosher, Schell City, Mo.

CHOICE SHAWNEE WHITE SEED CORN. J. A. Ostrand, Elmont, Kansas.

WHITE SWEET CLOVER SEED FOR sale. Chas. Redding, Waverly, Kan.

NO. 1 SWEET CLOVER AT FARMER'S prices. John Lewis, Hamilton, Kan.

CACTUS SEED GUARANTEED FRESH. Pkg. 25 cts. Otto Zedlitz, Encino, N. Mex.

STRAWBERRY PLANTS—\$2 PER 1000. \$5000 \$9. List free. J. Sterling, Judsonia, Ark.

WHITE KAFFIR SEED \$2.25 FOR 70 pounds in the head. H. W. Chestnut, Incald, Kansas.

WANTED: 200 BU. ALFALFA AND SWEET clover seed. Will buy in small lots. Ernest Beach, Norfolk, Neb.

SEED CORN—BOONE COUNTY WHITE. Carefully selected. \$2.50 per bushel shelled. W. Taylor, Edwardsville, Kan.

WE BUY SWEET CLOVER SEED. STATE quality and price. Best propositions accepted. Standard Seed Co., Eureka, Kan.

WE ARE BUYING SWEET CLOVER SEED. State quantity, quality, and lowest price. Best propositions accepted. Standard Seed Co., Eureka, Kan.

FANCY WHITE UNHULLED SWEET CLOVER seed \$5.00 per bu. 60 lbs. Send money or letter from your banker. B. T. Newbold, Farmington, N. Mex.

RECLEANED SUMAC AND AMBER CANE. Kaffir, Maize and Feterita \$4.50 all 100 lbs. prepaid in Kan. and Okla. Claycomb Seed Store, Guyton, Okla.

PURE GOLDMINE AND BOONE COUNTY White seed corn selected. Graded \$2 per bushel. Alfalfa seed \$7.50 per. All samples free. F. Feigley, Enterprise, Kan.

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DELICIOUS ALFALFA CLOVER HONEY. Rich, mild flavor, satisfaction guaranteed. 2-60 pound cans \$12.75. Wesley Foster, Producer, Boulder, Colo. Reference 1st National Bank.

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FANCY SWEET CLOVER. PURE WHITE, hulled, recleaned, price ten dollars per bushel F. O. B. Florence, Kansas. Fancy alfalfa eight dollars and forty cents per bushel, will ship by freight or express; will not ship less than sixty pounds. Reference Florence State Bank. J. F. Sellers, Florence, Kan.

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DO YOU KNOW THAT THE CHEAPEST land fitted for general farming lies along the line of the Kansas City Southern Railway? No artificial irrigation—no levees, just enough rainfall. Get full information from Current Events Magazine free. Immigration Bureau, 608 K. C. S. Ry. Bldg., Kansas City, Mo.

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MISSOURI FARM FOR SALE BY OWNER. 200 acres well improved, corn, wheat, oats, clover, blue grass and fruit land, near town, school and church. 75 acres fine dry branch bottom, over 100 acres almost level upland, good five room house, large barn, cattle shed, granary, poultry house, orchard, excellent water, fifty dollars an acre, easy terms, low rate of interest. G. B. Bigler, Neosho, Mo.

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OPPORTUNITY KNOCKS FOR YOU. Would you like to acquire a farm in a country of fine climate, mild winters, good schools and markets? Where all crops are grown successfully? Ample rainfall—35 inches annually. Ideal stock country—ten months grazing season. Below are some sample farms: 200 acres black prairie land, 1/2 in cultivation. Small house and barn. Fenced. 1 mile from town. \$30.00 an acre. 2670 acre ranch, 8 miles to town of 3000. Fenced. 4 sets houses. 600 acres good tillable land. Plenty water. Fine grazing proposition. Only \$15.00 an acre. 80 acres—2 miles to town of 5000. On main road. Well improved. 4 room house, phone, barn, silo, granary, windmill, poultry house. Young orchard of peaches, apples, grapes, berries. Garden and orchard fenced chicken-tight. Soil dark sandy loam. 50 acres in cultivation. A rare bargain at \$50.00 an acre. We have listed more than 1500 farms, all sizes and prices, located along the Missouri, Kansas & Texas Railroad in Eastern Oklahoma. The railroad does not own these lands but is endeavoring to interest good farmers in buying in this section in order to build its business more substantially. Dependable free information about the many farm bargains in this new and rapidly developing country can be obtained by writing Colonization Dept., M. K. & T. Ry., Room 1504 Railway Exchange Bldg., St. Louis, Mo.

## FARMS WANTED.

EASTERN KANSAS FARM WANTED—Give description, location and price. Chester A. Nofftz, 637 Reserve Bank, Kansas City, Mo.

I HAVE SOME CASH BUYERS FOR SALEABLE farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

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SIXTY BARREL OKLAHOMA MILL FOR sale or trade for good farm. E., care Mail and Breeze.

TWO 400 EGG CYPHERS INCUBATORS, good as new for sale \$25 each. Mrs. W. E. Campbell, Edgerton, Kan.

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10 H. P. INTERNATIONAL MOGUL ENGINE. Burns gasoline, kerosene, distillate. Good as new. Can be purchased for \$350.00. Here is a genuine bargain. Roscoe Patterson, R. No. 3, Republic City, Kansas.

HERE IS YOUR CHANCE TO GET A FORD touring car and make \$50.00 a week while getting it. Costs nothing to try. Write today giving three business references. Agency Manager, 426 Capital Bldg., Topeka, Kansas.

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ANY ROLL FILM DEVELOPED 5c. PRINTS 3 1/2 x 5 1/2 or smaller 3c. 24-hour service. National Photo Co., Omaha, Neb.

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"TACOMA FULL-SIZE DIMENSION LUMBER." Guaranteed full two inches thick. Made from best Douglas fir logs, much stronger than standard dimension—"Dakota Clear" shingles, butts half-inch thick. Get our prices. Pay after inspection. Dept. D-D, Local Lumber Company, Tacoma, Wash.

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CREAM WANTED—THE INDEPENDENT Creamery Company of Council Grove, Kansas, buys direct from the farmer. Write for particulars.

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NO STRIKE: 8 HOUR DAY. MEN EVERYWHERE. Firemen, brakemen, baggagemen, \$120. Colored porters. Experience unnecessary. 796 Railway Bureau, E. St. Louis, Ill.

WANTED 500 SALESMEN TO SELL MAGIC Motor Gas. One quart price \$2.00 equals 50 gallons gasoline. Not a substitute. Greatest product ever discovered. Large profits. Auto Remedy Co., 203 Chestnut, St. Louis, Mo.

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WANTED—MEN, 18 OR OVER, RAILWAY Mail Clerks. \$75 to \$150 month. Vacations. Education unnecessary. Big chance for farmers. List Government positions open—free. Write immediately. Franklin Institute, Dept. T 51, Rochester, N. Y.

FARM HAND WITH FAMILY WANTED. Will pay \$40.00 per month year round. Three room house. Pasture for 2 cows, acre garden, timber for fuel, 1/2 mile to school, 5 miles to town, on F. D. and Phone line. Send reference. E. H. Erickson, Olsburg, Kan.

WANTED BY MARCH 1ST—MARRIED man with grown boy to work 160 acre farm near Kansas City on guaranteed wages and shares. Must be good with stock and general farming. References and full statement of experience required. Daniel Bontecou, Parkville, Mo.

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PINTO BEANS, 100 LB. LOTS 9 CTS. Freight paid in Kansas. W. H. Townley, Rush, Colo.

WANTED TO RENT AN EQUIPPED stock and grain farm on shares. Box 133, Coats, Kan.

THE AUTOMOBILE GATE—AUTO PASSES thru but stock can not. Directions for making \$1. Garret Stegink, Downs, Kan.

HEAVES CURED OR MONEY BACK. Bald's Heave Remedy is guaranteed. Write Bald Mfg. Co., Box 201, Purcell, Okla., for particulars.

KENTUCKY'S BEST NATURAL LEAF tobacco, mellow and sweet, 2 and 3 yrs. old, chewing or smoking, prepaid, 3 lbs. \$1.00, 7 lbs. \$2.00. S. Rosenblatt, Hawesville, Ky.

BOYS, GIRLS, SEND US THIRTY OR MORE names of farmers who will need seed corn this spring and we will send you a nice premium absolutely free. Seed Corn Armstrong's, Shenandoah, Iowa.

MAKE MONEY RAISING AND SELLING canaries. Big profits, pleasant work. Valuable \$1 book telling how to raise and sell 25c prepaid. Satisfaction guaranteed. Western Sales Co., Herington, Kan.

NEW 40-LB. FEATHER BEDS, \$8.25; 6-LB. pillows to match \$1.15 per pair; new, live, clean feathers; best tickings; sold on money-back guarantee; write for free catalogue; agents wanted. American Feather & Pillow Co., Desk 228, Nashville, Tenn.

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.

## Be Careful Whom You Pay

The attention of city marshals and subscribers is again called to the fact that they should be careful to whom they pay their subscriptions for the Daily Capital and the Farmers Mail and Breeze. There are still a few dishonest solicitors in Kansas. The following district managers are alone authorized to solicit subscriptions. Do not pay subscriptions to anyone except those whose names are mentioned below.

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## Why Cattle Die in Stalk Fields

Quite a few cattle die in stalk fields here every year. There does not seem to be much that one can do for them. Can you tell me what causes the trouble, and what to do to save the cattle? W. O. C.

The fact that cattle die in corn fields is not of great significance. Such death may be due to bloat which frequently follows the consumption of wet, green corn fodder. It is treated by administering a mixture consisting of 2 ounces of turpentine and a pint of raw linseed oil. If the bloat is very intense the animal must be punctured on the left side so as to permit the gas to escape.

In other cases death is due to Prussic acid contained in green corn fodder. This usually causes almost instantaneous death, but of course is not likely to occur this time of the year. It is said that if large doses of ordinary molasses diluted with water are administered when the first symptoms of Prussic acid poisoning are noticed that it may prevent fatal results.

In many cases our investigations have demonstrated that the so-called corn stalk poisoning is simply an infectious disease known as hemorrhagic septicemia. This latter disease manifests itself in many forms such as a brain form, a lung form, an intestinal form, and a skin form, or a combination of these forms. It is almost always fatal. It is due to a germ which enters the animal's body with the feed. The germ is unusually prevalent in moist or low areas. There is no curative treatment for this disease after it once has developed. It may be prevented by vaccinating the animals with a hemorrhagic septicemia bacterin which any veterinarian can procure from a biological supply house. If the disease breaks out healthy animals should at once be moved to a new pasture and to a new water supply.

Dr. R. R. Dykstra.  
Kansas State Agricultural College.

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WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 608, Springfield, Ill.

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WANTED—EMPLOYMENT BY EXPERIENCED farmer, wife and two sons, by year. Stock or grain. Best references. Address R., care Mail and Breeze.

WANTED JOB ON MIXED FARM BY young man, age 20. Abstainer. Three years' farm experience. Apply, Geo. Gilman, 1172 Woodward, Topeka.

MAN WITH FAMILY WANTS STEADY work on farm by month or on shares. Best ref. State wages and accommodations. G. C. Morrison, Mapleton, Kansas, R. 1.



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**\$15 TO \$30 BUYS BEST wheat land in Gove Co.** P. J. Highley, Grainfield, Kan.

**3 SNAPS.** Imp. 120 a. at \$40; 160 at \$55; 57 at \$90. Decker & Booth, Valley Falls, Kan.

**160 A. IMPROVED,** half cultivated, mile to town, \$5,000. Fred A. Reed, Salina, Kan.

**RELINQUISHMENT.** 320 acres of level wheat land, must sell. Box 364, Syracuse, Kan.

**PROSPEROUS** Meade County. Land, \$12 and up. No trades. J. A. Denslow, Meade, Kan.

**160 A. Imp.,** 40 a. wheat, 15 a. alf., bal. meadow and pasture. Renstrom, Osage City, Kan.

**NORTHEAST KANSAS** bargains in bluegrass, timothy, clover and alfalfa farms. Exchanges. Compton & Keen, Valley Falls, Kan.

**WANTED:** Parties owning Western Kansas land to write me your price and state if you will trade. R. A. Ward, Alden, Kan.

**PERFECT SEC.** 2 mi. Satanta, in native grass. Price \$20.00 per a. Terms on part. A. Bargain. The Beard-Hall Land Co., Dodge City, Kansas.

**100 A., 1 1/2 mi. Lebo, Kan.,** 80 cult., 20 bluegrass pasture, \$75 a. Mtg. \$2500, 6 1/2%. Trade for mdse. Hedrick & Beschka, Hartford, Kan.

**WHEAT** selling \$1.50 a bu. Have 480 acres, all best of land, mile and half out, 300 in wheat, 1/4 with sale, small imp., good water, only \$25.00 an acre. \$5,000.00 cash handles it. Other bargains in wheat land. Highly improved 80 acres, Riley Co., Kansas, snap price. R. C. Buxton, Utica, Kansas.

