

# The FARMERS MAIL AND BREEZE

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## Seed Production Pays Well

Care is Required to Keep the Crops Pure

BY F. B. NICHOLS, Field Editor

**T**HERE is a fine opportunity in almost every community in Kansas for a few farmers to get into the business of producing good seed. The crop yields could be raised very materially if this were done. Better seed is needed, and it is important that this should be adapted to the local conditions.

An especially good opportunity is offered in the growing of wheat for seed. It is true that Kansas is a great wheat state, but its leadership is based on an immense acreage and not on high yields. The yields are really disgracefully low when the good adaptation of the soil in this state to wheat is considered. Well-bred seed will increase these yields without any additional expense after the seed is purchased, for the forces of heredity act without expense.

There is very little pure wheat seed in Kansas. Most of it is very badly mixed, with a fearful lot of wheat weeds, and several wheat types. Much of it contains a great deal of rye. Scrub seed which has all of these mixtures cannot be expected to produce the highest yields, and it doesn't. What we need in Kansas is wheat from pure, high-yielding strains, which have a high milling value.

Farmers who have a special interest in good wheat must produce this seed. Its production requires considerable care and knowledge; more, perhaps, than the average man will give. If there are one or two men in every community, as there are in many communities, who are producing seed that is noted for its purity and high production, they usually have no special trouble in working up a good seed trade with their neighbors.

It is extremely important that a man should get good foundation seed when he is starting in a business of this kind. Take advantage of all the care and painstaking work which has been done in the past. You will have no special trouble in getting good foundation seed if you will go at it intelligently. There are many growers in the state who have seed that can well serve as founda-

tion stock for a man who expects to go into the purebred seed business.

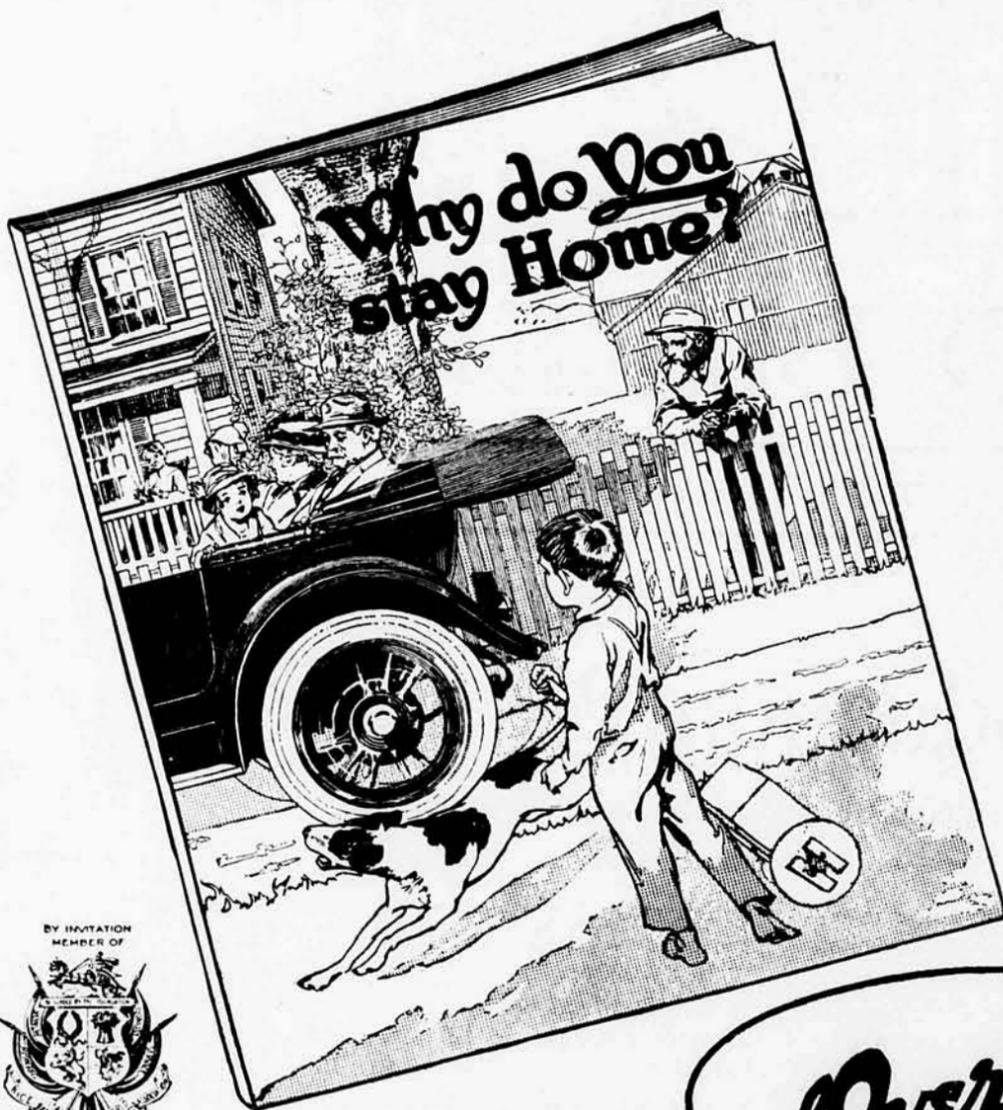
There is just as good an opportunity to produce soft wheat seed, in the soft wheat section in eastern Kansas, as there is in the growing of hard wheat seed farther west. Indeed, in some ways it is better, for fewer men are making an effort along this line. The condition of the average lot of soft wheat in this state is disgraceful, it is quite noticeably poorer than the hard wheat farther west.

A great deal of effort is required in keeping wheat seed pure. This is largely because most of the threshing is done in Kansas with commercial outfits, and a great deal of the seed is mixed by being carried from farm to farm. To prevent this, one should always thresh the oats or other grain first, if such crops are grown. If wheat is the only grain crop produced, it is well to let a large quantity of grain go through, say 100 bushels or more, before the seed is saved.

The production of the seed of drouth-resistant crops offers a fine opportunity, as shown by the experience of such men as W. G. Shelly at McPherson, Lee H. Gould at Dodge City and J. K. Freed at Scott City. The increasing appreciation of the value of drouth-resistant crops in western Kansas has created a fine demand for seed, which is not being properly filled. The men who are in the business are doing good work, but there is room for many other farmers to produce the seed of kafir, sorghum, milo, feterita and Sudan grass. The demand for well bred seed of these crops will increase.

There is considerable trouble which one will encounter just as soon as he takes up the production of these crops, in their determination to cross and get all mixed up. This makes it essential that one should continue cutting out the objectionable heads, to make sure that they do not get into the commercial seed. This is where much of the constant care and attention comes in the seed production business with drouth-resistant plants.





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# THE FARMERS MAIL AND BREEZE

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## Freed Sorgho is Winning

### White-hulled Kafir and Sudan Grass Also Grow Well at Scott

By F. B. Nichols, Field Editor

**F**EW men ever progress in crop growing to the point where they can originate their crops, and have these crops named for them. Kansas has a man, however, who does his own work on his Scott county farm, who has originated a crop that is having a big part in the making of the agriculture of the West more profitable. This is J. K. Freed of Scott City. There was a big acreage of his Freed sorghum planted in western Kansas last year.

Mr. Freed is the owner of The Meteors, a 320-acre grain and stock farm three miles from Scott City. He has been interested in the improving of the drouth-resistant crops for many years, for he has realized that it is essential in the building up of the agriculture of the West that varieties of grain and forage crops should be developed that would

itable results in the western counties, for it is very drouth-resistant, much more so than most of the crops commonly grown here. It has been tested under these conditions for so long that its place is assured; we know it is a success. There is certain to be a considerable increase in the acreage in the next few years."

Early maturity is a feature of this crop. Just the time it takes for maturity varies with the growing conditions, of course, but it frequently matures in 70 days, and sometimes in less than this if the conditions are favorable. It may be planted rather late and still have a good chance for maturity.

Another drouth-resistant crop that has given especially good results is the White-hulled White kafir. This strain was originated at the Hays station in 1908 by Mr. Cunningham, and he did a great deal of work on it in the three years he was stationed there. There are several types in it, and the aim in the breeding in the future will be to separate these types. It is especially well adapted to the dry, high conditions of western Kansas; it is the best kafir for the conditions there, Mr. Cunningham said. It has done better on the Freed farm than any kafir.

#### The Different Yields.

There is a remarkable difference in the yields obtained with this variety and with the African kafir planted next to it. The African kafir made a good start in the spring, and the outlook for a crop was fairly promising until the stalks began to form heads, and then a few things happened. One of the most surprising things was the strange number of types of heads the crop produced. Several of these were open, ill-formed heads with a deficient number of seed stems. Taken all together the crop has been a disappointment to Mr. Freed.

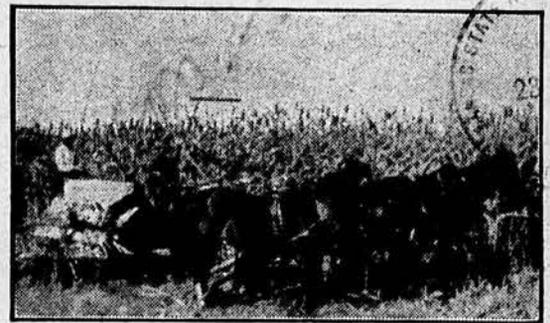
The worst thing about the African kafir has been the way it has been attacked by smut. The percentage of loss was very high. Of course it is true that smut damage in kafir usually can be almost completely overcome by the proper treatment—and kafir seed should always be treated if there has been any smut damage with the previous crop—but the fact remains that a mighty small percentage of Kansas farmers are treating their seed for smut. Therefore the fact that African kafir does not resist smut damage well is going to tend to hold down an increase in its acreage in Kansas.

Sudan grass has been a big success with Mr. Freed. This is a crop that has done well in western Kansas, and there is more interest in it than in perhaps any other forage crop. It has produced fine yields in almost every case, and it is certain that there will be a great increase in the acreage next year—the only thing that will hold this down will be the limited supply of seed.

"There is just as important a place for Sudan grass to produce hay on the uplands of western Kansas as there is for the growing of alfalfa where that crop will do well," said Mr. Freed. "There has been a very definite need for many years here for a good hay crop that is well adapted to upland conditions, and we have it at last in Sudan grass. The drouth-resistant characters are remarkably well developed in this crop."

Mr. Freed has had a big part in the upbuilding of the drouth-resistant crops of the West, for he has had the patience to keep working with them year after year, and the intelligence to breed them along definite lines. Many of the strains and varieties he has tested have been of no value, of course; but it has been a fine thing to have some man in that section to test these varieties, to find out whether their general introduction would pay. Mr. Freed intends to reduce the number of varieties he is growing; except the testing of new kinds on a very small scale. In speaking of this a few days ago, he said:

"From now on the main crops on this farm will



be White-hulled White kafir, Freed sorghum and Sudan grass. All of these varieties have been found to be well adapted to our conditions here, and they all will pay well if they are handled properly. These are crops that will have a big influence in making agriculture in western Kansas more profitable."

The work which Mr. Freed has done with the sorghums has become of special value in the last two years since the use of pit silos has become so general. With the increase in pit silos is coming a greatly increased interest in livestock and also an actual increase in the number of farm animals in many sections, and therefore it is essential that more feed should be produced. At once the need comes for crops that will produce a large quantity of forage.

Some sections of western Kansas are blessed with an underflow so near the surface that it will pay well to pump it. When this is the case one need not be so careful to plant crops that are extremely drouth-resistant. Of course the main thing is to get high yields if all the water needed is available. If this water cannot be obtained, however, and if the crop must depend on the moisture that actually falls on the soil in the form of rain or snow, the drouth-resistant qualities of the crops become extremely important. Unless crops are planted that will grow under unfavorable conditions, and stand for days waiting for rain, there may be no yield.

The success Mr. Freed has had with breeding up these western Kansas crops, and especially with the Freed sorghum, merely proves the old saying that it pays for a man to study his business. Mr. Freed has done some mighty efficient work that will have a lasting impression on the agriculture of Kansas. He is the type of the constructive leader needed to help to increase the profits from farming.



Harvesting the Sudan Grass Crop.



Cutting Freed Sorghum for Grain.

withstand prolonged periods of dry weather. Much of his work has been done in co-operation with the Kansas State Agricultural college and with the Bureau of Plant Industry of the United States Department of Agriculture.

Some very elaborate tests have been carried on; as a rule dozens of strains and varieties have been planted every year in small lots. Larger plantings were made of the varieties that were especially profitable. The noted Freed sorghum was discovered by Mr. Freed in 1909, and its merit was soon recognized by the agents of the Bureau of Plant Industry. A recent circular issued by that bureau on saccharine sorghums, in giving a description of this variety, says:

"The Freed variety was originated on the farm of J. K. Freed, Scott City, Kan. It is a rather small, extremely early sorghum, with semi-sweet stalks and large, almost pure white seeds. These seeds are practically free from tannin, so that we have in this a dual-purpose sorghum, useful both for fodder and seed. It is even earlier than the Dakota Amber and is adapted to the same region. The Freed sorgho has been known by the names 'White Amber', 'White Kaoliang', and 'White Sorgho.' It should be planted a trifle thicker than the other sorghums, as it does not germinate so well."

This sorghum is valuable for both grain and forage, and it has been so carefully bred by Mr. Freed and by the agents of the Bureau of Plant Industry that the type is fairly well fixed. The ideal has not been quite the same with both, as Mr. Freed has been breeding the crop with the special idea of getting a high yielding grain crop, while the specialists have paid more attention to the value of the crop for forage. The crop gave a high yield of both grain and forage last year, even if the rainfall in Scott county was below normal.

"There is a very definite place for the Freed sorghum in Kansas," said C. C. Cunningham, assistant in co-operative experiments at the Kansas State Agricultural college. "It has given especially prof-

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## Passing Comment — By T. A. McNeal

### The Ferris Plan for Farm Co-operation

In times past I have called attention to the plan for a co-operative farm, suggested by Mr. Ferris, of Osage City. I believe this plan has merit and there is no particular reason that I know of why it should not be undertaken.

Although this plan has been given space in the Farmers Mail and Breeze before, I am so much interested in the idea that I will try to explain it again.

Mr. Ferris's plan is to organize great communities or co-operative farms 15 miles square with a town in the center. The 15-mile square tract would be divided into 24 ranches of nine sections each. The center of each ranch would be reached by trolley lines extending from the town in the center. Now if you will take a sheet of paper and draw a square on it representing 15 miles on each side and then draw the section lines through this square so as to subdivide it into 225 sections, then further subdivide the whole tract into squares of nine sections each or each three miles square you will have Mr. Ferris's idea as to the general division. He then would establish a system of trolley lines as has been said, to the center of each ranch, connecting that ranch with the central town.

The greatest distance to be traveled by trolley to reach a ranch center would be 18 miles. The shortest distance would be three miles. The total number of miles of trolley lines to be built would be 84.

Mr. Ferris estimates one family on this great co-operative farm for each 80 acres, which estimating six persons to the family, would make a total population for the central town of 10,752.

In the center of each of the ranches heretofore mentioned would be located the buildings and equipment necessary for the work on that ranch. That would comprise the barns for storing the farm products and sheltering the stock, and storing the necessary farm machinery, the cook house for the hands, etc.

The men and women doing the work on the various ranches would live in the central town, going to their work in the morning and returning at night by trolley car and taking their noon meals at the ranch dining hall.

While Mr. Ferris does not say so definitely, I assume that the entire area would be owned or controlled by a co-operative corporation. The central governing body would be a board of commissioners elected I presume, by the stock-holders of the corporation. Each ranch would be under the control of a superintendent and such foremen as might be necessary.

Now as to the advantages: There would be a division of labor as in great factories and all well organized industries. In that way each person would become a specialist in his or her particular line and therefore able to accomplish more than under the present custom where each farmer has to try his hand at a multitude of things and has neither the time nor the training to do all of them or perhaps any of them well.

Secondly, it would do away with the necessity for such a vast amount of separate equipment such as each farmer must have now. The farming would be done with huge tractor engines with great gang plows and other up to date modern machinery instead of with the necessarily imperfect machinery of the present.

Third, it would do away with country school-houses. Instead all the children would have the advantage of the best and most practical modern schools located in the central towns.

Fourth, it would obviate the necessity for building many fences. Only such as might be deemed necessary to enclose the pastures, if pastures were still continued, would be built. It might indeed be found economy to do away with pastures entirely and feed the stock throughout the entire year.

Fifth, it would do away with most of the wagon roads. Mr. Ferris seems to favor having no wagon roads, but he would have to modify that part of his plan, for at least two reasons: First, because it would be necessary to have highway connection with other parts of the country, and second, because the people in the town would want roads for pleasure, if for no other reason.

As under this plan the inhabitants would be better fixed financially than now, they would want automobiles and carriages for pleasure driving if for no other purpose. However, there would be

no necessity for anything like the number of roads that are required now and a large share of the land now devoted to highways could be utilized for farming.

Under our present system, or rather lack of system, in a tract of country 15 miles square there are at least 450 miles of road. Under the Ferris plan this could in my opinion easily be reduced to 100 miles.

### How to Furnish Capital

Assuming that the land embraced in a 15 mile square tract was worth an average of \$50 an acre, the total value of the land alone would be \$7,200,000. The value of town property, stock, farm implements, etc., probably would amount to as much more. It would then be safe to capitalize the co-operative farming organization for say 14 million dollars. The bonds of this corporation could be issued running to the government bearing an interest of perhaps 2 per cent and these bonds, backed by all the property of the co-operative corporation could be used as security for the issuance of so much currency as might be necessary to build the trolley railroads, ranch houses, such highways as might be necessary, buy the necessary machinery, etc.

After the trolley lines and other necessary improvements were built, the necessary machinery bought, etc., I think it would be found that a comparatively small amount of currency would be needed, for the co-operative corporation would establish a system of exchange of credits that would take the place to a very large extent of actual currency in the transaction of the corporation business.

### No Bar to Accumulation of Property

This plan does not contemplate communism or the abolishment of the right to accumulate private property. The stock-holders in this great co-operative corporation would receive their regular dividends and their legitimate share of the earnings. In other words, as far as possible each would receive the full product of his toil and with his earnings he could do as he pleased.

Mr. Ferris believes that it would be found eventually that more than one family could be sustained comfortably by 80 acres and I also think so. He believes that 5,000 families could be sustained in comfort on this great co-operative farm. That estimate may be too high, but I believe that 3,500 families could be and that would mean a community center of about 20,000 people.

### Some of the Things Possible

Here are some of the things Mr. Ferris deems possible under his plan:

1. The plan neither contemplates communism nor Socialism.
2. The unemployed would have profitable employment.
3. The 1,000 eighty-acre farms now occupied by one family to each eighty, could support 5,000 families.
4. The land tax for the 5,000 families should be no more than for the 1,000 families now.
5. There would not be as much strife for best jobs as at present for political offices.
6. The use of government money could be largely avoided.
7. As about eight different kinds of work are now done by the average one-man farmer, the whole 23 different kinds of farm work can be done under co-operation with more efficiency, with one-half the tools and three times the profit.
8. Hundreds of carloads of perishable products could be grown there.
9. There would be a division of labor, as important on the farm as in the factory.
10. All the children would have the advantage of the best schools at one-half the expense of the now proposed system for country schools.

I might also add that the burden of interest would be almost entirely removed and money lenders would have to seek other lines of business. Maybe they would go to work along with the rest of the co-operative farmers. The vast waste of time and energy necessarily connected with the present haphazard way of farming and marketing would be eliminated. Farming instead of being a weary drudgery and grind would become the most fascinating profession in the world, the most learned, the

most scientific. Every central city would become a place of culture and refinement without slums and without poverty.

Mr. Ferris has a vision of things to come that is not an idle dream. It is possible. It is practicable. It ought to be undertaken.

### The Peace Convention

I am not able to say yet whether a movement has been started in Kansas that will help to bring about universal and permanent peace. It would seem that there is enough sentiment in favor of peace and general disarmament in the world to bring it about, especially in view of the terrific destructiveness and cruel slaughter of the present war; but for that matter, the futility and horror of war ought to have been evident to a majority of the people of the world long ago.

There has been a great deal of talk for years about peace and a great many good people fondly have hoped that the world was growing better, more peaceful, more orderly, more civilized, more reasonable. The events of the last seven months have shattered that dream.

So I do not know whether this movement, or any movement looking toward universal disarmament and the establishing of an international tribunal to which nations must refer disputes which they cannot settle between themselves, will amount to anything worth while. It may be that it will be as futile in bringing about that condition as other peace associations have been futile in their efforts to preserve the peace of the world.

But whether it succeeds or not I believe it is the duty of every peace-loving and war-hating citizen, man or woman, at least to try to help toward that end.

I believe in the force of moral sentiment if it can only be properly organized and directed. I assume for example, that a very considerable majority of the people of every civilized nation at least prefer peace. I have a right to assume also that a majority of the people of every civilized nation, at least a very large majority of the thinking people of every civilized nation, know there is positively no question that can arise between nations that could not be settled better by arbitration than by war. No matter if the question arises out of an aggravated insult to the national character and national dignity of a nation, even that could be settled better by arbitration than by war. For war settles nothing except the question as to which warring nation can muster the greater force and direct it with the best generals.

At present when a weak nation is insulted and bullied by a stronger nation it must swallow the insult unless it can form an alliance with some other strong nation to help it in its fight. With universal disarmament and an international tribunal the small nation would have an equal chance with the big nation to preserve its dignity and self respect for it could call the big nation before the international tribunal for judgment, force it to apologize for the insult and make reparation for the wrong.

Now if it were possible to get all the peace sentiment in all the nations effectively organized the war question would be settled right then and for all time, for the majority could say that they absolutely would refuse to go to war on any pretext and that they would refuse to finance any separate standing army or navy. They could refuse to vote any military supplies in their various congresses and parliaments.

Unfortunately the sentiment of the majority never yet has been effectively organized. It is a mistake to say that the majority rules in any country. We boast that the United States is one country in which the majority rules, but it does not rule. The minority rules and always has ruled. I fear it always will rule.

A few comparatively speaking, keep up the war spirit. Part of these are obsessed with the belief that militarism is really necessary and the others are moved by mere selfish motives. They gather profits from the making of war materials. So far these few have managed to control the councils of all the leading nations of the world and it may be that they will continue to control them.

If all the people who really believe in peace could be organized effectively and united in a single purpose, they could stop wars within a week. The present armies would disband and become ineffective

simply because the majority of the soldiers on both sides would quit and go home.

It is the object of the association formed last Friday to help organize and make effective this public sentiment which is ineffective at present. Can it be done? I do not know.

### Senate Bill 58

I have received a number of letters principally from Socialist subscribers, complaining of Senate Bill 58 which amended the primary law by doing away with nominating petitions and substituting an entrance fee of 1 per cent of the annual salary of the office sought by the candidate. Not only the members of the Socialist party, but of all minority parties would have a right to complain of that bill. The candidates of these minority parties make a sacrifice in consenting to be candidates. They understand perfectly that they are making a hopeless race, but consider that it is their duty to stand up for the principles in which they believe. It would be entirely wrong to impose a penalty on these persons by compelling them to go down in their pockets for from \$10 to \$50 each in order to get an opportunity to make a hopeless race. Making the race at best will involve a sacrifice of time and money, and this law simply would add to that burden. I am pleased to say, however, that the bill has no chance to pass in the form it went through the senate. As amended by the house it probably will provide that candidates may have their choice. They can either get their names on the ballot by petition as they have been doing since the passage of the general primary law, or they can pay a fee and get on the ballot in that way.

### Migratory Bird Law

Some weeks ago in answer to an inquiry from a subscriber I stated that I had been informed by the United States district attorney's office that instructions had been received by that office from the Department of Agriculture, not to institute prosecutions against violators of the government migratory bird law for the present. I so stated editorially and in good faith. It seems however, that prosecutions are being instituted by the government, so that my first information from the United States district attorney's office must have been wrong. If my editorial statement has resulted in any reader of the Farmers Mail and Breeze violating the government game law and thereby getting into trouble, I deeply regret it. The statement was made by me in the best of faith and as I supposed on entirely reliable authority.

### A Successful Experiment in Co-operation

It is and has been for some time my belief that co-operation is to be the solution of our economic and political problems. There have been a great many experiments with co-operation. Some have failed but others have had wonderful success.

Up in Mitchell county nearly four years ago some farmers organized a co-operative corporation with the limited capital of \$5,000. Some mistakes were made but on the whole the association has been a success from the beginning. It has twice increased its capital, first from \$5,000 to \$15,000 and then from \$15,000 to \$40,000 and by this time may have increased the capital to \$135,000.

During the last year I understand that this organization has done a business aggregating nearly 2 million dollars. It owns elevators and co-operative stores and has a membership of more than 1,200 I am told. When Mr. Ramsey was in the office a few weeks ago I asked him to write the story of this co-operative organization. In his desire to curtail the story Mr. Ramsey has left out some details that I wish he had included. Here is his story:

Editor The Farmers Mail and Breeze—Corporations have been utilized for centuries, but during the last 70 years there has been an enormous development of that idea. Up to about that time, the business of the world was in the hands of individuals. Today it is in the hands of corporations. Farmers still conduct their business as individuals, but everything they sell passes into the control of a joint stock corporation, and everything they buy, from the cradle to the grave, is controlled by joint stock corporations.

There is a very good and sufficient reason for all this. Corporations are the most powerful, the most efficient instrumentality ever devised by the wit of man. Excepting the Astor fortune, every great fortune in America has been acquired by and through joint stock corporations. Corporations are here to stay.

Realizing these facts, and that the Lord helps him who helps himself, and that we must fight brains with more brains; fight corporations with corporations, organized on more sagacious lines, the Farmers' Educational and Co-operative unions have begun to organize small local co-operative corporations, on the Rochdale system, to do our own business.

The Rochdale system of co-operation was first devised and put into operation at the little village of Rochdale, in England, in 1846, by 28 poor weavers. It is very wise and simple. It provides:

That each stockholder shall have but one vote.

That capital shall receive a fixed rate. This should be the current rate in that locality.

That all profits should be rebated to the customer, who is also a stockholder in proportion to the amount of his business.

That a limit should be placed on the amount of stock held by an individual.

Most of the so-called "failures" in co-operation have been failures to apply one or more of these four principles. The aim and ideal is to make Capital the paid servant of Labor; to leave the wealth of the country in the hands of those who produce it.

Joint stock corporations are a very efficient form of organization, but the co-operative corporation, or association as many are styled, is more efficient.

In a joint stock corporation are incorporated

a few men and some money but in a co-operative corporation is incorporated some money, a whole lot of people and their business. To supply the wants of our own stockholders, insures the doing of an enormous business, on a very small capital.

The most general objection to the formation of a co-operative association is that "farmers don't know enough to run a corporation." That is true, they don't. But neither do the stockholders of any corporation. They meet only once a year, listen to some reports and elect a board of directors, supposed to be the ablest men available. This board of directors elects the officers and the officers hire experts to run the business.

This is the way all our corporations are run, railroad, oil, coal, banks, manufacturing. It is a modern instance of the survival of the fittest. It works all over the world.

Thinking and working along these lines we sold our first share of capital stock on April 7, 1911. Our capitalization was only \$5,000 with \$1,000 paid in. Though we made all kinds of mistakes, yet we prospered and November 2, 1912, we increased our capital stock to \$15,000.

It was about that time that we discovered that we had been weighed in the balance and not found wanting.

The leading banker of the county met me one day with the question, "What is the reason, Mr. Ramsey, that you people can't open an account with us?"

I laughed and told him that the amount of money we had was not worth quarreling over.

"Oh, yes, I know, but if you people keep on, as you have begun, if you continue to keep your heads on your shoulders, you are going to have a whole lot of money some day, and I want a chance in."

We did keep on and on October 15, 1913, we voted to increase our capital stock to \$45,000. When we closed our books on December 31, 1913, for the purpose of making our annual report our cash capital was a trifle less than \$17,000. On February 14, six weeks later, it exceeded \$24,000.

Our stockholders had seen the machine built, had watched it run, and that \$7,000 increase of capital in six weeks was their verdict.

Beloit, Kan.

W. F. RAMSEY.

### Sensible Observations on Taxation

Editor The Farmers Mail and Breeze—A great deal is being said and written these days about wholesale murder called war, but not much attention is being given to the wholesale robbery called taxation.

No; I am not complaining about my taxes. I am perfectly willing to pay taxes on all the property I own, but what I object to is paying taxes on property that someone else owns but which happens to be in my possession.

To illustrate what I mean: A owns a farm worth \$10,000. B has \$1,000 cash, combined wealth \$11,000, combined taxable property \$11,000. A sells the farm to B for \$10,000, takes B's \$1,000 cash and a mortgage on the farm for \$9,000. Combined wealth \$11,000, combined taxable property \$26,000, difference \$9,000 more to pay taxes on just because they traded.

Who has the right to collect taxes on this fictitious \$9,000, wealth that does not exist?

Some say exempt the mortgage from taxation. They would pile B's taxes still higher when they are already ten times as high as they should be. Of course A could lend his money cheaper if he didn't have to pay taxes on it, but would he? I don't think so. It would be like handing a sport a dollar thinking maybe he would "set 'em up."

Some say that it wouldn't do to deduct the amount of the mortgage from B's property and charge it up to A, as that would tend to shut out foreign capital, making them pay taxes in Kansas and also in the state where they live. Well, tell me why and how the state where they live has any right to tax money invested in some other state.

To illustrate again: A and B live in Missouri. They have money to invest. A buys a Kansas farm. B lends his money on a Kansas farm. A pays his taxes in Kansas where his property is; B pays his taxes in Missouri where his property is not. Why has Missouri any more right to B's taxes than it has to A's? The wealth of each exists in Kansas.

I think we need a national law governing taxation so that all wealth could be taxed just once—and I would include all church property—where that wealth exists; then the amount of the debt could be deducted from the value of the property and charged to the creditor. He would have to pay only once, and that would stop this legalized robbery of the fellow that has the nerve to go in debt.

Give us national laws governing taxation, national woman suffrage, national prohibition, and I was going to say national ownership of public utilities, but you might think I was a Socialist. Oakley, Kan.

JESSE BRITAIN.

The writer of the above very sensible letter, has himself indicated the difficulties in the way of an equitable system of taxation. No one can deny the justice of the first criticism on our present method. It is double taxation and that is all there is to it and double taxation is wrong. Now the equitable plan would be to tax the owner of the equity in the farm on his equity and the owner of the note and mortgage on his share in the property.

It has been urged in objection to this that the state probably would lose the taxes on the note and mortgage because the owner of them would conceal his note on which he should pay taxes, or assign it to some person outside of the state, and that, as there is just so much tax to be raised anyway the holders of the lands would have to pay what was lost by the concealment of the mortgage notes. It also has been argued that a tax on mortgages would mean simply that much more interest to be paid by the borrower.

Of course I would cure that by making the loans from the government direct through government banks, but until that condition can be brought about, possibly a reasonable recording fee on all mortgages would be as good a plan as can be followed. In that event the amount of the mortgage certainly should be deducted from the assessed value of the land. Indeed, I think that should be done anyway. The mortgagor should not be punished and made to pay taxes on property he does not own, just because the holder of the mortgage is not always honest enough to give in his mortgage notes for taxation.

## Half Way Measures and the Saloon

NATIONAL MODEL LICENSE LEAGUE.  
Louisville, Ky.

Office of  
The President  
The Hon. Arthur Capper,  
Editor, Farmers Mail and Breeze, Topeka, Kan.  
Dear Sir: In the January 15 issue of your publication, I note this paragraph:

National prohibition is demanded for the reason that the federal law gives brewers and distillers permission to violate and defy the state laws of prohibition states, by permitting them to ship liquor into those states.

Do you think that is a fair statement to make? Do you think that is a truthful statement?

Are you willing, as governor of the state of Kansas to affirm that any such thing is true?

You know, as well as I do, that the federal government gives no "permission" to any man to make liquor nor carry on a liquor business, any more than it "gives permission" to any of your readers to run a farm. You know that a liquor tax carries with it no right to sell liquor contrary to law. You know it is levied solely and simply for the sake of raising revenue and is an excise tax purely and simply.

You know that in the event of arrest for breaking Kansas' "prohibition" law, no bootlegger nor other unlawful dealer in liquor is able to shield himself against that state law by producing evidence of his payment of the required tax to the federal government.

Another point in the same editorial seems not quite fair. You contend nation-wide prohibition is needed because a minority of license states could make it hard for no-license states to be free of liquor.

In the same article, in which you set your readers straight on the point heretofore noted in this letter, will you please tell them what your state of Kansas has done to shut out liquor shipments from license states and what advantage it has taken of the Webb-Kenyon federal law to make itself a real prohibition state?

T. M. GILMORE.

President National Model License League.

I fear anything I may say about prohibition in Kansas or elsewhere, will bring no comfort nor conviction to the president of a "Model" License League in Louisville, Ky., but you are entitled to the courtesy of a reply to your questions, from me.

You seem unwilling to concede that a government liquor license—the government's license or permission to sell liquor—is, when sold in a state that expressly and by statute forbids the sale of liquor for any purpose whatsoever within its borders, a defiance and a tacit violation of the laws of that state.

Webster's dictionary defines the meaning of the word "license", "To permit or authorize, especially to permit or authorize by formal license; to give license to; to license the sale of liquor."

But brushing aside technicalities, it is well known that the federal liquor license not only does permit the violating of law in prohibition states, but encourages its violation. It is known to every officer of the law in prohibition states, that the government liquor license, therefore the federal law, encourages bootlegging and illicit joints and a clandestine and unlawful traffic in liquor. While this is a much lesser evil than the open saloon, or the "regulated" or the "model" saloon, it promotes drunkenness, debauchery and crime just as they do.

Liquor cannot legally be sold in Kansas. And a government liquor license is of no value except for the sale of liquor. It is intended to protect and does protect the one to whom it is issued, from arrest and from conviction in a federal court and a term in the penitentiary for violating the government's revenue laws which forbid the selling of liquor without a license and that is its only value.