**FOR SALE.** 183 acres located 1 1/2 miles from Oskaloosa, Kan. Well improved and all tillable. Price \$105 per acre. For better description and terms, write L. C. Arnold & Company, St. Joseph, Mo.

**40 SECTIONS** of ranch land in S. E. Okla. Good grass and worlds of water, sell all or part. Price \$3.50 per acre. Guss Schimpff, Burns, Kansas.

**3 QUARTER SECTIONS, 3 MI. BROWNELL.** 100 a. in cult., 10 a. growing alfalfa; all fenced, no improvements. Price \$30 a. 10 years' time. Can be sold separately. Western Real Estate Co., Ellis, Kansas.

**160 A. IMPROVED;** good house, water. 70 a. wheat; 1/2 goes. 3 miles town; 10 miles S. W. Hutchinson, Kan. School on farm. \$12,500, \$5,500 cash, balance 6%. This good wheat farm in fine country. E. C. Aspey, Owner, Burrton, Kan.

**CHOICE** Scott County wheat land. 3 quarter sections joining the International Demonstration farm being about 5 mi. from Scott City, 1/2 mi. from another side track. Price for short time \$20 an a. 1/2 cash. The King Realty Co., Scott City, Kan.

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**WE OWN 100 FARMS** in fertile Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water. Will sell 80 acres or more. E. E. Frizell & Sons, Larned, Kansas.

**160 ACRES** 6 miles of Ottawa, 1 mile of station, 155 acres tillable; 75 acres in blue grass pasture and timothy and clover hay meadow; fair 6 room house; good barn; fine location; 25 acres growing wheat. Price \$70.00 per acre, \$2,000.00 cash, remainder long time 6%.

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**160 ACRES** rich dark loam soil, 5 room house, large barn, crib and other improvements, well and cistern. For immediate sale \$65 per acre. Possession at once. 80 acres close to town, good 6 room house, number one barn, 1 1/2 acres fine orchard, 25 acres tame grass, well watered, price \$5200. Possession at once, if wanted. Mansfield Land Company, Ottawa, Kansas.

**FOR SALE:** 160 acres, Sheridan Co., 3 1/2 mi. town; 125 under cult., \$22 per acre. 640 acres Trego County, 13 miles from Wakeeney; 200 in wheat, 1/2 goes with the place. Price \$20 per acre.

7400 a. Wallace Co.; well improved, 90% tillable; 800 cult. On main line of U. P. \$74,000, 1/4 cash, bal. good terms. 601 Rorabaugh Bldg., Hutchinson, Kan.

**ONE OF THE BEST STOCK FARMS** in Anderson Co., Kansas. Section of land near Colony; 100 acres cult.; bal. blue grass and native grass; good improvements. Extra well watered, valley land. Can be bought cheap. Address J. F. Ressel, Colony, Kan.

**LAND FOR SALE.** 800 acres, fenced, 11 mi. of Coldwater. 5 room house, running water. 200 a. plowed, 100 a. bottom hay; bal. grass, \$22.50 acre; \$6,000 cash, balance easy terms 6%.

Lytle & Kimple, Owners, Coldwater, Kan.

**Southeastern Kansas Bargains** 5 good farms, very well improved; at a very low price for sale on payment of from \$5 to \$10 an acre down; balance 5 to 15 years at reasonable rates of interest. These farms close to Kansas City, good towns and good markets. Renter's opportunity. Write for full descriptions. Address THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

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We have it in Seward County. Ask for list or come and see Griffith & Baughman, Liberal, Kan.

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Good wheat and alfalfa lands at from \$15 to \$30 per acre. Also some fine stock ranches. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kan.

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this year has produced two million bushels of wheat from one hundred thousand acres. If you want good, rich wheat land at fair prices—\$15 to \$30 per acre—address J. E. Smith, Grainfield, Kan.

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Near Wellington; good loam soil; 60 a. cult.; 20 past.; 4-room house, barn, etc. Poss.; only \$500 cash, bal. \$260 yearly. R. M. Mills, Schwelter Bldg., Wichita, Kan.

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100 ACRES rich Kaw Valley farm, no waste; one-half mile to station, 2 miles to good town and high school, fine improvements. Write or telephone. B. L. Fowler, Executor, Perry, Kan.

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200 acres, 1/4 miles from Stockton, with a good 5 roomed house, good barn, room for 10 head of horses and 800 bushel bin, with hay mow, granary room for 1800 bushels, cow stable and sheds, 100 acres in cult. 100 rough pasture, 2 wells and 2 wind mills, three-fourths of a mile to school. Price \$40 per acre. A. L. Graham, Real Estate, Stockton, Kansas.

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Improved farm, 1 1/2 miles west of White Cloud on main road, 50 acres in alfalfa and clover. Good water; good title, \$115 an acre. This is the best farm bargain between White Cloud and Hiawatha. Jas. P. Kelley, White Cloud, Kansas.

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Write me for prices on farms and ranches, wheat, alfalfa and grazing lands. W. V. Young, Dighton, Kan.

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640 a. improved, 2 1/2 miles railroad, 100 a. cult. 50 a. alfalfa. \$40 per a. Send for list. Stock ranches in best county in Kansas. Also alfalfa farms. J. E. Bocock, Cottonwood Falls, Kansas.

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AT A BARGAIN PRICE. I have one of the best 400 acre farms in S. W. Kansas. Improved, for sale at a sacrifice price. Situated 11 miles north of Tyrone, Okla., and 13 1/2 miles from Liberal. Write for full description and price if you want a snap. E. J. Thayer, Liberal, Kan.

## Cash for Farm Lands

Where you find one purchaser for a large tract of land we can furnish twenty wanting small tracts, 40s and 80s. Let us subdivide and sell your place. Write for particulars and references. Closing up estates a specialty. MIDDLE WEST LAND AUCTION COMPANY C. F. Sutter, Pres. I. H. Johnson, Gen'l Mgr. P.O. Box 374, Office, Hub Bldg., Salina, Kan.

## ALFALFA RANCH

Shallow flowing Artesian water. 2240 acres, 1500 acres shallow water. One-half in alfalfa, producing as much as any land in Kansas, balance wheat land. Three sets good improvements, two concrete silos, 1000 tons. Will divide and make terms. 3 1/2 miles to good town. We have other big bargains. Parish Investment Company, Kansas City, Missouri.

## FOR SALE OR EXCHANGE

**TRADES EVERYWHERE.** Exchange book free. Bersie Agency, El Dorado, Kan.

**240 A. KAW VALLEY LAND. IMPROVED.** J. M. Conlan, St. Marys, Kansas.

**TRADES EVERYWHERE.** Large list free. Reeve & Staats, Emporia, Kansas.

**WHATEVER** you may have for exchange write me. Eugene Oaks, West Plains, Mo.

**OZARKS OF MO.,** farms and timber land, sale or ex. Avery & Stephens, Mansfield, Mo.

**1000 ACRES** exchange for anything. 10 a. up. Timber, water and grass. S. A. Robinson, Southwest City, Mo.

**120 ACRES;** frame house, good barn, 40 cult., bal. timber. Price \$35 acre; \$800 inc. Exchange for western land. T. A. Pritchard, Collins, Mo.

## OKLAHOMA

**BARGAIN,** 160 a., 7 miles out. \$10 an acre. The Monzingo Agency, Fairview, Okla.

**EASTERN OKLAHOMA** farms, ranches, oil lands, \$5 up. Black Bros., Stillwell, Okla.

**168 A.,** 95 cult. 2 sets improvements. Fine water; open stock range. \$35 per acre. W. J. Foreman, Westville, Okla.

**FOR SALE.** Good farm and grazing lands in Northeastern Oklahoma. Write for price list and literature. W. C. Wood, Nowata, Oklahoma.

**BOTTOM FARM.** 160 a. 2 mi. station. (80 plowed, some nice mow land). Corn, wheat and alfalfa land. Nice grove; poor improvements. Pure water. 1 mi. school. Price \$3,000. Time on \$1200 at 5%.

Perry DeFord, Oakwood, Oklahoma.

**THE GOVERNMENT** sold the past year, 600 small tracts land near and adjoining McAlester, city 15,000, suitable for poultry and vegetables. We can sell some at very low price and good terms. Southern Realty Co., McAlester, Okla.

**120 ACRES,** 60 cult. Improved. Good water. \$2400. W. W. Tracy, Anderson, Mo.

**IMP. farms** worth the money, stock, fruit and grain. McNabney & Sayre, Southwest City, Mo.

**STOP! LISTEN!** 160 a. valley farm, \$3,000, 5 room plastered house; near town. Good terms. Free list. McGrath, Mtn. View, Mo.

**240 A. CEDAR CO. MO.** 3 1/2 miles from Humansville, Mo. 5 room house, 2 barns, fine spring. 125 cultivated. Price \$25 per a. for quick deal. Possession now. Easy terms. T. A. Pritchard, Collins, Mo.

**GREAT BARGAINS.** \$5.00 down, \$5.00 monthly, buys 40 acres good fruit and poultry land; near town, some timber, price \$200. \$10 monthly buys 80 acres. Box 808, Excelsior Springs, Mo.

**ALFALFA,** hogs, corn, dairying, on irrigated farms. Northwest Texas. No floods, no droughts. Good climate, good schools, good roads, good water, good soil, good markets, good neighbors. Easy terms. Write to me about this land. Stevens A. Coldren, 601-4 Lloyd Bldg., Kansas City, Missouri.

**RICH ARTESIAN LAND.** Onions and strawberries net \$500 acre. Mild winter work. \$50 to \$100 acre. Buy some future comfort. J. F. Noce, Boerne, Texas.

**ALFALFA,** hogs, corn, dairying, on irrigated farms. Northwest Texas. No floods, no droughts. Good climate, good schools, good roads, good water, good soil, good markets, good neighbors. Easy terms. Write to me about this land. Stevens A. Coldren, 601-4 Lloyd Bldg., Kansas City, Missouri.

**1120 ACRES IMPROVED** land Blaine Co., Neb. 500 acres hay and farm land. 100 acres in cult. Price \$12.50. Mtg. \$4000. Will take exchange for part. B. C. Empfield, Broken Bow, Neb.

**SOUTH DAKOTA** THE STATE OF SOUTH DAKOTA officially invites farmers to investigate the valuable and productive farm land propositions now open in various parts of the state as thrifty farmers are needed for better development. The entire state produced \$2732 average per farm in new wealth last year. You can do as well or better. Write IMMIGRATION DEPARTMENT, State Capitol E 3, Pierre, South Dakota.

**FARM LOANS** FARM AND CITY MORTGAGES a specialty. Write us if you wish to borrow. Perkins & Co., Lawrence, Kan.

**THREE RANCHES** in Elk Co. to exchange for wheat land, city property or small farm. F. J. Brown, Howard, Kansas.

**300 ACRE** ranch, blue grass, \$50 per a. Equity \$9,000. Want garage, good town; some cash. John W. Goff, Willow Springs, Mo.

**160 A. POLK CO., MO.** 8 a. orchard, bearing. 4 room house, common barn. 60 a. cult., 1 1/2 mi. country town, 9 mi. from R.R. Inc. \$1,000; price \$40 acre. Will trade for western land or merchandise. T. A. Pritchard, Collins, Mo.

**WE HAVE** a nice 5 room house, clear, always rents for \$15 a month. Also 4 well located vacant lots in Lamar, Colo., clear. Price for all \$3500. Want cheap Western Kansas land. First National Bank, Spearville, Kan.

**TRADES** Farms, property, stocks. Write Ochiltree, St. Joseph, Mo.

## ARKANSAS

**93 A. IMP.,** 70 cult.; bottom land, \$5,000. T. F. Chrane, Gravette, Ark.

**40 ACRES,** improved, 38 cult. \$2000. 1/2 cash. Terms. Fair, Centerton, Ark.

**FOR ARKANSAS** farms and ranches, write for lists. H. D. McMullen, Ola, Ark.

**40 ACRES, IMP.,** 25 A. CULT. \$14,000.00. Moss & Hurlock, Siloam Springs, Ark.

**100 A. 2 mi. county seat,** 65 in cult. Improved. B. H. Atkinson, Berryville, Ark.

**IF YOU** want a wheat or stock farm, write for price list. C. L. Wilson, Tribune, Kan.

**FREE LITERATURE** and list of Arkansas farms. P. H. Thompson, Fort Smith, Ark.

**70 A., 50 CULT.,** fair improvements, 6 mi. R. R. town. Loving, Heber Springs, Ark.

**100 ACRES** 6 mi. from R.R. 60 a. in cultivation; fine improvements; good team; \$1750. Terms. Wallace Realty Co., Leslie, Ark.

**500 ACRE** plantation, 350 cultivated; make five good homes. Fine soil, water, timber, location. \$30 acre. Guthrie, Ozark, Ark.

**226 ACRES,** upland stock ranch. Imp. 90 in cult., balance timber, 9 miles Charleston, \$3000; terms half. Goodbar, Charleston, Ark.

**FINE FARM LANDS.** River bottom, cut over and grazing lands. At lower prices than you can buy in any other state. T. I. Greenstreet, Ft. Smith, Ark.