You ask what Kansas has done to shut out shipments of liquor from license states and what advantage it has taken of the Webb-Kenyon federal law to make itself a "real" prohibition state.

Several years ago Kansas incorporated the provisions of this act in the Mahin law. The Mahin law, like the Webb-Kenyon law, interdicts the shipping of liquor into Kansas from another state for purposes of sale or unlawful use. It also requires that the name of the person receiving the liquor shall be registered in the office of the county clerk in his county. A measure is now before the legislature providing for the publishing of these names once a month in the official newspaper of the county.

While prohibition is a success, a blessed success and a godsend to the state of Kansas and to every other state which has and enforces a prohibitory law, the "wet" or option states next to them, make it constantly difficult to enforce completely the liquor laws of the states which prohibit the drink traffic. National instead of state-wide prohibition would make prohibition effective from coast to coast and rescue the whole country from the degeneration of drink. In the United States at this moment, sentiment among the people for national prohibition is widespread, overwhelming.

Halfway measures in dealing with the liquor business have always been time lost. There is no "model" license. The licensed saloon is and always has been the greatest public debt-maker because of the never-ending struggle wherever it exists, to suppress the crime and outlawry, to ameliorate the poverty, wretchedness and misery it always creates. This struggle will go on so long as one part of the country or one part of the state is "wet" and another part dry. The complete and absolute extermination of the liquor traffic is the only remedy and the people are demanding it and must and will have it.

Arthur Capper  
Publisher.

# The Lawmakers

## A Faithful Report Showing That the Legislators Are Getting Down to Work

**A**N effort is being made by the Republican members of the house to get down to work. After losing three important contests in two days, recently, the administration members of the house put oil on the wheels by the election of Frank Travis as party whip and adopted an agreement to support A. M. Keene, administration floor leader, in all contests on the floor.

The agreement among house Republicans will prevent factional struggles. The pact among Republicans, however, is not binding to the individual member concerning his own vote. The agreement means only that no Republicans will openly oppose any measure which the party floor leader supports. Organization through the appointing of a party whip and assistants, will keep administration leaders in line during the rest of the session, it is believed.

This effort to get the members of the legislature to do something has come as a result of the poor record for the first month. But 28 bills were passed and signed by the governor. Thirty measures passed both houses. No general legislation of a constructive nature was passed by the two houses. The bulk of the bills that ran the gauntlet in both houses were purely local.

Here are the accomplishments of the 1915 legislature for the first 30 days in concise form:

The house passed 85 house bills.  
The senate passed 82 senate bills.  
The house passed 15 senate bills.  
The senate passed 15 house bills.  
The governor signed 14 house bills and 14 senate bills, a total of 28 new laws.

In all 1,650 bills were introduced, 925 in the house and 725 in the senate.

### To Reduce the Costs.

Robert Stone, speaker of the house, is a mean, bad man, according to some 104 of the 105 employes of the house. He has ordered that the employes be paid only for the days they actually are at work. No more Sunday money except for those who work Sunday.

Stone announced the new ruling to the house, pointing to the law in the case, which is plain. He asked the house members if it were all right.

"Consent," the majority shouted. The third 10-day session of the Kansas legislature cost the state \$11,661.88, according to the records in the office of the state auditor. The 40 senators drew \$1,230. Their 111 employes—one was added some time during the period—drew \$3,270. The 125 house members drew \$3,720, their 105 employes drawing \$2,968. Miscellaneous expenses amounted to \$473.88. The total expenses for the 30 days of the session, including Sunday and other days off, were \$48,387.96.

### For More Concrete Bridges.

Another measure to compel the county commissioners to build only concrete bridges when the cost of these is not more than 130 per cent of the cost of the "tin" structures, was introduced by Campbell of Bourbon.

### To Increase Road Dragging.

Senator Lacey M. Simpson has introduced a bill to require county commissioners and township trustees to have all graded roads "dragged as often as they need it." John C. Nicholson, the Meridian road booster of Newton, and other good roads enthusiasts have indorsed the bill.

### Loans On Farm Lands.

The Bowman bill providing for building and loan associations to make loans on farm lands, and aid in building up rural communities as the associations have done in the cities, was introduced in the house by Frank Pomeroy of Jackson.

### To Aid in Law Enforcement.

An act that will allow persistent violators of the prohibitory law to receive penitentiary sentences for every separate violation of the law after once convicted, was introduced in the house

by the committee on temperance. Under a recent ruling of the supreme court, a series of persistent violations constitute one offense, and the persistent violator could be sentenced only on the one count.

### Inspection of County Farms.

Senator Harry Gray has introduced a bill which requires state inspection of all county poor farms to insure humane treatment and good conditions, and prohibit the use of prisoners as attendants in the ward for the insane at the state penitentiary.

### Lower Interest Rates.

Senator Davis has introduced a bill to make the legal rate of interest in Kansas 5 per cent, with 8 per cent the maximum allowed on contract.

### To Encourage Hedge Cutting.

A comprehensive bill has been introduced by the senate roads and bridges committee, headed by Senator Paul Klein, to require the cutting of all weeds and hedges for a distance of 100 yards on either side of grade crossings and sharp bends in the road.

### For More Deep Wells.

County commissioners will be authorized to drill artesian wells, if a measure introduced in the house by Nelson of Republic passes the gauntlet.

### Information on the Torrens System.

The house has passed a joint resolution by J. A. Mahurin of Coffey, providing that 2,000 copies of the Mahurin bill providing for the Torrens system of registering lands be adopted in Kansas. There is, apparently, no chance of the Torrens plan's being adopted by this legislature, but the copies are to be distributed as a matter of education.

### Hail Insurance For Counties?

Counties will be allowed to go into the hail insurance business if the legislature passes a bill to be introduced by J. A. Mahurin of Coffey. The bill allows the county commissioners at their discretion to establish hail insurance.

### A Recalcitrant Cadet.

I am a compulsory member of the cadet corps of this institution in Company B; hence I am much interested in the proposed trip of the cadets to San Francisco at the state's expense. Despite some statements of the military department, I believe that the general sentiment is against this trip. Our captain compelled us, under penalty of failure for the day's work, to write a letter to our respective representatives asking them to vote for the measure. As I am doing all I can in my small position to defeat the bill, I respectfully submit the following for publication in the Farmers Mail and Breeze if the bill has not been voted on before the next issue is circulated:

Sometime in the near future there is to come before the legislature a bill asking for sufficient funds to transport the cadets of the Kansas State Agricultural college to the Panama exposition and pay for their encampment while there. It is said that the purpose is to represent Kansas at the exposition. According to the statements of the military department there are more than 700 cadets. It is said, also, that a vote was taken of these cadets to ascertain how many were in favor of the trip and that less than 1 per cent expressed themselves in the negative.

In the first place no vote was taken of all the cadets, and if there had been I personally know that more than the aforesaid 1 per cent would have voted "no." So far as I am able to ascertain, the general sentiment is against the measure, and the movement is regarded as a means of popularizing drill in this institution.

Aside from this unnecessary expenditure on the part of the state this expedition would take the cadet away from productive employment and put him on expense. According to a statement of my captain, those who were compelled

to buy blue uniforms some time ago and are now finishing drill would have to buy a new khaki suit costing \$16.29 or remain at home.

If this trip is not to be compulsory there probably would be a very small showing at the exposition, while if it is to be compulsory there will be a great many deserters. This would be a very poor representation for Kansas, and would lower the estimate of the Kansas State Agricultural college in the minds of many.

Why cannot Kansas be represented as an agricultural state and a producer of livestock, rather than as a trainer of cadets and an advocate of militarism? Marion C. Reed.

Manhattan, Kan.

### Railroads and Liquor Shipments.

The most drastic prohibition bill introduced in the present session of the legislature, that by Stone, putting the railroad delivering liquor shipments on the same plane as the jointist, was recommended for passage by the house committee on temperance. The measure provides that the delivery of a shipment of intoxicating liquors shall be regarded as a sale of the same in the county where the liquor is delivered.

### Away With the Employes.

F. L. Martin of Reno has introduced a drastic bill cutting down the number of employes in both houses.

According to the last vouchers presented to the state auditor, the senate now has 111 employes.

Martin's bill would fix the number at 48.

The house record in the auditor's office is 105 employes.

Martin's bill calls for 64.

### "More Than 21 Years Old."

Bird's bill to do away with the asking of exact ages of women voters when they register has been introduced in the house. The measure provides that all the women have to do is to state that they are more than 21 years old.

### Examinations for the Butchers.

Butchers will have to pass examinations and take out state licenses the same as druggists and doctors if the Hangen bill is passed.

### Eliminate the Black Flags.

Clark of Sheridan has introduced a measure making it punishable by a \$100 fine and six months' imprisonment to carry or wave a black or red flag in a parade, or otherwise incite against the government.

### To Aid Topeka's Fair.

It seems rather certain that the Topeka state fair will receive a small appropriation from the present legislature. The senate ways and means committee has appointed a sub-committee to draft a special bill to allow the Topeka fair \$7,500 a year. This money can be used only for premiums on agricultural and livestock exhibits.

### Thomas County Need Not Help.

The senate looked with sufficient favor upon the Malone bill to divorce Thomas county from the state experimental farm at Colby that the committee of the whole recommended the bill for passage. The legislature established an experimental station at Colby two years ago to work out methods for stopping the drifting of soil in Thomas and a few adjoining counties. The legislature required Thomas county to stand a share of the expense of the station.

### No Convicts For Roads.

The senate bill by Noah L. Bowman, providing for the employing of prisoners at the penitentiary on the roads, was killed by the house committee on labor.

### For Better County Government.

The consolidated county form of government measures introduced in the house by F. L. Martin of Reno, was reported favorably by the house efficiency and economy committee. The bill pro-

vides that all except four of the county offices—and three county commissioners—be appointed by the county commissioners. Only the three commissioners, the county attorney, superintendent, clerk and one officer to be known as probate judge and clerk of the district court, are to be elected.

### Keep Off the Railroad.

Hawkinson of Pottawatomie has introduced a bill making it a misdemeanor to trespass on the railroad right of way, or other railroad property.

### Threshermen Will Be Protected.

The Hopper bill providing for threshers' liens was killed by the house committee on agriculture. At the same time the committee chairman, F. O. Pomeroy of Jackson, reported favorably on the Hendricks measure on the same subject.

### No More Fraudulent Advertising.

Dr. S. S. McGinnis of Greeley has introduced a bill in the house making it a misdemeanor for any woman less than 45 years old to use face powder, rouge, hair, dye, bleaching powder, tooth powder, or to wear ear rings.

### "Big Night That Night."

The congress of the United States has little on the house of representatives of the state of Kansas, thank you. The state body discovered at a recent night session that the contingency might arise where it could do nothing but study Roberts's rules of order in a vain attempt to do something besides listen to members talk.

It all happened over Hoskinson's bill to provide for attorney's fees assessed against the insurance company when the policy holder had to sue for his fire insurance policy. The bill was doomed to defeat, but it took two hours to get the necessary 63 votes to kill it. It was killed once, before that time was up, for just about twenty seconds. Hendricks of Rawlins, Goodier of Logan and Rogler of Chase, in rapid succession, changed their votes from aye to no. Ferrell of Chautauqua was on his feet before Rogler's vote was recorded.

"I change my vote from no to aye," he declared, and the bill still was before the house, 62 to 38. Coffin voted aye, and it was 62 to 39. Fifteen minutes later, at 10 o'clock, Carter of Doniphan changed his vote from aye to no, and the night was over.

### No Protection For Doves.

The house committee on fish and game has killed the bill by Bird on doves, providing that doves should not be killed between July 1 and September 1.

### To Regulate Produce Dealers.

Senator Ben S. Paulen has introduced a bill for the regulation of farm produce commission dealers.

### Taxing Mortgages.

Editor Farmers Mail and Breeze—I believe House Bill No. 603 offers remedies for more injustices in taxation than anything that has come before our legislature. It treats a mortgage on real estate as an equity in the land instead of as personal property. This protects our state by securing just returns for protection extended to a large class of property that now either pays taxes in other states or not at all. It would protect the so-called property owner by letting him off with payment on his actual possessions, instead of laying it on double because he is poor and still trying to own a suitable unit of operation. In grain farming a man must drive four horses or receive half wages; and if he has the full complement of horses and machinery he must farm the full unit of their ability or lose on his own wages, wages for his team, and lose the interest on his investment and depreciation in machinery.

Moreover, if the money lender happens to live in this state he is now taxed on the mortgage at the rate obtaining where he happens to reside. This bill would tax the mortgage at the rate

(Continued on Page 37.)

# Here's a Model Barn

## Twenty Cattle and Six Horses Will Have Comfortable Quarters

Written By Herbert Shearer  
Drawings By H. M. Ward

THIS farm barn is intended to stable 19 cows, a bull and six horses. The horse section is partitioned off from the cow stable but the manure carriers and the feed carrier pass through the division doors to serve the horses as well as the cows.

Both manure carrier tracks are fitted with switches so the cars from the horse stable will back into the cow stable, past the switches, and then turn into the yard at the side of the barn. This side delivery removes the manure from both stables and keeps the silo end and the horse entrance free from the muss of stable cleaning.

Such a stable requires the best possible kind of a floor, which of course means that the greatest proportion of the floor, beginning with the wall footings, is made of a good quality concrete.

Mentioning footings naturally leads to the importance of starting to build such a stable by laying a foundation that never can settle.

Soil conditions often require special preparation before starting to build a wall. If the ground is inclined to be wet in springtime provision will be necessary to carry off the excess water from melting snows and heavy spring rains. Some excavating is required to get down to solid earth which often means 2½ or 3 feet to deepen the trench below frost. Then the trench is widened at the bottom to make a broad foundation that will sit still and not move during the lifetime of the owner.

To make sure of drainage it is a good plan to lay a line of 4-inch tile just outside of the footing clear around the foundation, with an outlet about a foot lower than the tile at the upper side of the wall.

The manner of starting the wall will depend upon the kind of materials that may be had to the best advantage. But supposing that stone or gravel and sand and cement are within easy reach so that you are not obliged to figure too closely on the expense of any one of these materials.

Then starting at the bottom of the trench, the line of tile should be covered with broken stone or coarse gravel to the depth of 3 or 4 inches. Good sized rocks should be placed to cover the bottom of the trench about 8 inches deep from one bank to the other, a distance of 2½ feet.

After wetting the rock, thin grout cement mortar is poured in to cement the stones together. The grout mortar must be thin to run in between and fill all the openings. Grout mortar for this purpose may be made quite poor if plenty of water is used. It is impossible

to drown good cement with water if the trenches will hold it. Valuable cement may be leached out into a very top of the wall. Above the surface of

above the footings. They may be any height from the level of the stable floor to the ceiling above. This stable has 4 feet of wall above the stable floor. Above the wall the building is made of planks in the usual plank frame construction manner, covered with drop siding.

The stable is lined with wall board butted together on the studding and joists. The joints are filled with putty and the whole surface is painted with two coats of white lead and oil. Wall board is safe to use above this wall because the cows could not back against it. One object in using it is to make the stable air tight so the ventilator pipes will work better. Another reason is that there are no cracks to make harbors for harmful bacteria.

The ventilator shafts are of wood. The foul air shafts are built into the walls and the fresh air intake pipes are laid between the joists.

There are four foul air shafts, all of which are connected with the metal ventilators on the peak of the roof. These peak outlets equalize the draft through the outlet pipes regardless of the manner of wind blowing.

All doors hang from wind-proof and bird-proof tracks and fasten shut with heavy wrought iron fasteners.

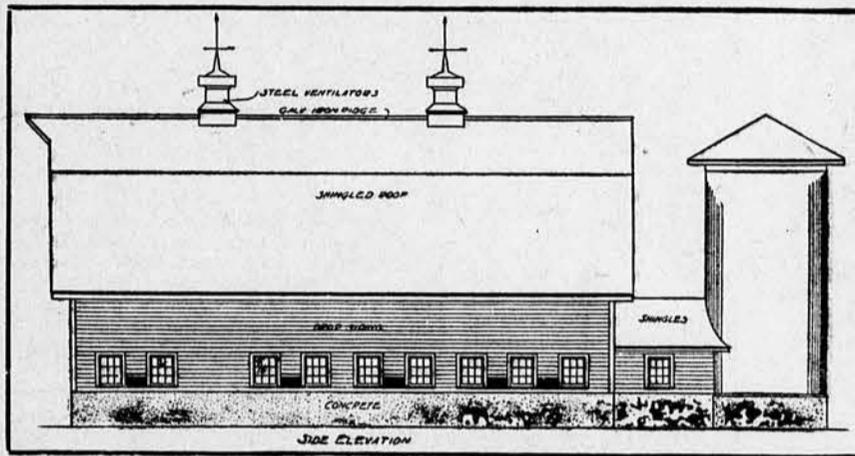
The floor is best described by the detail drawing as most of the sizes are marked in figures and concrete is shown by fine dots.

It will be noticed that the standing floor for the cows is on a level with the bottom of the manger and the floor of the feed alley. The front of the mangers is raised to hold the feed within reach of the cows. Some cows will throw it out, but there is a slight saving in attendance which pays for the manger front. Also when testing cows for butterfat and for pounds of milk, manger dimensions sometimes are wanted. With this kind of manger a metal divider is hooked to the iron stanchion frame and dropped into the manger.

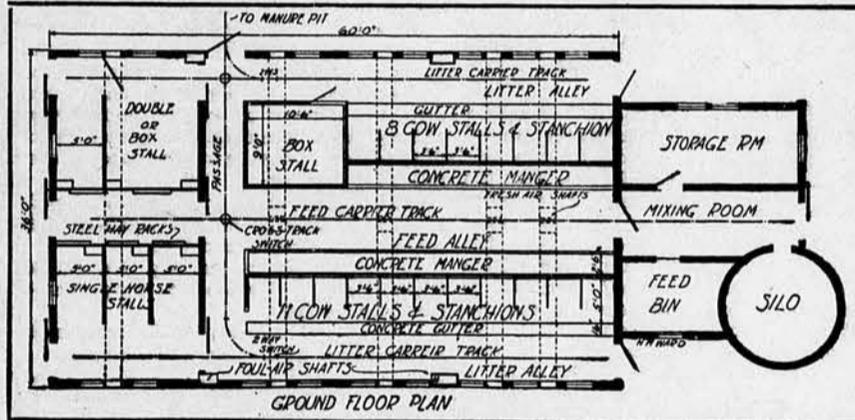
All stall partitions and stanchions are of iron made smooth and washed or wiped with a damp cloth at stated intervals to prevent the accumulating of dust and other dirt.

Cow stalls are 3½ feet wide and are 5 feet between gutter and manger. This is the usual length of cow stalls since the invention of adjustable cow stanchions that may be set in or out to accommodate large or small cows.

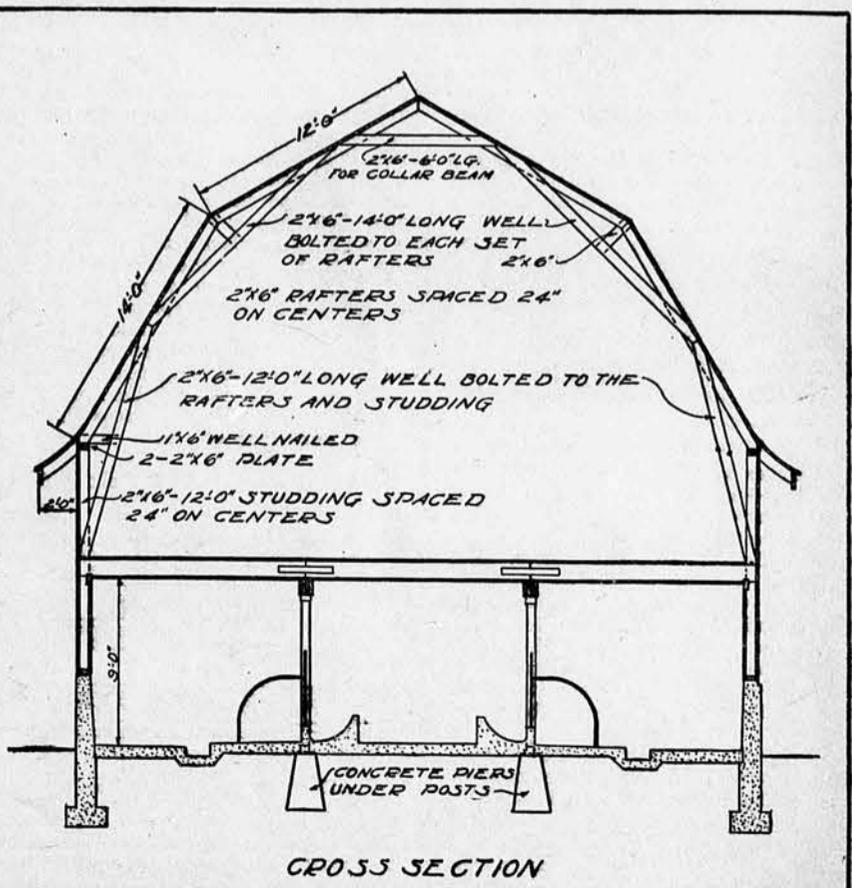
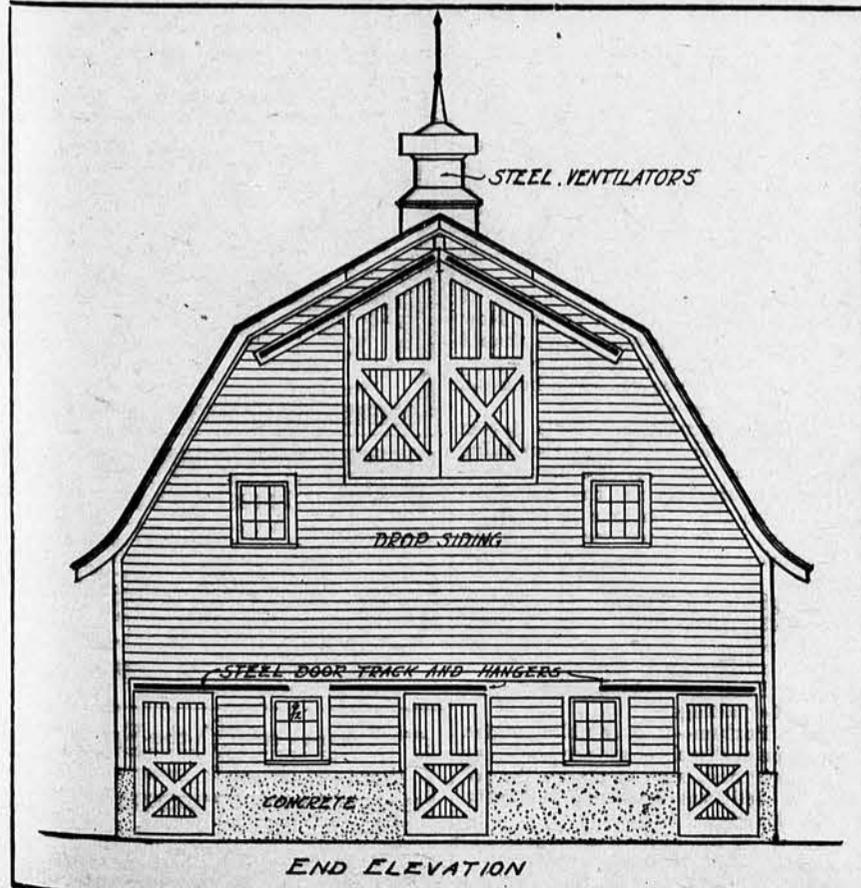
The horse stable is very well described in the illustrations, but I might add that it is built with the expectation of turning it into a cow stable when the dairy grows to need the room.



porous soil so that some of it may be wasted, but such a condition is not likely to present itself. The ground the wall is built between wooden forms in the usual way. Also above ground the rocks are pried away



A common mixture for walls is 1 measure of cement, 3 of sharp sand and 5 of gravel. Rocks are thrown into the from the sides of the forms to prevent holes from disfiguring the wall. Stable walls should be a foot thick



# Water Made a Garden Grow

Some Facts and Plans Worth While

BY MABEL E. GRAVES

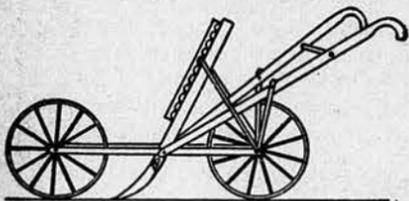
PLAYING with water—it looks like that to a visitor at the Duphorne farm. Irrigation ditches run bewilderingly here and there, and new ditches are continually being dug as need requires to unite the reservoir waters or carry life to new sections of thirsty soil. Thirsty is the correct word, for this is Wallace county, where for months at a time the rain never falls. Yet C. T. Duphorne, by learning the trick of making use of the underflow, has been able for several years to be the market gardener for a town of 800 people.

Irrigation on the Duphorne farm began 13 years ago, when the first soil was broken. A well and windmill supplied water for the farm and irrigated a few watermelons. Since then other mills have been put up as convenience warranted, until now there are five. The two latest are large enough to provide most of the water needed, and these are kept going day and night during the growing season. But wind is fickle, even in western Kansas; and to provide for every emergency three reservoirs have been built, from which water may be run when needed. The first of these reservoirs is 40 by 50 feet, the second 35 by 40, and the largest 60 by 110. Each averages about 2 feet in depth.

Two 8-foot mills, each of them with a pump having a 4-inch cylinder, force water into the two smaller reservoirs. The two large mills, one 10 feet and one 12 feet, keep the large reservoir full. The pump on the 10-foot mill has a 6-inch cylinder; the 12-foot mill has an 8-inch cylinder and a 12-inch stroke. The four mills together pump about 150 gallons a minute, and of this the largest mill pumps 70, or about 2½ gallons at every stroke.

The Duphorne ranch is favorably located with reference to water, in the valley of the Smoky Hill river. A large part of western Kansas has this underflow water, but in many places it is too deep to make the windmill method practicable. In the deepest well on this farm it was necessary to go only 18 feet to water, and no pump dips more than 3 feet into the supply. During the dry summer of 1913 the water was lowered only 12 inches.

Water is carried to the garden by a series of wooden troughs, with short lengths of gas pipe inserted at intervals



A Ditch Maker Saves Time.

of 16 inches to take it to the soil. The vegetables—parsley, onions, cauliflower, salsify, carrots, beans, peas, parsnips, turnips, beets—are planted in rows in corresponding ditches, and gravity does the rest. The wells are on a slight elevation. Cabbage, celery, lettuce, and such spreading things as cucumbers, squash and melons are planted farther apart. The farm crops that were irrigated the last season were watered by the overflow method from the main ditches.

Considerable care was given to making the reservoirs for holding the emergency water. The bottom of each is slightly below the surface of the ground, but the larger part is above, to gain a greater fall for the outflowing water. In making them the bottom was brought to a dust by plowing and harrowing,

water was turned in to wet the ground thoroughly and drained off again, then several teams of horses were put in to tramp it down hard. The banks are built up of earth.

Water, as the owner of this farm has discovered, may serve several purposes at once. From one of his mills a pipe leads to a large stock trough. From the trough the water runs into the reservoir, thus keeping the stock water always fresh, and from the reservoir it can be run to any one of a half dozen spots as needed.

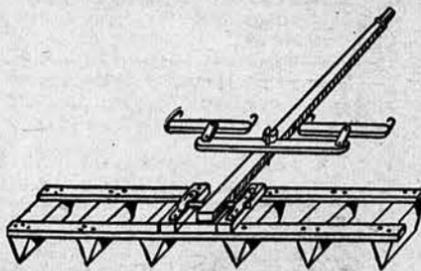
A ditch maker of his own invention is used by Mr. Duphorne in his garden. It consists of two light wheels connected with a framework of strap iron, with an adjustable plow. The wheels were taken from a child's wagon, and strips of wagon tire were riveted on to make a wider rim. The wider the rim the less it sinks into the ground and the easier the running. The hubs of the wheels are wide like a bicycle, for which reason they are especially well adapted to their new use. A rod runs through each wheel and to these rods a strap iron is fastened on either side. Handles are attached to this frame and are strengthened by strap irons run from the rear wheel.

At one end of a 2 by 4 a cultivator shovel is bolted. On one side of this 2 by 4, near the upper end, a piece of serrated iron is bolted loosely, and between the iron and the 2 by 4 is a 3-inch iron rod. This rod is fastened at either end to a strap iron which is attached to the rod that runs through the rear wheel. As the rod is shifted up or down the line of serrations the slant of the 2 by 4 piece is changed and a deep or shallow furrow is made. With this plow one man can furrow off his land as fast as five men marking with hoes.

Alfalfa grows well with irrigation; but if there is ground water it can reach it will grow anyway, whether rain falls or not. On this farm is an alfalfa field sowed 13 years ago which has never been resowed and which is still making good. It is cut four times a year and makes an average of four tons a season. A part of the field was irrigated this summer for the first time and showed considerable improvement.

Alfalfa is to be a coming crop. A second field was sowed last spring and has made a perfect stand. It was clipped twice during the season to keep the weeds down, and water was run over it two or three times. A third field has been prepared and will be sowed to alfalfa in the spring. This field is also to be irrigated. Several ditches will be put through the field, and after it is sowed shallow cross ditches will be put through with a furrow marker.

This marker consists of six 2-foot



Marker for Alfalfa Irrigation.

lengths of heavy fence post, cut to a sharp edge and fastened together by strips across the top. All parts of this marker are made as heavy as possible, and a man will stand on it for addi-

tional weight. This is merely an experiment, in an effort to find some satisfactory way of getting the water to the alfalfa without unnecessary flooding. Another method of preparing alfalfa for irrigation, followed by many, is to sow the seed in rows. Salt grass is one of the greatest enemies to alfalfa in western Kansas, since in a field which is not under cultivation it is almost impossible to get it out.

Mr Duphorne arrived in Wallace county in 1887 with exactly 5 cents in his pocket. There were five children and a wife to care for; and the story of those first years on a homestead would make interesting reading. The windmill which pumped water from the first well on the present farm is still in existence. It was made on the farm. The wheel is of lightweight boards, and the gearings were taken from an old mower. It has since been replaced by a factory-made mill.

Feterita is being tried out in the western country, and some good heads were raised this year on the Duphorne ranch without irrigation.

## Select the Seed Oats

Scarcely any argument need be made to convince any farmer that big, plump oats will produce from 5 to 10 bushels more an acre than the small seed.

Each seed consists of a germ or embryo surrounded by reserve food. Under proper conditions the embryo begins to grow and we have what is popularly known as the germination of the seed. During the early stages of growth the necessary plant food is contained in the seed itself. Should the conditions of the soil or season be unfavorable for early growth, and should the seed be under-sized or poorly developed, there may not be sufficient food to give the young plant a proper start. Under such conditions the development of the plant will be weak from the beginning. Investigation shows that plants, like animals, when stunted at the start cannot attain their normal thriftiness, even though later conditions are favorable. The experimental evidence obtained from different sources as to the superiority of large, well-developed seed is abundant. This evidence may be summarized in the following manner:

(a) Plants from poorly developed seeds are likely to be less vigorous and consequently less productive.

(b) Such plants usually require a longer time to develop and may therefore mature later.

(c) They are more easily weakened or destroyed by insects and diseases.

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The coffee drinker who has suffered and then been completely relieved by changing from coffee to Postum knows something valuable. There's no doubt about it.

"I learned the truth about coffee in a peculiar way," says a California woman. "My husband who has, for years, been of a bilious temperament decided to leave off coffee and give Postum a trial, and as I did not want the trouble of making two beverages for meals I concluded to try Postum, too. The results have been that while my husband has been greatly benefited, I have myself received even greater benefit.

"When I began to drink Postum I was thin in flesh and very nervous. Now I actually weigh 16 pounds more than I did at that time and I am stronger physically and in my nerves, while husband is free from all his ails.

"We have learned our little lesson about coffee and we know something about Postum, too, for we have used Postum now steadily for the last three years and we shall continue to do so.

"We have no more use for coffee—the drug drink. We prefer Postum and health."

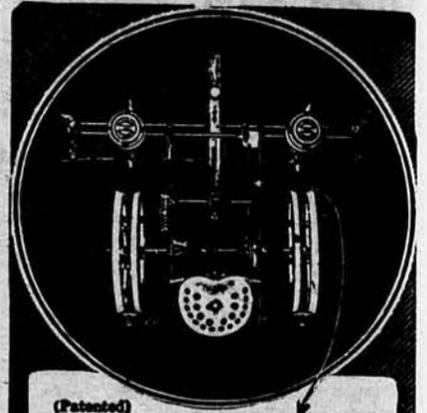
Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in pkgs.

Postum comes in two forms: Regular Postum—must be well boiled. 15c and 25c packages.

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

The cost per cup of both kinds is about the same.

"There's a Reason" for Postum. —sold by Grocers.



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HERE you see a top view of the Janesville corn planter. Note the freedom from needless parts. The construction is simple—easy to handle—easy to take care of.

In using the shaft drive we reduce the number of operating parts generally needed on a corn planter. We discard the clutch—we free you from chains, sprockets, springs and possibilities for gumming up, breakages and needless repair bills. We assure you of having your planter in running shape all of the time. You are not held up waiting to replace broken parts.

Instead of giving your planter aerosene bath at every round, you grease this shaft drive once a season. Any part showing a flaw in material will be replaced free of charge during life of machine.

Why not save work and worry this year and for many years to come by getting a

## JANESVILLE CORN PLANTER The Only One With The Shaft Drive

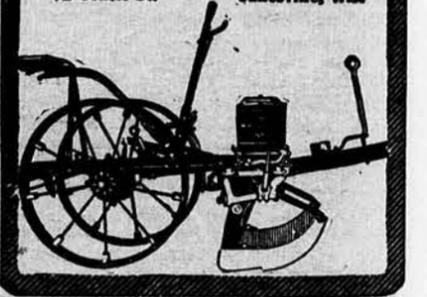
Here is another feature that you will like on this planter. It has a sight feed. You can see every hill as it drops. You can change the feed without stopping the team—drop two, three or four kernels to the hill as the soil will stand. Here's the best construction for handling slange corn.

You can provide for any quantity of seed corn per acre. Commercial fertilizer attachment, as well as cow pea attachment also, can be furnished. 30 rods of wire, a reel, a disc marker, a full set of edge drop as well as flat drop plates for checking or drilling, furnished with each machine. Made in following models: checking and drilling, drilling only and lister planter.

Write for Catalog and get our proposition on the Janesville corn planter.

If interested in plows, harrows or cultivators, write for special catalogs. We have been building high grade farm machinery for 56 years. Write today for literature helpful in your work.

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A practical device protecting the eyes from glaring lights of other cars. Makes night driving safe. A boon to car owners; inexpensive; absolutely new. With the Auto Dimmer you are sure of a safe drive. Write for folder today telling all about it. Agents Wanted. A. B. BRETT DIMMER CO., 601 E. Drummond Street Mason City, Iowa

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He's a trouble chaser—lengthens your days by lightening your labors. 1 1/2 H. P. Gasoline Engine. Skid or truck. Patented speed changing device and other exclusive improvements. Size up to 1 1/2 H. P. Write for particulars. Gleason Mfg. Co., 91 Park St., St. Washington, Wis. \$32.50

# For Once a Lazy Man Wins

## Untopped Kafir Brings a Good Price

BY HARLEY C. HATCH

THERE is some kafir in the shock here that has not yet been topped. In most cases had this grain been topped it would have been threshed and sold. As the price has advanced about 10 cents a hundred a week for some time it will be seen that the owner is ahead by not having his work done. It does not always work out like this.

There is every prospect that the kafir acreage will be largely increased this spring. The price is high and bids fair to remain so and the crop is a sure one. For this reason it is a favorite with renters who have no interest in keeping up the land. It is our personal opinion that kafir is much harder on the soil than corn. What is yours?

We do not like to farm land that has been in kafir the season before nearly so well as we do corn land. Kafir ground works up harder, is more inclined to be lumpy and the stubs are a great nuisance. Kafir ground nearly always is free from weeds and grass. If we could give the ground where kafir has been raised a coat of manure before it is plowed it would make everything all right.

We began this week on the corn fodder and find that the stock do not eat it a bit better than they eat the kafir. The milk cows did not increase their milk and the stock cattle are not looking any better for the change. The corn fodder is very bright and clean and we leave plenty of small ears in it to season things. The reason kafir fodder has been so good this past winter is because we have had no soaking rains on it. In a wet winter corn fodder is the best; in a dry one there is no great difference.

One of our local stock buyers shipped out three cars of hogs in one day this week. Fear of disease and the high price of corn is causing hog growers to cut loose. They nearly all say that hogs ought to be higher in price next month but they have no confidence that the market will be a fair one. They think that the packers will have their own way especially during the unsettled conditions that follow the foot and mouth scare. This quarantine business has been a great source of profit to the packers this winter especially in Chicago. Stockmen here say that cattle and hog feeders have been literally skinned in the Chicago market ever since the foot and mouth scare started.

We have a letter from a Kansas rural route carrier in reference to our remarks regarding the pleasures of a mail carrier's life, during the time of storms and bad roads. This particular carrier would like wonderfully well to exchange his job for life on a farm and would like to be put in connection with some man who has a farm for rent. He gives figures showing his exact expenses during the past year. His expense bill on the route during that time was \$561.75, which covers depreciation on teams, interest on money invested, repairs, feed bills and minor expenses all contracted in carrying the mail. This amount does not cover his personal living expenses but only the expenses of carrying the mail. This carrier does not have a motor car but has to keep four horses and uses a common top buggy and in stormy times a covered mail wagon. After taking out the necessary expenses on the route he has left for his living and other expenses the sum of \$538.25 to pay him for a 30-mile drive, rain or shine, every week day in the year with the exception of five holidays.

No carrier on a rural route of average length can get along with less than four horses unless he keeps a motor car. In ordinary times if a team covers the route every other day it keeps them pretty well worn down and there is seldom a team to be found which is worth as much after a year on the route as it was before. We say that a man may get along with one team provided he has a motor car; it can be done in the summer but not when the roads are in the condition they are in at present. Our carrier has a 25-mile route and the

house in which this is written is just about half way around the route. In ordinary times when our carrier can use his car he arrives at our box at 9 a. m. In times when a team must be used when the roads are not what would be called bad he arrives at 10 a. m., but in times like the present he does not get the mail to our box before 11:30 a. m. If he did not have more than one team in addition to his car he could not make the delivery of mail because now, with four to six horses on the job, the team arrives at Gridley completely worn out.

These are the conditions under which our rural carriers deliver our mail. Now comes the postmaster-general and proposes that contracts for rural route carrying shall be let to the lowest bidder. Does any sane man think that a responsible carrier could be hired at any less than is paid now? If the mail service is put on the old star route basis again we may expect star route service. The laborer is worthy of his hire, the Bible tells us. Is not the rural carrier then worth the \$1,100 a year that he draws from the people? In Washington are thousands of government clerks who work short hours under pleasant conditions, all of whom draw larger wages than do our rural carriers and they have no equipment at all to maintain. Do the government authorities think of letting this clerical work out in a bunch to some accounting firm? If they did they might learn that the work could be done better and quicker for two-thirds the present cost. Why jump on the man who of all government employes has the hardest time, gives the most service for the money expended and receives the smallest salary—the rural mail carrier?

Within the last week we have had a number of calls for Silver Mine seed corn. We raised 5 acres of this variety last year from seed grown in Iowa. We grew this corn to make early grain feed for the hogs as we had raised no corn in 1913 and were feeding our hogs on corn which we had bought for 75 cents a bushel. Under those conditions we thought it would pay us to sacrifice a little on quantity if by so doing we could get feed two or three weeks earlier. We fed this Silver Mine corn all out early not saving an ear for seed as we did not think it paid to raise it under ordinary conditions. Our native white corn, which is on the order of Boone County White, yielded 8 bushels more to the acre than Silver Mine, planted side by side in the same field. This has always been our experience with northern grown seed. Earliness is gained at the expense of quantity. If corn is very high in price and a farmer has to buy it would be well to plant a few acres of early corn. If he has corn in plenty there will be a loss in nine seasons out of ten in planting northern grown corn.

An inquirer from Anderson county, asks if a farmer can be compelled by law to cut down his hedge along the roadside. We think he can. He is responsible for the hedge and it is on his land; if it does damage to the roads he can be compelled to cut it down to fence height. This is different from cutting weeds in the road. The farmer is not responsible for the weeds. He did not plant them and they are not growing on land under his care. For this reason we very much doubt whether a law would hold compelling a farmer to keep the weeds cut on the roads adjoining his land. It takes such a little while and adds so greatly to the appearance of the farm that we advise all farmers to clip the weeds along the road.

After a revival meeting where there were many converts, baptismal services were held. Little 4 year old George, who was watching with great interest, cried out, "They aren't baptizing papa. Will he have to be dry cleaned?"

Keep oyster-shell before the hens at all times if you want eggs that will stand the rough handling incidental to ordinary shipment.

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**Course in**  
**Horsemanship**  
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- Afraid of automobiles
- Afraid of robes
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- Afraid of cans
- Afraid of sound of a gun
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- Afraid of steam engine
- Afraid of the touch of shafts or harness
- Running away
- Kicking
- Biting
- Striking
- Hard to shoe
- Bad to groom
- Breaking straps
- Refusing to hold back while going down hill
- Scaring at hogs or dogs along the road
- Tail switchers
- Rolling the tongue
- Jumping fences
- Bad to hitch to buggy or wagon

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Twenty-five thousand FARMERS and horse-owners have taken my regular course and found that it does the work. Even if you have only one horse, it will pay you to master my wonderful system. The Beery Course is the result of a lifetime's work as a tamer and trainer of horses. As one of my students has said, "The horse has never been foaled that Prof. Beery cannot handle." My record proves it.

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 The Beery Course gives you the priceless secrets of a lifetime—enables you to master any horse—to tell the disposition of any horse at sight—to add many dollars to the value of every horse you handle—and my students are all good traders.

**Break a Colt in Double-Quick Time!**  
 You can do it by my simple, practical, humane system. There is a lot of money in colt training.  
**Make \$1,200 to \$3,000 a Year**  
 Many of my graduates are making big money as professional horse trainers at home or



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A. L. Dickinson, of Friendship, N. Y., says: "I am working a pair of horses that cleaned out several men. I got them for \$100, gave them a few lessons, and have been offered \$400 for the pair." Fred Bowden, R. R. No. 2, Keokuk, Iowa writes: "It's worth many times its cost." I have many similar letters from graduates all over the world.

traveling. I made a fortune traveling and giving exhibitions. You have the same opportunity.  
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 and get the Introductory Course in Horse Training FREE. This special offer may never be repeated. Act now. Tell me about your horse.  
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Trees planted in blasted holes averaged 1207 inches new growth the first year; trees in spade-dug holes grew only 555 inches, the New Jersey Experiment Station found. You get bearing orchards two years sooner and have bigger, thrifter, stronger-rooted trees when you plant them in holes blasted with

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 The Original Farm Powder

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Atlas Farm Powder is made especially for farm purposes and is sold by dealers near you. It is safe, convenient, and most economical for you to use in planting your trees, blasting stumps and clearing land, digging ditches, etc.

**Send Coupon for "Better Farming" Book FREE**  
 Our valuable new book, "Better Farming," tells how to regenerate old orchards, how to plant new orchards most successfully, how to increase the fertility of the land, and how to do many kinds of work with Atlas Farm Powder. Get it now—mail the coupon.

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**Do You Have to be Shown?**

I'm told that I have the best quality of seed, give the largest packages and have the most common-sense Seed Book in the bunch. And I'm willing to admit it.

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

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

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

# How to Make a Good Hotbed

## Old Boards May Be Used for Making the Frame

BY LEONARD G. HERRON

A HOTBED is a plot of earth enclosed in a low frame, covered with glass or cloth, heated usually by fermenting manure. If the heat is omitted it is called a coldframe.

Of the many kinds and types of hotbeds the simplest and cheapest is the one most popular for the home. Where glass is used only on a small scale the cheap bed serves the purpose and requires no particular skill nor knowledge to construct. A frame 6 by 12 feet is very convenient and is large enough for almost any home garden. This frame requires four sash of the ordinary size, 6 by 3 feet. It is usually made so that it will extend 12 to 15 inches above the ground at the back and 8 to 11 inches at the front.

Almost any kind of boards may be used for making the frame, but pitchy pine or some soft wood that does not rot quickly is preferable. If a frame is desired that will be serviceable for several years it is advisable to use 2-inch planks instead of inch boards.

### How to Make the Frame.

The frame may be made any size, but to accommodate four ordinary sash the frame must be 12 feet 3 inches long inside and about 1 inch less than 6 feet wide outside. The ends must be made to correspond to the slope from the back to the front, but must be made to extend 2 inches above the front and back. This is necessary in order to hold the

sash in place as they rest on the edges of the back and front boards and are approximately 2 inches thick. A 14-inch board for the back, an 8-inch board for the front and 3/4-inch boards, one ripped diagonally, for the ends will furnish the necessary material. Every 3 feet a crossbar, extending from the back to the front should be placed for the sash to rest and slide on. These crossbars are about 2 inches broad and have a one-half-inch strip projecting from the middle. This is to prevent the sash from rubbing together and binding. The bars should be so placed that at least one-half inch of space is unoccupied when the sash is slipped in. This will allow space for the sash to swell when wet. The sides and ends can be nailed together, but if bolted or mortised the frame can be taken apart and preserved for future use much more easily. Two coats of paint should be applied to prevent warping and weathering of the lumber.

times better than glass as the beds do not have a tendency to become so hot and dry. Strips of the muslin large enough to cover the bed are sewed together. One edge is tacked to the back of the frame and a strip is fastened to the other edge. This strip is used to roll the muslin on when it is desired to have the bed open.

Protection, in addition to the sash, must often be given to very early hotbeds. Carpet matting, old carpet and burlap make good covering material. Many times loose straw is piled on the sash for protection during especially cold periods.

### The Pit Must Be Deep.

The pit is the next consideration. It must be deep enough to accommodate about 15 inches of manure and 3 or 4 inches of soil. It must also be about 1 foot larger each way than the frame. This is so that the manure will extend outside the frame and give uniform heat in the corners. Fresh horse manure is practically always used for heating. It is obtained a week before it is wanted in the bed and turned several times so that it will start heating evenly.

This manure is forked into the bed, tramped thoroughly, especially in the corners, and dampened. The frame is set on this manure and fastened down. Three inches of rich, loamy garden soil is placed in the frame, worked down level and the frame covered with the



In Making the Hotbed Be Sure to Have the Sash So Arranged That They May Be Easily Raised Or Lowered for Ventilation.

The sides of the frame are banked with manure or dirt and in three or four days the bed is ready for planting. Here is an estimate of the cost of a serviceable hotbed that can be constructed at home:

Inch boards for 12 by 6-foot frame...\$1.00  
Four sash, unglazed ..... 5.00  
Glass for glazing..... 2.00

Total ..... \$8.00

The following is the estimated cost of a hotbed with muslin sash:

Inch boards for 12 by 6-foot frame...\$1.00  
Strips and muslin for sash..... 1.00

Total ..... \$2.00

In order to secure the best success with the hotbed it should be located so that it will be sheltered from the north and west winds. It should also be in a well drained location. To the south of some building is probably the best place. A convenient water supply is necessary as the bed will require frequent waterings. The sash should slope from north to south in order to get the full benefit of the sun's rays.

A coldframe is constructed exactly the same as the hotbed, except that no manure is used and consequently a pit is not necessary.

### It Wasn't His Fault

"Now, Thomas," said the teacher, severely, "how many times must I tell you not to snap your fingers? Put your hand down and presently I'll hear from you."

Five minutes later she said: "Now, then, Thomas, what was it you wanted to say?"

"There was a man in the entry a while ago," said Thomas, serenely, "and he went out with your new silk umbrella."

The current war is the greatest maximum silencer of the ages.

It's the top dollar that puts the cream into the cream check.

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

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**BERRY'S BEST, Box 123, Clarinda, Iowa**

# When to Start the Garden

## Some Elementary Facts Worth Knowing

BY IZIL POLSON  
Manhattan, Kan.

**C**HOOOSE a sunny slope for your garden if you can, but not so steep as to cause serious washing of the soil. A southern or southeastern slope is best because it affords a more direct exposure to the sun. A windbreak of trees or shrubs or a fence should be provided as a protection from cold northern winds which influence the earliness of the crops.

The best soil for early vegetables is a light sandy loam. It is warmer than other soils and dries out earlier in the spring. This soil lends itself better to irrigation than heavier soils. Hence it can be planted earlier and hastens crop development. For later crops, almost any kind of soil will do. Clay soils are heavy and require much care in working but can be improved by adding organic matter. This can be done by plowing under green crops, or by applying manure. If the soil is very heavy and moist, tile drainage is advisable.

Then comes the seed. "You can't be too particular about this part of the work," says Michael Abern, associate professor of horticulture in the Kansas State Agricultural college. And he knows. But this needs no argument. Any sensible gardener ought to know that if he doesn't choose the right quality in seed he most certainly will have poor returns for his labor.

A thorough breaking of the soil to a depth of from 4 to 10 inches is necessary. The commonest and best way is plowing, and it is a good plan to disk the land before plowing. Disking leaves a quantity of finely pulverized soil at the bottom of the furrow. Fall plowing is advisable if you expect to plant early spring vegetables. Plowed ground dries out earlier than unplowed, and no time need be lost in plowing after the ground has reached workable condition, factors which facilitate early planting. This process conserves moisture and kills many insect enemies. In order to determine when the land is in workable condition take a small portion of the soil in one hand and press it into a ball. If it retains its shape and shows the prints of the fingers when the hand is



opened and yet crumbles easily when rubbed lightly between the thumb and finger it is ready for working.

Vegetables require an abundant supply of plant food. For this reason much heavier applications of fertilizing materials are required for their production than for the growing of ordinary crops. Animal manures are especially valuable in vegetable gardening for in addition to supplying plant food they give organic matter to the soil. They form a better balanced fertilizer for vegetables than they do for other farm crops.

If you wish to get the best possible results in vegetable gardening it is not wise to depend entirely upon rain. Moisture can be conserved by thorough tillage, but tillage alone is not sufficient. Irrigation is an absolute necessity in most cases. If the

garden is near a lake or stream a pump and pipe line can be arranged to bring the water up to the level of the garden. It is advisable to plant in long rows separated by furrows rather than in beds, to make irrigation easier. An easy method of watering the plot is to turn the water into a ditch dug along one side of the garden at right angles to the furrows and at the summit side of the slope. The water naturally will follow down the furrows. A temporary mud dam can be built in the main ditch allowing the water to enter only about four furrows at a time. The dam can then be moved down a few more rows, and so on until the entire plot is watered.

To get an early start with your garden a hotbed will be needed, and this may be any size according to your plan and your requirements. Ordinarily a family garden should be started in a 2-sash hotbed. If you object to the toil, then a coldframe will satisfy. The coldframe is the simpler of the two structures to make. It consists of a wooden frame covered with a glass sash fastened with hinges so that it can be raised and lowered like the lid of a box. The sun is the only source of heat. An additional covering is necessary at night to prevent too rapid cooling.

The editors of farm papers will testify that all these facts are necessary

in a garden story; the mail they receive proves it.

A hotbed differs from a coldframe in only one way: Its heat comes from a layer of horse manure placed under the soil of the bed. It is best to dig a pit over which the frame can be placed, and fill the pit with fine manure and soil. For permanent bed the pit should be lined with boards or brick. The frame should be 18 inches in the rear, sloping to 12 inches in front, and should face the south.

Plants grown under glass require much care. They must have air and they must not be overheated nor allowed to freeze. The sashes should be raised for a short time every day to admit air and let out surplus heat. Water should be applied but not too often. Infrequent heavy watering is better than a light wetting at frequent intervals. The soil should be loosened occasionally with small tools.

Plants whose root system consists of a few long fibres or a single tap-root, such as parsnips, are very difficult to transplant. Plants having a compact root formation suffer very little. The most important thing is that the plants shall not suffer from lack of moisture either during or immediately following the transplanting.

Onions, celery, beets, and cabbage usually are transplanted without dirt on the roots. A dibber, which is a sharpened stick with a curved handle to fit the hand, is good for setting out

should be fixed with this means of cultivation in mind.

In planting it is possible to get the best results by an orderly arrangement of the crops. The perennials such as asparagus, rhubarb or strawberries should be placed on one side of the garden; the long-season crops, parsnips, salsify, carrots, tomatoes, egg or pepper plants, and cabbage on the other side. Next to these can be placed the mid-season, beets, corn, and onions, and last the short season, such as lettuce and radishes. This arrangement makes it possible to cultivate the space occupied by the short-season vegetables for a second crop as soon as the first is harvested. Turnips mature quickly and may be planted as late as August, serving well for a second crop.

## Kansas Needs Better Woodlots

There are thousands of acres in Kansas which are producing timber entirely worthless except for its fuel value, but which ought to be used in the growing of good timber, according to C. A. Scott, state forester. Instead of buying cedar posts from Michigan, Wisconsin, or Minnesota, it will be profitable for the farmer to grow his own posts.

The preservative treatment of farm timber supplies is of great importance because many of the trees growing in the natural wood lots are perishable and unfit for posts. The forestry depart-

### PLANTING DATES IN 1914 AT K. S. A. C.

Beets, early	May 1	Peppers, set out	May 16
Beans	May 1	Peanuts, planted	May 29
Carrots	April 4	Parsnips, planted	April 4
Cabbage, set out	April 15	Potatoes, Irish	March 21
Celery, set out	June 4	Potatoes, sweet, early	May 6
Caulliflower, set out	May 16	Parsley	April 15
Cucumber, set out	May 16	Radishes, planted	April 20
Egg plant, set out	May 5	Rutabagas, planted	May 16
Lettuce, planted	March 14	Salsify, planted	April 14
Muskmelon, planted	May 10	Squash, planted	May 28
Mangels, planted	May 18	Spinach, planted	April 4
Onions, planted	March 14	Tomatoes, set out	April 23
Peas, planted	March 14	Watermelon, planted	May 10

these small plants. Make a hole with the dibber, put in the plant, and pack the dirt around it by pressure of the hands. For larger plants a spade can be used. Thrust the spade into the ground and press it forward making a wedge shaped opening into which the plant is thrust. A garden trowel is perhaps best for setting out small plants with dirt attached to the roots.

The farmer's garden may be larger than the ordinary kitchen garden. It is possible for him to grow more vegetables than are required for table use in his home, and to put some on the market. But gardening on a large scale does not mean harder work, because of the possibility of using horse implements in cultivation instead of laboriously tilling by hand, as is necessary in small plots. Horse cultivation is much to be preferred. It loosens the ground more thoroughly than can be done by hand, and does the work so rapidly that the space can be gone over several times. The distance between rows

ment of the agricultural college is conducting investigations to find a preservative for such woods as cottonwood, willow, white elm, soft maple, red oak, and black jack oak. If such a preservative can be found, it will mean the saving of thousands of dollars to the farmers of the state.

The planting of windbreaks to protect the cultivated fields and growing crops from the sweeping winds is being encouraged by the forestry department. For western Kansas, where many varieties of trees refuse to grow, the forestry department is introducing foreign species which are likely to be hardy under Kansas conditions. Trees in many parts of Kansas are in need of treatment to prevent their destruction by fungous diseases and the department is giving advice as to the proper preventive measures.

The whitest of lies should be allowed only in the "jim-crow" corners of the mind.

## FARM GARDEN RECORD KANSAS STATE AGRICULTURAL COLLEGE EXPERIMENT STATION

VEGETABLE	Variety in order of production.	Date	Amount seed	Average price seed	Depth of planting	Between rows	Distance apart in row	First picking	Last picking	Yield to 100 feet
Beans	Stringless Green Pod	May 10	1 pt. to 50 feet	1 qt., 30c	2 to 3 inches	3 feet	6 inches	June 27	July 18	48 qts
	Bush Lima	May 10	1 pt. to 50 feet	1 qt., 25c	2 to 3 inches	3 feet	6 inches	June 27	July 18	46 qts
Beets	Crosby's Egyptian	April 6	1 oz. to 50 feet	1 oz., 20c	1/2 inch	12 to 18 in	2 to 4 inches	June 11	Sept. 11	450 lbs
Cabbage	Premium Flat Dutch	April 24	1 oz. to 1500 plants	1 oz., 20c	1/2 inch	3 feet	2 feet	June 27	July 21	41 heads, 54 lbs
	Early Jersey Wakefield	April 24	1 oz. to 1500 plants	1 oz., 30c	1/2 inch	3 feet	2 feet	June 27	July 21	45 heads, 52 lbs
Carrots	Early Chantenay	April 1	1 oz. to 100 feet	1 oz., 25c	1/2 inch	14 to 18 in	2 to 4 inches	July 20	Nov. 1	240 lbs
	Half Long Danvers	April 1	1 oz. to 100 feet	1 oz., 25c	1/2 inch	14 to 18 in	3 to 5 inches	Aug. 10	Nov. 4	120 lbs
Celery	Giant White Pascal	July 13	1 oz. to 3000 plants	1 oz., 20c	1/2 inch	3 to 4 feet	6 inches		Sept. 28	180 heads
	White Plume	July 13	1 oz. to 3000 plants	1 oz., 20c	1/2 inch	3 to 4 feet	5 inches		Sept. 15	220 heads
Cucumbers	Arlington White Spine	May 8	1 oz. to 50 hills	1 oz., 20c	1/2 inch	4 to 6 feet	4 to 6 feet	July 25	Sept. 20	1799, 150 lbs
Lettuce	Black Seeded Simpson	April 12	1 oz. to 150 feet	1 oz., 15c	1/2 inch	14 inches	3 to 4 inches	May 28		264 lbs
	Improved Hanson	April 12	1 oz. to 1000 plants	1 oz., 15c	1/2 inch	14 inches	3 to 4 inches	June 1		244 lbs
Onions	Giant Gibraltar	April 12	1 oz. to 100 feet	1 oz., 15c	1/2 inch	12 inches	3 to 4 inches	Aug. 22		28 lbs
	Prizetaker	April 12	1 oz. to 100 feet	1 oz., 15c	1/2 inch	12 inches	3 to 4 inches	Aug. 22		21 lbs
Parsnips	Hollow Crown	April 12	1 oz. to 200 feet	1 oz., 15c	1/2 to 1 inch	18 inches	2 to 4 inches		Oct. 9	56 lbs
Peas	Nott's Excelsior	April 12	1 qt. to 100 feet	1 qt., 40c	3 inches	3 to 3 1/2 feet	1 to 2 inches	June 8	July 19	21 lbs
	Gradus	April 12	1 qt. to 100 feet	1 qt., 60c	3 to 4 inches	3 1/2 feet	1 to 2 inches	June 8	July 19	20 lbs
Radishes	Early Scarlet Turnip	March 22	1 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	14 inches	1 to 2 inches	May 1	May 20	3077 roots
	White Strassburg	April 10	1 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	14 inches	1 to 2 inches	May 20	June 1	2607 roots
Salsify	M. Sandwich Island	April 25	1 oz. to 70 feet	1 oz., 10c	1/2 to 1 inch	18 inches	2 to 4 inches		Sept. 4	50 lbs
Spinach	Victoria	March 25	1 oz. to 100 feet	1 oz., 10c	1 to 2 inches	12 to 18 in	2 inches	May 11	June 17	75 lbs
Squash	Summer Crookneck	May 16	1 oz. to 20 hills	1 oz., 15c	1 to 2 inches	7 to 8 feet	7 to 8 feet		Aug. 7	13 squash, 39 lb
	Hubbard	June 20	12 seeds per hill	1 oz., 15c	1 to 2 inches	10 to 12 feet	10 to 12 feet		Sept. 9	9 squash, 35 lb
Sweet Corn	Mammoth White Cory	April 20	1 qt. to 300 hills	1 qt., 25c	2 inches	3 feet	2 1/2 to 3 feet	June 23	July 16	91 lbs
	Stowell's Evergreen	April 20	1/2 qt. to 100 feet	1 qt., 30c	2 inches	3 feet	2 1/2 to 3 feet	June 23	July 16	87 lbs
Tomatoes	Earlana	May 12	1 oz. to 1500 plants	1 oz., 30c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	420 lbs
	Stone	May 12	1 oz. to 1500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	405 lbs
	Dwarf Champion	May 12	1 oz. to 1500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	217 lbs
	Trucker's Favorite	May 12	1 oz. to 1500 plants	1 oz., 25c	1/2 to 1 inch	4 feet	4 feet	July 12	Sept. 18	230 lbs
Turnips	Early White Milan	July 3	1/2 oz. to 100 feet	1 oz., 10c	1/2 to 1 inch	18 inches	6 inches	Aug. 15	Oct. 1	150 lbs

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**D** ID you ever wonder, when opening a package of garden seeds in the spring, just the history of these seeds? They have had quite a bit of experience before they reached you. The seed business of the country has grown to be a very complex thing. This was forcefully impressed on a representative of the Farmers Mail and Breeze on a trip recently through the plant of the R. H. Shumway company at Rockford, Ill. A high degree of efficiency is obtained in this plant.

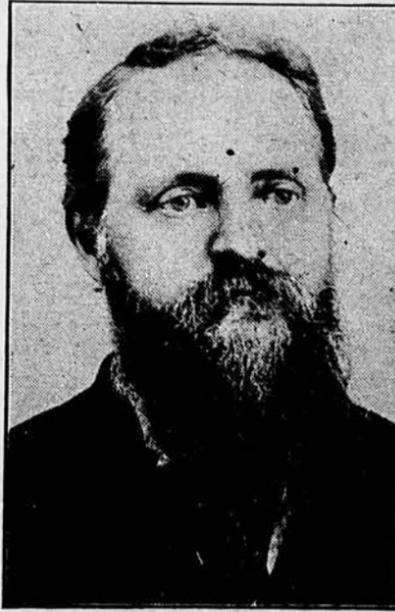
R. H. Shumway started the business in 1870, and he still takes an active part in its management.

There is work for everyone in his plant these days as the big rush comes in the winter months. Most of the orders are received in the first three months of the year, in preparation for the spring planting, and every member of the organization is working at top speed during this time.

The trade has been especially good recently; it has not suffered at all from the depression noticed in some other branches of industry. Indeed it is a very noticeable thing that hard times is the very best thing that can occur for a seed firm. When times are prosperous there is not so much need for economy with the average person, and he buys a high proportion of his vegetables—this is especially true in the city, of course, and it all too frequently is true in the country. When money is not so plentiful the family council takes up the matter of cutting expenses, and one of the first things that usually is suggested is that more of the vegetables should be raised. This is agreed to with great enthusiasm, and an order is sent to a seed firm. This enthusiasm which is evident among the family members may or may not be evident after they have had some experience in the work required in producing these vegetables. But, anyhow, the order has gone through the plant, and added to the volume of business. The R. H. Shumway company has an immense business in an ordinary year, and this has been greatly increased this winter.

Extensive preparations were made to meet this demand. The war has complicated things somewhat, for the supply of many of the seeds which ordinarily come from Europe has been cut off. The Shumway company was fortunate in having enough seed before the war broke to carry it over this year, so its business will not suffer this year from the disturbance. The supply will be greatly reduced for next year. It is expected, though, that this deficiency will be covered in some lines by increased plantings by the seed raisers in this country. Of course the shortage will be very serious with many lines.

The increased extent to which seed production will be encouraged in this country will be one of the fine things that will come from this year, Mr. Shumway said. A great deal of money has been going to Europe for seed that might as well be produced here. Many of the seed growers will get into the business more extensively, and it is to be expected that the foreign growers will have some trouble in getting them to quit after



R. H. Shumway.

conditions again become normal. Europe never will regain all of its seed trade.

There is no reason for any grower to rush into the seed producing business, just because there is a war in Europe, unless he knows something about it. If a man has been growing seed for the market, and has made a success of it, there is no reason why he should not get into the production of seed that has been purchased in Europe.

The seed companies that have the trade of the consumers are planning to do this. But they do not raise any considerable part of the seed they sell, as a rule. Most of them, with the R. H. Shumway company, are largely dealers. They buy the seed they raise in all parts of the country, from the Atlantic to the Pacific, in Europe, and in other parts of the world. The main reason for this is that there is a great variation in the seed production with plants in the different localities. Most seed firms have farms, but these usually are used quite largely for testing. This is the case with the R. H. Shumway company. The members of this company have had a great deal of experience in the seed raising business. Mr. Shumway produced seed for the commercial market in this way for many years before he started his mail order trade.

**Much Work, Few Errors.**

There is a great deal of very complex work connected with the seed business. It requires a vast amount of work and care to handle the hundreds of varieties of seed, to get them arranged in packets and larger containers and then to get the orders made up without mistakes. Some mistakes are made in filling orders, but these have become very few in recent years, due largely to the remarkably efficient way which the Shumways have worked out to handle them. This has been aided, also, by the care they have taken to retain their organization, so experienced help will be available from year to year.



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# Let's Have Less Smut in Oats

## Formalin Will Control Disease and Increase Yields

BY F. B. NICHOLS  
Field Editor

**S**MUT damages almost every oats field in Kansas that is grown from untreated seed. In some cases the loss is small, it may not be more than 1 or 2 per cent, but in many fields it is very large. All of these losses can be prevented if the seed is treated with formalin.

Some remarkable experiments in the control of oats smut were carried on in Gage county, Nebraska, last year, by some of the leading farmers. An average increase in yield of 12½ bushels of oats was obtained on the treated fields. At 35 cents a bushel this means an average increased crop value of \$4.38 an acre—and the cost of the material was about 2 cents an acre. These tests were carried out under the direction of O. H. Liebers of Beatrice, the county farm agent.

Oats is quite an important crop in Gage county, the area sown usually amounting to about 40,000 acres. Losses from smut have been large in the past, which is the rule most years on fields that are not treated for this disease. This smut treatment was one of the main subjects discussed at Mr. Lieber's meetings over the county last winter. As one result of his efforts he got 32 men to agree to treat most of their seed, and also to leave a plot of two acres or more that was sown with untreated seed. In every case this plot

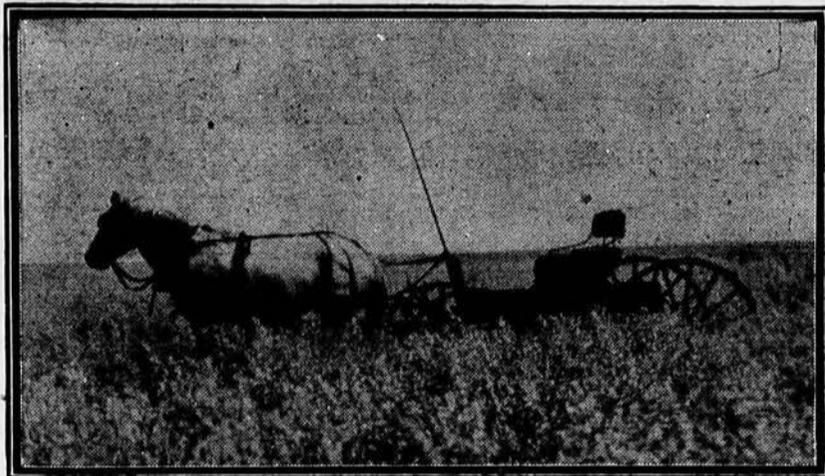
from the treated seed was 44.4 bushels an acre, while the untreated seed made but 30.1 bushels. There was no smut of any kind in the treated section, while in the untreated field there was 33.8 per cent of smut. The difference in yield between the two sections was 14.3 bushels an acre—which gave an increased yield, due to the formalin treatment, of 414.2 bushels.