**267 A. WELL IMP.,** 190 cult., bal. timber and pasture. Springs and well. 2 miles town; 1/4 mi. school and church. \$50 a. Terms. J. M. Doyel, Mountainburg, Ark.

**FOR SALE,** 15,000 ACRES good unimproved agricultural lands. No hills, swamps nor overflows, close to good market town of 25,000; healthy, good schools; land can be put in cultivation cheap. The rent you are paying will pay for a farm—\$15 per acre, \$3 per acre down, bal. 10 years 6%.

Frank Kendall Lumber Co., Pine Bluff, Ark.

**463 ACRES,** 6 mi. Ry. sta. 250 a. cult., all fenced, wire. 200 a. bottom, rich, smooth, productive. 7 sets imp. Public road; R. F. D., phone; near school and church. Crop rent \$1,500. Alfalfa, corn, wheat, cotton, grass land. Healthful, beautiful country; clear, cold, good water. \$25 per acre. Terms. Bahner & Co., Conway, Ark.

**200 ACRES,** 100 cultivated, one mile town. Three houses, well watered. \$4500. Terms. W. W. Adams, Ozark, Ark.

**COME TO CLEBURNE** county, Arkansas. Land \$5 up; easy terms. Send for list. Claude Jones, Heber Springs, Ark.

**160 ACRES,** good improvements. 135 cult., bal. timber. \$40 an a. Well watered. J. F. Stevenson, Dardanelle, Ark.

**IF YOU WANT** good farm, stock and fruit lands, write us for list. Robertson & Son, Magazine, Arkansas.

**80 ACRES,** 30 in cult.; small house. Bal. timber. 5 mi. Marshall on turnpike road. Terms. \$10 a. Lock Box 21, Marshall, Ark.

**132 ACRES,** improved, 100 cult., bal. timber and pasture. \$3,000. Good terms. Yell Co. Land Co., Danville, Ark.

**42 ACRES,** 4 mi. from County Seat; 20 acres in cultivation; 2 wells; 4 room house; nice orchard; a dandy little home for \$1000. Good terms on half. R. G. Oliver, Waldron, Arkansas.

**110 ACRE FARM,** 65 acres bottom land in cultivation, 35 acres more tillable land produced this year \$75 per acre. Two 3 room houses, good water. Price \$2,000. J. C. Hart, Owner, Waldron, Ark.

**397 A. BOTTOM** and upland; 200 a. cult. On public highway, R. R. and phone. School and church close. Running water, 2 houses. 7 miles good town, 3 1/2 mi. R. R. switch. Bargain at \$20 per acre. 1/2 cash. Southern Trust Company, Little Rock, Ark.

**FOR SALE.** Improved and unimproved tracts of land in Jefferson County, Arkansas, and vicinity; 40 acres and upward, \$17.50 per acre. Terms. No trades. Other lands same character in vicinity selling at \$25 per acre and upward. Mills & Sons, Box 387, Pine Bluff, Ark.

**THE LAND OF OPPORTUNITY.** Perry County, Arkansas. Improved farms; rich level land, soil that will produce wonderful crops of corn, wheat, oats, clover and alfalfa at prices ranging from \$15 to \$35 an acre. Good terms. Come, join a community with a future. Free literature. Write today. Chafin-Colvin Land Co., Perry, Ark.

**100,000 ACRES FOR SALE.** Farms and ranches, any size, cash or terms. Low prices, profit doubling values, no rock or swamp, fastest selling land in south; sure crops; pastures 3 1/2 head to acre; bears inspection. Free map and price list. Tom Blodgett, Little Rock, Ark.

**WISCONSIN** 30,000 ACRES our own cut-over lands; good soil, plenty rain, prices right and easy terms to settlers. Write us. Brown Bros. Lbr. Co., Rhinelander, Wis.

**ILLINOIS** FOR BARGAINS IN ILLINOIS FARMS. Address S. H. Morton & Co., St. Louis, Mo.



## ALABAMA

**THE GREATEST** stock farm and hog raising proposition in the United States, 2500 acre farm at Montgomery, Alabama, alfalfa and corn land, well improved, railroad station, fronting 6 miles on hard road. \$25 an acre. Half cash, balance ten years, 5%.

F. M. Kohn & Son, Montgomery, Ala.

## MONTANA

440 ACRE Montana Homesteads—new law. Circular free. Bureau 112, Boulder, Mont.

**MONTANA** The Judith Basin offers exceptional opportunities to the farmer, stockman and investor. Surveys by ordinary farming methods. Harvest every year—not once in awhile. No irrigation, splendid climate, excellent water, good markets. You can do better in the Judith Basin. Buy direct from the owners. Prices lowest, terms easiest. Free information and prices sent on request.

Address THE COOK-REYNOLDS CO., Box 81405, Lewiston, Montana

## NEW YORK

69 ACRES, 8 room house, basement barn, 30x50. Land nearly all level. Old age forces sale. \$1200, part cash. Don't you want a good home at half value?

Hall's Farm Agency, New Paltz, N. Y.

## COLORADO

**CHEAPEST** choice half section RELINQUISHMENTS in Colorado, farm and ranch properties. Write for bargain list.

Terral Land Company, Springfield, Colo.

## Irrigated Land At Auction

Ordway, Colo., Jan. 19, 1917

80 acres, 60 acres in alfalfa—no buildings—produces to perfection wheat, corn, oats, alfalfa, and sugar beets.

**Irrigation**—Full water right, under one of the oldest and best ditches in the state.

**Location**—2 mi. N. E. of Ordway, Colo., County Seat of Crowley Co., on main line of the Mo. P. R. R.

**Farm will be sold in 40 acre tracts.**

**Terms**—½ down, balance 3 yrs., interest 6%.

**Write owners or auctioneers for detailed information.**

**Latson & Boggs, Owners**

Rocky Ford, Colorado

Fred L. Perdue, H. Elson Fly,

Auctioneers, Rocky Ford, Colo.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I have received 30 or 40 inquiries and sold six hogs. I do not know why I have not sold more hogs unless I do not price them high enough, or do not know how to write a letter that will sell hogs. Yours very truly.—A. T. Garman, Breeder of Poland Chinas, Courtland, Kan., Nov. 20, 1916.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—In the last 60 days have had about 80 inquiries and in that number possibly 75 per cent were from Farmers Mail and Breeze. We are using one other paper and as all letters do not say in which paper they saw ad do not know just how many inquiries come from each paper. Have made about 20 sales and possibly half were from Farmers Mail and Breeze, the other half from the other paper and our old customers. We are well satisfied from results gained by using Farmers Mail and Breeze. Yours very truly.—S. B. Amcoats, Breeder of Shorthorn Cattle, Clay Center, Kan., Nov. 18, 1916.

## GUERNSEY CATTLE.

### MAPLE GROVE GUERNSEYS

REG. BULLS AND FEMALES—All ages for sale at all times, rich in high testing, heavy producing and A. R. blood lines. Prices reasonable.

F. J. GREINER, Box 206-B, Billings, Missouri

## Smoky Hill Galloways

The world's largest herd. Yearling and two-year-old bulls for sale in numbers to suit, from one to a car load, at reasonable prices. If in the market for Galloway bulls come and look them over.

**Smoky Hill Ranch**

E. J. Guilbert, Owner, Wallace, Kansas.

When writing to advertisers be sure to mention the Farmers' Mail and Breeze

## WHAT BREEDERS ARE DOING

**FRANK HOWARD,**  
Manager Livestock Department.

## FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 123 Grace St., Wichita, Kan.  
John W. Johnson, N. Kansas, S. Neb. and Ia. 829 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.

## FUBREED 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.

## Combination Sales.

Feb. 26 to Mar. 3—F. S. Kirk, Mgr., Wichita, Kan.

## Percheron Horses.

Feb. 9—Breeders' combination sale, Manhattan, Kan.  
Feb. 15—C. S. Butler, Cherryvale, Kan.  
Feb. 17—C. H. Payton, Norton, Kan.  
Feb. 22-23—Nebraska Pure Bred Horse Breeders' Association, sale at Lincoln, Neb.  
C. F. Way, Sec.-Treas., Lincoln, Neb.

## Draft Horses.

March 9—W. T. Judy & Sons, Kearney, Neb.  
**Jacks and Jennets.**

Feb. 15—C. S. Butler, Cherryvale, Kan.  
Feb. 22—M. H. Roller & Son and Bruce Saunders, Holton, Kan.

Mar. 13—Hineman & Sons, Dighton, Kan.

## Hereford Cattle.

Feb. 24—C. F. Behrent, Norton, Kan.  
Feb. 26—Combination sale at Hays, Kan.  
Prof. W. A. Cochel, Manhattan, Kan., Mgr.  
Feb. 27—Combination sale, Manhattan, Kan.  
Prof. W. A. Cochel, Manhattan, Kan., Mgr.

## Holstein Cattle.

Jan. 17—W. H. Mott, Mgr., Council Grove, Kan.  
Jan. 19—Marshall & Laird, Lincoln, Neb.  
Jan. 30—H. L. Cornell, Route 6, Lincoln, Neb.  
Feb. 21—Nebraska Holstein Breeders' Consignment sale, South Omaha. Dwight Williams, Sales Manager, 4110 Davenport St., Omaha, Neb.  
Feb. 6—H. C. Gilsman, South Omaha, Neb.

## Jersey Cattle.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

## Shorthorn Cattle.

Jan. 16—E. E. Carver & Son, Guilford, Mo.  
Jan. 18—C. Calkins, Burlingame, Kan.  
March 13—Blank Brothers & Klen, Franklin, Neb. Sale at Hastings, Neb.  
March 14-15—Highline Shorthorn Breeders' Ass'n, Farnam, Neb. E. W. Crossgrove, Mgr., Farnam, Neb.  
March 15-16—Breeders' Consignment sale, South Omaha, Neb. J. C. Price, Lincoln, Neb., Mgr.  
March 28—F. A. Egger, Roca, Neb.  
Mar. 30—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

## Polled Durham Cattle.

March 14—W. T. Judy & Sons, Kearney, Neb.  
Mar. 29—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

## Poland China Hogs.

Jan. 16—E. E. Carver & Son, Guilford, Mo.  
Jan. 16—D. C. Lonergan, Florence, Neb.  
Feb. 6—Smith Brothers, Superior, Neb.  
Feb. 7—T. F. Walker & Son, Alexandria, Neb.  
Feb. 8—Wm. McCurdy & Son, Tobias, Neb.  
Feb. 9—Frank J. Rist, Humboldt, Neb.  
Feb. 12—W. E. Willey, Steele City, Neb.  
Feb. 15—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.  
Feb. 17—S. A. Nelson & Sons, Malcolm, Neb.  
Feb. 19—C. Lionberger, Humboldt, Neb.  
Feb. 21—O. B. Clementson, Holton, Kan.  
Feb. 22—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan.  
Feb. 23—Olivier & Sons, Danville, Kan.  
Feb. 24—C. F. Behrent, Norton, Kan.  
Feb. 27—Von Forell Brothers, Chester, Neb.  
Feb. 28—Clarence Dean, Weston, Mo.; sale at Dearborn, Mo.  
Feb. 28—John Naiman, Alexandria, Neb.; sale at Fairbury, Neb.  
Feb. 28—Agricultural College, Manhattan, Kan.

## Duroc-Jersey Hogs.

Jan. 22—Geo. Briggs & Sons, Clay Center, Neb.  
Jan. 23—H. A. Deets, Kearney, Neb.  
Jan. 21—J. H. Proett & Son and H. J. Natchigall & Son, Alexandria, Neb.  
Feb. 1—Theo. Foss, Sterling, Neb.  
Feb. 1—Philip Albrecht & Sons, Smith Center, Kan.  
Feb. 7—F. J. Moser, Goffs, Kan.  
Feb. 3—Dave Boserger, Cortland, Neb.  
Feb. 16—J. C. Boyd & Son and Ira Boyd, Virginia, Neb.  
Feb. 17—Earl Babcock, Fairbury, Neb.  
Feb. 28—Agricultural College, Manhattan, Kan.  
March 14—W. T. Judy & Sons, Kearney, Neb.  
March 15—W. T. McBride, Parker, Kan.

## Hampshire Hogs.

Feb. 26—A. H. Lindgren, Jansen, Neb.; sale at Fairbury, Neb.  
Feb. 27—Carl Schroeder, Avoca, Neb.  
March 2—Ezra Williams, Oak Grove, Mo.

## Chester White Hogs.

Feb. 23—Henry Fehner, Higginsville, Mo.  
Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

## N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

T. P. Teagarden & Son of Wayne, Kan., will disperse their herd of Duroc Jersey hogs Thursday, January 25. Mr. Teagarden is among the early breeders of Duroc Jerseys and his offering is worthy of the attention of readers of Farmers Mail and Breeze who are interested in the red hog. He will also sell a lot of high grade Holstein cows and heifers and one registered bull. Note the display advertisement in this issue and arrange to attend this sale, or send bids to J. W. Johnson.—Advertisement.

This is the last call for the C. C. Calkins sale of registered Shorthorn cattle at the farm near Burlingame and Harveyville, Kan., Thursday, January 18. Trains will be

met at both places and anyone attending the sale can get to Topeka the same evening in time for train both West and East. The sale will be held in comfortable quarters and hot dinner will be served on the farm. The catalogs are ready to mail. Write for one today and mention the Farmers Mail and Breeze. Look up the advertisement in this issue.—Advertisement.

## Percheron Breeders' Sale.

The Kansas Percheron breeders' sale in the college pavilion, Manhattan, Kan., Friday, Feb. 9, is advertised in this issue of the Farmers Mail and Breeze. Forty-five registered Percheron stallions and mares, every one sound and a high class individual, is the way Dr. C. W. McCampbell who is managing the sale styles it. Watch for further advertising and write any time for the catalogs and any information you want. Address C. W. McCampbell, Mgr., Manhattan, Kan. Mention the Farmers Mail and Breeze when you write.—Advertisement.

## Big Holstein Cow Sale.

Sixty high grade Holstein cows and heifers, practically all heavy springers is the attraction W. H. Mott, Holstein sales manager, is offering those interested in dairy cows. The sale is advertised in this issue of the Farmers Mail and Breeze and will be held in the new steam heated sale pavilion at Council Grove, Kan., Wednesday, Jan. 17. For further information address W. H. Mott, Herington, Kan. Nothing but first class cows and heifers go in this sale and it will be a good place to buy the kind that will go right to making you money. Plan to attend the sale.—Advertisement.

## Choice Percheron Stallions.

Graner Stock Farm Percherons, Lancaster, Kan., the property of W. H. Graner, are grown and handled with a view of their future usefulness. Mr. Graner is offering some choice young stallions, old enough for

## HORSES.

## PUBLIC SALE of Breeding Stock

At my breeding barn, on South Main Street  
Wellsville, Kan., Tuesday, Jan. 16th

I am quitting to go on my farm and will sell 10 head of good breeding stock as follows: One Belgian Stallion, imported, weight 2,200. Good enough to head any bunch of pure bred mares. Plenty of colts to show on day of sale. 4 Jacks and 5 Jennets. 1 Jack 3 years old, coming 4. 1 ½ hands high, standard 9 ½ inch bone. Well broke to serve mares, and a good sure breeder. Good enough to head any bunch of jennets. 2 Jacks, 2 years old, coming 3. Both of these Jacks are broke to serve mares and are as good as you will find at any barn. 1 Jack colt, 6 months old, extra good. 1 Jennet colt, 4 months old, extra good. 1 Jennet 1 year old, 8 jennets, ages 7, 8 and 12 years. Bred and safe in foot to the best Jack in the country. Colors black, very large and sure breeders. All of this stock is registered and pedigrees will be furnished for each head. Sale begins at 1:30 p. m., under cover, rain or shine.

C. F. JOHNSON, WELLSVILLE, KAN.

## Graner Stock Farm Percherons

Bryan  
54682



Special prices for 60 days on Stallions and a few spans of matched mares.

W. H. GRANER, LANCASTER, KANSAS

(12 Mi. from Atchison) (Good R. R. Connections)



## Percherons — Belgians — Shires

Imported and home-grown mature stallions, ton and heavier, 3 year olds, 2 year olds, yearlings. Produce of 62 imported mares and noted prize winning imported sires weighing 2235 lbs. and 2430 lbs. Farmer's prices. Near Kansas City. Fred Chandler, Route 7, Chariton, Iowa.

## Redline Stock Farm Percherons

ILLICO 81462, Imported by Watson, Woods Bros. and Kelly is a beautiful black stallion with all the proof you will want that he is a great foal getter. BONAPARTE 101896 was foaled in 1913 and was the second prize winner in class that fall at the Iowa state fair. He is now a beautiful black weighing about 2600. KANGOROU STAR 122197 was foaled in April 1914. He is a beautiful black stallion and was sired by C. W. Lamer's great prize winning Kangorou. The above Stallions are for sale and any man wanting Percheron stallions that are right in every particular should visit Glasco and investigate these stallions and what they have done for this vicinity. Write for further information. I also offer a big boned Mammoth Jack. Address. GEO. W. NOWELS, Glasco, Kan.

## Bishop Bros. Percherons

Our stallions are all young, a life of usefulness before them. They are the big, strong boned, massive kind, with quality and finish to suit the most critical buyer. If you want a stallion it will pay you to come see ours. You can find what you want and at the right price. We invite your inspection and solicit your inquiry.

Bishop Bros., Towanda, Kan.

## Kansas Percheron Breeders' Sale

College Pavilion, Manhattan, Kansas

Friday, February 9, 1917

45 Registered Percheron Stallions and Mares 45

Every one sound and a high class individual

For particulars and catalog address

C. W. McCampbell, Mgr., Manhattan, Kansas

## HORSES.

### DISPERSION SALE OF CLYDESDALES

One span of brood mares, regular breeders, in foal, by imported stallion. One coming 3 year old filly. One coming 2 year old stud and one weanling stud colt. All show stuff. The thick, blocky kind, sound and best of breeding. C. H. Wempe, Seneca, Kansas.

### STALLIONS, MARES AND JACKS

Registered Percheron stallions, yearling, two, three and four year olds. Blacks, and a few grays. Brilliant bred. The big, wide-out, heavy boned, ton kind. Two year olds weighing 1900 lbs. Also a bunch of big, registered mares showing colts.

30 big, Mammoth black jacks, the kind that breed the big mules. Jacks, 15 to 17 hands standard measure. Jennets in foal. All stock guaranteed. References, the Banks of Lawrence. 40 mi. west of Kansas City.

AL E. SMITH, LAWRENCE, KANSAS.

### PERCHERON AND BELGIAN

Over 60 Head of Registered Stallions, Mares and Colts

To close up a partnership the mares and colts must be sold by March 1st. I mean business. Come and see them.

J. M. NOLAN, PAOLA, KANSAS

## Pioneer Stud Farm

Established 1870

50 Registered Stallions and Mares

Just arrived. A new shipment of Stallions and Mares. If you are in the market for a good Percheron stallion or mare now is the time. We can show you more bone, size, action and conformation than you will see elsewhere. Write or come today.

C. W. Lamer & Son,

Salina, Kansas



Woods Bros. Co., Lincoln, Neb.

Imported and Home-Bred Stallions Percherons, Belgians and Shires

Come to Lincoln and visit our barns. We will show you 75 stallions, yearlings, 2-year-olds, 3-year-olds and aged horses that you will say are the draftiest, best boned, cleanest lot of stallions you ever saw together. We are especially strong in yearlings and 2-year-olds that will mature into 2,000 to 2,200-pound horses.

Our imported stallions are direct from the Avenue stud, the only shipment leaving France since the outbreak of the war.

Our 1916 show record at the Nebraska and Kansas State Fairs includes 37 first prizes, 14 senior and junior championships, 10 grand championships, 17 second prizes, 12 third prizes.

Our prices, terms and guarantees will suit you. We expect to show at Denver, Colo., Jan. 20-27.

A. P. COON, Manager



## HORSES.

For Sale: Home-Bred Stallions \$250 to \$400, except two Also Draft Mares for sale. A. LATIMER WILSON, CRESTON, IOWA

## Stock For Sale!

3 head of Standard bred colts; one brown filly 4 years old, stands 16 hands, weighs 1,200 pounds, has been tracked a little and shows lots of speed. Sire Pictolus Ellwood 50245, he by old Pictolus 9102; dam, Bessie Miller, by Tom Miller Jr., 2710. One black stud, 3 years old, has been tracked a little and is clever and very speedy. Stands 15.3 and weighs now 1,135. Drives single and double. He is a full brother to the above mare. One black filly, 3 years old, name Luta Miller, stands 15.1, broken to drive, has same sire. Dam, Estan Seolta, by Symboler 2:09. All these colts are sound and highly bred. We have 6 high grade white face bulls for sale, 2 years old, past. They are in fine condition.

I have 5 head of high grade Holstein heifers for sale. They are from 14 months to 3 years old; 3 giving milk and one springer. All are bred to my Holstein male. One Holstein male, coming 2 years old in April. This is an extra big male, greater part white in color. I want to sell all 6 head together. A few registered Jersey cows for sale.

O. L. Thisher, Chapman, Kansas

## JACKS AND JENNETS.

FOR SALE 8 Jacks, 6 Jennets, 3 Percherons and 1 Standard bred stallion. For information call on or address F. W. POOS, POTTER, KAN. (Barn 3 blocks north of depot)

## 7 JACKS, 10 JENNETS

Two to 7 years old, 14 to 15½ hands high, heavy bone. Priced to sell. For further information write A. ALTMAN, ALMENA, KAN.

## 15 JACKS 20 JENNETS

3 to 6 years old, 15 to 15½ hands high. Excellent in bone, size and conformation. Write today.

Philip Walker  
Moline, Elk County, Kansas

## JACKS FOR SALE

Seven head, blacks with white points, except one which is dark gray. Ages as follows: Two that are two years old, two, three years old. Two coming eight and one coming ten. All broke to mares and prompt performers. Colts to show from matured jacks. Mares in foal from past season. Also Standard bred stallion. Would consider ton draft stallion on some of this stock. All jacks eligible to reg.

Thompson Bros., Marysville, Kan.

## LIVESTOCK AUCTIONEERS.

Jas. T. McCulloch, Clay Center, Kan. References: I am selling for every year. Write for open dates.

## FLOYD YOCUM

Rule Bros., H. T. & R. D., Ottawa, Kan. Livestock sales a specialty. Write for dates.

W. H. Fisher, White City, Kan. Pure bred stock sales. Write, Wire or Phone. Address as above.

Late Burger, Wellington, Kan. LIVESTOCK Auctioneer. Ask any Breeder. Write or wire as above.

## Be An Auctioneer

Make from \$10 to \$50 a day. We teach you by correspondence or here in school. Write for free catalog. We are also starting a new breed of horses known as "Wagon Horses." We register 25 of the best mares in each county. Foundation stock mares to weigh about 1,250 pounds. Stallions must be registered Percherons.

W. B. Carpenter, Pres., Missouri Auction School, 818 Walnut St., Kansas City, Mo.

## CHESTER WHITE AND O. I. C. HOGS.

O. I. C. HOGS For sale—Yearling boar, Spring and Summer pigs, bred gilts and tried sows. Priced to sell. A. G. COOK, LURAY, KANSAS

CHESTER WHITE HOGS Fashionable breeding. Excellent quality. Prices reasonable. E. E. SMILEY, PERTH, KAN.

EXTRA GOOD O. I. C. BOARS 100 to 150 lbs. each—best of breeding. Harry W. Haynes, Grantville, Kansas

Edgewood Farm Herd Chester Whites. Spring boars with length, size, bone and quality sired by Don Ben 2nd and Sweepstakes. HENRY MURE, Tonganoxie, Kan.

FEHNER'S O. I. C. Herd headed by the \$500 Eagle Archie first prize aged boar at Sedalia, 1916. We offer 100 selected spring pigs, a number by a son of Eagle Archie, every one immune and shipped on 30 days' approval. Henry Fechner, Higginsville, Mo.

O. I. C. Summer Boars and fall pigs, at very reasonable prices, to make room for my spring pigs.

F. C. GOOKIN, Russell, Kansas

## SILVER LEAF O. I. C's.

Am sold out of everything but August boars. They are fine, of the best of breeding and priced cheap for quick sale. Will ship them on approval. Write for description. C. A. Cary, Route 1, Mound Valley, Kan.

## Kansas Herd Chester Whites

Gilts bred to Don Izzy, Don Wonder, Don Wildwood; sired by champions. Fall pigs by Don Milligan. Reasonable prices. Nine rail roads. Arthur Moore, R. 5, Leavenworth, Kan.

service, several tried sires with proven ability as producers and a few spans of matched mares, for 60 days, at prices that will move them. The stallions include Bryan 54682, a beautiful seven-year-old black weighing 2180 pounds; Logan, a three-year-old grey, weighing 1600; Hearn, a four-year-old, weighing 1800 pounds, a beautiful dapple grey, and three two-year-olds. Anyone wanting stallions or mares or both at prices that are reasonable should visit Mr. Graner. He expects to reduce his herd and is going to make low prices on first class stock to do it. Look up his advertisement and write him today.—Advertisement.

## Shorthorn Herd Bulls.

K. G. Gistad, Lancaster, Kan., breeder of Shorthorn cattle of high quality in blood lines and individual merit, offers a splendid bargain in his herd bull, Golden Lad 41260, got by Golden Lancaster 297860, his dam was Phyllis Beauty 12. He is a beautiful dark red, three years old and weighing in good flesh 2,200 pounds. He is gentle and a splendid sire. Mr. Gistad offers 15 young bulls from eight to 11 months old. They are right in every particular and you can't find anything better in breeding and individuals. Mr. Gistad attended the Carpenter & Ross sale of imported cattle at Chicago, November 1. He bought Gallant Favorite, bought by Carpenter & Ross in Aberdeen-shire for this sale and pronounced by them to be the best calf they saw there. They were unable to get a price on the splendid young mother of this calf. This year old this month and a splendid individual and his breeding is certainly choice. Mr. Gistad also bought two beautiful heifers that were imported for this sale and bred to one of Carpenter & Ross's great bulls. The sale of the three-year-old Golden Lad is made because of the purchase of this young bull. The 15 young bulls offered are reds and roans and certainly great herd bull prospects. Look up advertisement in this issue of the Farmers Mail and Breeze.—Advertisement.