### The Difference in Dollars.

The average acre yield on the treated fields was 48.56 bushels an acre, while on the untreated section it was 36.06 bushels—a difference in favor of the treated seed of 12½ bushels an acre. The average per cent of smut by actual count in 142 of the average oat fields of the county was 12.3 per cent. Basing the results on the average, the saving on the 32 treated fields, containing 740 acres, was 9,250 bushels, representing an increased profit of \$3,237.50.

Mr. Liebers has earned the credit for promoting most of this work, for but one field in the county was treated in 1913. It is quite safe to forecast that several hundred fields will be sown with treated seed next year.

The formalin treatment for seed oats is very easy to apply. One pint of 40 per cent formalin is mixed with 40 gallons of water—this is enough to treat 40 bushels of seed oats. Spread



There is No Smut in This Oats Field, As the Seed Was Treated With a Formalin Solution to Kill the Spores.

was a strip through the field that differed, in no way in soil or the methods of seedbed preparation, from the rest of the field.

### A Few Examples.

Mr. Liebers was present when six of these fields were harvested, and these were used in making up the averages. They differed in no way from the other 26 tests. Take for example the results on the farm of Frank Crocker of Filley, the Duroc-Jersey breeder, and secretary of the Nebraska Swine Breeders' association. Mr. Crocker planted 25.02 acres to treated oat seed, and 2.39 acres to untreated seed. The yield of the treated seed was 50.5 bushels an acre, while the yield on the untreated plot was 38.5 bushels. There was 28 per cent of smut in the untreated oats, and the difference in yield between the two plots was 12 bushels an acre. Mr. Crocker got an increased yield of 300.2 bushels of oats by treating his seed.

The difference in the yield on the farm of A. E. Claussen of Beatrice was even more striking. He planted 26.94 acres with treated oats, and 4.19 acres with untreated seed. The yield on the treated section was 53.2 bushels an acre, while the yield of the untreated section was but 36.03 bushels. There was 21 per cent of smut in the untreated plot, and the difference in the yield was 17.17 bushels an acre. Mr. Claussen got 462.5 bushels of oats more from the treated section than he would have obtained if this treatment had been omitted. This treatment cost him about 50 cents and a very little labor.

Frank Vitrouski of Virginia treated the seed for 28.97 acres, and left 12.87 acres in the untreated plot—he desired to leave a big untreated plot so there could be no chance for error. The yield

out the oats and sprinkle it thoroughly; be sure all of it is wet. Then shovel it into a pile and cover this pile with canvas. Leave the oats in this pile for 12 hours, and then spread them out to dry. The cost of the treatment is a little less than 1 cent a bushel, not including labor.

### When Fighting Crop Insects

Rotation is one of the best general preventives of injury from insects affecting field crops. Experience has shown that where corn has followed itself upon the same field for two or more years there has been a much greater loss from the corn stalk borer than where an annual change of crop has been practiced. This is especially noticeable where stalks or stubble from the previous year have been allowed to remain undisturbed throughout the winter.

The moths, upon emergence in the spring, finding themselves surrounded by the young corn, begin egg laying at once, and escape the dangers encountered in searching for another field of corn. A forced journey in search of young corn results in many of the females being eaten by birds or being destroyed because of rain, cold, or failure to find the object of their quest. A few moths will always succeed in their search, but the successful proportion will be greatly decreased by persistent crop rotation.

If you did not give the old incubator a good cleaning last fall, better get busy before using the machine for hatching eggs again.

A pessimist is one who sees only the rotten speck in the pumpkin.

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*Enrico Caruso*



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### Save the Pigs

The number of pigs lost between birth and weaning time is greater than the total number lost from all causes after they are weaned. A large part of this loss can be avoided by feeding and handling the brood sow properly before and after farrowing. Small litters are expensive.

The brood sow needs bulky, laxative feed which supplies plenty of growth producing material. Alfalfa hay in winter, and alfalfa pasture in summer with enough corn to keep them gaining makes a good ration for mature brood sows before farrowing. The gilt needs more growth producing material to build up her own body as well as to develop the pigs. A mixture of 65 per cent corn, 32 per cent shorts, and 3 per cent linseed meal or tankage or both fed in addition to the alfalfa makes a good ration. Keep brood sows gaining but do not get them too fat.

Put the sow in a pen to herself three to five days before she is due to farrow. Feed less corn. Give her a mash consisting of 50 per cent bran, 48 per cent shorts, and 2 per cent linseed meal. Be with her when she farrows regardless of the time of night or kind of weather. You may save a litter. Do not give her anything but lukewarm water during the first 12 hours. Do not feed grain the first 24 hours. Give her a handful of bran or oats the first feed. Shorts and corn may be fed later. Increase the amount gradually until the sow is on a full feed of shorts and corn fed as a slop. This usually will be in about ten days. Do not forget to give the sow alfalfa when she is shut in the pen.

The A-shaped houses are the best and cheapest. You can save pigs in them when the temperature is 10 degrees below zero by using lanterns for heat. The houses should be banked with manure in zero weather. Every house should have a window in the south end to let in the sunshine. Feed the pigs in a "creep" where they can get away from the sows. Keep the sows and pigs free of lice and mange by the use of hog dip or oil. Keep a mixture of charcoal, ashes, salt, sulphur, and copperas before them at all times.

The hog represents one of the most important classes of livestock for the young man with little capital who lives in the cornbelt. Less money is required to get a start in the hog business than is required for any other livestock enterprise. The hog matures early and returns come quicker than they do with cattle. The hog makes a greater gain from a given amount of grain than does any other animal except the sheep. Hogs can use moldy, sour, or immature grain, which otherwise would be wasted, to good advantage. The cost of keeping a brood sow varies from \$12 to \$20 a year according to the price of feeds and the method of feeding.

Garrison, Kan. Carl Thompson.

### Sheep Have Indigestion

I do not know what is the trouble with my sheep. I have been feeding them on "overflowed alfalfa." They do not get grain. They get blind and listless and stagger around. Some of them cannot run without falling. They refuse to eat, and die in about a week.  
Rooks County, Kansas. A. S.

I believe your sheep have indigestion caused by eating moldy feed. The sheep is a gleaner it is true, but it should not be considered simply a scavenger. Sheep need good, clean feed the same as other stock. Moldy hay or stover is injurious to all classes of stock. No doubt there is considerable mold in the hay that is being fed to these sheep. The remedy is to change the feed. It is not a good plan to feed ewes on alfalfa hay alone. A little silage, corn or kafir stover, or other similar roughage should be substituted for part of the hay. Avoid feeding any silage, stover, or other roughage which is moldy. Bright, clean hay should be fed in the place of that which was "overflowed."

The sheep should have access to wheat or rye pasture if it is available. If wheat or rye pasture is not available turn them in a pasture or field where they can range at will and get exercise. If the ewes are to produce lambs in the spring it may be profitable to feed them a little grain. The lambs will be stronger and make a more rapid growth than they will if their mothers have to subsist on roughage alone. If some grain is fed the lambs will be ready for mar-

ket before the hot, dry weather comes. The amount of grain to feed, however, will depend on the condition of the ewes. If they are fat they will not need much grain.

Turner Wright.

### Calf May Have Brain Trouble

We have a Jersey calf 4 months old. We noticed it turning round and round until it would fall, four weeks ago. She has not stood on her feet since. There was a large cake under her neck. Her head turns to the right side. She can straighten her neck but it soon draws back again. I have rubbed her neck with various things. The cake under her neck is gone but it seems that her tongue is stiff. She does not try to eat anything from the front of her mouth. I have been feeding her, since she has been down on sweet milk in the morning and butter milk in the evening. She grinds her teeth all the time. Can you tell me what the trouble is?  
Marion County, Texas. W. C.

I cannot tell you positively what is the trouble with your calf but I believe the brain is affected. The calf probably has a small abscess or possibly a tumor or blood clot on one side of the brain which presses on that side and causes the rotary movements you noticed. It also might cause a partial paralysis or inability to control the movements of the tongue. There is no known form of treatment for this condition.

Animals which can be kept in fair condition by careful nursing occasionally outgrow the trouble, but in the majority of cases they gradually become thinner, some develop bed sores, blood poisoning develops, and they die. All you can

We spend more than a million dollars a year on our colleges and university, and it is money well spent; but we must have education that fits not the few, but the many for the business of life. Absolute thoroughness in the common, fundamental branches is necessary. A boy or girl who has gone through the eight grades should possess a complete, practical education and should have received special training in some specific line of work, fitting him or her to earn a livelihood. Vocational work should be done in all the schools beginning with the fifth grade.—From Governor Capper's Message to the Kansas Legislature.

do is to keep feeding the animal as you have been doing so as to keep up its strength as much as possible, and trust that it will outgrow the trouble.

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

### Rickets?

My hogs are affected with a disease which I think is rickets. Can you give me a remedy or preventive for this disease?  
Texas County, Oklahoma. J. K. H.

Rickets is a bone disease which often causes lameness and snuffles in young pigs. It is a softening of the bones caused by a deficiency of calcium salts in the ration. The treatment and preventive is to feed a ration which contains plenty of calcium and other bone and muscle building materials. A teaspoon of Fowler's solution for every 100 pounds of live weight, administered once every day will be beneficial.

If Fowler's solution does not produce results in 12 to 14 days it might be well to try a mixture consisting of 1 dram calcium phosphate, 20 drops of fluid extract of nux vomica, and 2 drams of cod liver oil. This amount makes a dose for every 100 pounds live weight.  
T. W.

### To Kill Warbles

I have some good Jersey cows which have warbles in their backs. What must I do for them?  
Groveland, Kan. N. R. C.

Two methods of treatment are recommended for animals infested with warbles. One method is to squeeze the individual grubs out through the opening in the lump. If the opening is too small for this to be done it may be incised slightly.

The other method is to place a drop of kerosene in the opening. This will destroy the grub. Some state that if rancid butter is rubbed on the backs and loins of cattle during August and September they will not become infested with these parasites.

Dr. R. R. Dykstra,  
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**To Feed An Orphan Foal**

I have a colt 1 week old which I am trying to raise by hand. I am feeding it 1 pint of milk and 1/2 pint of water every 3 hours during the day. The first feed in the morning contains one beaten egg. It is not fed at night. Will you tell me how to feed this colt?  
A. F. S.

Barton County, Kansas.  
It happens often that an orphan foal must be raised by hand. This task can be accomplished easily enough but it takes a lot of work and patience. The method usually employed is the one recommended in "The Horse Book" by Johnstone. This method is given here: A newly born animal never needs much food. The milk of a mare has more sugar and less fat than the milk of a cow, but the difference is not so great that there is any danger of killing the foal by feeding cow's milk intelligently. Most mares' milk has not quite 3 per cent of fat and most cow's milk not quite 4 per cent, so the difference is not so very noticeable.

Get the milk of as fresh a cow as possible, and the poorer it is in butterfat the better. Do not use Jersey milk. Take a dessertspoon of the best granulated sugar and add enough warm water to dissolve it. Add 3 tablespoons of lime water and enough new milk to make a pint. Let the colt have half a teacup every hour at first. It is a bothersome chore but it must be done. If the colt has scours, give a dose of 2 ounces of castor oil and discontinue the milk for two or three feeds giving the sugar and limewater as before but substituting plain water for the milk, or feed nothing at all. Foals reared by hand will scour more or less but the castor oil generally will fix them up all right.

The quantity of milk fed at a feed may be increased and the number of feeds decreased as the foal grows older, until according to its thrift it may be fed six times a day and then four times. If it is carried along nicely it may, at the end of three weeks, be fed the milk and lime water or milk alone from a bucket eliminating the sugar. It never should be given all the milk it will drink at that age. Watch closely for signs of scouring which are a sure sign of indigestion, and cut down the quantity of milk fed for a day. Give castor oil as before only in 3 or 4 ounce doses. Always have fresh water so the foal may drink if it is thirsty.

A foal will begin to nibble at grain when it is about a month old. Its first food should be oatmeal. It should be given just what it will eat of this. It will be only a very little at first. Bran may be added to the oatmeal when the foal is 6 weeks old. Some sweet skim-milk can be substituted for part of the new milk when the colt is 2 months old. The skim-milk can be increased gradually during the next month. The foal, when 3 months old, may be fed all the skim-milk it wants three times a day. It will be eating plenty of grain and grass then and it should have hay if it wants it. Never feed sour milk, or sweet milk from unclean vessels. Keep the colt in a lot near the house and give it company if it is only a runty calf. Never confine the colt closely in a stall. Foals to develop to their best should have about all the grain they will eat.

The colt should thrive if this method of feeding it is followed. It will need feed during the night as well as during the day for awhile. Cleanliness and regularity in feeding are essential for success.  
T. W.

**Community Breeding Pays Well**

The need for more community breeding has often been urged by the Farmers Mail and Breeze. This is being worked out excellently in some Kansas communities, especially at Mulvane and in Montgomery county. The most progress in this very valuable form of co-operation has been brought about in Wisconsin in the breeding of dairy cattle. Hoard's Dairyman recently told of the remarkable work of the Waukesha County Guernsey Breeders' association for the advancement of this breed and of farming in that section. In speaking of the results of the work of the organization, it said:

The community life in Waukesha county has been broadened and enriched by the co-operative spirit fostered by this association. Improvements, modern conveniences, and better methods of doing things are very contagious in communities where there is a good spirit existing and where people frequently come in touch with each other. The farm houses are neatly kept; the barns are well lighted and ventilated, and white-

washed on the inside. These stables, which are usually neat and orderly, present another impressive sight when filled with long rows of choice Guernsey cattle. It is safe to assume that the farms in Waukesha county would not present as pleasing an impression as they do today if the breeders had not been brought together in an intimate way through a common interest.

The work of the association also has done much for the young people on the farm in that it has brought many interesting topics of conversation to the home and raised the work of the farm above distasteful drudgery by instilling an interest and enthusiasm for the Guernsey cow. By the frequent visiting and meeting of the members of this association, with the common interest in one another's welfare at heart, a rather intimate knowledge of each other's condition is established. In this way the association has grown accustomed to capitalize the combined information of the association. The labor problem, for instance, is often greatly relieved by this combined knowledge of the various members of the association.

In briefly reviewing the achievements of this association during the past eight years, we find that a good community spirit has been developed; that an almost unlimited

market has been brought to the door of Waukesha county through which the breeders market the surplus of their herds at a good margin of profit; that dairy farming has been dignified and put on a more intelligent plane; that there are now about ten times as many purebred Guernseys in Waukesha county as there were when the association was organized; and that within the past four years the average butterfat production of a cow a year has been raised 100 pounds.

Wouldn't it be fine if we could get results like that in every Kansas community! This should be the ideal toward which we can work. Intelligent co-operation, in community breeding and in other matters is needed in working out the paramount problem of the satisfactory rural life.

Give a good bed of clean straw. A pig will always keep its bedroom clean if given the chance.

**Father's Ultimatum**

The father of a large family was trying hard to read the evening paper. "What's that terrible racket in the hall, Martha?" he protested. "One of the children just fell down stairs."

"Well," he replied, turning over another page of the paper, "you tell the children if they can't fall down stairs quietly, they'll have to stop it."

Three year old Edward watched the cat catch a mouse. Then he said, "Mother, the cat ate the mouse all but the stem."

If the sows are constipated, give roots and ground flaxseed. A little wheat bran is also good.

**John Deere Implements**



**John Deere Corn Planters**

John Deere No. 999 gives the greatest accuracy in drop obtainable with any corn planter. Has the "Oblique-Selection" or natural drop, more accurate even than the edge drop planter. We made the most successful edge drop planter and therefore take pride in the fact that this is a more accurate planter.

**The Accurate "Oblique Selection" Drop**

Surface of hopper bottom and openings to seed cells are oblique, or sloping, so that the kernels naturally move toward and fill the cells rapidly. They do not have to be tipped on edge first.

**Full Variable Drop**

Can be changed instantly to plant two, three or four kernels in each hill by shifting foot lever. Distances in drilling varied and change from hilling to drilling made just as easily.

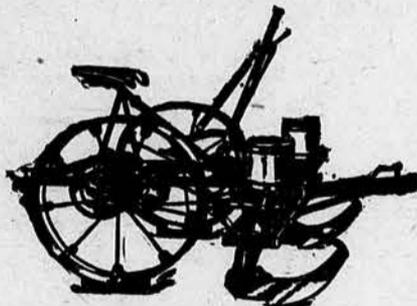
**Notice These Improvements**

All corn plates on the John Deere No. 999 Planter have 16 cells. Therefore, the same drilling distances are obtained with one of these plates as can be secured on planters that use 8, 12 and 16 cell plates, and without change of plates.

Easily detachable runner. Other furrow openers can be used in their place.

Simplified check heads with reversible pulleys—more durable than others.

Check wire released by touch of toe.  
Disc marker without rope—no shifting of lines under marker rope when marker is changed from one side to the other.  
Underhung reel—easy to put in and remove from frame.



John Deere No. 999 Corn Planter

**Attachments**

Fertilizer and pea attachments can be furnished for this planter. These are easily put in place and are efficient. They do not interfere with the regular corn planting mechanism.

Write us for free booklet "More and Better Corn." It tells how to select and test seed corn, how to prepare seed bed and your gain in dollars and cents by using an accurate corn planter.



**John Deere Wheel Plows With Quick Detachable Shares**

John Deere Wheel Plows, known the country over as "Quality Plows" are now fitted with John Deere Quick Detachable Shares—an exclusive John Deere feature.

These shares are popular with farmers—they make hard work easy.

**Superior Features**

**Unscrew One Nut—That's All**

Unscrew one nut and the share comes off—slip share on, tighten the one nut and you are ready for work.

The share can be removed in thirty seconds and replaced in sixty seconds. Takes from eight minutes to half hour to change old style bolted shares.



Here's what John Deere Quick Detachable Shares mean to you:

1. No trouble to change shares.
2. Eighty per cent of time saved.
3. No danger of damaging share.
4. Share is drawn up closer.
5. Share is stronger—not weakened by bolt holes.
6. Resharpened or sprung shares can be drawn into place—no drift punch necessary.
7. No unequal strain on share.
8. No danger of injury to hands in taking share off.

We have beautifully illustrated booklets on the following plows with John Deere Quick Detachable Shares:

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- John Deere Stag Sulky and Gang (Low Lift Frameless Plows)
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Write for the booklet above that you want and we will send it to you free.



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wagons; manure spreaders; portable and stationary grain elevators and corn shellers; hay loaders, stackers, sweep rakes, mowers and side-delivery rakes, motor hay presses; grain drills and seeders; full line of chilled plows; grain binders and corn binders; hit-and-miss and volume-governing gasoline engines. To get this book, free, state what special implements you are interested in and ask for the book as Package No. "X-12".



John Deere, Publicity Department, Moline, Illinois

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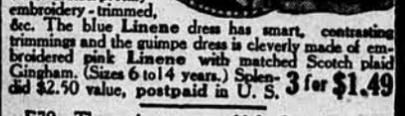
Send at once Coupon (below) for your FREE copies of the money-saving "Standard" Bargain Bulletins. It is still time to get the Mid-Winter Cut-Price Bulletin. Send Coupon today.—NOW. Bulletins are FREE.

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3R149—Nowhere else in America can you equal this bargain. And, it is typical of "Standard" value-giving. All three dresses are beautifully made of excellent, washable qualities. The white dress is prettily embroidered—trimmed, &c. The blue Linene dress has smart, contrasting trimmings and the guimpe dress is cleverly made of embroidered pink Linene with matched Scotch plaid Gingham. (Sizes 6 to 14 years.) Special. 3 for \$1.49 did \$2.50 value, postpaid in U. S.



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A Home You're Proud to Own

A Good Drive Once Made Will Last For Years

BY W. CLEMENT MOORE



HOW refreshing is the sight of a neat and attractive farm home when one is traveling through a region where nearly all the farm houses are dilapidated! We expect to find the farmer who lives in such a house prosperous, and usually he is. He has a good home and he and all the members of his family make special effort to keep it attractive. The house is roomy, convenient, and kept freshly painted; the shade trees are trimmed, the lawn is smooth and green, and the planting of flowers and shrubbery adds to the beauty of the place. The women folk and the boys and girls are happy, and the men enjoy every moment of their leisure. Why shouldn't success be there?

It's Business.

Beautifulizing the farm home and its surroundings is a business proposition and it is the duty of every farmer and of every boy and girl to keep the farm's surroundings as clean and attractive as possible. A few hundred dollars spent will add a thousand to the selling value of the place. These early spring months offer a fine opportunity for grading and re-arranging a lawn.

The farmer who wishes to improve the appearance of his place should study the subject carefully. The nearer he comes to being a person with good ideas of art and design, the more successful his work will be. It often happens that the young people on the farm have excellent ideas, which they should be allowed to work out.

Whatever your ideas of artistic landscape work may be, they are very likely to find expression in the arrangement you give to the grass plots, the winding of drives and pathways, and the distribution of the shrubbery.

Where Mother Nature has left her footprints in anything like presentable shape we must try to let them stay. In fact, it will not be well for the ultimate beauty of our lawn if we attempt to be conventional about its lines, curves, and general arrangement.

Let us begin with the drive which is to lead visitors to our door. If the front lawn is small, say an eighth to half an acre, the entrance should be at the corner of the lawn nearest to town, so persons coming from that direction need not drive past the house before entering the drive.

As To the Drives.

A drive in such a place should follow the side of the lawn for about three-quarters of the distance to the house, then take a curve toward the house across one corner of the lawn and lead, after another curve, straight by the side entrance of the house. If the doors are not arranged so this is convenient, the drive may lead by the front door, but this should be avoided wherever possible.

With a large lawn the drive may be much more extended. Entering the lawn in much the same manner, we can have the drive follow around the beauty spots—or places where we intend to produce beauty spots—in our lawn, always leading toward the house, but now going part way round an immense shade tree, or under the boughs of a sturdy oak, now passing a flower bed, now going through a bit of shrubbery or a breezy grove of trees, securing at every turn

a glimpse of the house or a refreshing outlook across the fields that stretch away in the distance. Such drives as these latter are costly, however, and should not be attempted by the man with small capital. For the ordinary house it is best to build the drive straight and build it well.

There are several good ways to build such a drive. If gravel is handy the simplest method would be to skin the ground down 5 or 6 inches making the drive about 16 feet wide, and filling in with good gravel and a very slight mixture of good clay to make it hold together and pack well. If good gravel cannot be secured fill the drive partly with clay; then when it mixes up, at the first rain, put a good mixture of coarse sand on it. This will make a good, hard drive, but it will not wear or look as well as the gravel. Crushed stone and cement may also be used with excellent results. A good water drain should be built all along the drive, as it will save both the wear of the road and repairs to the outline, at the same time improving the growing ability of the soil on the lawn. Four to 6-inch piping will answer the purpose. The more level the land the smaller the pipes that will be needed.

Top dressing for gravel or clay drives is necessary once every six or eight years.

What's the Aid Society Doing?

The Ladies' Aid society met the other day to discuss the situation. Things at the church were in rather bad condition. The roof leaked, because on account of the dry summer of 1913 no repairs had been made for a long time. The Sunday school was growing, and there really wasn't room for all the children. Conference was coming on, but a part of the minister's salary was still unpaid.

There was a fairly good crop last summer, but most of the farmers had to sell their crop early to pay off the debts of the year before. Those who still had wheat felt that in justice to themselves and their families they ought to hold it for a higher price. And to tell the truth, nobody exactly wanted to sell a valuable cow just because the benevolences weren't all paid.

This was the situation. It was plainly up to the women to do something. They held an all-day meeting to talk it over, with a basket dinner at noon. But in the end they were no nearer a decision than at the beginning. They didn't know what to do.

Have any readers of the Farmers Mail and Breeze any plans to offer that they have found successful? The aid societies in many churches are wishing for them. For each of the three best letters describing a really successful plan \$1 in cash will be paid, which the writers may hand to their own personal aid societies or not as they please. For each of the next three a set of silver narcissus teaspoons will be given. Send letters before March 8, addressed to the Aid Society, Farmers Mail and Breeze, Topeka, Kan.

Heavy birds and high roosts are a bad combination. Large breeds especially need low roosts.

Something to sell the year around is the secret of success with poultry.

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**HOME DRESSMAKING**

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

Ladies' corset cover 7082 is cut in one piece, and may be made with or without the sleeves. Six sizes, 34 to 44 inches bust measure.

Skirt 7082 may be made in regulation



or tunic length. Six sizes, 22 to 32 inches waist measure.

Dress 7081 has a four-gore skirt, and may have long or short sleeves. Six sizes, 34 to 44 inches bust measure.

Boys' Russian suit 7074 has a removable shield, and straight or bloomer trousers. Sizes 2, 4, 6 years.

Girls' dress 7055 closes at the left side of front and has a tunic skirt. Sizes 6, 8, 10, 12, 14 years.

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The Farmers Mail and Breeze, Pattern Department, Topeka, Kan.  
Dear Sir—Enclosed find ..... cents, for which send me the following patterns:  
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**BE SURE TO GIVE NUMBER AND SIZE.**

**Why Not Give Baby a Chance**

A reader comments on a short article entitled, "Starting the Baby Right," which appeared in the Farmers Mail and Breeze a few weeks ago. She says: "I know that children less than 1 year old require the same food as grown-ups. I never have refused my babies anything to eat that they liked. Even before they were 4 months old I have given them green onions to suck, taken a chicken bone and dipped it in gravy for them, also fed them mashed potatoes."

All the best physicians and all the best nurses say babies are injured by eating such things as this woman names;

why not give them the benefit of the doubt? Everyone knows it is the digestive juices—the saliva in the mouth, the gastric juice in the stomach, and other juices that perhaps we cannot name—which make it possible for us to digest our food. Men who have spent their lives learning things about the human body say that in a baby's stomach there are not the digestive juices that make it possible to digest heavy foods. Children want everything they see. They want the fire, and the moon, and the scissors; but we do not for that reason give these things to them. Even the small bits of potato, bread or cake crumbs, gravy or other food given a small baby cannot be assimilated. They only lie idle in his stomach, causing pain and disease. The result is impaired powers of digestion which, if they do not immediately make themselves felt, come to light in later life and give the world one more chronic dyspeptic and grouch.

Doctors say that milk, and milk only, is the proper food for a small baby. By the time he is 7 months old he can have a cracker, and a bit of prune juice. By the time he is a year old he can be eating soft-boiled eggs and a very few other simple, easily digested foods. Dr. S. J. Crumbine, secretary of the state board of health, says that 50 per cent of the babies that die in Kansas under 1 year old die needlessly, most of them because of improper feeding. Why not give the

babies the benefit of the doubt? It costs no more, and is just as easy. And the baby's life and future health is the stake.

**Pickled Pigs' Feet a New Way**

[Prize Recipe.]

Many like pickled pigs' feet, but find the bones a great nuisance when pickled whole. A much better way is to clean as usual, adding one or two shanks to four feet. The ears may be added, too, if desired. Boil till the meat will fall from bones; remove bones and part of the fat. Mince the meat, not too fine, and to the liquor add vinegar, salt and pepper to taste. Add meat, reheat, and pour into a jar. When cool it can be sliced, and will look much more attractive.

Trumbull, Neb.  
Mrs. C.

**What Marriage Means to a Man**

While all persons wish to be loved for themselves alone, says Maude Radford Warren in the Woman's World, there are many who seem to have their power of loving under admirable control. They determine to choose life partners who have plenty of money. Such people may know a great deal of happiness, though it is not the high kind of happiness such as comes to those who are incapable of the remotest sort of worldly calculation.

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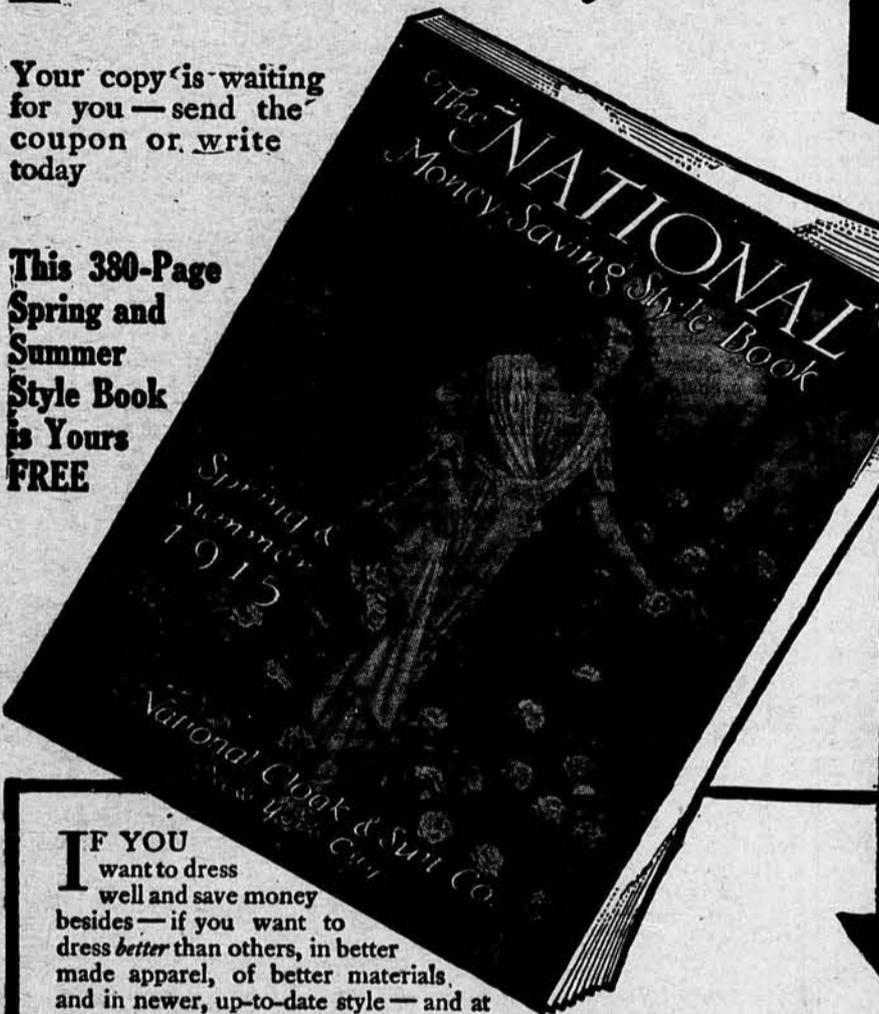
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It is better happiness, at least, than comes to men and women who marry for money solely and who only too often pay a heavy price for their worldly comforts. Yet, in the most disinterested marriage, something more than love has to be considered. A young man, starting to make his way in the world, may not ask for wealth with the girl he loves, but he has a right to expect good health, good habits, and a sound knowledge of house-keeping in all its phases. He is marrying not only the woman he loves but a business partner, from whom he should expect competency. The girl is being loved for herself alone, but expertness should be a part of this self. A young woman, in making her marriage, may not ask for money, but she should expect her husband to have good health and habits, certain work, and some savings. He, too, is being loved for himself alone, but he should have too much self respect to offer a girl any less than a competent self. To ask this much of a life-partner is not sacrificing love to worldliness. It is merely showing a due consideration to the next generation.

Foul air and dampness are twins. A hen can stand lots of cold and do well, but dampness in the house will knock out the profits every time.

Holding fast to that which is good should never hinder us from reaching after that which is better.



Barns and Herd of Mr. Jas. C. Graham, Palouse, Wash.

FIVE years ago this was an exhausted wheat farm. Mr. Graham bought his first cows with borrowed money. Three years later his milk sales amounted to \$8,940.

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Santa Fe Land Improvement Co. 1828 Santa Fe Bldg., Topeka, Kan.

Beginning With Sheep

I bought nine bred ewes about two months ago. The man who sold them had been fattening them on cottonseed. They had the run of a pasture. I brought them home, put them in a 10 acre pasture, and began feeding them kafir silage of fairly good quality, and one-third of a bushel of cottonseed a day. The cottonseed was not fed regularly. We did not feed any at all, some days, when the weather was good. They began to lose their wool about five weeks after we got them. I thought it might be scab though the skin was smooth and clear. We dipped them January 1 and squeezed the wool as dry as possible. They were kept in the barn that night. None of them seemed to be injured by the dipping. I noticed that one ewe was not well January 8. We caught her and drenched her with raw linseed oil. She held her mouth shut tight, would not eat or move around, and seemed stiff. She began to eat a little cottonseed and graze a little fodder in a field in a day or two. She refused to eat the cottonseed again in about a week and finally died. We have quit feeding silage and cottonseed to the other ewes and their wool seems to have stopped coming out. This is my first experience with sheep. Can you tell me what caused the trouble? Cotton County, Oklahoma. G. E. T.

Many sheep growers who read this letter probably will smile when they recall their own experiences with the first few ewes they bought. This example shows well why beginners are advised to start with a small flock. Mistakes made with a few ewes are less costly than they would be if they were made with a flock of 100.

The trouble seems to be indigestion caused by feeding too much cottonseed and by irregular feeding. Feeding silage as the only roughage is another mistake. Some dry roughage always should be fed with silage. The amount of silage fed breeding ewes should not exceed 2 pounds to 1 pound of dry roughage in any case. If the ewes are wintered on good roughage they will need very little grain until about a month before the lambs are born. Wheat or rye pasture should be used if it is available. It pays generally to provide such a pasture for winter use. Profit in sheep comes from the utilizing of cheap feeds. The breeding flock will glean a living from the weeds and grasses in the stubble fields and corn fields during the fall and early winter if a chance is given them. Rye or wheat pasture supplies a cheap, succulent feed during the winter.

The breeding ewe will not need more than 1/2 pound of grain a day before she lambs. This amount should be increased after the lambs are born if the flock is not on good pasture. Cottonseed or cottonseed meal always should be fed in limited amounts.

The loss of wool probably was due to a feverish condition of the sheep. Over-feeding and colds often produce such a condition. Any sickness usually causes the wool to break at the point next to the skin. This breaking is due to a lack of nourishment.