## Sells Land at Auction.

The Middle West Land Auction Company, Salina, Kan., is a Kansas organization that is demonstrating to the landowner of the Middle West that there are many more prospective buyers for small tracts of land than there are for large ones. They have operated for the past year through the Middle West with marked success and have demonstrated that they have the organization and methods to dispose of large farms quickly and to the entire satisfaction of all concerned. C. F. Sutter, president of the company was for years a leading rancher and cattleman of Kansas. I. H. Johnson, general manager, is a real salesman capable of big things. C. W. Curphey and D. S. LaShelle, are regularly employed auctioneers. This firm can give you pointers worth money to you. If your land is not an auction proposition they will tell you so. But they can very likely get you more money for your land than you can possibly get without their experience and organization. Write them for information. Watch the sale date column in this paper for coming sales.—Advertisement.

## A Proven Shorthorn Sire.

H. C. Graner, Lancaster, Kan., is offering his four-year-old Shorthorn herd bull, Symphony's Last 395198 for sale. He is a beautiful roan. A snap shot picture of him appears in the advertisement in the Shorthorn section. He was got by Symphony Prince, he by Prince Royal, by Collynie out of imported Princess Royal. He is a nice mellow bull that has proved a great sire for Mr. Graner, who is keeping all of his heifers. This is the reason for selling him. He will be priced at a bargain. Mr. Graner attended the Carpenter & Ross sale of imported Shorthorn cattle at Chicago November 1 and bought a valuable cow, imported by this firm from Scotland where she was bred to a famous bull. She is due to calve this month to that service. She sold for a handsome price but Henry Graner brought her to Lancaster. He also bought a choice heifer that was imported at the same time. If you are in the market for a herd bull, write H. C. Graner, Lancaster, Kan. If you have the time, go to Lancaster and visit the several breeders of good Shorthorns in that neighborhood.—Advertisement.

## Nebraska and Iowa

BY JESSE R. JOHNSON.

Interested parties, unable to attend D. C. Lonergan's Poland China sale at Florence, Neb., January 16, should write or wire bids to Jesse Johnson in care of Mr. Lonergan, at Florence.—Advertisement.

H. A. Deets sells Illustrators Durocs at Kearney, Neb., the day following the Briggs & Sons sale at Clay Center, Neb. The attractions of this sale will be the big early farrowed gilts, sired by Deets Illustrators and bred to a brother of Orion Cherry King Jr., grand champion boar at National Swine show 1915. The seven sisters, sired by the \$2,000 Illustrators, would be attractions in any herd in America. If you can't be at this sale send bids to Jesse Johnson in care of Mr. Deets at Kearney, Neb.—Advertisement.

One of the first important Duroc Jersey bred sow sales of the season will be the big Illustrators sale to be held at the Geo. Briggs & Sons farm near Clay Center and Fairfield, Neb., January 22. This firm never had a better offering. A big lot of the Illustrators 2nd gilts will be bred to Joe Orion 5th. H. A. Deets sells the day following at Kearney, Neb. Readers of this paper wanting this line of breeding should attend both sales or send bids to Jesse Johnson who represents this paper.—Advertisement.

## High Line Shorthorn Sales.

We are claiming March 15-16 as the dates for the annual sales of the Highline Shorthorn breeders. This year 20 good breeders are consignors. Total 100 head. Watch this paper for later announcement or file application any time for catalog, by writing E. W. Crossgrove, the secretary, at Farnam, Neb.—Advertisement.

## Elmendale Shorthorns.

The Elmendale Farms, Fairbury, Neb., start advertising in this issue. They have for sale 100 bulls and 50 cows and heifers. The bulls include a car of very choice coming 2 year olds. They are as good as can be found anywhere. They are the selections from over 100 head of that age. They also have about a dozen real herd bulls that are good enough to head any herd. They are of good Scotch families chiefly Wimples, Acanthus, Acorns and Rosewoods. They are

## BERKSHIRE HOGS.

BERKSHIRE PIGS Best of Breeding. Big type English. Either sex, \$15 each. Crated and papers furnished. R. J. LINSOTT, HOLTON, KANSAS

## MULE FOOT HOGS.

200 Immune Mulefoot Hogs all ages, priced to sell. 80 Big-Type sows, bred to champion boars Catalog free. C. M. THOMPSON, LETTS, IND.

## HAMPSHIRE HOGS.

REGISTERED HAMPSHIRE 150 gilts and 40 boars, all ages. Cholera immuned Satisfaction guaranteed. C. E. LOWRY, Oxford, Kan.

Shaw's Hampshires 150 registered Hampshires, nicely belted, all immuned, double treatment. Service boars and bred gilts. Satisfaction guaranteed. Walter Shaw, R. 9, Wichita, Kan.

## POLAND CHINA HOGS.

SPOTTED POLAND CHINAS Ten good bred gilts and a few tried sows. Close prices for quick sale. R. H. McCUNE, LONGFORD, KAN.

## Stretchy Boars: Gilts All Bred

Boys entering Capper Pig Club write me today for my special offer on bred gilts. Fall and summer boars and gilts. Write today. All immune. W. A. MCINTOSH, COURTLAND, KANSAS

## I Ship on Approval

The best of big type Poland China breeding. Special prices on bred sows and 50 head of fall pigs. ED SHEEHY, HUME, MO.

## Fashionable Stock Place

Big Type Poland Chinas April boars and gilts. Can sell stock not related. All immune. Satisfaction guaranteed. V. O. JOHNSON, Aulne, Kansas.

## Big Type Poland Chinas

One strictly high class show boar and herd head prospect, perfectly marked and will develop into a 1,000 pound hog; also a few other good ones of same breeding at very reasonable prices. A. M. MARKLEY, MOUND CITY, KANSAS

## Albright's Private Sale

of more quality, big type Poland China spring boars and gilts is now on. You can't beat my spring boars at the price. Also open gilts. A. L. Albright, Waterville, Kan.

## Fairview Poland Chinas

Choice sows and gilts, bred for March farrow. Also 50 fall pigs. All priced to sell. Write us today. P. L. WARE & SON, PAOLA, KANSAS

## POLAND CHINAS

Big Type—Big Bone—Big Litters. Spring and summer pigs, either sex. Satisfaction guaranteed. Engleman Stock Farm, Fredonia, Kansas

## Original Big Spotted

Polands 75 fall pigs, pairs and trios not related. Pedigrees with each pig. Big litters. Address ALFRED CARLSON, Cleburne, Kan.

## Private Sale

March boars by the half ton Hercules 2nd. Choice gilts same age. Summer and fall pigs at bargain prices. Summer pigs ready to ship. Pedigree with each pig. ANDREW KOSAR, DELPHOS, KAN.

## ERHART'S BIG POLANDS

Home of more prize winners than any herd in the West, headed by the grand champion Big Hadley Jr.; large, roomy, prolific sows. Am pricing the grand champion boar Robidoux; also special prices on fall and spring boars. A number of herd headers among them priced for quick sale. A. J. ERHART & SONS, Ness City, Kan.

## As Good As Grows

Comparison with other herds most earnestly invited. Smooth, Extra Smooth Price and Extra Smooth Price 2nd, herd boars at the top. History makers. L. C. Walbridge, Russell, Kansas

## DUROC-JERSEY HOGS.

Duroc-Jersey Gilts Bred for March and April farrow, bred to a good son of champion Critic B, and a grandson of the champion Perfect Col. May boars and fall pigs, either sex. R. T. & W. J. GARRETT, STEELE CITY, NEBRASKA

## Taylor's World Beater Durocs

The large good kind of spring boars \$25 each. Booking orders for fall weaned boars \$12.50; also sow pigs \$14. Prepay express charges on weanlings anywhere in Missouri, Kansas or Oklahoma. JAMES L. TAYLOR, OLEAN, MILLER CO., MO.

## BALDWIN DUROCS

Open gilts \$20, or for \$30 will keep and breed to "Graduate Prince", our new herd boar, that has won as many State Fair prizes and sired as many prize winners as any boar in the state. Weight 900. Call and see him. Service boars \$25. Some extra choice baby boars at \$12.50, sired by "Model Top Aralo". A prize winner at both the Kan. State fairs last year. Order now. \$100 takes the pick. R. W. BALDWIN, Conway, Kan. of our baby Shorthorn bulls.

## DUROC JERSEY HOGS.

DUROC HERD BOARS, three spring boars from premium stock. Low prices. JACKSON & COUNTER, Crawford Bldg., Topeka, Kan.

HIRSCHLER'S DUROCS Best of breeding. Spring Gilts bred or open. Priced for quick sale. Write today. E. L. HIRSCHLER, HALSTEAD, KANSAS

## Immune Duroc Boars

Herd headed by farmer's kind, bred close to grand champions on both sire and dam side. Prices reasonable and satisfaction guaranteed. Write today. G. E. Woodell, Winfield, Ks.

## DUROCS ON THE BARGAIN COUNTER

Trled sows, fall yearlings, gilts bred for early litters, April boars, July and September boars and gilts are ready for immediate shipment and every one priced worth the money. Write me what you want to buy. J. E. WELFER, FAUCETT, MISSOURI

## Country Gentleman 132541

Last chance to get boars sired by this great boar. Also some good ones by Gold Medal 176231. We are keeping his gilts and offer him for sale. Everything immune and farmer's prices. W. R. HUSTON, AMERICUS, KANSAS

Duroc-Jerseys Johnson Workman, Russell, Kansas

## JONES SELLS ON APPROVAL

This means just what it says. 50 Sept. and Oct. Duroc Jersey pigs. Write for breeding and I will convince you. Pedigree with every pig. W. W. JONES, CLAY CENTER, KAN.

## Guaranteed Duroc Bred Gilts

Immune Duroc Jersey gilts with size, bone and stretch. Guaranteed in farrow. Shipped to you before you pay. F. C. Crocker, Box B, Filley, Neb.

## Big Type Herd Boars

25 husky spring boars. Crimson Wonder, Illustrators, Good Enuff, Golden Model breeding. All immune. Prices right. Descriptions guaranteed. G. M. Shepherd, Lyons, Kan.

## BONNIE VIEW STOCK FARM

Duroc-Jerseys Spring boars and one fall yearling boar for sale. SEARLE & COTTE, BERRYTON, KANSAS

## DUROC-JERSEY BOARS ON APPROVAL

15 spring and fall yearlings ready for hard service. \$30 to \$40. Shipped to you before you pay. Fully guaranteed. I've got one for you. GEO. F. SCHWAB, CLAY CENTER, NEBRASKA

## TRUMBO'S DUROCS

August boars \$15. Summer gilts \$12.50, also the herd boar Crimson McWonder for \$125, a great herd boar that should head some good herd. All immune. Satisfaction guaranteed. Wesley W. Trumbo, Farbody, Kan.

## DUROCS OF SIZE and QUALITY

Herd headed by Reed's Gano, first prize boar at three State fairs. Spring boars and gilts, from the champions Defender, Superba, Crimson Wonder and Golden Mod. JOHN A. REED & SONS, Lyons, Kansas

## Private Sale, Boars and Gilts

20 Duroc Jersey boars, March farrow and 15 gilts same age. Priced to sell. Also a choice lot of fall pigs, either sex. Address A. E. Sisco, Topeka, Kan. Phone 3026 Wakarusa

## Bancroft's Durocs

Guaranteed immune. No public sales. Fair private sale. Spring boars and gilts open or will breed to order for spring farrow. Pairs or trios not related. September pigs weaned November 1st. D. O. Bancroft, Osborne, Kans.

## Duroc-Jersey Bred Sow Sale Feb. 7

50 Duroc Jersey bred sows and gilts go in this sale combining size, quality and breeding that will challenge any like number to be sold this winter. I will book you for a catalog any time. E. J. MOSER, GOFF, KANSAS

## CRIMSON ORION KING 195345

A very classy lot of Duroc Jersey March gilts. Big type, well grown out. Carry the most noted blood lines. Bred to Crimson Orion King, Premier Illustrators and Valley King the Col. Lant Bros., Dennis, Kansas INTERURBAN STOP 64

## Missouri's Champion Herd of Durocs

BRED GILTS: Fine spring gilts by champion sires and out of champion dams and bred to champion boars. Write for prices. Every one guaranteed as represented. CHAS. I. TAYLOR, OLEAN, MISSOURI



## SHEEP.



**REGISTERED SHROPSHIRE RAMS** Yearlings and two, square built, hardy bucks with weight, bone and heavy fleece. Quick shipping facilities and priced cheap. 412 head. Near Kansas City. Howard Chandler, Charleston, Iowa.

## WESTERN EWES

Bred to pure-bred Shropshire rams, for sale in any number desired.  
Geo. C. Fritchard, Rt. 2, Topeka, Kan.