Turner Wright.

It May Be Cancer

We have a purebred Arabian pony which has a sore in her eye. A growth which resembles a wart came in her eye about two years ago. A veterinarian cut this growth out and burned the wound with caustic. The sore appeared again about three months ago and keeps getting larger. The lids are inflamed and pus forms and runs from the eye. Will you tell us how to cure this sore? Ness County, Kansas. L. F. B.

I will suggest that you have a small piece of the tumor cut from the pony's eyelid and sent to the pathology department of the Kansas State Agricultural college for a microscopic examination. I believe such an examination will show that a cancer is the cause of the trouble. If this is the case the chances for recovery are very unfavorable. The only thing that can be done is to cut the growth out completely, and cover the eye with a hood to which a piece of cotton has been stitched. Keep the cotton moistened with a 2 per cent solution of boric acid. The cotton should be changed every day, and the hood should be kept on until the healing is completed. Dr. R. R. Dykstra. Kansas State Agricultural College.

Swine Breeders Will Meet

The Oklahoma Swine Breeders' association will meet at Oklahoma City the evening of February 22. This is just before the opening of the Oklahoma Breeders' show and sale which starts February 23. Swine breeders from Oklahoma, Kansas, Texas, and other states are expected to attend this meeting. A good program has been arranged. The men who have been asked to take part in this program are J. W. S. Hutchings, vice-president of the Oklahoma National Stockyards Co.; W. A. Williams, pres-

ident of the Oklahoma Swine Breeders' association; W. L. Carlyle, director of the Oklahoma Experiment station; Dr. T. P. White of the Bureau of Animal Industry, Washington, D. C.; W. M. McFadden, secretary of the American Poland China Record association; Prof. W. L. Fowler of the Oklahoma Agricultural college; J. R. Pfander, secretary of the National Duroc-Jersey Record association; H. M. Bainer, agricultural demonstrator of the Santa Fe Railway system; Robert Dutcher, Newkirk, Okla.; I. S. Mahan, secretary of the Oklahoma State Fair association, and J. C. McLean, Anna, Tex., who will judge the hogs in the Oklahoma Breeders' sale and show.

What Is Meant By A. R. O.

What do the letters A. R. O. stand for in connection with Holstein-Friesian cattle? What is meant by the term "proven sons?" Sumner County, Kansas. R. G.

The letters A. R. O. are an abbreviation of the words "advanced registry official." An A. R. O. cow of the Holstein-Friesian breed is one which has been entered in the Holstein-Friesian advanced register on an official test. If a cow calve on the day she is 2 years old, or previously to that day, she must produce 7.2 pounds of butterfat in seven consecutive days to meet the requirements for entry in the advanced register. The requirement is increased by .00439 of a pound of fat for every day she may exceed two years at the time of calving, up to the day she is 5 years old. This makes the increased requirement 1.6 of a pound of fat a year. The requirement for a cow calving the day

The record Kansas has made in proving that prohibition does prohibit; the blessings which have followed its enactment as a part of our fundamental law, makes it incumbent upon us as a duty to the nation as well as a policy of self-protection, to take the lead in an active propaganda for National Prohibition. We must make the happy conditions we have achieved known to the world. To this extent we are emphatically "our brother's keeper." We cannot evade the responsibility. It is our duty to say to the people of the United States: "The public health, the public peace, the public morals, and the public welfare demand the complete eradication of the saloon and the absolute prohibition of its wretched and destructive traffic."—From Governor Capper's Inaugural Address.

she is 3 years old is 8.8 pounds of fat; the day she is 4 years old, 10.4 pounds of fat; and the day she is 5 years old, 12 pounds of fat in seven consecutive days. There is no increase in the requirement after a cow is 5 years old.

A "proven son" is a bull which has proved his ability to sire high producing cows. He has proved his ability to transmit high producing qualities inherited from his ancestors. A bull to be eligible to entry in the Holstein-Friesian advanced register must have no fewer than four A. R. O. daughters.

Turner Wright.

Hogs May Have Cholera

Can you tell me what affects my hogs? They quit eating and do not want to move. It seems to hurt them to get up or lie down. Their ears get sore and part of the ears comes off. The first one got sick about seven weeks ago but is still living. Several have died since this one has been sick. These hogs have been fed on corn and a slop made of wheat shorts. Marion County, Kansas. C. C. W.

I believe your hogs are affected with the skin form of cholera. I suggest that you have them vaccinated with serum alone. You also should take the healthy hogs away from the diseased ones. Take their temperatures in order to determine which are sick and which are well. A temperature above 104 degrees Fahrenheit is a sign of disease even if all other symptoms are absent. Clean the pens, houses, and yards and disinfect them thoroughly. You should have a competent, graduate veterinarian take charge of this work for you. Dr. R. R. Dykstra. Kansas State Agricultural College.

Ever see hogs eat hay? Pitch a forkful of alfalfa over on the feeding floor, and watch the result.

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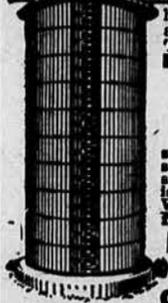
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# Growing Better Holsteins

The Shulthis-Robinson-Shultz Herd Has High Producing Cows

BY F. B. NICHOLS, Field Editor

THE Shulthis-Robinson-Shultz Holstein herd at Independence is one of the rapidly developing herds of this breed in Kansas. It now consists of 38 animals, and the number will be increased until the herd has 80 breeding cows. Almost all the animals in the herd are purebreds, and some have high records. One cow has an official record of 82 pounds of milk a day. Several more have made or can make official records almost as good.

In building up the Holstein herd on this farm, the aim has been to develop it on the basis of quality. Quite a bit of care has been used, therefore, in buying the foundation stock. Much of it was obtained in Wisconsin, in the Holstein centers. The famous bull at the head of the herd, Sir Julianna Grace's De Kol, was purchased in that state from John Hetts of Ft. Atkinson.

This animal, which now is about 2 years old, is one of the best Holstein bulls brought to Kansas. He will have an important part in the building up of the Holstein breed in this state especially in the rapidly developing Holstein community of southeastern Kansas, of which Montgomery county is the center. This bull has a fine line of high producing cows behind him, which gives a promising indication of what his calves will be able to do.

His sire is a good young bull, Mutual Piebe of Rock 85129, by a brother to the sire of Lady Oak Fobes De Kol, with a record of 36.44 pounds of butter in a week; Jessie Fobes Bessie Homestead, 34.96 pounds and several more almost as high. The sire of Mutual Piebe of Rock is Mutual Piebe De Kol 44554, the sire of ten A. R. O. daughters. His sire was Mooie Mutual De Kol, the sire of 34 A. R. O. daughters. The dam of Mutual Piebe of Rock is Queen Julianna Dirkje 97808 with a year's record for butter production of 1022 pounds.

The dam of Sir Julianna Grace's De Kol was Grace of Portage De Kol 79997, with a week's record of 24.17 pounds of butter and her dam has exactly the same record.

The milk from this herd is being sold at wholesale in Independence. Exact records are kept of the production of every cow. In looking over these sheets Mr. Shultz said, "One can take this sheet and pick out the few grades in this herd by their production, without once looking at the top to find the names. The purebreds have been making an especially good record recently."

Much of this good record has been due to good feed and care, of course. The ration of the cows is based on alfalfa and silage; they have been getting about 40 pounds of silage a day and all of the alfalfa hay they care to eat. Some prairie hay and roughage also have been fed. The concentrated feed consists mostly of bran and ground kafir, and the amount that each cow gets varies with her production.

Even more care is taken with the feed of the calves than with the cows. As the purpose on this farm is to produce Holsteins to sell as breeders, it is essential that the calves should make

a good growth; it is important that they should do well every day. To aid in this, special care is taken to see that the milk is clean. Attention also is given to the vessels in which the calves are fed. Unless these are washed and scalded thoroughly, harmful bacterial changes will take place in the food, and digestive disturbances will retard the calf's growth. Besides the milk, the calves get some silage, alfalfa and prairie hay. The concentrated feed consists of oats and shorts, with a little oil meal.

The cows are kept in a very good barn, but it is planned to build another dairy barn for them before long, so the present cow barn can be used for the calves. This will make a remodeling of the stanchions necessary, of course, and they were put in with this in mind. This barn has an abundance of windows, so a great deal of light may enter to aid in the warfare on the bacteria. The barn has a cement floor and gutters, and a special effort is made to keep it clean, as this is a hobby with the owners. After the floor is swept it is washed every day, with water under pressure. Absolute cleanliness is insisted on.

The silo on this farm is of clay tile with concrete door jambs. It is 14 by 44 feet, with a silage capacity of 160 tons. It cost \$550, which is somewhat higher than a silo of that capacity usually costs. It was necessary to hire all the labor used in its construction, and the rate for some of this was high.

Hogs is an important line on this farm along with the cattle. Purebred sows of both the Hampshire and the Duroc-Jersey breeds are kept. At present there are about 275 hogs on the place, but this is somewhat more than usual. There was a cholera scare around Independence in the fall and a good many farmers wished to sell their stock hogs at almost any price. Many light hogs were purchased at rather low prices. The serum treatment was given and the percentage of loss was small.

The sows in this herd are bred twice a year, and they run on the alfalfa pasture in the summer. Much of the growth is made on the pasture.

The fine Holstein herd is the most interesting thing on this place. It has been established on the basis of quality and with a regard for the future demands in the Holstein business of Kansas. The quality shown by the blood lines in this herd indicates that it will do much to develop the dairy industry of Kansas.

## Too Late

Six year old Hazel had been naughty and was to be punished. Her mother, who had gone for a switch, returned just in time to find the little girl kneeling by the bedside praying, "O Lord, make me a good girl and don't let mamma whip me. Amen." Looking up just then, little Hazel saw her mother with the switch and said, "O Lord, you're too late. There's mamma now!"



Sir Julianna Grace's De Kol, the Sire at the Head of the Shulthis-Robinson-Shultz Holstein Herd at Independence.

## Healthy Cows Are Profitable

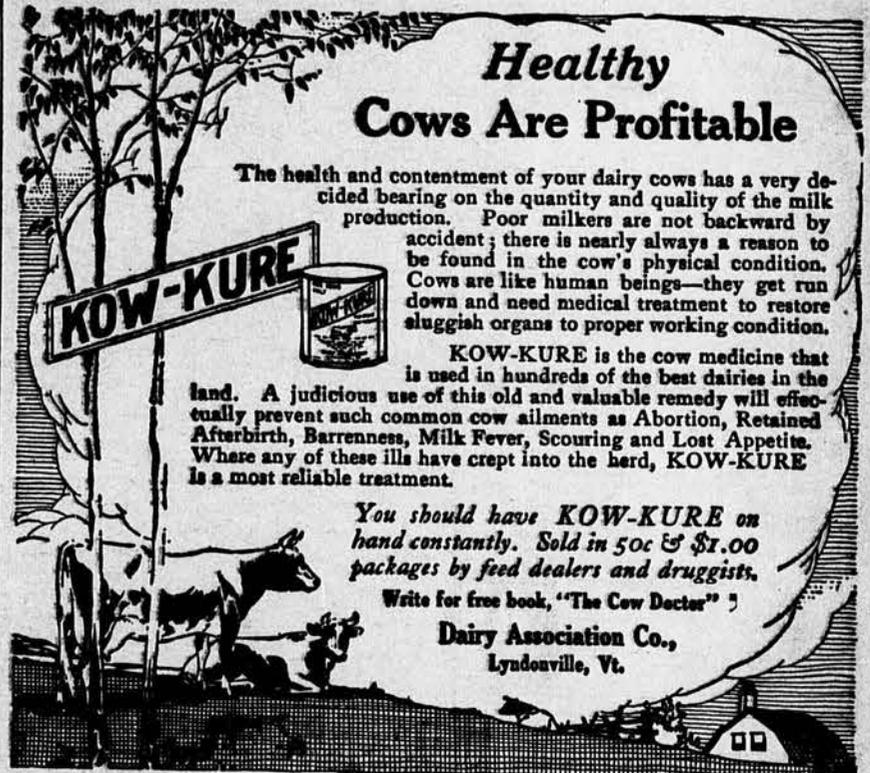
The health and contentment of your dairy cows has a very decided bearing on the quantity and quality of the milk production. Poor milkers are not backward by accident; there is nearly always a reason to be found in the cow's physical condition. Cows are like human beings—they get run down and need medical treatment to restore sluggish organs to proper working condition.

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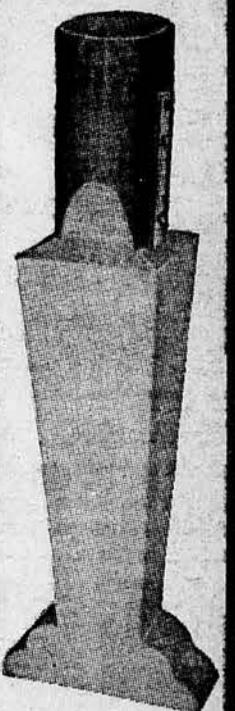
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## Overfeeding Is Dangerous

### Do Not Give Little Chickens All They Will Eat Except Just Before They Go to Bed

CHICKENS can be grown faster by feeding five times daily than by feeding three times daily. At no time should they be fed more than barely to satisfy their appetites and to keep them exercising, except at the evening or last meal, when they should be given all they will eat. Greater care must be exercised not to overfeed young chicks that are confined than those that have free range, as leg weakness may result in those confined. Overfeeding is more dangerous to young chickens than underfeeding, say the United States Department of Agriculture specialists.

men put the beef scrap before the young chickens at the start without bad results. Chickens confined to small yards always should be supplied with green feed, such as lettuce, sprouted oats, alfalfa, or clover. The best place to raise chickens successfully is on a good range where no extra green feed is required. Fine charcoal, grit, and oyster shell should be kept before the chickens at all times, and cracked or ground bone may be fed if the chickens are kept in small, bare yards. The latter feed is not necessary for chickens that have a good range.

The young chicks may be fed any time after they are 36 to 48 hours old, whether they are with a hen or in a brooder. The first feed may contain either hard-boiled eggs; stale bread, pinhead oatmeal, or rolled oats. Mash mixed with milk are of considerable value in giving the chickens a good start in life, but the mixtures should be fed in a crumbly mass and not in a sloppy condition. After the chickens are 2 months old they may be fed four times daily, and after 3 months old three times daily, with good results.

### It Pays To Use An Incubator

Plow one-half the ground to be used, and fence and cross fence it with chicken wire. Get a 100-egg incubator and set it in a cave, if possible, to insure evenness of temperature. Set it so it will hatch in April. Sow one-half the plowed ground to oats for the young chicks. Leave the remainder of the plowed ground for the second hatch.

Buy or make a brooder and place it in the unplowed lot. Remove the chicks to this when they are thoroughly dry. Clean and air the incubator and reset it. Get light dry goods boxes and make a tight coop with one or two partitions. Just before the second hatch, take the brooder away and set a coop in its place. When the chicks accept it, open the gate and draw the coop through into the green lot and they will follow it. Then replace the brooder for a second hatch. Hatch as fast as possible before the weather is too hot.

### Johnny Cake For Chicks.

Johnny cake composed of the following ingredients in the proportions named is a very good feed for young chicks: One dozen infertile eggs or 1 pound of sifted beef scrap to 10 pounds of cornmeal; enough milk to make a pasty mash, and 1 tablespoon of baking soda. Dry bread crumbs may be mixed with hard-boiled eggs, making about 1/4 of the mixture eggs, or rolled oats may be used in place of the bread crumbs. Feed the bread crumbs, rolled oats, or johnny cake mixtures five times daily for the first week. Then gradually substitute for one or two feeds of the mixture, equal parts by weight of cracked wheat, finely cracked corn, and pinhead oatmeal or hulled oats. About 5 per cent of cracked peas or broken rice and 2 per cent of charcoal, may be added. A commercial chick feed may be substituted if desired. This ration can be fed until the chicks are 2 weeks old, when they should be placed on grain and a dry or wet mash mixture.

The young cockerels sold for broilers will pay a great deal of the expense, and the young hens should begin to lay when 6 months old. Build as good a house as you can afford and begin drawing coops towards it, a little at a time, until they are near the door. Then some warm night take them away, and the chickens soon will be housed for the winter. The second year set several hens at the time you start the incubator. Give the hens about 35 chicks apiece.

Nearly all the expense comes the first year. A few chickens should be raised each year and they should be kept only two years. Feed them well with a variety of grain and grit and they will pay you with big interest.

Mrs. F. P. Crandall.

Grimes, Okla.

### Have the Roosts Level

If I were to raise poultry on an acre I should first build a cheap house, warm and roomy enough for comfort. Build the north wall 5 feet high for the back of the house and the south wall 7 1/2 feet high for the front. Have a door in the front with a window on each side of it. Have the windows so that they can be fastened open so air can get in when the weather is warm. If more convenient, use canvas curtains instead of windows.

Put the roost poles near the north wall and have each the same distance from the ground. If one is higher than the other the hens will try to get on the highest one and crowd each other. Build a scratching shed on the east side of the house the same width as the house. Use no floor.

Keep fresh water before the flock all the time, and wash out the water vessel daily. Feed corn chop, ground oats, wheat, shorts or mill run and potato peelings and cold scraps of any kind. Put all these in a vessel and stir with warm water for the morning meal. Feed this in troughs on the floor. Throw kafir, maize or any kind of grain in the scratching litter at noon, and at night feed whole corn. Give the hens plenty of grit and crushed oyster shells. Keep these before them all the time. For green food get stale cabbage and hang it up in the lot just high enough so the hens will have to reach to get it and one head will last several days. Chop meat up once a week in small pieces. Rabbit chopped fine makes a very good feed.

For nests put boxes on the west side of the hen house.

Mrs. Lon Wilson.

Pauls Valley, Okla.

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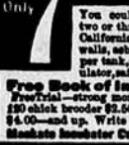
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We will send one of these big telescopes free and prepaid to all who send \$1.00 to pay for one year's new or renewal subscription to Mail and Breeze and 25 cents extra for postage (\$1.25 in all). The Telescope is guaranteed to please you in every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

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Elighth and Jackson, TOPEKA, KANSAS.





## Tells why chicks die

E. J. Reefer, the poultry expert of 535 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This book contains scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. All poultry raisers should certainly write Mr. Reefer for one of these valuable FREE books.

**A Pen For Laying Turkeys**

I think it is best to give turkeys free range during the laying season but if I am too busy and cannot follow them to their nests they are confined in a special lot made for that purpose. This lot covers about one-half acre of ground and is surrounded by a 10-foot fence made of woven wire. Six foot wire is used on the bottom and 4-foot wire placed above it; the posts stand 11 feet above the ground. In this lot I have coops made the same as for a chicken hen and her brood. These coops are placed in the shade of apple trees and hay or straw put in them with a hen egg for a nest egg. At 4 o'clock every afternoon I bring in the turkey eggs and turn out the turkeys. There are roosts in the lot and just before roosting time the turkeys are driven back in. Water and food are placed in the lot every morning.

The turkey eggs are set under chicken hens and we plan to have about 30 poults hatch at one time. About a week before the turkey eggs are due to hatch I let a broody turkey hen sit in her coop in the turkey lot. When the turkey hen has been sitting for a few days I give her three or four turkey eggs that have been under the chicken hen, first dusting her thoroughly with some good insect powder and putting fresh, clean straw in the nest. The turkey hen will hatch these eggs and then can be given about 30 little turkeys. I next place the turkey hen and her brood in a pen made of four wide boards 10 feet long. This pen is under a tree and on well drained ground.

**They Eat Bread and Milk.**

I first feed the little turkeys onion tops chopped fine, cottage cheese and bread. If I do not have the onions I take light bread and cutting a loaf in halves pour boiling sweet milk over the loaves to soften the bread. This bread is placed on plates and the little turkeys will eat from the loaf when only a few days old. They seem to enjoy pecking at it.

When turkeys are not cooped at night they will never roost twice in the same place. Every night they hunt a clean, fragrant place in the meadow and the little turkeys sleep warm and snug under the mother's wings. Bugs are natural food for wild turkeys and great care should be taken not to overfeed the tame bird, especially after they are 10 days old. The little turkeys are regular gourmands and if allowed to eat too much, bowel trouble will develop. For this trouble, whether the birds are old or young, I give Epsom salts in the feed or water. A teaspoonful of salts is placed in a gallon of water and they are left to drink it or it is thickened with ground feed.

We market our turkeys at Thanksgiving as snow and freezing weather will cause them to shrink in weight. We do not feed all the grain the turkeys will eat until two weeks before marketing as it is best to keep them healthy and vigorous, hustling for bugs and getting a variety of feed.

Mrs. Artie McDonald.

**Start With a Few Hens**

I have been a breeder of purebred poultry for the last 25 years. Anyone who desires to keep 100 hens on a small plot should construct a house not less than 32 feet in length. This can be done at a small cost making it of siding and covering the entire structure with building paper. Have the building face the south and divide it into three parts, a roosting quarter on each end and a 12-foot scratching shed between. This shed should be boarded up from 2 1/2 to 3 feet to prevent the cold air from striking the flock when they are at work. Have an open space of 3 feet covered with wire netting, also a curtain to be dropped at night and in severe weather.

Place 50 hens in each end of the house. Have level roosts suspended by wire about 3 feet from the floor. Such roosts can be raised and lowered easily for cleaning. The dropping boards are placed beneath the roosts. I also find that the flock does better if divided into colonies than if they are all in one house.

Movable nests may be placed under the dropping boards or along the ends of the house. Fence the plot into two or more lots which if properly managed, will furnish green food at all times. The last sowing should be rye. Sown

late in September, it will be green all winter if not covered with snow.

Purchase a dozen or more purebred hens. If you desire them for egg production the Leghorn is good but if for broilers or fries, one of the larger breeds such as the Rhode Island Reds or Plymouth Rocks are better. Set eggs from this flock the first year, and also buy some poultry of some reliable breeder. This is much cheaper than buying 100 hens to start with. You will find that with proper care you will have a fine flock in the fall, at a small cost.

More profit may be derived from 100 hens by keeping two or more incubators and selling day-old chicks, than by selling eggs or broilers.

An excellent feed for egg production in winter for 100 hens is 1 gallon of wheat scattered in the scratching shed in the morning, with skim milk or water slightly warmed for them to drink. At noon a bran mash mixed with table scraps is good, and at night whole corn. The corn should be warmed on very cold days. Give them green food, grit, charcoal and oyster shell at all times. In summer much less food is required.

A Subscriber's Wife.

**Feed Young Ducks Often**

I have spent years in breeding and showing Pekin ducks. In raising ducks for any purpose everything must be kept clean about their quarters. Young ducklings should not be fed for at least 12 hours after they are hatched. After that period I feed for a day or two from a small pan and thereafter the ducklings eat from little troughs made especially for that purpose. Water is kept before them at all times.

Another very important point to observe is not to allow food to accumulate and sour. Keep the feed and troughs absolutely sweet. After three days I allow the ducklings to run out on open range for I find they grow and develop much faster. With plenty of water to drink and shade to lounge in they are contented to stay close. Open range is best but thousands are raised every year in small enclosures.

I am under the impression that the principal reason why many duck raisers do not succeed as they should is because they allow the quarters to become dirty and damp. Ducklings cannot thrive in damp, dirty quarters.

This ration matures ducks quickly: Equal parts cornmeal and wheat bran, with 5 per cent fine sand or grit and 5 per cent beef scraps. This ration is exceptionally good for laying ducks but when preparing them for market feed 2/3 cornmeal to 1/3 wheat bran. Never feed unless you have a supply of water near the feeding troughs. Ducks will take a drink with almost every mouthful of food.

Ducks are easily raised and if you follow these rules you will mature 90 out of every 100.

Young ducks need plenty of water to drink. The water should be deep enough so the duck can get his whole bill under and rinse the nostrils. If this is not done the nostrils become clogged, the eyes affected, and the ducks sicken.

Eight weeks old is the time for the ducks to bathe or swim. They should not swim until they are full-feathered.

Keep ducks out of the hot sun and feed them five times a day when small. If fed often they will not go 5 feet from their feeding troughs but will lay and stretch, and grow.

L. B. Anderson.

**She Raises Only Rocks**

Below my article in the Farmers Mail and Breeze of January 23, there is a picture of a pen of Buff Wyandottes. The line under this picture quotes me as saying, "Mrs. Opfer believes in the value of large breeds." This statement is true, but I am afraid that your readers will have the impression that I raise Buff Wyandottes, which is not true. We have nothing but the Weigher-Layer Barred Plymouth Rocks, and the Farmers Mail and Breeze is our best salesman.

Mrs. W. C. Opfer.

Clay Center, Kan.

Close, warm quarters are not at all conducive to a good winter egg yield. Fresh-air quarters promote health and vitality.

Five cows properly cared for and fully fed will return much more than ten half fed.

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**148 Chicks From 150 Eggs**

I surely praise the Sure Hatch incubators. I have a 150 egg size. I put in 150 eggs and broke two the first week which left only 150 at hatching time. I got 148 chicks and never tested the eggs. We surely have had fine luck with our machine the past two years. Would not sell it and be without it for any money. My neighbors have other incubators and I beat them all. NELLIE GARDNER



Frank Hammond, President

**Women and children find it easy to succeed with the Sure Hatch incubator**

We can give you the names of tens of thousands who make a handsome, steady income with very little effort, and would not bother with hens or with any other incubator. The



MONEY BACK GUARANTEE

**Sure Hatch Is Automatic in Operation**

Our Uncle Sam Poultry Book will help you to succeed. It tells all about how to handle the business the best way. It is a compilation of official reports by U. S. Government experts. Tells what to do and what not to do. Many illustrations. Free with every Sure Hatch.

Any one can succeed with it, even if they have never seen an incubator before. It is a plain, simple, strong machine, so built that it can't go wrong. Will hatch in cold weather when others fail. We send with each machine complete instructions for operating that are very easily followed.

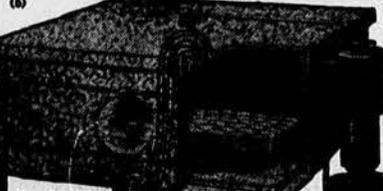
We guarantee it 10 years and send it to you freight paid, on 60 days trial. Satisfy yourself by actual test that it is a quality machine in every respect. Your money back promptly if it is not all we claim for it.

Poultry turns kitchen waste and other farm waste into ready money and you can depend upon the Sure Hatch to bring you the chicks at the time of year you want to hatch them to get the best price for them.

Write for our Free Illustrated Catalog, giving full information on Sure Hatch Incubators and Brooders, with much valuable information about poultry. SURE HATCH INCUBATOR CO., Box 14, Fremont, Neb.

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

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**"Give Me Liberty or —"**

The injustice of taxing a man on what he owes is admitted by nearly all who have written on this subject, but they see no way to avoid it. They think that if debts were assessed to the creditors they would have to pay on the property and also on the mortgage, contract, note or other written evidence of the debt, or of his equity in the property described. If a man could show that he was paying tax on the property itself, wherever it might be, I do not think that any court would hold that he should also pay on the written instrument. It would be just as consistent to tax the farm and also the deed that conveys it. Deeds, mortgages or notes are not property in any sense. They are merely written evidence or equity in property.

I believe in taxing property both to debtor and creditor as the interest of each may appear, and if the creditor does not pay let the debtor pay for him as provided in the bill now before the legislature. This would not injure the creditor in the least. This Scripture, "For unto every one that hath shall be given and he shall have abundance, but from him that hath not shall be taken away even that which he hath," applies to our present system. We advise a man to buy a home as soon as he can make a payment on it and then tax him on what he owns and on what he owes. We make the grade as steep as possible just to see him pull.

Section 31 of the tax commission law should be amended at the present session. This is the most bare-faced fraud ever worked off on a stupid, indifferent public by any legislative body. I was told by a lawyer, that it establishes the same confidential relationship between the banker and his depositor as exists between the lawyer and his client. The criminal confesses to the lawyer and the lawyer must not tell. The tax dodger confesses to his banker and the banker must not tell even the assessor or let the assessor see the books of the bank.

A few persons seem to think idle money should not be taxed and should be kept where it will be safe from the assessor. I have six horses that have been idle for the last three months and they have been eating what they earned during the remainder of the year and are mortgaged for one-third their value. I wonder if there is any reason why these horses should not be taxed at full value? A bank should be the instrument that will help the assessor to determine a man's wealth.

Another law we have makes the bank commissioner the autocrat who shall decide whether we are to have any more banks. Let us have another autocrat to say how many stores and shops we shall have; and then we should have a farm autocrat to decide just how many acres of wheat and corn a farmer should plant. Such laws are arbitrary and tyrannical, and should not be tolerated by a free people.

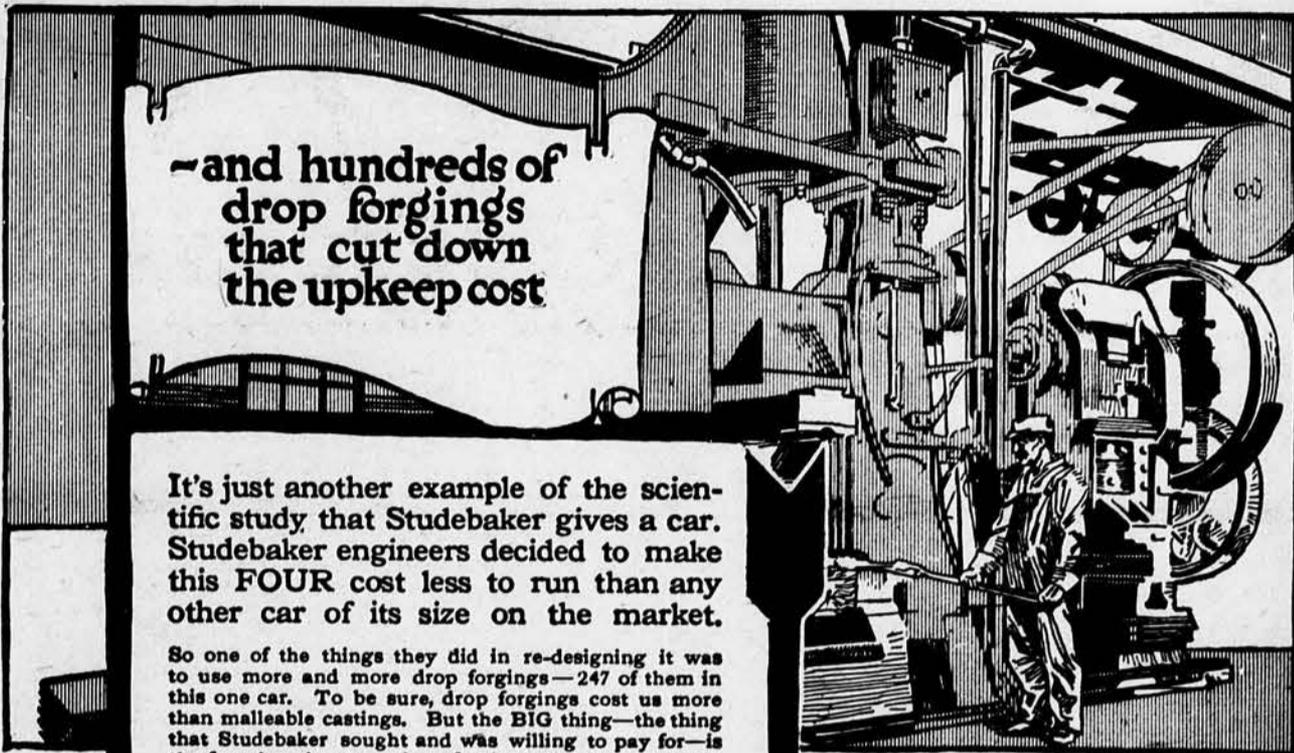
Beverly, Kan. B. L. Edwards.

**Birds Are Useful to Farmers**

How birds which destroy harmful insects and weed seeds may be useful to the farmer is described in a new farmers' bulletin (No. 630) of the United States Department of Agriculture entitled, "Some Common Birds Useful to the Farmer." The new publication has 27 pages and 23 illustrations of the birds described. It contains much of the information included in one of the department's former publications entitled "Fifty Common Birds of Farm and Orchard." The new bulletin will be mailed free to all applicants by the department.

Whether a bird is beneficial or injurious depends almost entirely on what it eats, says the introduction to the new bulletin. In the case of species which are very abundant, or which feed to some extent on the crops of the farmer, the question of their average diet becomes one of supreme importance, and only by stomach examination can it be satisfactorily solved. Field observations are at best but fragmentary and inconclusive and lead to no final results. Birds are often accused of eating this or that product of cultivation, when an examination of the stomachs shows the accusation to be unfounded.

A farmer and dairyman should keep only as many cows as he can house and feed properly.



**—and hundreds of drop forgings that cut down the upkeep cost**

**It's just another example of the scientific study that Studebaker gives a car. Studebaker engineers decided to make this FOUR cost less to run than any other car of its size on the market.**

So one of the things they did in re-designing it was to use more and more drop forgings—247 of them in this one car. To be sure, drop forgings cost us more than malleable castings. But the BIG thing—the thing that Studebaker sought and was willing to pay for—is the fact that the extra drop forgings give the car extra safety and longer life and rigidity that makes it EASIER riding—and at the same time, cut down its weight and its upkeep cost.

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But you'll appreciate even more what that name of Studebaker stands for on a car when you see this FOUR at your local Studebaker dealer's—and see how convenience and SERVICE-giving quality have been built into every detail.

It's the ideal car for use on the country roads that Studebaker knows so well—EASY-riding and EASY to drive—handsome as any car you ever saw—and with POWER, lots of it, more than enough for any roads or any hills you'll ever face. And backed by a National Service organization so COMPLETE that wherever you drive, you are "never more than a town away from Studebaker Service."