## ABERDEEN ANGUS CATTLE.

**ANGUS CATTLE** 150 young bulls and heifers ready to ship.  
Berkshire Hogs  
SUTTON & PORTEOUS, Lawrence, Kan.

**Aberdeen Angus Cattle** Herd headed by Louis of View-point 4th. 150024, half brother to the Champion cow of America.  
Johnson Workman, Russell, Kan.

## 17 Angus Bulls

In ages from six to 12 months old. Can ship over Santa Fe, Union Pacific and Rock Island. Will sell some cows and heifers. Address,  
H. L. Knisley & Son  
Talmage, Kan. (Dickinson Co.)

## HEREFORD CATTLE.

## Registered Hereford Bulls

One 2-year-old, weight 1600 pounds; one extra good May calf, weight 600 pounds, and several other bull calves; also some good Percheron stud yearlings.  
Mora E. Gideon, Emmett, Kan.

## Spring Creek Herefords

Three yearling bulls for sale. Address  
S. D. Seever, Smith Center, Kansas



## HEREFORD FARM

Our Herefords prove profitable in the hands of their purchasers. Best of breeding and individual merit.

T. A. Wallace Barnes, Kan.

## RED POLLED CATTLE.

**FOSTER'S RED POLLED CATTLE** Write for prices on breeding cattle.  
C. E. FOSTER, R. R. 4, Eldorado, Kansas.

**RED POLLED** cows and heifers, bred or open, also two May bull calves.  
I. W. FOULTON, MEDORA, KANSAS.

**MORRISON'S RED POLLS** Cows and heifers for sale. Write us your wants.  
Chas. Morrison & Son, Phillipsburg, Kansas

## Pleasant View Stock Farm

20 Red Polled heifers and young bulls for sale; can furnish herds not related. Also Percheron horses and Poland China hogs. Halloran & Gambrill, Ottawa, Kan.

## Riley County Breeding Farm

## RED POLLS—PERCHERONS

25 cows and heifers for sale. Young bulls ready for service in the spring. Inspection invited.

Ed. Nickelson, Leonardville, Kan.

## JERSEY CATTLE.

**Registered Jersey Bulls** Excellent Breeding. Percy Lutz, Mount Hope, Kansas

**Jersey Bull** Rhoda's Blue Fox No. 149901, good enough to head any herd, coming two, \$100. Frank Friend, Alta Vista, Kan.

## LINSOTT JERSEYS

R. J. LINSOTT, HOLTON, KANSAS

## FANCY BRED JERSEY BULLS

Four bulls from eight to 24 months old. Some choice young females. Ask for prices and descriptions.  
S. S. SMITH, CLAY CENTER, KANSAS

## The All-Around Jersey

is the farmer's cow. She's his friend and pride—the beautiful, gentle, ever-yielding milk machine that lifts the mortgage, builds up the fertility of the farm, and puts the whole business on a sound, paying, permanent basis. She adapts herself to all climates and all feeds and does not need fancy care. She matures early and lives long. And she's so sleek, clean cut and handsome, as to be the family pet and pride. She produces well and sells well. Learn about her in our fine, free book, "About Jersey Cattle." Write for it now.



THE AMERICAN JERSEY CATTLE CLUB  
355 West 234 St., N.Y. City

sired by some of the best bulls in this country such as Count Victor, by The Gallant, by Avondale. Many of their dams were by a son of Imported Mutineer. Breeders and farmers in the market for good cattle and who expect to pay moderate prices will do well to correspond with Elmendale Farms. Mention this paper when writing.—Advertisement.

## Shorthorn Sale at Omaha.

J. C. Price, manager of the Breeders consignment sales formerly held at Grand Island, Neb., advises us that the annual spring sales will be held at South Omaha, March 15-16, instead of at Grand Island as heretofore advertised. Mr. Price says this change has been decided upon after consulting the breeders that consign stock to these sales.—Advertisement.

## Big Holstein Cows at Auction.

January 19 is the date of the Marshall-Laird dispersion sale of registered and high grade Holstein cattle to be held on the state fair grounds, Lincoln, Neb. About half of the offering are registered cattle and include some very choice yearling heifers and heifers and cows in milk, none of them over five years old. A good many of them will be bred to the great young bull whose dam was a 26-pound cow. About 20 head of the offering will be in milk sale day and a lot more close to calving. Some of the largest yearling heifers and a pair of as choice cows as the writer ever saw are included. The cows are full sisters and sired by Klondyke, a brother to Katy Gerben. One of these cows has an official record of 24½ pounds butter in seven days. Everything old enough will be tuberculin tested and everything sold will have good udders and be straight and all right in every way.—Advertisement.

## Blue Valley Polands at Auction.

Thos. F. Walker & Sons are advertising their big annual Poland China bred sow sale in the new sale pavilion on the farm near Alexandria and Gilead, Neb. The date of the sale is February 7. The offering is immune and is one of the greatest bunches ever sold anywhere in the West. The Walkers seem to have solved the problem of uniformity by maintaining a uniform bunch of sows, both as to breeding and conformation. Some great sires, including Blue Valley, have made their home at Blue Valley Farm but no greater sire ever did service there than Blue Valley Tim. He is an outstanding bull in every way and seems to make a wonderful nick when mated with the Blue Valley blood. He gives them a world of stretch and the high backs that are such a strong feature in the Walker herd. Every reader of this paper that breeds Polands should have a catalog of this sale. It is free for the asking. Mention Farmers Mail and Breeze when writing. If unable to attend, send bids to Jesse Johnson in care of Thos. Walker & Sons at Alexandria, Neb.—Advertisement.

## S. E. Kan. and Missouri

BY C. H. HAY.

Chas. E. Taylor of Olean, Mo., has a number of outstanding bred sows and bred gilts that he will sell very reasonably. Mr. Taylor is one of the state's most progressive Duroc breeders, and you can depend on getting something good if you order from him.—Advertisement.

A. M. Markley of Mound City, Kan., reports that he has sold all of his Shorthorn bulls that are old enough for service. He has a strictly high class young Poland China boar that he says will develop into a 1,000 pound hog and should make some breeder a splendid herd header. He will make a close price on this hog. Also on a few other good ones of the same breeding. If interested write Mr. Markley and mention Farmers Mail and Breeze.—Advertisement.

## Last Call for Carver's Sale.

There are numerous places where you can buy Shorthorns and Polands, but one of the best offerings to be made this season is that of E. E. Carver & Son of Guilford, Mo. The Shorthorn consignment consists of choice young bulls, heifers and cows with calves by their side, the kind that make good on any farm. The Poland Chinas are the best ever offered by the Carvers, and they have bred and sold some good ones. The Carvers have been in the business over thirty years and have won over 400 premiums. If you expect to buy a bred sow or gilt this spring you should attend this sale or send your bid to C. H. Hay of this paper in care of Messrs. Carver. Wire your bid if too late to write.—Advertisement.

## Albechar Farm Holsteins.

Robinson & Shultz of Independence, Kan., have an announcement in this issue of Farmers Mail and Breeze that will interest every lover of Holstein cattle in Kansas. Their offering at this time includes 160 head of females; these are all purebred cattle and include a lot of A. R. O. cows and heifers of the richest breeding. This firm recently returned from Ohio with 134 head of purebred Holsteins which they shipped to Independence by express. This is one of the nicest bunches of Holsteins ever offered readers of Farmers Mail and Breeze at private treaty. Note the display ad of this offering in this issue and for further information and prices write Robinson & Shultz of Independence, Kan., and kindly mention Farmers Mail and Breeze.—Advertisement.

## Lant's Golden Models.

Lant Bros., of Dennis, Kan., owns one of the good herds of Duroc Jerseys in Kansas. They have probably spent as much money for prize winning blood as any other firm in the state. It costs a lot of money to produce and maintain as high class a herd as this firm owns and it is worth considerable money to any farmer or breeder to be able to put such blood in his herd. At present Lant Bros. are offering a classy lot of March gilts. They are big type, well grown and represent the most noted blood lines of the breed. They are bred to Grimsen Orion King, Premier Illustration and Valley King the Col. Students of Duroc pedigrees know these boys are of the very best blood lines obtainable. Lant Bros' prices are reasonable considering the very high quality of their offering. Stop 64, on interurban between Parsons and Cherryvale, Kan., is on Lant Brothers' farm. Visitors are invited to inspect the herd. If interested write them, mentioning this paper.—Advertisement.

Deeper plowing is needed on most fields in Kansas.

## POLLED DURHAM CATTLE.

**Double Standard Polled Durhams** Young bulls and females for sale.  
C. M. HOWARD, Hammond, Kansas.

## Polled Durham &amp; Shorthorns for sale

100 Registered  
Roan Orange, Weight 2100, and  
Sultan's Pride 1st at Kansas, Nebr., Iowa  
Also a few cows and heifers. Strong in  
Heads herd. Will meet trains. Phone 1602.  
J. C. Banbury & Sons, Pratt, Kan.

## Willson's Polled Durhams

For Sale: One 2-year-old herd bull, and three bulls, 8 and 11 months old. Also a few cows and heifers. Strong in Polled Durham breeding.  
Also a few choice Poland sows and gilts, bred to farrow in March and April.  
T. M. Willson, Lebanon, Kansas

## SHORTHORN CATTLE.

## PURE BRED DAIRY SHORTHORNS

Double Marys (pure Bates) and Rose of Sharon families. Offer: 2 year old herd bull. A snap.  
R. M. ANDERSON, BELOIT, KAN.

## Cedar Wild Knight

A 2-year old grandson of Gallant Knight, is offered for sale. Also two, 7-months-old, grandsons of the champion True Sultan. Address JOS. BAXTER, CLAY CENTER, KAN.

## Scotch Topped Shorthorn Bulls For sale

9 to 14 months old; from milking dams. Young Mary's and Orange cows of good size and conformation.  
E. C. SMITH & SON, PLEASANTON, KAN.  
Frisco and Mo. P. Railroads.

## ELMENDALE SHORTHORNS

100 big, rugged bulls, suitable for herd headers, or farm and range use. 50 females of different ages. These cattle are especially good and the prices attractive. Address Elmendale Farms, Fairbury, Neb.

## SALTER'S SHORTHORNS

12 young bulls 6 to 12 months old; Scotch and Scotch topped. One three year old herd header, by Prince Pavonia. These young bulls are by such sires as Rosewood Dale, by Avondale, Silver Hampton and Master of the Dales; also cows and heifers, Scotch, Scotch topped and plain bred in calf to our great herd bulls, but priced so both farmer and breeder can afford to buy. Visitors always welcome. Phone Market 3705. Address, PARK E. SALTER, 203 BITTING BUILDING WICHITA, KANSAS

## Cedarlawn Shorthorn Bulls

For Sale: The two year old herd bull, Mystic Victor, by Vain Victor, by Barmpton Knight. A valuable tried bull sold guaranteed in every way. Young bulls from six to ten months old. Address  
S. B. AMCOATS, CLAY CENTER, KAN.

## Scotch Bulls for Sale

Three pure Scotch bulls from 12 to 15 months old. Also two bulls that will be a year old in the spring. Write for descriptions and prices.  
P. M. Borland, Clay Center, Kansas

## SHORTHORNS

## Scotch and Scotch Topped

Six bulls from six to 13 months old. Reds and Roans. Sired by Scotch Pride, wt. 2200. Prices reasonable considering breeding and individual merit.  
E. P. FLANAGAN, CHAPMAN, KANSAS (Dickinson County)

## Gigstad's Shorthorns

I offer my three year old herd bull, Golden Lad 410260 (wt. about 2200) for sale. He is dark red, gentle and a good sire. 15 young bulls, eight to 11 months old, reds and roans. My bulls and my prices will suit the breeder looking for the kind that build up a herd. Address  
K. G. GIGSTAD, Lancaster, Kan.  
(12 miles from Atchison.) Good R. R. facilities.

## Norton County Breeders Association

SAMUEL TEAFORD, President

CARL BEHRENT, Secretary

Norton County Fair, August 29, 30, 31, Sept. 1, 1917 H. A. JOHNSON, President  
FRED STROHWIG, Secretary

## For Quick Sale

12 extra choice spring Poland China Boars. Big type and good all over.  
Farmers prices. C. F. Behrent, Oronoque, Kan.

## 25 BRED SOWS

and gilts bred for spring farrow. 5 spring boars and fall boar pigs.  
Everything on approval. J. F. Foley, Oronoque, Kan.

## Poland China Pigs.

25 fall pigs at low prices. Either sex. Can ship over Rock Island or Mo. Pacific. Geo. W. Goodman, Lenora, Kan.

## Poland China Bred Gilts

Some very choice spring gilts sold either bred or open. Write for prices. PETER LUFT, Almena, Kan.

## Shorthorns

Six dark red bulls nine to eleven months old. Pioneer, a grandson of Avondale and Whitehall Sultan heads our herd. N. S. LEUSZLER & SON, Almena, Kansas.

## SHORTHORN CATTLE.

## OUR HERD BULL

Abbotsford Lad 2, 395841, a pure Scotch bull, three years old, deep red, good disposition and a good breeder. We are keeping every heifer he has sired. Priced to sell quick. Also bull calves six to 10 months.  
Chester A. Chapman, Ellsworth, Kansas

## GOODLIGHT 367939

by Searchlight 292031, my 4-year old Short-horn herd bull, is for sale. I am keeping all his 2-yr.-old and yr. heifers. A magnificent breeder. Address A. H. Cooper, Natoma, Kan.

## SHORTHORNS Private Sale

Seven bulls from eight to fourteen months old. Also cows and heifers. Shipping point Wamego. Oldest herd in Potawatomi county. Address  
W. T. Ferguson, Westmoreland, Kan.

## Symphony's Last 395198



is now for sale, 4 yrs. old. Keeping all of his heifers. Write for price at once  
H. C. Graner, Lancaster, Kansas

## Shorthorn Bulls

12 that will be ready for service in the spring. Four of them polled and eligible for registry in the Polled Durham book. Priced to sell and they are good ones. Address,  
V. A. Plymat, Barnard, Kan.

## Scotch and Scotch Tops

A choice lot of young bulls from 8 to 10 months old for sale. Sired by Valiant 346162 and Maringo Pearl 391902.

A number of pure Scotch bulls in this offering. For further information address,  
C. W. Taylor, Abilene, Kan.

## Salt Creek Valley Private Sale

25 Shorthorn bulls from six to 12 months old. Also a good three year old bull. All sired by Barmpton Model 338998, by Barmpton Knight. Good breeding and plenty of quality. Inspection invited. Write for further information. Address,  
E. A. Cory & Sons, Talmo, Kan.  
(Pioneer Republic County Herd)

## GREATEST BULL OFFER

10 extra choice bulls 15 to 18 months old.  
10 from 6 to 12 months old. Reds and Roans.

All have from four to six top crosses. If you come you're sure to buy. Address,  
W. F. BLEAM & SONS  
BLOOMINGTON, KAN. (OSBORNE COUNTY)

## Percherons--Shorthorns--Polands

October gilts, bred or open, for sale. Barmpton Bruce, by Lord Bruce heads my Shorthorn herd. C. E. Foland, Almena, Kan.

We have 3 Shorthorn Bull Calves for sale. Got by a great grandson of Imp. White Hall Sultan and out of cows of the Lord Stralham and Golden Fame strains. J. W. Liggall & Sons, Almena, Kan.

## Percherons--Shorthorns--Polands

A few nice spring gilts, by Jumbo Prospect, by Luft's Orange for sale open or bred to order. C. E. Whitney, Almena, Kansas.

## COL. W. M. PATTON, Livestock Auctioneer

ALMENA, KANSAS. Address as above. Devoting my time to the business. Address as above.

## COL. C. H. PAYTON

Purebred stock sales and big farm sales solicited. Write or phone. Address as above.  
NORTON, KANSAS  
L. J. Goodman, D. V. M. Lenora, Kan. Hog vaccination a specialty.



**HOLSTEIN CATTLE.**

**Car Load High Grade Well-Marked HOLSTEIN** cows, 4 to 6 years old, plenty of size, springing to calve. **Hannon Bros., Olathe, Kan., 20 mi. S. W. Kansas City.**

**CHOICE HOLSTEIN CALVES**

10 heifers and 2 bulls, 5 weeks old; nicely marked. \$20 each crated for shipment anywhere. **EDGEWOOD FARM, WHITEWATER, WIS.**

**BRAEBURN HOLSTEINS**

One service bull yet; eleven younger that cost less now than later both to buy and to move. **H. B. Cowles, Topeka, Kan.**

**LILAC DAIRY FARM**

**TOPEKA, KANSAS, R. NO. 2**  
**Breeders of Pure Bred Holsteins**  
Bulls, from A. R. O. cows, all ages for sale.

**Sunflower Herd Holsteins**

**KANSAS' GREATEST HERD**  
Offers cows bred to 30 lb. size. Bull calves from 30 lb. size and A. R. O. dams. Might spare a few heifer calves. Buy the kinds that will make a profit on present high feeds. **F. J. SEARLE, OKSALOOSA, KANSAS.**

**BREED 'EM FROM SIR WALKER JOSIE**

16 months old and very gentle. Carries prepotent ancestry for profitable producers and good udders. **TREDICO FARM, Route 3, KINGMAN, KAN.**

**HOLSTEIN CATTLE.**

**Registered Holstein bull calves for sale, from good cows. Wm. C. Mueller, Hanover, Kansas**

**2 Registered Holstein Bull Calves** for sale, of the best families of milking strains. **W. T. LEWIS, HOWARD, KAN.**

**Choice High Grade Holstein Cows** carrying second soon. All well marked, tested by the Dickinson County Cow Testing Ass'n. **S. W. LENHART, ABILENE, KANSAS**

**Holstein Heifers to Freshen Soon**  
One yearling bull, one eight months and one three. All registered. **BEN SCHNEIDER, Nortonville, Kan.**

**Segrist & Stephenson, Holton, Kansas**  
Prize winning registered Holsteins. Bulls from three months to yearlings for sale. Address as above.

**HOLSTEIN CALVES** high grade Holstein calves either sex, 3 to 4 weeks old, \$20 each. Express prepaid. **BURROCK FARM, WHITEWATER, WIS.**

**Registered Bull Calves** for sale from cows with official butter and milk records, also can spare a few cows. **HIGGINBOTHAM BROS., MUSKOGEE, OK.**

**HOLSTEIN CALVES** Choice bulls and heifers. 15-16ths pure. Beautifully marked, \$20 each, crated. Write us. **FERNWOOD FARM, WAUWATOSA, WISCONSIN**

**TORREY'S HOLSTEINS**

Cows and heifers, young springing cows well marked and exceptionally fine; also springing and bred heifers and registered bulls. See this herd before you buy. Wire, phone or write.

**O. E. TORREY, Towanda, Kan.**

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank.

**Holstein Friesian Farm, Towanda, Kan.**

Pure Bred Holsteins, all ages, strong in the blood of the leading sires of today, headed by Oak De Kol Bessie Ormsby 156789. Special offering in choice young purebred bulls, ready for service, from tested dams. Let us furnish you a bull and improve your herd. TWENTY-FIVE purebred females, young useful Holsteins with A. R. O. records from 12 to 26 lbs. butter in seven days.

**BEFORE YOU BUY, TALK WITH US**

We have an especially large, choice selection of extra high grade young cows and heifers due to freshen this fall and early winter, all in calf to purebred bulls. These females are large, deep bodied, heavy producers, with large udders, all well marked individuals and the right dairy type. Our offerings are at prices that challenge comparison for Holsteins of their breeding and quality. High grade heifer calves \$25. Send draft for number wanted. Let us know what you want in Holsteins, and we will be pleased to send you descriptions, and prices. Keep us in mind before purchasing. Wire, write or phone us.

**GIROD & ROBISON, Towanda, Kansas**

**THE HOLSTEIN-FRIESIAN ASSOCIATION OF KANSAS**

as an organization offers nothing for sale but desires to supply valuable information free to prospective buyers. The object of this association is to protect the interests of the breed in Kansas. Are you a member?

Write **W. H. MOTT, SEC'Y., HERINGTON KANSAS**

**50 HEAD HIGH-GRADE COWS AND HEIFERS FOR SALE**

All heavy springers, bred to a registered Holstein bull. Every animal a good one. We are interested in the distribution of the best Holstein cattle that can be procured; we will not be the agency of distribution of the inferior kind. We have no bulls for sale, all sold at this time. A new crop of Canary Butter Boy King calves coming on now. Come at once and see our offering or write for description and prices. **W. H. Mott, Herington, Kansas**

**NORTHVIEW HERD OF HOLSTEINS**

Start the new year right. Get the best—the cheapest in the long run. Three year old heifers due to freshen soon. Large, well marked and well bred. Registered bulls.

**LACKLAND BROS., AXTELL, KANSAS, (MARSHALL COUNTY)**

**HOLSTEINS**

Choice cows and heifers showing in calf to pure bred bulls. Selected for size, color and milk production, from the best dairy herds of the east. You will find nowhere a better herd from which to select. Prices reasonable. Write, phone or wire

**J. C. ROBISON, BOX A, TOWANDA, KAN.**

In 1887 Lee Bros. father brought the first imported Holstein cows to Wabaunsee county.

In 1916 Lee Bros. & Cook have the largest pure bred and high grade herd in Kansas.

**200 Holstein Cows, Heifers and Bulls**

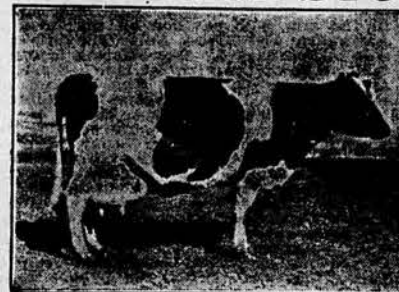
**Registered and High Grade. 3 Cows and a Registered Bull \$325**

We are selling dealers in Kansas and Oklahoma. Why not sell direct to you? 100 cows and heifers that will freshen in 30 to 40 days, all bred to A. R. O. bulls. We have others to freshen on up to March. We have A. R. O. bulls from calves up to three year olds. Bring your dairy expert along, we like to have them do the picking. Every animal sold under a positive guarantee to be as represented. Well marked, high grade Heifer and bull calves from 2 to 8 weeks old. Price \$22.50 delivered any express office in Kansas. We invite you to visit our farm and can show you over 300 head of cows and heifers, sold to our neighbor farmers. Wire, phone or write when you are coming.

**LEE BROS. & COOK, Harveyville, Wabaunsee Co., Kan.**



Sir Juliana Grace's-De Kol, the Sire at the Head of this Herd.

**OAKWOOD STOCK FARM COWS**

**50 HOLSTEIN COWS—50 JERSEY COWS and HEIFERS.** All fresh now and in January.

This is an offering at private sale of high grade cows and heifers that should be investigated by anyone wanting to buy. They are freshening now and all will be fresh by the middle of January. Many of them are high testing cows with records of from 40 to 60 pounds of milk per day. All tuberculin tested. Information gladly furnished by return mail. Visitors met at Salina in auto. Farm two miles out. Bank references if desired. Bring your neighbor and we will get together on prices. Phone 1819 F-2. Address

**M. E. Peck & Son, Salina, Kan.**

**T. P. TEAGARDEN'S BIG DISPERSION**

**Wayne, Kan., Thursday, Jan. 25**

High grade Holstein cows and heifers and one registered bull. Consisting of six two year old heifers giving milk and bred. Four yearling heifers and a few heifer calves. Two high grade Jersey cows and two Shorthorn cows, almost purebred, are giving milk and those that are not will be fresh by sale day. The registered bull was bred by L. F. Cory & Son.

**Duroc-Jerseys**

19 head of sows and gilts will be sold, all bred to farrow in March and April. They are as choice as any like number that will be sold in the West this winter. Mr. Teagarden is the well known pioneer Duroc Jersey breeder and has kept his herd well to the front. Also two valuable herd boars. Other horses and stock will be sold. For further information and literature address,

**T. P. TEAGARDEN & SON, WAYNE, KAN.**

Auctioneer—Jas. T. McCulloch. Fieldman—J. W. Johnson.

**Albechar Farm Holsteins**

One hundred sixty head of females. All pure breds, and registered. Bred cows, heifers, heifer calves, and young bulls. We can spare a carload of either young cows or heifers. Can make prices on one, or more. Selected and bred with special care, with reference to health, individuality, breeding, and productive ability. In this herd are more than A. R. O. cows, from fifteen pound two year olds, to twenty-four pound cows. Daughters and granddaughters of King Segis Pontiac Korndyke, Pontiac Aaggie Korndyke, King Spofford Walker, King Hengerveld Model Fayne, and Sir Juliana Grace De Kol. Prices consistent with good breeding and individuality. Write for particulars and prices, or better still come and make your own selections. Address

**ROBINSON & SHULTZ**

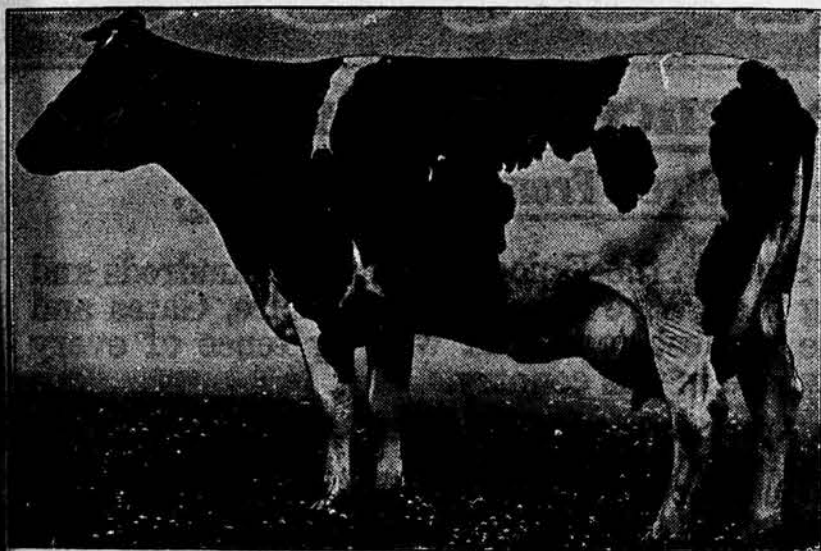
**Independence**

**Kansas**



## SALE OF Holstein Friesian Cattle

Council Grove, Kan., Wednesday, Jan. 17



60 head of high grade cows and heifers, all heavy springers, with the exception of 10 head of heifers bred by the Haskell Institute of Lawrence, Kan. These heifers are long yearlings, due to freshen next summer; they are consigned by W. H. Dodderidge of White City.