**Why not see this FOUR to-day—this FOUR that Studebaker built to stand the test of country roads? See it and drive it yourself—and judge how much you CAN get for \$985**

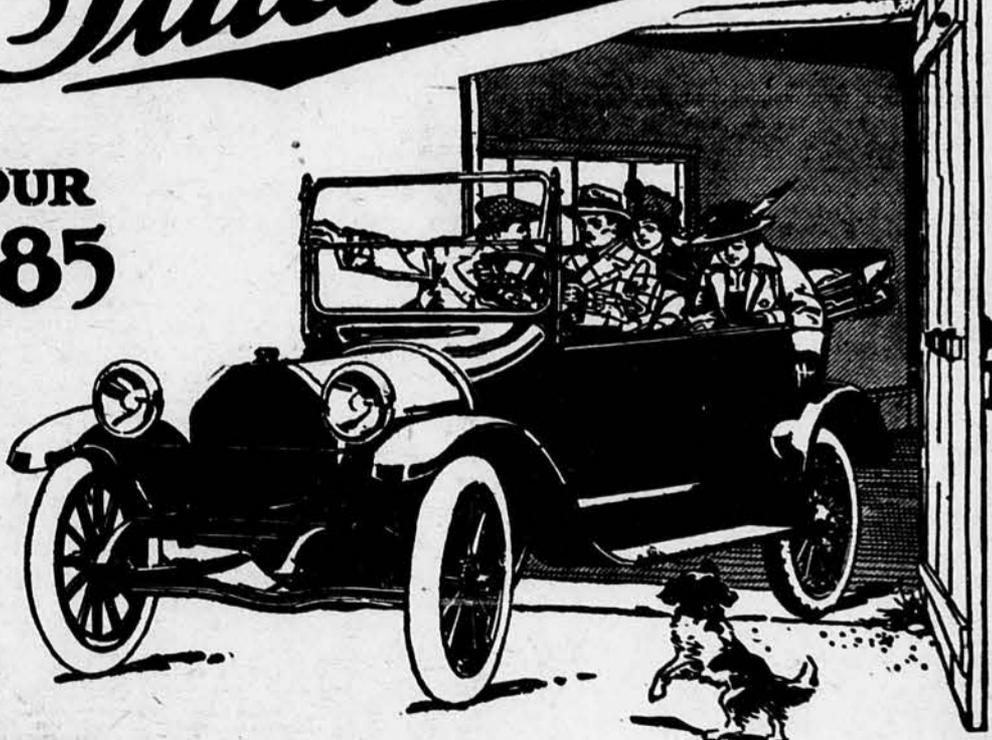
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# Here Comes Our Pet Parade

## See If This Procession Isn't Almost As Good As a Sure Enough Circus Day

**L**ISTEN, everybody! Can you guess what is coming? The boys and girls of our page are bringing their pets for you to see, and oh, such a noise as those animals are making. Dogs are barking, cats are crying, chickens are crowing, calves are bawling, birds are singing, wolves are howling, pigs are squealing, and there is even one monkey chattering away as loud as he can. You'll almost have to put your fingers in your ears so you can read the letters. The procession is so long that all the pets cannot get into the paper this week, but there will be another animal show some time and then lots more of these letters will be printed. But we can't stop to talk any longer, for here comes our procession right now. Just look what's heading it.

**It's Betsy, the Pig.**  
[First Prize.]

One very stormy March day about three years ago, papa brought a little orphan pig into the house and told me I could have it if I would raise it by hand. I called the pig Betsy and kept it in a little box lined with hay.

Betsy soon learned to eat out of a little dish, but she would not stay in the box. Every time I would put her back she got right out again. I could pick her up in my arms and rock her and she would lie very still as if she liked it. Betsy soon became a nuisance in the house, so we put her in a larger box in the washhouse close by, but we had a hard time keeping her there, for she would get out and push the door open with her nose and make straight for the kitchen door, and there make a great fuss for us to let her in.

Then we made Betsy a pen out by the chicken house near the little shed where our Scotch Collie and her nine little puppies stayed. When Betsy was about 6 weeks old, I guess she grew tired of living alone, so she got out of her pen and one morning we found her all cuddled up with the puppies. After that she lived with Shep and the puppies, and she took her meals just as the puppies did from their mother and Shep seemed to think as much of the pig as she did of her own family. It seemed queer at first to see all the puppies and the pig following her around the yard. Betsy stayed with Shep and her family till they were all weaned and she always played with them and tried to do everything they did but bark. I believe she thought she was a dog instead of a pig. After the puppies grew a little older when a strange pig came into the yard they would run after it and bark and Betsy would follow and keep her tail wagging and act as if she were trying to bark too.

We gave the puppies away after they were grown and then we had to put Betsy in the pen with the rest of the pigs. She always remembered her name and always knew me when she saw me. When I went to the pen to pick up cobs, she would come up to play with me and pull my dress. In the fall we sold her with the other pigs.

Burma Miller, age 11.  
Diamond Springs, Kan.

**The Monkey Comes Next.**  
[Second Prize.]

My greatest pet came from the southern part of Brazil and this is how I got him. A circus came to my town one day and I went down early in the morning to see them unload. In one of the cars I noticed a baby monkey which I thought looked sick. As I was watching it a uniformed man came up and said, "Sonny, what will you give me for that youngster over there?" pointing to the monkey that looked sick. "He'd be all right with a little care, but I haven't time to bother with him." All I had was the dollar I was going to the circus with, but I felt so sorry for the baby I offered the man that. He wanted more at first, but finally he told me I might have the monkey.

I took the monkey in my arms and ran every step of the way home. I had an old rabbit box and I put him in that. I fed him some fresh cream, but he did not seem to like it, and after he had tasted a little he threw the dish

of cream all over me and scolded me good. I then brought him some oats and wheat and he liked this very well. My monkey soon got well, but he has always been very particular about his feed. If the oats have a little straw or dirt in them, he will pick up a handful and blow the trash away.

I have taught my monkey to catch a small yarn ball and throw it to me. He is a pretty true pitcher too. When he hears the piano played he will dance and hop all over the cage. He chooses his own friends. When he does not like anyone he will throw his food at him and go into a great rage. Sometimes he will get mad and sulk for days at a time. Then I have to praise him and talk to him all the time to get him in a good humor again.

Hooker, Okla. Jerome Ray.

**Oh, There's a Turtle!**

When I was playing out in the yard one day last summer I saw a land turtle crawling along in the grass. I caught it and put it in a tub and put some stones and gravel and water in the tub too. I called my turtle Jack. At first Jack did not like his new home, but he soon got used to it and was very contented. Papa is a doctor and had to go down on the creek to see a sick man. I went along and took a bucket to put crawdads in for Jack. There was a boy there named Norman and he and I caught the crawdads with a seine we made out of an old gunny sack. You should have seen the way Jack went for them.

One day when I went to feed Jack he was gone. I hunted all over the place for him but I couldn't find him anywhere. I found another turtle in a few days. It took the place of Jack and I called it Jip. Two or three days after I found Jip, here came Jack walking up happy as you please. I took Jack and bored two holes in the web of his shell. Then I took a sardine can and put four spool wheels and two wires on it. The wires I passed through the holes in Jack's shell. In this little cart I put Jip. Jack started to go and Jip stuck out his head and looked around as if to say, "Where am I going?" I kept the turtles all summer and when school began I turned them loose. They stayed around for several days and then they disappeared. I have not seen them since.

Wilder McCullough, age 10.  
Delavan, Kan.

**"Brer Fox" Is Here Too.**

The queerest pet I ever had was a fox. Papa found a nest of little foxes in a shock of fodder and he brought two of them home to me. We had an old cat with little kittens, so we took the kittens away from her and gave her the foxes instead. At first the old cat was afraid of them but she got so she liked them as well as she did her kittens. She took good care of both of the baby foxes but one of them died and the other grew so big she had to wean him. After that the fox would follow papa when he went after the cows. Mama fed the fox milk in a trough along with the little ducks. One day while he was drinking his milk, a little duck got in the trough and my fox snapped at it and tasted blood. After that he used to catch the chickens and eat them so we chained him to a tree to keep him away from them. Sometimes when we fed him he would leave a piece of bread and when a chicken came to get it, the fox would catch the chicken. Then we put the fox in a wire pen. One night he got out and went over to one of our neighbors and got after their chickens. They thought he was a wild fox and killed him.

Teddie Reynolds, age 9 years.  
R. 2, Boicourt, Kan.

**Here Come Three At Once.**

I have three pets—a dog and a calf and a maltese kitten. My dog is a shepherd dog and can drive the cows for me, and when I hide up in the barn loft he will climb the ladder and hunt for me. I call him Shev. My calf I raised all by myself. My uncle gave it to me when it was a week old, as its mother

was sick. Now it is a big calf and it wrestles with me just like a boy would. He gets down on his knees and jumps at me and pushes me over. I hitch him up to my sled when it snows and he will trot along at a great rate. Sometimes he turns a corner real quick and upsets me. I call him when I come home from school and he is always looking for me.

My pet kitten is the cutest of all. She will ride on my shoulder all over the farm and when I milk our Jersey cow the kitten sits on my shoulder and then rides to the house where I give her some nice warm milk. When I talk to her she will say "Meow" just as if she understands. My kitty catches mice and brings them to another kitten we have. One day she caught a little rabbit. I call her Muggins.

Josh W. Wells, age 10.  
Bushong, Kan.

**Puggums, the High Diver.**

My pet is a small curly, fuzzy brown dog with a very pug nose and the prettiest eyes I ever saw. His name is Puggums. We taught him to do high diving. We had him jump just a little way at first, and kept him jumping just a little higher till now he will jump from a plank 12 feet high. We always fed him after he jumped for us and whenever he gets hungry he gets up on the high diving plank and barks till someone comes and holds up his carpet for him to jump. He keeps on jumping till he gets something to eat. He can jump over a broomstick held very high and can jump through a hoop on to a chair or bench very gracefully. Don't you think he is a smart dog? His mother was a show dog.

Puggums used to watch my brother's white rabbits when they were out of their cage. He never let them go into the street. He liked the rabbits very well; in fact, he liked them so well that one day he ate one of them. Brother and I have many other pets besides Puggums. We have four squirrels, three white rabbits, two white mice, two cats, and lots of bantam chickens.

LeRoy, Kan. Clara Briles.

**When the Kansas Star Rose**

Most boys and girls would think anyone was foolish who would tell them that Washington's birthday and Kansas' birthday come together. "Why, Kansas Day is January 29, and Washington's birthday is February 22, so they couldn't be the same day," is about what you would say, isn't it? You are right, and you are wrong, both, for this is the way things really happened. Kansas came into the Union January 29, 1861, but the Kansas star did not come into our flag till nearly a month later. There were only 33 stars in our flag before Kansas was added, and some of them were shining very dimly, for it was in the early days of secession and several states were already threatening to withdraw from the Union.

There had been a bitter struggle over Kansas, you remember, and all loyal union men felt it was a great triumph that the new star should be shining for a free and not a slave state, so they decided there should be some special celebration when the new star was put into the flag. The place chosen for raising the flag with the new Kansas star in the field was Independence Hall in Philadelphia, the birthplace of freedom, where the Declaration of Independence was signed, and the day chosen was the birthday of the man who did more than any other one person to make that independence sure—George Washington. The man who raised the flag was Abraham Lincoln, at that time president elect, the man who was destined to become the Great Emancipator. In raising the flag, Mr. Lincoln said, "I am invited and called upon before you to participate in raising above Independence Hall the flag of our country with an additional star upon it. I wish to call your attention to the fact that, under the blessing of God, each additional star added to the flag has given additional prosperity and happiness to this country." Surely no star has ever had a more inspiring welcome into the flag than this, and surely no state has ever better fulfilled its prophecy than this great state of Kansas, whose star is 54 years old on Washington's birthday anniversary.

If Sherman had lived to say it now he would stutter.

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# Where Coolies Grow Seed

## California Produces Thousands Of Tons Every Year

BY FELIX J. KOCH

THE story of much of the seed bought by farmers and gardeners has its start out in California, notably round San Jose. In the Santa Clara Valley countless tons of seed are raised every year, and armies of men make a living by just such accessory jobs as killing the gophers, the foes of the seedmen, while those whose livelihoods come from the actual raising of the seeds would run well up into the thousands!

In the early springtime a western seed farm forms a picture never to be forgotten. Even so commonplace a plant as the onion, when in full blossom, is a thing of beauty, given tens of thousands of it, as one has them here on the seed farm. And the peas, white and delicate as the sweetpea of the florist—they, too, are a delight in themselves. You, too, who recall the perfume exhaled by the lowly mustard, need only imagine a thousand acres of such flowers in one patch, to get an idea of the charm to nostril and eye!

### Specialties Will Win.

Usually a ranch has its specialties. One seed grower will run to lettuce, 200 acres in this; and it will take his men two months and a half to plant. Some seasons six men and a horse are kept busy, the horse then drawing a mammoth seeder, behind which follow the men to see that the seeds fall where desired. Three pounds of seed are sown to the acre. These will yield from 800 to 900 pounds of lettuce seed. The nature of the soil, ranchers say is the determining factor. Out on the seed farms, lettuce begins to bloom in July and seeds will be ripe by September. The plants are cut with the sickle and then sacked, that the seeds may be preserved from the birds that infest the valley in great flocks at this time. When occasion presents these plants are brought together and flailed, a sheet of canvas, 40 feet square, being stretched in the fields as a floor. The seed is then screened and sacked as a rule; 100 pounds of lettuce seed in a sack, and often two warehouses are set up just for this seed.

Once they have the lettuce "in" or "down" they turn to the onions. Usually the coolie labor will be busied at this in November and the plants be up by January. That means that at March-end, or in April, you will find the onion beds in bloom. By August the seed may be gathered, each little ball being cut by hand and thrown into the seed basket. A man can fill such a basket in half an hour. When he has four baskets ready he turns them into a sack and this, then, is taken by wagon to the drying grounds. There the onion seed is dumped on huge canvas sheeting to sun dry for three weeks or more. On the sail-cloth the seed is stacked a full foot deep and the Chinamen turn the mass every day by foot and with wooden pitchforks. Assured it is dry, it too, is gathered into stacks and then threshed and sacked. After that a fan machine cleans it and makes it ready for its final bath.

In this latter process bad seeds will

float to the water's surface where they are skimmed off and destroyed.

But these are just incidentals to the wealth and variety of seed farming. Seeds are raised of the salsify, of the leek, the parsley and radish; there are carrots and parsnips; there's kale and there's cabbage. When in bloom, almost any of these are well worth the trip in themselves. Where the onions are set out as thickly as grass, the salsify stands 2 feet one way, 3 the other from its neighbor, and the blossoms gain distinctness as result.

But it's hard work, this caring for the seed, and almost every plant requires different treatment. Seed sown in June for the salsify, for example, must be set out in December anew, and on the doing of the thing just right depends a yield of from 600 to 1,000 pounds of seed to the acre. Of parsley seed, it is said 1,000 pounds to the acre should result, and as this seed is so very small the sowers will seed four pounds of it to the acre.

The calendar of a seed farm is an interesting commentary on our truck stuff. Oysterplant seed is garnered first of all, after it comes the kale and cabbage. July should find all these in the barns, when onion and carrot seed may follow. Mustard, too, is blooming now, though not yet ready to be cut, for the mustard seed is latest and last to come in, being harvested in October.

In setting out one's array of seed, the amount of yield desired is closely studied. Say 500 pounds of onion seed from the acre; 700 to 800 of leek, 600 parsley, 400 to 500 kale; and so on, is the way the patches are checked. When the salsify and the onion are well out the ground and the lettuce leaves peep green at the surface, allowance is made for particular season.

Beginning then, too, profits decrease, with extra help to extra purpose. Two or three men at \$1.35 a day, do nothing but kill gophers—a dozen a day, each of them. These and squirrels hurt the young plants, so sulphur must be burnt in their holes. Quail grow annoying and, as they're protected by law, they must be kept from the lettuce beds. Blackbirds eat the seed as it's dropped to the furrow and scarecrows must be set up.

### And It Means Work.

It all requires labor, lots of it, and so, over every farm, the proprietor places his Chinese foreman, who will work with the other laborers, but who "bosses them" for fair. Chinamen and Japanese hate one another and so there are separate squads for each; each assigned respective duties. Nor is the work made the lighter because of numbers. From 6 a. m., until 6 p. m., these men work. A coolie is supposed to plant his two long rows a day, but so long are those rows that it's often dark before the work is done. All this planting, except the lettuce, is done by hand, but for the cutting and reaping varied implements have been devised. Radish seed reapers, mowing machines, sickles and other affairs are used. Often, as the seed

stock is cut, it is thrown into a sack, worn at the gatherer's side.

But sowing and reaping constitute only two ends of the tale. To see ten weed-cutting machines, three to five cultivators, twenty or twenty-six horses, and be told that, at season-height, sixty such are employed, gives new notion as to the seed farmer's prowess. In the warehouses, 5,000 sacks of seeds are a common sight!

### Birds Check the Wireworms

Birds probably are the most important factor in restricting the depredations of wireworms. Among the birds that are known to feed on wireworms (either the larva that do the damage or the adult beetles) are the following: Bobwhite, flicker, Mourning dove, Ruffed grouse, crow, whippoorwill, California quail, cowbird and bobolink. Besides these certain hawks, cuckoos, woodpeckers, phoebes, fly-catchers, jays, blackbirds, orioles, and sparrows help in protecting grain from the undesirable wireworm.

While the wireworms, when they do most of their damage are merely grubs measuring from 1/2-inch to 3 inches in length, they are more readily recognized when grown into adult beetles. These beetles are known to certain localities as "click-beetles," "skip-jacks," and "snapping beetles." These names are all derived from the beetle's habit of snapping the forepart of the body when placed upon its back or held between the fingers. The worms that do the damage usually are yellow or reddish-brown, with three pairs of short legs near the front of the body.

The term wireworm is sometimes misapplied to the larva of another group of beetles. The meal-worm, which feeds upon stored products in warehouses and granaries, is one of these false wireworms. The beetles of this group of insects do not snap the forepart of the body as do those of the true wireworm.

### Longer Leases Are Needed

Longer leases based on livestock farming are needed in building up the agriculture of Kansas. Tenant farming is increasing in many localities, and with this increase is coming a slump in soil fertility and in profits. The lost ground can be regained by adopting a good system of tenant farming based on livestock and good crop rotations.

A one-year lease based on grain farming, the common system under which the tenants have to operate in Kansas is fundamentally wrong. It can lead only to soil exhaustion and to poverty for everyone concerned. More than this, it is not possible to build up a good community life when the population is shifting constantly.

### Which Shall He Do?

I should like some of the readers of the Farmers Mail and Breeze to give me some advice. I have been farming in western Kansas several years. I rent for one-fourth the crop, and, with the exception of last year, 1914, I have not broken even. Would it be better for me to keep on renting for one-fourth the crop or go farther east and buy a small place?  
R. D. G.  
Colby, Kan.

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The seed will be distributed in this way: I will send fifty grains of the World's Best Bushel of corn in a strong, well-made envelope, all charges prepaid, to any reader who will send me \$1.00 to pay for a one year new or renewal subscription to The Mail and Breeze. If you are already paid in advance your subscription will be extended another year.

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*Arthur Capper*  
Publisher Farmers Mail and Breeze.

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## Apple Trees Need Pruning

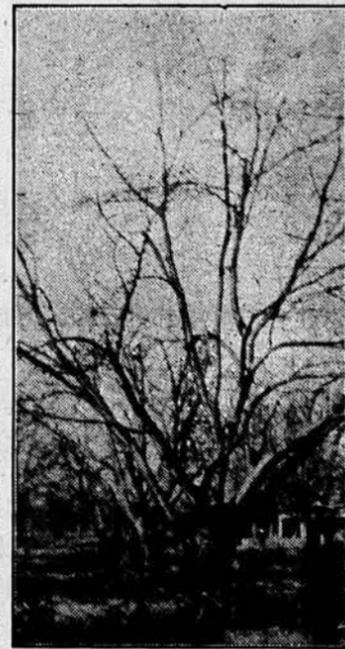
Open Centers Always Are Best In This State

BY J. H. MERRILL

THE first step in improving an orchard is to prune the trees. Every tree is an individual problem and should be treated as such. There are a few general principles along which a man may work, but the problem finally resolves itself down to the grower's judgment.

It is well to keep in mind a general idea as to the kind of a tree you desire to get. The presence of a large number of dead, diseased and broken limbs which must be removed will upset any plans to a certain extent, but this can be overcome largely by eventually forcing new growth into these vacant places.

Every man has his own idea as to the best way to prune a tree. A very effective way is to begin at the lower part and work your way upward, removing all dead, broken, dis-



Opening the Centers.

eased, and overlapping limbs.

After reaching the top of the tree you are then in a position to plan out the way to make a tree out of what is left. If the tree is old the chances are that it also is quite high. It is impossible to thoroughly spray such a tree on account of its height. The limbs usually are too weak and slender to support many apples, and it would cost more than the apples were worth to pick them, if there happened to be any. Therefore while you are in the top of the tree head back three high limbs to such a height that they may be sprayed easily, and from which the fruit can be picked economically. Every cut should be slanting, to shed the water, and it should be made just above a lateral branch. If the cut is made in this way the lateral branch will draw up the sap, and the wound will heal over nicely.

Sunlight is necessary in order to have the apples color well, and if after removing the worthless wood the tree still seems too thick some thinning may be done, but the fact should be borne in mind that probably this is the first time that this tree has been pruned for a long time, and too much wood should not be removed at one time. More satisfactory results will be obtained if three years are allowed in which to put the tree in the shape you wish. If a great deal of wood were removed at one time it would be too much of a shock to the tree since an old tree cannot stand the rough treatment that it could when it was young. If possible, however, some of the center branches should be taken out to give the sunlight an opportunity to get down into the tree and color the fruit.

As a tree grows in its natural state there is a balance between the root system and the crown or that portion above the ground, but when a large amount of wood is taken from the tree, as in the case of heavy pruning, this balance is disturbed. The root system remains the same, but there is not enough wood above ground to utilize the plant food which the roots have stored, consequently during the following season a large number of watersprouts will be put out by the tree. If the tree has been high headed with most of the bearing wood at the top and you have removed this in heading the tree back, it will be necessary to start some new bearing wood in the lower part of the tree. This can be done by making use of the watersprouts. Unless they are too thick it will be well to leave most of them for the first year, but they should be cut back to three or four buds. By this method you will provide leaf surface enough to take care of the plant food which the roots are sending up, and the cutting back of the watersprouts will cause them to develop fruit spurs. Thus the bearing wood may be changed

to the lower part of the tree.

During the second year the undesired watersprouts may be removed, leaving the ones you wish to save for permanent bearing wood about 12 inches apart. The watersprouts which later appear and are not wanted may be rubbed off when they are small buds. If the ends of the branches are clipped back it will force out new growth further back on the limb and will also have a tendency to make the branch thicken up, thus enabling it to better support the weight of a crop of apples. Every branch should be cut as close to the limb from which it is being removed as possible. The greatest care should be taken not to disturb any more of the fruit spurs than possible, as it takes a long time to develop these.

This will make large wounds but they will heal over, which they will not do if the cuts are made so that stubs are left. The remark has often been made that apple trees in Kansas could not be pruned in the manner that they were pruned in other states. This remark owes its origin to the fact that limbs used to be cut off, and as no further attention was paid to the wound, the cut was usually followed by decay, canker, or some other plant disease, usually killing the tree. Every wound made on the tree should be treated with paint or some other protective substance such as tar or a creosote preparation. White lead and raw linseed oil mixed into a good, thick, paint makes a good covering. Tar and the creosote preparations are more penetrating and for this reason are apt to destroy the cambium layer. However, they may be used on wounds which are made by cutting into the heartwood.

When you begin to prune your orchard you will become acquainted with Illinois canker, which is doing more damage in Kansas orchards than all the insects combined. In the greater majority of the trees found infected with canker the cause can be traced directly to poor pruning. Either the stubs were left too long and were followed by decay and then by canker or else the limbs were cut off and the wounds were not treated, thus offering an excellent opportunity for the entrance of the disease spores. The fact that no satisfactory method of handling this canker has yet been discovered makes it the most formidable enemy with which the orchardists have to contend. An attempt should be made to remove the cankers, and then a fight has been made to prevent new cankers from getting a start.

The limbs which are infected may be cut out, and they should be taken from the orchard and burned. However, when the body of the tree is found to be infected there is not much hope of saving the tree, as the canker will spread through the heartwood and finally infect all of the branches, which means sure death to the tree. If the orchard is one that is being sprayed and cared for, an old tree which seems doomed on account of the canker may be left and allowed to bear as long as it will. If it is removed the ground where it was standing probably will not be used for any other purpose, and for this reason it will be well to get as much as possible from the tree before it is wholly gone. Such a course would not by any means be a practical one unless it was in an orchard where everything possible was being done to prevent the canker spores from gaining an entrance into the trees.

If the orchard has always been in sod it probably will facilitate the progress of rejuvenation if this sod is broken.

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This is from an address by George Washington; it might be studied, today, with profit:

One of the expedients of party to acquire influence, within particular districts, is to misrepresent the opinions and aims of other districts. You cannot shield yourselves too much against the jealousies and heart-burnings which spring from these misrepresentations; they tend to render alien to each other those who ought to be bound together by fraternal affection.

To the efficacy and permanency of your union a government for the whole is indispensable.

All obstructions to the execution of the laws, all combinations and associations, under whatever plausible character, with the real design to direct, control, counteract or awe the regular deliberations and action of the constituted authorities; are destructive of the fundamental principle, and of fatal tendency.

Toward the preservation of your government, and the permanency of your present happy state, it is requisite not only that you steadily discountenance irregular oppositions to its acknowledged authority, but also that you resist with care the spirit of innovation upon its principles, however specious the pretenses.

Of all the dispositions and habits which lead to political prosperity, religion and morality are indispensable supports.

It is substantially true that virtue or morality is a necessary spring of popular government.

Promote, as an object of primary importance, institutions for the general diffusion of knowledge. In proportion as the structure of a government gives force to public opinion, it is essential that public opinion should be enlightened.

As a very important source of strength and security, cherish public credit. Observe good faith and justice toward all nations; cultivate peace and harmony with all.

A passionate attachment of one nation for another produces a variety of evils.

The great rule of conduct for us, in regard to foreign nations, is, in extending our commercial relations, to have with them as little political connection as possible.

It is our true policy to steer clear of permanent alliances with any portion of the foreign world.

Taking care always to keep ourselves, by suitable establishments, on a respectable defensive posture, we may safely trust to temporary alliances for extraordinary emergencies.

Harmony and a liberal intercourse with all nations are recommended by policy, humanity and interest.

There can be no greater error than to expect or calculate upon real favors from nation to nation. It is an illusion which experience must cure, which a just pride ought to discard.

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A saving of \$30,000 at one sweep to the farmers of the state was made recently when the board of corrections announced that the price of twine from the state penitentiary twine plant would be reduced a cent a pound from last year's prices, or a reduction of nearly 15 per cent. The plant will put out 3 million pounds between now and July 1, it is estimated.

Twine made at the state penitentiary is sold on a sliding scale. Local dealers and chartered farmers' organizations will pay the same price, \$6.75 a hundred pounds for carload lots. For less than carload lots the price of these will be 7 cents flat. To individual farmers the price will be 8 cents cash. Dealers and chartered farmers' organizations will be allowed until November 1 to settle. There will be no discount for cash.

The export cheese business is booming. In two weeks of January 835,000 pounds of cheese were exported through the port of New York City.

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**Good Seed Is Needed**

BY S. G. TRENT.

The fact that our acre yield of corn has been decreasing shows that our soil is gradually losing its fertility. This tells us that Nature's supply is being exhausted, and that we must put back what we have been taking from the soil by raising corn year after year. There are three practical ways of increasing the yield of corn. These are by building up our soil, improving our seed, and giving better cultivation.

There is too much land planted to corn in Kansas that is better adapted to some other crop. This fact alone will keep our average down, but I do believe we can double our ten year average yield which is 22.4 bushels an acre. Many details must be considered if you are going to raise corn profitably. First of all your land must be fit for corn. If it stands under water a part of the time, or has been corned and corned until it is worn out, you cannot expect to raise a strong, healthy crop. No matter what kind of seed you plant, your efforts are wasted, unless you have good land. If you have low, wet land, it should be tilled and ditched, or kept in grass. Thin land should be sown to clover or other soil-enriching plants for at least three years, and then when it is enriched again, plant it in corn for two or three years. Do not use it more than this time, if you expect to get a good corn crop from it.

In getting the soil ready for planting, different methods must be used for different localities and different soils. Most farmers have figured out the methods for their localities. Here in Brown county we are doing fine work in getting rid of the corn ear worm and other insects, by late winter or early spring plowing. This exposes the worm and insects to freezing cold weather and they are destroyed. In raising our seed corn we find the corn ear worm a great pest.

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Do not plant corn in cold ground. I never plant corn until the ground is warm, because I want it to start to growing right from the start. I do not want it to lay in the ground a week or two before it comes up. When it does not grow right from the start it is subject to attacks by wire worms and other insects. Do not try to be the first one to start planting, but keep working your ground until it is good and warm. When corn is not doing well, it is doing badly and planting at the proper time is very important. A great deal of corn is planted too deep. Plant just deep enough to get the moisture necessary to make a vigorous, early growth.

After getting a good stand, thorough cultivation is necessary. Care should be taken not to cover the small plants as every stalk means an ear of corn. Cultivators should be adjusted carefully to throw just enough fine dirt to the corn to cover all small weeds. This is very important, for if you do not get the weeds in the first cultivation, you may not get them at all. You cannot increase the yield by having weeds and corn on the same field. Cultivation should be frequent and kept up as long as possible. The man behind the cultivator can increase the yield from 10 to 15 bushels an acre by being careful and paying close attention to his work.

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Spring Wheat Is Not Needed

BY J. C. MOHLER.

Recently quite a number of inquiries have been received by the state's agricultural department about the advisability of sowing wheat this spring. Of course the present high prices on account of the war are responsible for these. So far as the secretary of the state's department of agriculture is concerned he is discouraging the sowing of spring wheat for Kansas. Kansas is not a spring wheat state. Not a few inquirers have suggested the sowing of durum or macaroni wheat. This has been most emphatically discouraged. What prestige Kansas enjoys as a wheat state is due largely to persistency in keeping the hard red winter wheats pure, and in improving their quality. This is the result of a third of a century's effort.

The sowing of durum would place in jeopardy the quality we have been carefully preserving and improving for 30 years. It would endanger the entire wheat output of Kansas so far as quality is concerned. Once a mixture of undesirable grains is made with pure Turkey wheats there is no telling how far reaching the bad effects may be. Kansas has no place for durum in its repertoire of crops. There is no place here for this alien grain, of a different character, and not reliably salable except by degrading prices.

The chances are the farmer could make more money by planting his ground to corn, kafir or the sorghums. If wheat

The man who merely lends money is not a banker. The so-called banker who lends money only on gilt-edged two-for-one security is more of a detriment to his community than a help. His real duty and usefulness should be the assisting of young men of good character, with no land to pledge, to make a start as farm owners. He can do this as safely as to lend money on a sure thing if he is a real banker, and not merely a money merchant. These young fellows are the farmers of the near future, the life of the community and the continued prosperity of the banker himself depends on their getting a foothold. The kind of banking that drives good young farmers away from home to get their chance is destructive. Real banking is constructive.

is worth \$1.50 next July or August, corn will likewise be high. Where a man can produce 20 bushels of spring wheat to the acre he may produce 60 bushels of corn or 40 bushels of kafir. Judging from the past we can expect trouble from the hot weather and lack of moisture for a spring wheat crop. Spring wheat ripens later than winter wheat, and that is a disadvantage. Also, the seed is high and will cost \$2 or more a bushel. Generally it seems safe to counsel not to plant spring wheat in Kansas. Experience has taught that spring wheat fields were also the principal nurseries for the chinch bug, and this of itself should make us wary about dabbling with spring varieties, of whatever name.

Some inquiries also have been received as to results if winter wheat were sown in the spring. While I have not personally known of anyone actually sowing winter wheat in the spring, I am advised by Dean W. M. Jardine of the Agricultural college that winter wheat will not make grain when planted at this time of the year. It simply stools out all over the ground and does not joint.

Spring Wheat for Galva?

Will spring wheat grow well in this locality? J. J. DECKER. Galva, Kan.

Spring wheat is not a profitable crop in Kansas, and it is not grown here extensively except in a small section in the northwest part of the state. The yields always are low, and it is not worth while to bother with growing it. Kansas is, and always will be, a fall wheat state. F. B. N.

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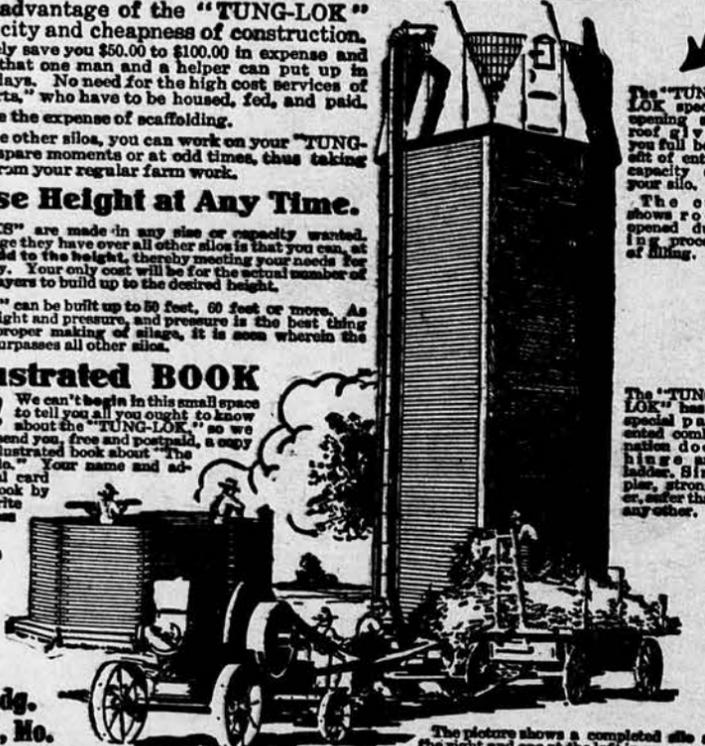
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The picture shows a completed silo at the right and one at the left in process of completion. Simplest silo in the world to put up.

### Corn Should Be Tested

As planting season draws near we are again confronted by the same old question: "How about the seed we have on hand? Is it good enough to plant?" If we took proper care and time to select the best seed when the crop was gathered, the biggest problem is solved. There is only one way in which we may be sure our seed is good enough to plant and that is to test it regardless of how good we think it is. And unless we get a high percentage of good, thrifty plants we do not plant the tested seed if we can possibly get some better seed. If the tested seed is used we figure the percentage of fertile seed and the desired stand and plant accordingly.

A good method of testing corn is to take some boxes 3 or 4 inches deep and of convenient size to handle and fill them nearly full of rich earth. Mark the earth off into squares one inch on a side with wire or strong cord fastened to tacks driven along in the top edges



Every Ear Should Be Tested.

of the box. Then take two or three grains of corn from each ear, one from each end after the ear has been rubbed and one from the middle of the ear. Place the grains from the first ear in the lower left-hand corner square, pressing them down about one inch with a lead pencil, and lay the ear on a shelf nearby. The grains from the next ear should be placed in the square to the right and when the row is full begin on the left side of the second row of squares, placing the second row of ears on top of the first and so on until all of the squares are used. Care must be taken not to disturb the ears so that you may check up correctly when the grain comes up. Keep the earth moist and warm and in the sunlight.

Another method of testing which is becoming popular is placing the seed between two damp blotters marked off in squares with a pen or pencil to serve the same purpose as the wires on the box method. Proceed the same as with the box method and watch the blotters to be sure they are damp.

When we become thoroughly acquainted with the nature of the smut spore and realize it is a living plant resembling in many ways the one we are planting, we come to dread it more and more. If you discover even a small percentage of smut in your growing crop treat the seed you plant the following year or get seed entirely free from smut, for it increases very rapidly when once it gets a start. The smut spore resembles all other parasites in that it is noted for its activity and hardness.

Next to having good, clean seed a perfect seedbed is all important.  
Pratt, Kan. R. E. Crandall.

### One Tree Brings \$100

The government has received \$99.40 in settlement for a single sugar pine tree which was cut in trespass in the Stanislaus National forest, in California, and which yielded more than enough actual lumber to build a good-sized suburban frame house. The tree scaled 18,933 board feet and was valued at \$5.25 a thousand feet.

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It Will Be The Rest  
A Handy Medicine—  
It Salts 'em Too  
Saves Time, Labor and  
Veterinary Bills  
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Now use the Best  
Sold and Guaranteed by  
Best Dealers Everywhere  
25c per brick; \$3.50 for 15 brick;  
\$8.75 per case of 30 brick.  
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Order from any dealer  
won't supply you  
Best Warm Medicine and  
Taste Ever Produced

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P. S. - You will never buy stock powders after trying our Medicated Salt Brick. Medicated Salt costs less but is not as convenient or economical. We sell it, but if you want it why not buy the medicine from us and make it for less than half! It's easy mixed—we sell you how. © R. S. R. Co.

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have been made for over 14 years and lots of the first ones are still doing duty. Just waist high. Easy to load. Wheels under the load—shortest wheel base and close hitch help to account for the exceptionally light draft—rear wheels track with front. Roller bearings in all 4 wheels—no neckweight—steel trussed frame—turns in own length—no enclosed gears—no worm gears—simplest direct drive—no transmission—tried and proven self-aligning beater—individual rollers—strong, rigid oak beater rails—original endless rolling bearing apron. Free book tells all. Send for it.

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for the American farmer today. You will get big money for everything you raise, so it is up to you to raise as much as possible. Deep Tilling will help you more than any one thing, and the **Spading Deep Tilling Machine** will help you do real deep tilling—12 to 16 inches, pulverizing and mixing the soil into the grandest seedbed you ever saw. Investigate!

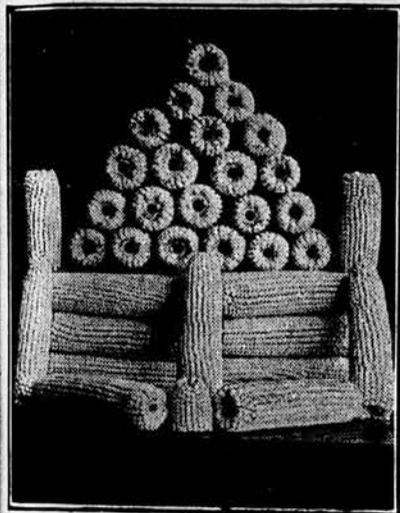
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**Spading Dept. 89, GALE MANUFACTURING CO., ALBION, MICH.**

**Get Seed Corn Near Home**

The farmer of Kansas will not need to send outside the state to get seed corn. The best seed corn that he can plant is the seed that he has raised himself or that has been raised nearby. There is plenty of good seed corn this year.

"The climatic conditions the past summer and fall were favorable for ripening a good quality of seed," says C. C. Cunningham, assistant in co-operative experiments at the college. "Except in a few counties in central Kansas, there is plenty of seed that the farmer may secure in his own vicinity. The agronomy department is recommending that germination tests of seed be made. Only seed which has a high test should be planted."

For the convenience of the farmers who have seed of any kind for sale, the agronomy department each year pub-



It Pays to Use Good Seed Corn, and to Get It Near Home.

lishes a seed list which is mailed to any farmer who desires it. Any farmer who has seed for sale may have his name placed on this list. Last year many thousands of bushels of corn, sorghum, alfalfa, oats, millet, and cowpeas were sold by farmers by this means.

In counties where there is a county agent, farmers having seed for sale should report this fact to the county agent. Farmers living in counties having no county agents can secure good seed by applying to the agent in a neighboring county. Experiments at the college prove that acclimated seed of good quality, grown nearby, is the best seed to plant.

This year the agronomy department at the college has seed of Kansas Orange sorghum and Blackhulled White kafir for sale.

**Helpful Book for Stock Breeders**

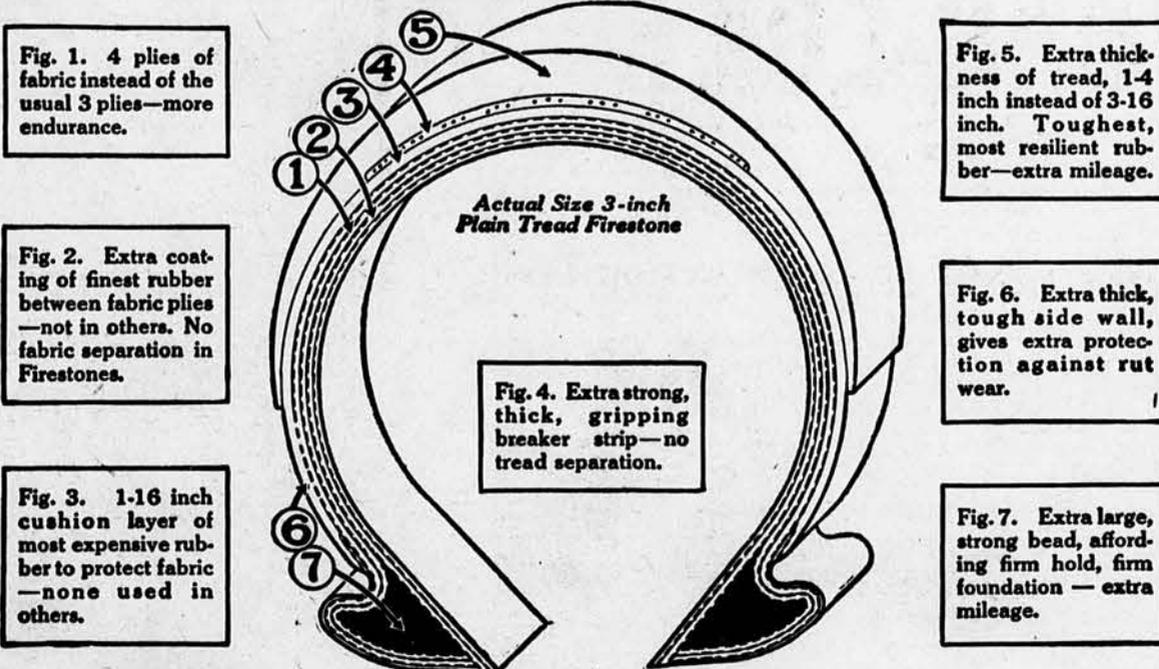
A new book of useful information for farmers and breeders is *The Breeding of Farm Animals*, by M. W. Harper, professor of animal husbandry, college of agriculture, Cornell university, New York. Special emphasis is placed on the importance of proper care and management of the parents, together with the proper development of young stock, factors of the utmost importance to the practical breeders. Interest is centered in the more practical features of breeding farm animals. Extended use is made of the records of performance kept during recent years, to illustrate the factors involved in the production of the highest types of farm animals, such as the dairy cow producing 20,000 to 30,000 pounds of milk and more than 1,000 pounds of butter fat a year; the modern beef animal attaining a weight of 1,200 pounds and even more by the time he reaches 15 or 18 months of age; the sheep, shearing an annual clip of 25 pounds of wool; the mutton sheep, attaining a weight of 60 pounds in 60 days; the porker, weighing 300 pounds at 6 to 8 months of age; or the hen capable of laying 200 or 300 eggs annually, as well as the ponderous drafter, weighing a ton at 3 years of age. The text is presented in such a manner as to be readily comprehended by any one. Many illustrations of the several breeds of horses, cattle, sheep, and swine have been used.

*The Breeding of Farm Animals* is published by the Orange Judd Company, 315-321 Fourth Ave., New York. Net price, cloth binding, \$1.50.

Ignorance breeds contempt.

# Save Tire Money

**MAKE** them show you the "inside facts." Then compare prices. You'll see that 40 cents more for a Firestone 30 x 3 inch, for example, gives you dollars more in extra material, with a saving of still more dollars by the Mileage Test.



**Fig. 1.** 4 plies of fabric instead of the usual 3 plies—more endurance.

**Fig. 2.** Extra coating of finest rubber between fabric plies—not in others. No fabric separation in Firestones.

**Fig. 3.** 1-16 inch cushion layer of most expensive rubber to protect fabric—none used in others.

**Fig. 4.** Extra strong, thick, gripping breaker strip—no tread separation.

**Fig. 5.** Extra thickness of tread, 1-4 inch instead of 3-16 inch. Toughest, most resilient rubber—extra mileage.

**Fig. 6.** Extra thick, tough side wall, gives extra protection against rut wear.

**Fig. 7.** Extra large, strong bead, affording firm hold, firm foundation—extra mileage.

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Ask your dealer if he has cross sections of different makes of tires. They tell the story. Or ask any neutral repair man. He cuts into all makes and knows Firestone superiority. Keep in mind the Firestone "two-cure" process—more expensive than the "one-cure"—but permitting inspections that eliminate fabric buckles.

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**Firestone Net Price List to Car Owners**

	Care Round Tread	Care Non-Skid	Grey Tube	Red Tube
30x3	\$ 9.40	\$10.55	\$2.20	\$2.50
30x3 1/2	11.90	13.35	2.60	2.90
32x3 1/2	13.75	15.40	2.70	3.05
34x4	19.90	22.30	3.90	4.40
34x4 1/2	27.30	30.55	4.80	5.40
36x4 1/2	28.70	32.15	5.00	5.65
37x5	35.55	39.80	5.95	6.70

**The World Corn Crop**

BY CHARLES M. DAUGHERTY.

Indian corn, or maize, although the last of the great cereals to be discovered, is now grown over a broader extent of the earth's surface than any other grain, excepting wheat. Originally merely the primitive food grain of the aborigines of tropical and semitropical regions of the Western Hemisphere, its cultivation within a few centuries has been extended to all continents. The exceptional productivity of the plant, in both corn and fodder, and the manifold uses made of grain, stalk, pith, leaves, and cob have won for it the fame of being America's most valuable contribution to agriculture.

In so far as can be determined from existing statistics, the world's recorded corn acreage amounts at present to approximately 170 million acres. As, however, no figures are extant respecting the area planted in many of the smaller producing states of Central and South America, Asia, Africa, and numerous islands, the recorded acreage doubtless falls short of the actual by several million acres.

The bulk of the world's crop, as is well known, is grown in America, where the plant is believed to have originated. Roundly 130 million acres are planted annually in the principal producing countries of America; of this upward of 105 million are in the United States, over 13 million in Mexico, 10 million in Argentina, and almost a million acres in Uruguay, Canada, and Chile combined.

"Get out of here," said the hen to a china egg, "you don't belong to my set."

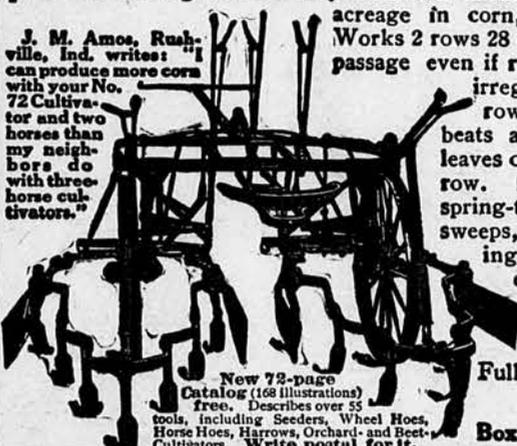
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This No. 72 Planet Jr two-row two-horse Pivot-wheel Cultivator saves a man, a team and a cultivator every day it is used, and is moderate in price. It is the greatest money-saver ever invented for cultivating large acreage in corn, potatoes, beans, etc.

Works 2 rows 28 to 44 inches apart at one passage even if rows are crooked or of irregular width. In check rows and listed corn it also beats any other tool. Never leaves open furrows next to the row. Can be equipped with spring-trip standards, discs, sweeps, hoe steels, and furrowing shovels. No wood used except for break-pins.

Planet Jr tools are used by over 2 million farmers and gardeners. Fully guaranteed.

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**Boys Suit Special**  
A real tailor-made suit, made by our bench tailors in off season from short pieces of highest grade wools. Nifty Style, as illustrated, 2 pair pants, \$2.00 value, special for only \$1.75. With one pair of pants \$4.65. Send for catalogue.

**Tailored To Your Measure**  
Why pay \$20 to \$25 for merely ordinary ready made clothes—when you can get this guaranteed all pure wool blue serge suit—the greatest value ever offered—tailored to your measure for only \$15—and especially when to secure your first order we will line it with a regular \$4.00 Satin Lining FREE and pay all shipping charges. We take all the risk—we guarantee to please you in materials, fit, style and workmanship or you don't pay us one cent. Send today for our Big Catalogue—70 Samples of plain and fancy suitings—also lowest prices on men's high grade furnishings, hats and shoes—our system of selling direct through no agents, stores or dealers saves you big money. Desk D22  
**BERNARD-HEWITT & CO.** 244 W. MONROE CHICAGO





# Low Price Record For Hogs

## New Grass Will Bring Improvement in the Cattle Market

BY C. W. METSKER

THE cattle market probably will not improve very much until grass comes to the rescue. Liquidation has been an important feature of the market for four months now, and there is no indication that it will subside soon. When feeders can turn to grass they will feel that they are away from the burden of expensive feed. Lack of market supplies will then rally the market. Cheap feed will bring relief both to the feeders and to the market, and take the element of uneasiness from the entire situation.

### The Worst Cattle Market in Years.

Prices for fed steers last week were principally on a \$7 to \$7.75 basis, \$1 a hundred lower than two weeks ago and \$2.75 to \$3.25 lower than the first week in December, the high point of this winter's feeding season. This condition is due to the small outlet for beef and the general liquidation of fed cattle owing to the outbreak of the foot and mouth disease. Commission men as well as feeders are looking for a turn in conditions that will improve the demand. Conditions, however, do not warrant large offerings in the next few weeks, and light supplies are the only hopes of an improved market.

### How Much Are Cattle Losing?

Some feeders say cattle are losing \$20 to \$25 a head, some say more. The fact is that feeders have received the heaviest jolt administered them in the past decade. Feeders that cost \$7.50 to \$8 a hundred pounds last fall are bringing \$7 to \$7.50 as fat cattle now after a dry lot feed of 60 to 90 days. Meat users have received no benefit from this reduction in prices of cattle, therefore it is evident that packers and retail butchers are gathering the harvest. Less than a year ago the big dressed beef men in Chicago voted to expend \$50,000 in advertising the necessity of large production of beef and the action of the market in the past two weeks has done more to knock producers' faith in the industry than large amounts spent in advertising can overcome. To lose money on fed cattle, whether it is little or much, is a severe blow to future operations.

### Demand for Grass Starts.

Kansas pasturemen report the opening demand for grass. J. W. Sullivan of Bazaar, says he has leased some pasture, the contract calling for \$3 for six acres for the grass season. That is about the same as last year. In Greenwood, some contracts have been made at \$6.50 to \$7.50 and as high as \$8 a head, for steers.

### Scope of Foot and Mouth Disease.

The statement of the United States Bureau of Animal Industry issued on February 3, shows that nineteen states reported the foot and mouth disease. They were Connecticut, Delaware, District of Columbia, Illinois, Indiana, Iowa, Kentucky, Maryland, Massachusetts, Michigan, Montana, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Virginia, Washington and Wisconsin. Since then Kansas has been added, Illinois, Indiana, Ohio and Pennsylvania have suffered the most. In Illinois the number of animals infected was 36,758, in Pennsylvania 17,266, Ohio 10,504, and Indiana 6,127. In seven states reinfection was reported, and only in four states are herds being held for slaughter.

### Stock Cattle Under a Ban.

With practically all states having established some quarantine restrictions against cattle from adjoining states, or else resting under a federal quarantine, the movement of stock and feeding cattle is small and prices are low. The extreme range in prices of stockers and feeders last week in Kansas City was \$5.50 to \$7.40, and only a few bunches brought \$7.

### The Low Spot for Hogs.

Last week recorded the low spot of the season for hogs, packers putting up a drove at \$6.45 to \$6.55, at the low point. By the week end, however, demand was unusually keen and prices increased 10 to 20 cents. Receipts were large and nearly the entire outlet except from St. Louis was to packers. The general position held by packers is that receipts of hogs will continue large through March, but owing to the comparatively low prices, and prospects for short summer feeding they are worth the money. Prices for provisions for future delivery have risen, though hogs have declined, and it looks as though packers were going to fill cellars with product at low prices and turn the product at a good advance later. Hogs coming now are of excellent quality and weight, and serve packers' purposes of product making to the best possible advantage. The price of fresh pork, wholesale, is low, and small butchers throughout the country are finding their profit margins reduced materially by that decline. At lower prices for hogs they are making smaller purchases than a few weeks ago.

### Sheep Market Squeezed by Pork.

The fact that pork is much lower in price than mutton, caused prices for sheep last week to drop to a new low position for the season. Lambs at the low point sold at \$7.50 to \$8.25, but in the final dealings rallied moderately. Except as a meat proposition, all angles of the sheep trade are strong. Felts and wool now are the highest in many years past, and the wool from fed lambs is about of maximum length and weight. Some sheep have

moved into feed lots near markets, where they will be sheared in the next few weeks and sold out of fleece. Colorado is the source of largest supply for the next few months. Reports from the Fort Collins district indicate that about 800,000 fed sheep and lambs are ready for market. Light weight in both lambs and sheep is desired more than thick flesh, the tendency in the retail trade being a small chop.

### The Movement of Livestock.

The following table shows receipts of cattle, hogs and sheep at the five western markets last week, the previous week and a year ago:

	Cattle	Hogs	Sheep
Kansas City .....	20,625	31,850	35,225
Chicago .....	39,800	196,000	61,000
Omaha .....	18,100	89,000	62,700
St. Louis .....	19,350	94,000	6,400
St. Joseph .....	6,000	44,500	23,300

Total .....

Total .....	108,875	504,850	188,625
Preceding week .....	120,000	443,500	170,050
Year ago .....	111,125	337,200	288,600

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1914:

	1915	1914	Inc.	Dec.
Cattle .....	196,876	180,045	16,831	
Calves .....	6,337	11,057		4,720
Hogs .....	405,358	287,157	118,199	
Sheep .....	219,411	221,097		1,686
H. & M. ....	21,419	16,577	4,842	
Cars .....	14,553	11,773	2,780	

The following table shows a comparison in prices of best offerings of livestock at Kansas City and Chicago for this date and one year ago:

	Cattle	Hogs	Sheep
Per 100 lbs. 1915 1914	1915 1914	1915 1914	1915 1914
Chicago ..	\$8.50 \$9.50	\$7.00 \$8.67	\$8.25 \$6.90
Kan. City ..	8.40 9.25	6.90 8.60	8.75 6.90

### Grain Market Quiet.

After two weeks of the wildest sort of trade the grain markets quieted down last week and showed some price recessions. The speculative crowd was inclined to hold out and await new developments, and export trade was narrow owing to a further increase in ocean rates. Under lower prices the country movement was checked. Exports of wheat of the 1914 crop have amounted to about 225 million bushels, and the total exportable surplus was estimated at 300 million bushels, so that 70 million bushels is about the amount we can spare for foreign use in the next four months.

Corn prices were weak, and had wheat shown a material decline corn prices would have lunged downward. Great reduction in feeding operations makes corn look to an export outlet for strength.

The following comparison shows prices on best grades of wheat, corn and oats at Kansas City and Chicago for this date and one year ago:

	Wheat	Corn	Oats
Chicago...	1.59 96 1/2	77 1/2 66	60 1/2 49
Kan. City...	1.50 89 1/2	77 1/2 68 1/2	57 1/2 48

### Quotations on Hay.

The following quotations are for hay on the Kansas City market:

Prairie, choice .....	\$11.50 @ 12.50
Prairie, No. 1 .....	10.00 @ 11.00
Prairie, No. 2 .....	7.50 @ 9.50
Timothy, choice .....	15.25 @ 17.00
Timothy, No. 1 .....	15.50 @ 16.00
Timothy, No. 2 .....	13.00 @ 15.00
Clover mixed, choice .....	15.00 @ 15.50
Clover mixed, No. 1 .....	14.00 @ 14.50
Clover mixed, No. 2 .....	13.00 @ 13.50
Clover, choice .....	14.00 @ 14.50
Clover, No. 1 .....	13.00 @ 13.50
Clover, No. 2 .....	10.50 @ 12.50
Alfalfa, choice .....	15.00 @ 16.50
Alfalfa, No. 1 .....	13.00 @ 14.50
Standard .....	11.50 @ 12.50
Alfalfa, No. 2 .....	10.00 @ 11.00
Alfalfa, No. 3 .....	8.00 @ 9.50
Straw .....	5.50 @ 6.00

### Seed Demand Large.

Dealers report the usual spring rush for seeds. The movement is largely by jobbers and wholesalers, and will be to sow in the next few weeks. Seeding in the South and Southwest is started.

### Feed and Seed Quotations.

Kafir \$1.46@1.48; milo maize \$1.35@1.37; barley 75c; bran \$1.10; shorts \$1.22@1.30; corn chop \$1.42; rye \$1.25.  
Seeds—Alfalfa \$12@14; clover \$13.50@15; timothy \$5.50@6.50; flax seed \$1.60@1.63; millet \$1.25@2.50.

### Butter, Eggs and Poultry.

Kansas City, Mo., Feb. 15.—Quotations follow:  
Eggs—Extras, new white wood cases included, 24c a dozen; firsts, 22c; seconds, 18c.  
Butter—Creamery, extra, 29c a pound; firsts, 27c; seconds, 25c; packing stock, 19c.  
Live Poultry—Springs, 2 to 3 pounds, 16c; hens, No. 1, 13c; No. 2, 10c; young roosters, 10c; old, 9c; turkeys, hens, 14c; young toms, 13c; old toms, 13c; ducks 14c; geese, 10c.

### Help This Man

"Cattleman," 1402 South Santa Fe street, Salina, Kan., wishes to feed cattle on shares. He has a good range, he says, and everything needed. Illness in his family has cut down this man's funds so that he cannot advertise extensively. Write to him if you need what he has to give.



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**GET your engine from an Engine Specialist, on any suitable reasonable terms, at a fair price. LOOK AT THESE NEW PRICES!**

2 H-P, \$24.95; 4 H-P, \$49.75; 6 H-P, \$97.75; 8 H-P, \$139.65; 12 H-P, \$219.90; 16 H-P, \$296.80; 22 H-P, \$399.65. Portable Engines Proportionally low.

**WITTE ENGINES, Kerosene, Distillate, Gasoline and Gas**

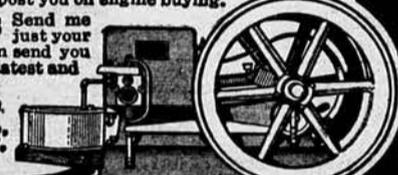
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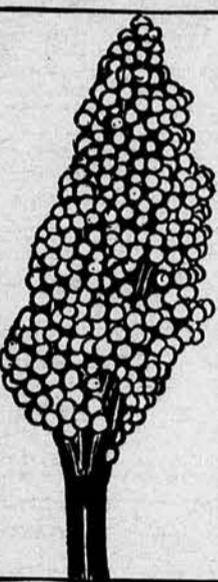
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This is a new crop. The editors of Farmers Mail and Breeze, as our readers know, are not claiming everything for it. It has not yet been sufficiently tested as to its feeding value, nor as to its adaptability to our territory. It is certain that it has great drouth-resisting qualities. It is worth experimenting with. Thousands of farmers in Kansas and the Central West are going to try it out this year on a small scale. Some farmers are very enthusiastic over it.

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## POULTRY

### PLYMOUTH ROCKS.

**BUFF ROCKS—WILLIAM A. HESS, Humboldt, Kansas.**

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

**NICELY BARRED COCKERELS, \$1.00. J. Hameril, Oak Hill, Kansas.**

**PURE WHITE ROCK COCKERELS \$1.00 each. Chris Sander, Virgil, Kan.**

**GOOD B. ROCK COCKERELS \$1.50 EACH. Edith Wright, R. 3, St. John, Kan.**

**PURE ROSE COMB BARRED ROCK COCKERELS. Write Jos. Helget, Ellis, Kan.**

**CHOICE BARRED ROCK COCKERELS AT \$1 each. Mrs. Jesse Beam, Otego, Kan.**

**WHITE ROCK COCKERELS \$2 AND UP. Mrs. E. V. Cordonnier, Wathena, Kan.**

**BARRED ROCK COCKERELS FOR SALE \$1.50 each. J. F. Padgett, Bucklin, Kan.**

**WHITE WYANDOTTE COCKERELS \$2.00 to \$5.00. Mrs. Geo. Downie, Lyndon, Kan.**

**BARRED ROCK COCKERELS—\$1.00 AND \$1.50. Mrs. D. S. Coleman, Oneida, Kan.**

**PURE BRED BARRED ROCK COCKERELS. Mrs. Alice Illian, R. 4, Lawrence, Kan.**

**BUFF ROCK COCKERELS. EGGS \$1.50, \$2.00 15. E. L. Stephens, Garden City, Kan.**

**BIG TYPE BARRED ROCK EGGS. HALF price this season. A. H. Duff, Larned, Kan.**

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**FOR FINE BARRED ROCK COCKERELS Inquire of Wm. C. Mueller, Route 4, Hanover, Kan.**

**PRIZE BARRED ROCKS. 104 PREMIUMS. Write for prices. Mrs. Chris Bearman, Ottawa, Kan.**

**IMPERIAL RINGLET BARRED ROCK COCKERELS; stock direct. Mrs. Wm. Stoll, Le Mars, Ia.**

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**BUFF ROCK AND COCHIN COCKERELS for sale cheap. First at state show. E. H. Inman, Fredonia, Kan.**

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**WHITE ROCKS, PURE BRED, FARM range. Eggs 15 75 cents; 100 \$3.00. H. F. Richter, Hillsboro, Kan., R. 3.**

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**WHITE WYANDOTTE COCKERELS \$3 each. Margaret Ribeau, Twincreek, Kan.**

**WHITE WYANDOTTE COCKERELS \$1.50 to \$2. Emma S. Arnold, Manhattan, Kan.**

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

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

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PURE BRED SINGLE COMB BUFF LEGHORNS \$1 to \$2 each. Eggs in season \$5.00 per 100. Prepaid. Mrs. F. B. Wempe, Frankfort, Kan.

BROWN LEGHORN COCKERELS, SINGLE Comb, took first wherever shown, \$3.00 each; frosted combs \$1.50. A. B. Haug, Centra, Kan.

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

FRANTZ - BRADSHAW SINGLE COMB White Leghorns. Large cockerels \$1.00. Pullets \$ .85. Silkies, pigeons. C. S. Rees, Emporia, Kan.

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

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

SINGLE COMB WHITE LEGHORN EGGS for hatching from good laying strain. Eggs 200 \$9.00; 100 \$5.00; setting \$1.00. George Nickel, Lebo, Kansas.

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

DORR'S PRIZE ROSE COMB WHITE Leghorns won over 100 ribbons. Eggs \$1.00 15; \$5.00 100. Satisfaction guaranteed. A. G. Dorr, Osage City, Kansas.

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

EGGS, EGGS, EGGS, FROM SINGLE Comb White Leghorns exclusively. \$1.00 for 15, \$2.00 50, \$5.00 100. Let me book your egg order. R. E. Davis, Holton, Kan.

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

LEGHORNS.

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

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

BAKER'S SINGLE COMB WHITE LEGHORNS. Won at the state show, Wichita, 1915, first pen, second, fourth hen, third pullet, fourth cockerel, all club ribbons but one. Eggs reasonable. Dave Baker, Conway Springs, Kansas.

GET A START IN THE BEST PAYING strain of Single Comb White Leghorns. I have them. Pedigree males mated to winter layers that lay. Order now for spring delivery. Eggs 100 \$4.00; 50 \$2.50; setting \$1.50. B. D. Allen, Inland, Neb.

TURKEYS.

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

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

Bronze Toms \$3.00; TWO FOR \$5.00. Joseph Seal, Wakefield, Kan.

MAMMOTH BRONZE TURKEY TOMS \$5. W. B. Williams, Carlton, Kan.

NARRAGANSETT TURKEY EGGS. MRS. John Mitchell, Lafontaine, Kan.

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

MAMMOTH WHITE HOLLANDS FROM prize winners. Lula Dick, Lucas, Kan.

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

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

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

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

PURE BOURBON RED TURKEYS. STANDARD size and markings. Fay Egy, Turon, Kan.

MAMMOTH WHITE HOLLAND TOMS \$4.00. 28 lb. Flat bone. Ura Randolph, Culver, Kan.

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

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

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

BOURBON RED TURKEY EGGS. Fertility guaranteed. Mrs. W. P. McFall, Pratt, Kan.

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

LARGE WHITE HOLLAND TURKEYS. Tom \$5.00. Hens \$3.50. Ed M. Conn, Osborne, Kan.

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

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

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

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

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

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

MAMMOTH WHITE HOLLAND TURKEY hens sired by 40 pound tom. W. E. Monas-smith, Formosa, Kan.

LARGE, FINE WHITE HOLLAND TOMS, four dollars; hens three dollars. G. M. Loftiss, White City, Kan.

THOROUGHBRED BOURBON RED TOMS \$4. Hens \$3. White Langshan cockerels \$1 each. Mrs. Geo. Bair, Holton, Kan.

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

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

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

CHOICE EARLY PURE BOURBON RED toms. Big boned, dark red, well marked. \$4. White Wyandotte cockerels \$1. Mrs. Oliver Butcher, Sedan, Kan.

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

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

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DARE CORNISH COCKERELS. KERR McCuggage, Douglass, Kan.

RHODE ISLAND REDS.

ROSE COMB REDS. 30 EGGS \$1.50. PAUL Grill, Ellsworth, Kan.

THOROUGHBRED R. C. R. I. RED COCKERELS \$1.00. W. W. Edson, Walker, Mo.

PURE RHODE ISLAND RED COCKERELS 75c and \$1.00. A. Sells, Maple Hill, Kan.

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

THOROUGHBRED ROSE COMB RED cockerels \$1.00. Wm. Trelber, Wamego, Kan.

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

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

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

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

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

SIX ROSE COMB RHODE ISLAND RED cockerels dollar each. M. Conklin, Washington, Kan., R. 2.

FOR SALE—WHITE RHODE ISLAND EGGS \$1.50 per 15. Harry W. Heaton, Rushcenter, Kansas.

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

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

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

STANDARD BRED R. C. RED COCKERELS. Three dollars each. Beauties. Mrs. L. J. Burckhardt, Kanopolis, Kan.

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

R. C. RED EGGS \$1.50 PER 15 FROM PEN, \$4.00 per 100 from range. Baby chicks 10 cents. Mrs. John Ogden, Derby, Kan.

ROSE COMB RED COCKERELS, HENS and pullets. Scored. Prices reasonable. Mrs. Nora Ingraham, Manhattan, Kan.

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

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

EGGS ONLY, ROSE COMB REDS. TYPICAL Red shape, deep brilliant red. High scoring, egg strain; \$1.00 up. Box 33, Whitewater, Kansas

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EGGS FROM SELECTED STOCK ACCORDING to Standard Rose Comb Rhode Island Reds; 15 \$2.30 \$3, (Shipping point Topeka.) W. M. Hixon, Berryton, Kan.

ROSE COMB REDS, BLUE RIBBON WINNERS, bred to lay. Trios \$7.50 and \$10.00, shipped on approval. Mating list free. Floyd Bloom, Shenandoah, Iowa.

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

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

THOROUGHBRED S. C. REDS. COCKERELS \$2.50. Eggs \$5.00 100 after Feb. 20. Chicks 12 1/2 each for March delivery. Satisfaction guaranteed. Minnie Horst, Wamego, Kan.