Frank Meyers of Belvidere, Ill., has consigned 25 head of as choice Holstein cows as ever come to Kansas. All bred to registered Holstein bull and due to freshen soon.

Lester Lowe of Council Grove, is consigning 25 head of two-year-old heifers all heavy springers. The extra large growthy kind, combining type and constitution.

This will be a sale in which every animal is sold with a positive guarantee to be as represented. It will be an excellent opportunity to buy the best grade Holsteins that can be bred at your own price. There never was a time when the future outlook for dairy business was as good as it is today.

The sale will be held in the new sale pavilion at Council Grove, rain or shine; plenty of seating room and accommodation to make everyone comfortable. Sale to begin at 1 o'clock.

For detailed information concerning this sale write to the Holstein sales manager,

**W. H. Mott, Herington, Kansas**

## Holstein Cattle Dispersion Sale

In cattle barn State Fair grounds  
Lincoln, Nebr., Jan. 19, 1917



**60 Head** Tuberculin Tested and Guaranteed Right in Every Way **60**

About one-fourth of the offering are registered cattle, heifer calves, yearlings, choice young cows, and the registered, nearly white, fifteen months old bull, Duke Johanna Inka 8th. A big per cent of the offering will be bred to him. Everything in the sale of breeding age will either be in milk or close to freshening. The Grades include the 1600 lb. four-year-old cow, Jewell, the champion grade cow of Nebraska. 24½ lbs. butter in seven days. 529 lbs. milk in 7 days. This test was made by the State Farm at Lincoln. This cow was sired by Klondyke, a half brother to Katy Gerben and Lama May, Nebraska's champion cow. Quite a lot of the offering is of the same breeding. They have lots of size, good even udders and must be seen to be appreciated. They are Nebraska grown cattle.

**R. C. Marshall, }  
C. B. Laird, } Lincoln, Neb., R. F. D. 4**

Auctioneer—Col. Z. S. Branson. Fieldman—Jesse Johnson.

## C. C. Calkins' Shorthorn Sale

At the farm. Autos or teams will meet trains at both Burlingame and Harveyville. The sale will be held in comfortable quarters and a hot dinner will be served at the farm.

**Burlingame, Kan.,  
Thursday, January 18**

32 head of cows and heifers, all of Mr. Calkins' own raising and combining the breeding of several noted Shorthorn families.

14 cows in the prime of their usefulness that will drop calves between now and June first. 13 two year olds and yearlings, sired by Mr. Calkins' herd bull Favorite 375436, by Milkman, he by the great show bull Cyrus Clay 247916. Three young bulls that will be ready for service in the spring and a splendid two year old bull that is an attraction in this sale. The cows were sired by Ivanhoe 309090, a great Scotch bull of the Violet tribe, bred by Andrew Pringle. All of the young stock are by Favorite, a ton bull, in good flesh. Everything sold will be in very ordinary flesh and not highly conditioned for the sale.

**Percherons** 1 stallion colt, 2 years old in June, sired by Scipion and out of a Casino dam and a filly same age, sired by Scipion will be sold. Also 10 head of young high grade Percherons will be sold.

For a catalog, which is ready to mail, address,

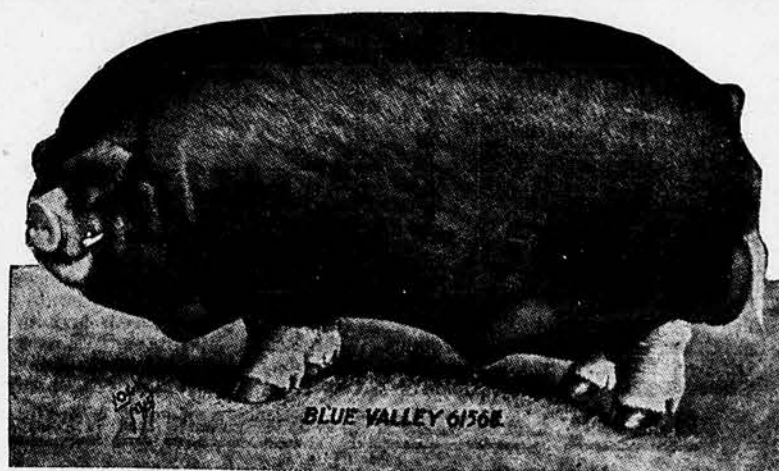
**C. C. Calkins,  
Burlingame, Kansas**

Auctioneers—Chas. Crews, J. W. Busenbark. Fieldman—J. W. Johnson. When asking for the catalog mention this paper.

## Walker & Sons' Immune Poland China Sows at Auction

Sale will be held in our big new sale pavilion on the farm near

**Alexandria, Neb., Wednesday, Feb. 7, 1917**



**66 HEAD** Sired By or Bred to Herd **66**  
Boars of Known Merit

25 TRIED SOWS AND FALL YEARLINGS.

41 SPRING GILTS, sired by BLUE VALLEY, BLUE VALLEY ORANGE and BLUE VALLEY TIMM, the greatest son of the grand champion Big Timm. The offering will be bred to the boars mentioned. A big per cent of them not bred to BLUE VALLEY are either sired by him or carry some of his blood. We will show you spring gilts weighing 400 sale day. Write at once for catalog and mention Farmers Mail and Breeze. A SPECIAL TRAIN will leave Fairbury over Rock Island, at 9:30 morning of sale and return from Gilead right after the sale. Gilead is only four miles from the Walker farm. Send bids to Jesse Johnson in our care.

**THOS. F. WALKER & SONS, Alexandria, Neb.**

Aucts.: H. S. Duncan, J. C. Price. Jesse Johnson, Fieldman.



# 10½¢ A Rod

## The Very Best Wire Fence Ever Made.

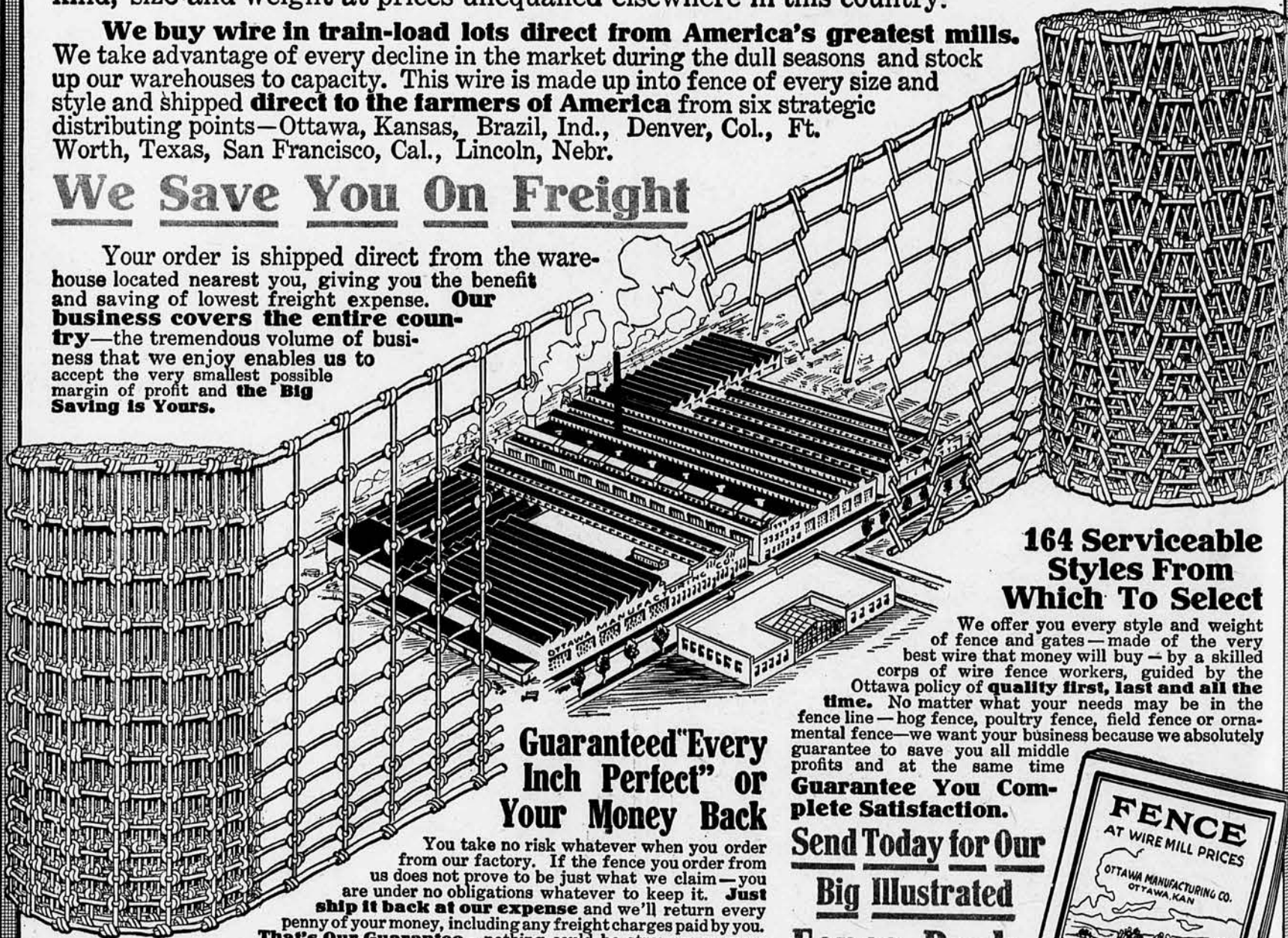
**This Low Price Possible Because We Sell Direct From Our Big Factory.**

**T**HOUSANDS of farmers, living in every State in the Union have saved hundreds and thousands of dollars every year by buying their Wire Fence, Barbed Wire, Gates and supplies direct from us. You can buy the highest quality of wire or fence of every kind, size and weight at prices unequalled elsewhere in this country.

**We buy wire in train-load lots direct from America's greatest mills.** We take advantage of every decline in the market during the dull seasons and stock up our warehouses to capacity. This wire is made up into fence of every size and style and shipped **direct to the farmers of America** from six strategic distributing points—Ottawa, Kansas, Brazil, Ind., Denver, Col., Ft. Worth, Texas, San Francisco, Cal., Lincoln, Nebr.

## We Save You On Freight

Your order is shipped direct from the warehouse located nearest you, giving you the benefit and saving of lowest freight expense. **Our business covers the entire country**—the tremendous volume of business that we enjoy enables us to accept the very smallest possible margin of profit and **the Big Saving is Yours.**



## 164 Serviceable Styles From Which To Select

We offer you every style and weight of fence and gates—made of the very best wire that money will buy—by a skilled corps of wire fence workers, guided by the Ottawa policy of **quality first, last and all the time.** No matter what your needs may be in the fence line—hog fence, poultry fence, field fence or ornamental fence—we want your business because we absolutely guarantee to save you all middle profits and at the same time

**Guarantee You Complete Satisfaction.**  
**Send Today for Our**

## Big Illustrated Fence Book

—all styles fully described and priced at a figure that will open your eyes.



## Guaranteed "Every Inch Perfect" or Your Money Back

You take no risk whatever when you order from our factory. If the fence you order from us does not prove to be just what we claim—you are under no obligations whatever to keep it. **Just ship it back at our expense** and we'll return every penny of your money, including any freight charges paid by you. **That's Our Guarantee**—nothing could be stronger or more liberal—**It means your protection** and at the same time indicates our confidence in our product. **We know "Ottawa" Fence is right**—that the Ottawa Non-slip Tie is the most valuable idea ever used in fence manufacturing. **It Cannot Slip**—it is guaranteed not to slip—it will hold under any and all conditions.

## Heavily Galvanized—Withstands All Weather Conditions.

Years and years of service go with each roll of Ottawa Wire Fence. If it fails to make good in **any** way—tear it down and ship it back to us. If it ever slips—send it back—your money will be waiting for you.

## FREE! BIG BOOK of Wire Mill Bargains

**Send for it Today.** You will find our Big Free Wire Fence Catalog the most interesting and instructive book on the subject of wire fence ever issued. Filled with pictures showing just how Ottawa Fence is made—the 164 styles we offer, all fully described. This book is a sure guide in fence buying.

**USE THE COUPON**—or a postcard—send your name and address for a copy of our **free 40-page fence book**—it means money in pocket.

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## FREE BOOK COUPON

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Send me your Big 40-page Wire Fence Book, showing fence of all kinds and weight, at a saving of All Middle Profits.

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