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

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

ROSE COMB RHODE ISLAND REDS EXCLUSIVELY. Rich red, velvety; Bean strain. 15 eggs \$1.00, 100 \$5.00. Satisfaction guaranteed. Mrs. Chancey Simmons, Erie, Kansas, Route 3.

36 GRAND HENS AND PULLETS IN BOTH combs, raised from state show winners, \$1.50, \$2.00 and \$3.00 each; worth double the money. A few fine cockerels left. Order today. A. M. Butler, Wichita, Kan.

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

RHODE ISLAND REDS.

S. C. REDS. MATING LISTS NOW READY. Thos. D. Troughton, Wetmore, Kan.

FOR SALE—BABY CHICKS, REDS, BOTH combs, Marshall strain. Won 3 firsts and 1 second with 4 entries at Kansas City, Jan., 1915. These chicks are from year old hens, sturdy and vigorous. Write today. C. T. Potter, Lacygne, Kan. Safe delivery guaranteed.

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

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

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

FAWN AND WHITE RUNNERS, \$1.00 each. Mrs. M. A. Easley, Exeter, Mo.

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

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

CHOICE WHITE INDIAN RUNNER drakes. Arthur Carpenter, Council Grove, Kan.

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

FAWN-WHITE RUNNER DUCKS AND drakes \$1.00 each. Gilbert Brush, Burr Oak, Kan.

WHITE INDIAN RUNNER AND ROUEN ducks. Eggs 12 for \$1.00. H. J. Byers, Homewood, Kan.

FAWN AND WHITE RUNNER DUCK eggs, 100 \$5.00, 50 \$3.00, 15 \$1.00. Stock. G. W. Skinner, Baxter Springs, Kan.

PURE WHITE RUNNER DUCKS, BUFF Orpington chickens. Fancy stock. Best breeding. Free mating list. J. Cox, R. 3, Topeka, Kan.

QUALITY FAWN AND WHITE INDIAN Runner ducks and drakes, \$1 each. Also few good Buff Orpington drakes. Mrs. H. E. Bachelder, Fredonia, Kan.

ENGLISH PENCILLED RUNNER DUCK eggs, \$1.50 and \$3.00 per 13. Won 1st drake, 1st duck at the Topeka state show. D. J. Mackey, Pittsburg, Kan.

WHITE RUNNERS, PURE BRED, WHITE egg strain. Ducks \$2.00. Drakes \$1.00. Eggs \$1.00 per 13, four settings \$3.50. Mrs. H. W. Hammond, Higgins, Tex.

FAWN - WHITE INDIAN RUNNER drakes; also pure White Runner drakes, \$1.50 each. State fair winners. Western Home Poultry Yards, St. John, Kan.

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WHITE LANGSHAN COCKERELS. EGGS in season. Mattie Rowe, Lane, Kan.

BLACK LANGSHANS AT BARGAIN prices. Martha Haynes, Grantville, Kan.

BLACK LANGSHANS. FEDERATION WINNERS. Write Mary McCaul, Elk City, Kan.

WHITE LANGSHANS. GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

LARGE BLACK LANGSHAN EGGS \$1.50 per setting. Arthur Lee, Greensburg, Kansas, R. 2.

WHITE LANGSHANS. COCKERELS, PULLETS, eggs in season. Mrs. Geo. McLain, Lane, Kan.

BLACK LANGSHAN COCKERELS AS large and black as they grow. Geo. W. Shearer, Lawrence, Kan.

BLACK LANGSHAN CHOICE COCKERELS. Satisfaction guaranteed. Eggs in season. Roy Hayes, Oberlin, Kan.

BLACK AND WHITE LANGSHANS, WINNERS at Kansas State Fair, state show, and Federation show. Choice mating. Eggs \$2.00 for 15. Range flick \$6.00 for 100. H. M. Palmer, Florence, Kan.

FOR QUICK SALE—60 THOROUGHBRED Black Langshan cockerels, weighing 8 to 10 pounds, \$2.50, \$3.00 and \$5.00. Will pay express both ways and refund money, if dissatisfied. Also a few White Langshan and Partridge Rock cockerels. Write quick. Frank A. Vopat, Lucas, Kansas.

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

LIGHT BRAHMA COCKERELS; CHOICE; \$2.50, \$2. M. Wall, Eddyville, Neb.

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

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

LIGHT BRAHMAS. 15 WON 14 PREMIUMS in Kansas state show. Cockerels, pullets and eggs. Mrs. J. R. Kenworthy, Wichita, Kansas.

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BUFF COCHIN BANTAMS \$1.25 TO \$2.00 each. Lucile Krum, Stafford, Kansas.

BLACKTAILED JAPANESE BANTAM cockerels. Wm. Wischmeier, Mayetta, Kan.

SEVERAL VARIETIES.

DUCKS, CAPONS, CHICKENS WANTED. The Cope's, Topeka.

WHITE ROCKS, BUFF DUCKS, BOURBON Red turkeys. Mrs. Chas. Snyder, Effingham, Kan.

FOR SALE—WHITE RUNNER DUCKS, Buff Orpington cockerels. Katie Lusk, Plains, Kan.

MAMMOTH BRONZE TURKEYS. WHITE Wyandotte cockerels. Alex Thomason, Havana, Kan.

WHITE LEGHORNS, WHITE RUNNER ducks. Eggs. Snyder's Little Diamond Farm, Topeka, Kan.

BLACK LANGSHAN COCKERELS, WHITE Runner ducks for sale. Eggs. H. H. Tilpison, Latham, Kan.

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45 GOLDEN WYANDOTTE AND PART-ridge Rock cockerels and pullets. Bargain prices. C. E. Florence, Eldorado, Kan.

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BARRED ROCK COCKERELS, LATHEN strain. \$1.00 each. Fawn and White Indian Runner drakes 75c each. Florence Edwards, Newkirk, Okla.

S. C. WHITE LEGHORNS (FERRIS & Young strain). Winners and high scoring birds. Closing out. Few fawn white ducks. F. E. Fisher, Wilson, Kan.

FAWN-WHITE RUNNER DUCKS AND drakes, white egg strain, \$1.00 each. S. C. W. Leghorn eggs \$5.00 per 100. Mrs. J. C. Jewell, Valley Center, Kan.

FINE BIG BONED WHITE HOLLAND toms \$5. White Wyandottes \$1 each. Eggs in season, reasonable prices. B. B. Kemper, Mountain Grove, Missouri.

BOURBON RED TURKEYS. WORLD'S best strain. Great big, vigorous, farm raised, deep breasted birds. Also white egg Indian Runners. These are from prize winning stock. Eleonora Poultry Ranch, Brighton, Colo.

FOR SALE—THOROUGHbred RANGE raised mammoth W. H. turkeys. Hens \$3.50. Toms \$5.00 each. Also a choice lot of Single Comb Brown Leghorn cockerels, \$1.00 each. Mrs. C. May, Garfield, Kan.

ROSE COMB REDS, NO. 1 STOCK. 100 eggs \$4.00. Pen eggs, \$1.00 15. Barred Rock No. 1 stock. 100 eggs \$4.00. Pen eggs, \$1.00 15. Fishel strain White Indian Runner ducks. Eggs, \$6.00 100; \$1.00 15. Latham Poultry Farm, James A. Harris, Latham, Kan. Satisfaction guaranteed.

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THOROUGHbred TOULOUSE GEESSE \$4.00 pair. Eggs in season \$2.00 per doz. Mrs. J. H. Sides, Blanket, Tex.

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WHITE FACE BLACK SPANISH COCKERELS for sale. A. W. Swan, Centralia, Kansas.

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BLUE ANDALUSIAN EGGS \$2.00 PER setting or \$12.25 a hundred. A. A. Neufeld, Route 4, Inman, Kan.

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BABY CHICKS (SEPARATE FARMS) Rose and Single Comb White Leghorns, Barred Rocks, Reds, 1 1/2 cents. Live delivery guaranteed. Mrs. Alfred Young, Wakefield, Kansas.

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ANCONA EGGS FOR HATCHING. 15 \$1.00. 100 \$5.00. Lucie House, Haven, Kan.

ANCONA EGGS FOR HATCHING. 15 \$1.00. 100 \$5.00. M. Hampton, Bronson, Kan.

ANCONA EGGS, 100 \$5.00, 50 \$3.00, 15 \$1.00. Stock. G. W. Skinner, Baxter Springs, Kan.

ANCONA EGGS \$1.00 TO \$5.00 PER 15. Won 1st cockerel, 3rd pullet at the Topeka State show. D. J. Mackey, Pittsburg, Kan.

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SHETLAND PONIES. CHARLES CLEMMONS, Coffeyville, Kan.

STANDARD BRED STALLIONS FOR SALE right. D. H. Bibens, Larned, Kan.

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PEDIGREED DUROC BOARS FOUR months old, weight 120 lbs., \$12.50. Gilts two months, \$10.00. Prize winning S. C. B. Minorca eggs \$2 setting. A. V. Balch, Morfittton, Ark.

FOR SALE, AT A BARGAIN, ONE Percheron stallion "grade," weight eighteen hundred and excellent breeder; six years old; color black. H. B. Humble, Sawyer, Kansas.

REGISTERED FRENCH DRAFT STALLION. In ton class, sound, sure foal getter, and good server, six years old, good disposition. For sale cheap or exchange for automobile. A. V. Lock, Burlington, Kan.

WILL SELL THREE REGISTERED JERSEY heifers, fresh soon; one out of 61 pound dam; also bull calf out of 500 pound dam, sire out of 50 pound dam. Choice stuff. No disease. W. W. Patterson, Bronson, Kan.

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FOR SALE—500 TONS OF HAY; CORN, kafir corn and cane seed. Ask for prices. A. M. Brandt, Severy, Kan.

SEED CORN—HILDRETH YELLOW DENT \$2.50. Pure rust proof Texas oats 75c bushel. C. E. Hildreth, Altamont, Kan.

SHAWNEE WHITE SEED CORN. Shelled, graded and sacked, \$1.60 per bu. Sure and heavy yielder. J. A. Ostrand, Elmont, Kan.

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SEED CORN—IMPROVED, HIGH YIELDING strains—direct from grower to you. Same great corn that was so much in demand two years ago, following special descriptive article in Mail and Breeze. It's truly a great corn. Write for particulars. Bristow Seed Corn Farm, Wetmore, Kansas.

FANCY SWEET CLOVER SEED—PURE white, hulled, re-cleaned; fourteen dollars per bushel F. O. B. J. F. Sellers, Florence, Kan.

SWEET CLOVER SEED. PURE WHITE blossom variety. Hulled and re-cleaned. New seed. \$14 a bu., sacks free. Geo. Blingham, Bradford, Kan.

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FETERITA SEED FOR SALE, \$1.75 PER bu., for fine quality seed. Mrs. Lora Snodgrass, Augusta, Kan., R. 2.

10 ELBERTA AND 5 CHAMPION PEACH trees for 95c, by parcel post prepaid. Wellington Nurseries, Box B, Wellington, Kan.

PEACH TREES 2C. APPLE TREES 4 1/2 C. Get our free catalogue. Salesman wanted in Okla., Ark., Kansas and Mo. Home Nursery Co., Fayetteville, Ark.

PURE SUDAN GRASS SEED. GUARANTEED free from Johnson grass. 50c per lb. W. R. Mitchell, Verden, Okla.

SUDAN, GUARANTEED FREE FROM Johnson grass, 5 to 10 pounds 40c pound. Charlie Clemmons, Verden, Okla.

SUDAN GRASS AS GOOD AS THE BEST, 45 cts. per lb., this station, sacks free. W. A. Beaumont, El Dorado, Kansas.

SUDAN GRASS SEED, GUARANTEED free from Johnson grass, 50 cents per pound. Walter Jenkinson, Pond Creek, Okla.

SUDAN GRASS—KANSAS GROWN. GUARANTEED free from Johnson grass. Officially inspected and approved. Wilson G. Shelley, McPherson, Kan.

BE UP-TO-DATE. GROW SUDAN GRASS hay for livestock. Guaranteed seed. Reasonable prices. Responsible growers. Denton County Experiment Association, Krum, Tex.

SUDAN GRASS SEED—OFFICIALLY INSPECTED and approved. All about it—and purity guaranteed with every sale. 50c lb., 10 lbs. \$4.25 prepaid. Weight 48 lbs. per bu.—Not 32-lb. kind. C. E. White Seed Co., Plainview, Texas.

TWO CARS CANE SEED FOR SALE. Geo. H. Tate, Lakin, Kan.

FOR SALE—BLACK AMBER CANE SEED \$1.00 per bushel; baled prairie hay. Fetterich, Altamont Kan.

ALFALFA SEED, DELIVERED, \$9.50 bushel. J. Glenn, Wallace, Kan.

ALFALFA SEED, \$9, SACKED, SAMPLE sent. Will Cullins, Peabody, Kan.

CHOICE NONIRRIGATED ALFALFA SEED 14 cts. per lb. Wallace Libbey, Larned, Kan.

WE WANT ANY PART OF CAR LOAD OF good alfalfa seed. Send samples and price. Brooks Wholesale Co., Ft. Scott, Kan.

ALFALFA SEED—WESTERN KANSAS dry land alfalfa seed for sale. Samples and prices on application. P. O. Box 276. D. O. Chessmore, Atwood, Kan.

ALFALFA SEED—GOOD HOME GROWN, non-irrigated alfalfa seed for sale as follows: \$9.00, \$8.00, \$6.00 bu. All Winona. Sacks 25c ex. All orders filled promptly. Sample sent on request. L. A. Jordan Seed Co., Winona, Kan.

ALFALFA SEED—HOME GROWN, RE-cleaned, non-irrigated alfalfa seed \$8.40, \$9.00, \$9.60 per bushel our track. Seamless bags 25c each. No obnoxious weed seeds in this section. Samples on request. The L. C. Adam Mercantile Co., Cedar Vale, Kan.

KAFFIR—BLACKHULL WHITE KAFFIR, threshed, graded, 5 cts. per lb. G. W. Mitchell, R. 2, Moore, Okla.

E. H. FISHER, ELKHART, KAN., BUYER and shipper of grain and seeds. Maise, kafir, feterita, and cane seed in car lots are less.

DWARF BLACKHULL KAFFIR SEED, RE-cleaned and graded, \$2.00 per hundred pounds; sacks free. C. P. Putnam, Emporia, Kan.

WHITE BLACK HULLED AFRICAN kafir, won first prizes at southwestern and state fairs, \$2.50 per bu. Louis Bauersfeld, Liberal, Kan.

AFRICAN KAFFIR SEED—I HAVE SOME excellent seed grown from that which I imported last year direct from South Africa, the sure-crop early maturing kind. This was of medium height. I can guarantee that there was none of the tall nor short varieties grew in this. Discard your mixed, late-maturing seed and secure this pure strain which produces most seed and best fodder. There is not much that is not mixed, so write early for samples and prices. Asher Adams, Osage City, Kansas.

LANDS

BUY SUMNER COUNTY, KANSAS FARMS. H. H. Stewart, Wellington, Kansas.

120 CLOUD COUNTY IMPROVED, GROWING wheat, \$5400.00. 1315 Lincoln, Topeka, Kan.

CALIFORNIA ORANGE AND OLIVE LAND for sale. Lineker Land Co., Palermo, California.

DICKINSON COUNTY FARMS, TOWN properties, business chances. Ray E. Corbin, Enterprise, Kan.

ON THE BARGAIN COUNTER—GOOD prairie farm near town, for quick sale. Address Box 138, Morrison, Okla.

RICE COUNTY 150 ACRES, WELL IMPROVED, rich soil. Bargain, \$10,500, \$3,000 cash. Box 33, Whitewater, Kansas.

WE ARE MAKING EXCHANGES. Describe what you have and want. Co-operative Real Estate Exchange, Marlon, Kan.

160 ACRES OF THE BEST IMPROVED land in Reno county for sale at \$62.50 per acre. Easy terms. A. H. Moffet, Larned, Kan.

SELL YOUR PROPERTY QUICKLY FOR cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 6, Lincoln, Neb.

354 A. PAWNEE CO. \$40.00 PER A. Fourth cash, balance half the crop each year until paid, at 6 per cent interest. Box 182, Spearville, Kansas.

FOR SALE: ONE HALF-SECTION, ONE quarter and one 80 near good town with two railroads. For particulars, write Henry Klummann, Cuba, Kan.

FOR SALE OR RENT—640 ACRES WELL improved, 265 acres under plow, balance pasture and hay; good smooth land Charles Wilks, 312 East 12, Emporia, Kan.

FOR SALE—80 A'S FOUR MILES FROM Abilene, Kan. Well improved. 160 a's near two good towns, unimproved. Write for particulars. Geo. Roggendorff, Carlton, Kan.

FREE GOVERNMENT LAND FOR FARMERS in prosperous Colorado. Where it is, how to get it. Write for official information immediately. Immigration Dept., 1515 Tremont, Denver, Colo.

FREE GOVERNMENT LAND. 800,000 acres in Arkansas now open to entry. Guide Book with list, laws, etc., 25c. Township map of state 25c additional. L. E. Moore, Little Rock, Ark.

BIG MONEY IN SOUTH MISSOURI LAND. 20 acres \$400. \$5 monthly; 40 acres \$700; 80 acres \$1200. Others are making money. Why not you? Literature, maps free. A. Merriam, Ellis & Benton, Kansas City, Kansas.

PRODUCTIVE LANDS; CROP PAYMENT or easy terms along the Northern Pac. Ry. in Minn., N. D., Mont., Idaho, Wash. and Ore. Free literature. Say what state interests you. L. J. Bricker, 46 Northern Pac. Ry., St. Paul, Minn.

173 ACRES, FRANKLIN COUNTY; ALL cleared; 4 miles from good town; Kansas City 68 miles; 75 acres in corn and alfalfa; good 6 room house; other improvements poor; \$40 per acre; no exchange. Daniel Bontecou, Gashland, Mo.

FOR SALE—IMPROVED 80 ACRES IN Howell Co., Mo. Close to school and church; valley land with good spring on it; 12 ml. from R. R. town, 3 ml. to trading point. Price \$1250.00; terms. R. L. Lantz, owner, Cottonwood Falls, Kan.

FOR SALE OR RENT—40 ACRES, 3 MILES from Carbondale, Kan.; 30 under cultivation, balance pasture and little timber on creek; 2-room house, barn, cow lot, chicken house and corn crib; 1 mile to good school; 3 to church and store; fine neighborhood. Am a widow and must sell or rent quick. Bargain. Mrs. Rachel Layman, Carbondale, Osage Co., Kan.

155 ACRES 60 ACRES IN CULTIVATION; 80 acres more can be cultivated; nice timber; cistern, well and pond; one good two room house and 2 room tenant house, fair barn; 1 mile to school and church; 1 1/2 miles to Calico Rock; a nice farm. Price \$12.00 per acre. Large free list. W. J. Copp, Calico Rock, Ark.

HOMESTEADS—GOVERNMENT LAND IN California—take advantage of low fares—see Exposition during the winter—it opens Feb. 26—secure a homestead. Good land still open. Twenty million acres to choose from. We give information about best homesteads. Maps showing vacant land, description of laws, land, etc., cost \$2.50. Stine & Kendrick, 36 Montgomery St., San Francisco.

240 ACRE FARM AT PUBLIC AUCTION. Friday, February 26th, at 2 p. m., the Levering farm 6 miles south of Burlington, Kansas, will be sold to highest bidder. This farm is well improved and an extra good stock farm with barns 48x60 and 32x52, 4 room house, plenty of good well water. 90 a. prairie hay; 90 a. in cultivation; 40 a. in pasture; 10 a. in timber and 10 a. young orchard. Will be sold to settle estate. D. L. Levering, Burlington, Kan.

THE HOYT STATE BANK OF HOYT, Kan., has 2 fine 1/2 sections of Texas land they will sell at a great bargain. Both well improved and laying side by side. Level. Thousands of water near surface. Every foot of this land can be irrigated. In the noted shallow water belt of Texas. Irrigation a great success here. 3 miles to town and R. R. station. Country settled. No asthma, catarrh or malaria. Irrigated land selling for \$50 to \$70. This can be bought at \$30 per acre. Easy terms. Write Hoyt State Bank, Hoyt, Kansas, or phone 3695 Topeka.

LYON COUNTY PROVED HER SUPREMACY in alfalfa by winning first prize at the International Soil Products Exposition, at Wichita, Kan., October 7-17, 1914. There were twenty-five Kansas counties, seven states and six foreign countries in this contest. Lyon county won sweepstake display on alfalfa, first prize on single bale, first prize on single sheaf, and second prize on display of three sheaves. These farmers are selling this splendid feed direct to the farmers. Write for prices. Also alfalfa seed. The Lyon County Farmers' Produce Association, Anton Ptacek, Manager, Emporia, Kan.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from fine school, fine old shade, park like surroundings, lot 6 1/4 by 205 feet, eight room house, modern in every detail, hardwood finish, four fine mantels and grates, of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses, etc., etc. Fine place for farmer who wants to move to the capital city. Price \$5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E. care Mail and Breeze.

LUMBER.

LUMBER—HOUSE AND BARN BILLS DIRECT from mill to consumer. Wholesale price. Shipped anywhere. McKee Lumber Co., Shawnee, Okla.

1915—LUMBER! BUY IT RIGHT! WE'LL save you big money. Farmer's trade specialty. The mill direct to you. Think of it. No. 1 dimension \$10 plus freight. We require no payment until material is loaded and proven satisfactory. Send bill now, for estimate. Local Lumber Company, Tacoma, Washington.

FARMS WANTED

WANT FARM-STOCK OR GRAIN RENT. B. Daily Blade, Concordia, Kan.

BUSINESS BUILDINGS, RENT \$780.00. Equity \$4,000. Want land for equity. Box 28, Mound Valley, Kan.

WANTED-TO HEAR FROM OWNER OF good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

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

WANTED-FARM FOR GRAIN RENT; 80 to 160 acres; good improvements, or owner furnish tools and stock on shares. Best reference. Want possession in March. Address R. A. Schumacher, Abbyville, Kan.

FARMS WANTED. WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

WANTED, ON SHARES, A FARM IN KANSAS or Missouri, stocked and equipped, by two young married farmers, honest, sober and industrious. Gilt edge references. Would welcome advice and co-operation of owner. Address Rupard & Maddox, Miami, Okla., Box 645.

SILOS

WE WANT AGENTS TO SELL OUR steel silo fixtures. Sixty-ton silo \$75. The original flooring silo. In use in fourteen states. Liberal commissions. Get booklet with testimonials. Bonita Farm, Raymore, Mo.

FOR SALE

SCOTCH COLLIES. WESTERN HOME Kennels, St. John, Kan.

HEDGE POSTS FOR SALE IN CAR LOTS. W. H. Blitts, Melvern, Kan.

HEDGE POSTS FOR SALE IN CAR LOTS. H. W. Porth, Winfield, Kan.

FOX TERRIERS-GOOD RATTERS. WEST-ern Home Kennels, St. John, Kan.

FOR SALE-GASOLINE ENGINE AND grinder. J. E. Peters, Medora, Kan.

DOGS-WHITE SPITZ PUPPIES, BEAU-ties. Special. Sunnyside Farm, Havens-ville, Kan.

BELGIAN HARES-RUFUS REDS, FLEM-ish Giants, Golden Fawns. L. V. Carr, Garden City, Kan.

FOR SALE CHEAP-1 NEW 12 FOOT backgeared wind mill. Wm. Bloss, Route 2, Hutchinson, Kan.

BALED ALFALFA, PRAIRIE AND BOT-tom hay, kafir corn and feterita. A. B. Hall, Emporia, Kan.

FOR SALE-SPANISH PEANUTS, WELL matured, five cents pound. Large quan-tities cheaper. John W. Burkes, Allene, Okla.

CALIFORNIA HONEY DIRECT FROM THE producer. Light amber \$7.00, amber \$6.00 per case containing two 60 lb. cans. L. D. Miller, Kerman, Calif.

FOR SALE-GOOD STOCK OF HARD-ware in town of twelve hundred. Good surrounding country. Best business in town. J. H. Jarnagin, Humansville, Mo.

BELGIAN HARES-FULLY MATURED bred does. Gray Belgians \$1.50, Rufus Reds \$2.50, Gray bucks \$1.25, Reds \$3.00. W. G. Thorson, Aurora, Colorado.

CREAM AND POULTRY BUSINESS FOR sale, two buildings, one new and fenced in yard. Other agencies in connection. Doing fair business, no competition. Good reason for selling. Price \$200.00. Address Box 101, Bloom, Kan.

FOR SALE-THE STOCK, TOOLS, AND machinery, on a good stock farm and dairy farm. The farm for sale, or will rent for a term of years. For further particulars call on or write J. W. Sutherland, 509 Ohio street, Neodesha, Kansas.

WE CAN SUPPLY YOU WITH PRAIRIE hay, can ship from three to five cars per week. Have both number one and number two. If you are needing hay come and see us. Also have a limited amount of alfalfa hay. Bradford & Hathaway, Olpe, Kan., Lyon Co.

EXTRAORDINARILY GOOD CANE SYRUP, made from the juice of pure Ribbon cane. Contains all sugars and no chemicals. Es-pecial care given to cooking and skimming, which guards against summer fermentation. Prices free. Sample can 10c. Telmah's Plantations Mills, Houston, Texas.

ONE PICTURE SHOW, AIR DOME LO-cated on Main street. Edison machine, regulation booth, sixty benches, one stage. Three drops, compensark, built at cost of fifteen hundred dollars. Must sell and will take three hundred and fifty dollars, for the entire outfit. Write Whan Trading Co., Marysville, Kan.

FOR SALE OR TRADE

MODERN RESIDENCE IN HUTCHINSON to trade for farm. Percy Lill, Mt. Hope, Kan.

CLEAR INCOME PROPERTY FOR FARM, value about \$10,000. Owner 68, Strong, Kan.

FOR SALE OR TRADE. ONE 70-35 AVERY tractor and 5 bottom plow. Mrs. W. B. Ward, Coldwater, Kan.

EXCHANGE-NICE COTTAGE AND NEW piano for workhorses or milk cows. J. D. Proffitt, Independence, Mo.

FOR SALE OR EXCHANGE-IMPROVED 220 acre farm 1/2 mile from Santa Fe station. B. F. Moore, Emporia, Kan., R. 5.

FOR SALE OR TRADE-TWENTY HORSE-power Studebaker roadster auto, 1912 model, good condition, fully equipped, for 4500 good hedge posts. Address Studebaker Auto, care Farmers Mail and Breeze.

HOTEL FURNITURE FOR SALE OR trade. As I am a professional ball player, having signed with the Ft. Worth club in the Texas league, and will leave to report for spring training shortly, I am desirous of selling or trading my hotel fixtures. Only first class hotel in the town, 1800 pop. 32 all outside bed rooms, hot and cold water, electric lighted. Everything is in first class condition. Will sell or trade for town property or small farm in close, something that will rent. If you are looking for a hotel, investigate. Write me, and I will give you full information. Long lease and cheap rent. If hotel is not as I have advertised, will be responsible for expenses. Bullet Fleharty, Prop., Dawson Hotel, Afton, Okla.

MALE HELP WANTED

GOVERNMENT FARMERS WANTED, AGE 21 to 50. Make \$125 monthly. Write, Ozment, (38 F) St. Louis.

GOVERNMENT WANTS CLERKS. \$70 month. Spring examinations everywhere. Sample questions free. Franklin Institute, Dept. R 51, Rochester, N. Y.

I CONDUCTED GOVERNMENT EXAM-inations-can help you secure railway mail or other government positions. Trial examination free. Ozment, (38 F) St. Louis.

FIREMEN AND BRAKEMEN; \$100 monthly; experience unnecessary; hun-dreds needed by the best railroads every-where; particulars free. 796 Railway Bureau, East St. Louis, Ill.

SALESMEN WANTED FOR FULL LINE fruit and ornamental trees. No experience necessary. Full or part time as you prefer. Prompt pay each week. The Lawrence Nur-series, Lawrence, Kansas.

MALE HELP WANTED-LIVE YOUNG farmers or country school teachers in spare time can make \$10 to \$25 a week sell-ing our Farm Record and Account Book. Every farmer needs one. Nothing like it. Southern Printing Co., Perry, Okla.

WANT CAPABLE MAN, INVEST \$5000.00, take charge improved irrigated alfalfa ranch, near railroad town, western Kansas; ample feed and pasture. Intend build dairy barns, silos, and buy herd milk cows. Fine proposition. K., care Mail and Breeze.

HELP WANTED

CHRISTIAN HELPERS WANTED. MODEL colony. Farming. Jno. Marriage, Mullin-ville, Kan.

BE A DETECTIVE. EARN \$150 TO \$300 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

WANTED-MEN-WOMEN-GOVERN-ment jobs. \$70 month. Write immediately for list of positions now obtainable. Frank-lin Institute, Dept. R 51, Rochester, N. Y.

MOTORMEN-CONDUCTORS; INTERUR-ban; earn \$80 monthly; experience un-necessary; qualify now; state age; details free. Electric, Dept. 812, Syndicate Trust, St. Louis, Mo.

THOUSANDS GOVERNMENT LIFE JOBS now obtainable. \$65 to \$150 month. Vacan-tions with full pay. No layoffs. Short hours. Common education sufficient. "Pull" un-necessary. Thousands 1915 appointments. Write immediately for free list of positions now obtainable. Franklin Institute, Dept R 51, Rochester, N. Y.

MISCELLANEOUS

20 POSTCARDS TEN CENTS. HARRY Hockman, Beattie, Kan.

BED BUG EXTERMINATOR RECIPE 25c silver. Address 300 West South St., Dwight, Ill.

QUICK CASH FOR PROPERTY. SPECIAL terms to owners. Dept. F, Co-operative Salesman Co., Lincoln, Neb.

PRINTING-500 LETTER HEADS \$1.65. 500 envelopes \$1.50. 5000 noteheds \$6.50. Publishing Co., Gypsum, Kansas.

WE GUARANTEE TO CURE HEAVES IN stock or refund your money. For particu-lars address, Balrd Mfg. Co., Dept. C, Pur-cell, Okla.

MUSIC LOVERS. POPULAR SHEET music at 5c a sheet. Send dime for two samples. Ecille Novelite Music, 776 Gibraltar Bldg., K. C., Mo.

THE BENNETT TYPEWRITER. NO RE-built junk, but new and guaranteed. Price \$18.00 express prepaid. Send today for de-scriptive literature and trial offer. Boyero Specialty Co., Distributors, Boyero, Colo.

BIG BARGAIN FOR SHORT TIME ONLY. Send only 10 cents and receive the great-est 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.

A MILLION DOLLAR BOOK. IF WE CAN get ten thousand farmers to read the Equity Text Book, they will join the Equity Union and we will save them one million dollars per year as we are doing for our present membership. Send fourteen two cent stamps to The Equity Union, Greenville, Ill., for the book and read carefully our plan of co-operation which holds ten thousand farm-ers together in a business union. C. O. Drayton, Greenville, Ill.

The Lawmakers

(Continued from Page 6.)

prevailing where the mortgaged prop-erty is situated.

A widow sold her farm to meet some obligations, taking back a mortgage for two-thirds its value at 6 per cent. She found the taxes on her mortgage would be \$180 in the town where she lived. As she was already paying taxes on her home, she felt the situation was most unjust, the taxes on the entire farm never having exceeded \$70. So she sold her house and moved to another state, avoiding the \$180 tax entirely—quite an item considering her meager income.

No wonder big enterprises go east for more favorable laws. Why not give local capital an even chance with that of New Jersey?

"But," some say, "if all parties are benefited, who will make up the deficit? Surely eastern companies would demand higher rates."

Perhaps so. The borrower would at least have the opportunity to seek his money in the cheapest market; local capital perhaps would be sufficient to keep rates reasonable, and the borrower would know he was getting a square deal.

Or perhaps the burden would fall a little heavier on that rare individual who owns his farm, livestock and equipment without indebtedness.

But if Mr. Poorman would have to pay it anyway in the end, why continue a system that has every appearance of discrimination against him? If he is getting a square deal lead him out into the light so he will know it, and not be tormented by the evil shadows about him? W. A. Ward.

House Bill No. 603 to which Mr. Ward refers was reported back to the house without recommendation by the com-mittee on assessment and taxation of which Jasper T. Kincaid is chairman.

Usually this lessens a bill's chances of passing. It means, often, that the com-mittee doesn't care to report unfavor-ably and still doesn't think enough of a bill to sign a report likely to aid in passing it. This is the important part of the bill in question; if you like it you ought to urge your representative to vote for it:

Section 1. A mortgage, deed of trust, con-tract, or other obligation by which a debt is secured, shall, for the purposes of assess-ment and taxation, be deemed and treated as an interest in the property affected thereby, except as to railroad and other quasi-public corporations. In case of debts so secured, the value of the property af-fected by such mortgage, deed of trust,

OILS

BEST AUTOMOBILE ENGINE, CYLINDER oils, greases, crude dip, kerosene, etc. Save money by writing for price list. Neosho Val-ley Oil Co., L. J. Hurt, Mgr., Station "E," Kansas City, Mo.

AGENTS

YOUNG MAN, WOULD YOU ACCEPT A tailor-made suit just for showing it to your friends? Then write Banner Tailoring Co., Dept. 978, Chicago, and get beautiful samples, styles and a wonderful offer.

AGENTS MAKE \$5000 THIS YEAR. BE your own boss-independent-abundant money-your time your own. All or spare time-at home or traveling. Write E. M. Feltman, Sales Mgr., 521 Third St., Cincin-nati, O., today for full particulars.

BILLY SUNDAY'S MESSAGE. AUTHO-rized. Great opportunity for man or woman to make \$6.00 to \$15.00 a day. Unusually liberal terms. Spare time may be used. Par-ticulars and samples free. Universal Bible House, 557 Winston Bldg., Philadelphia.

PATENTS

SEND FOR FREE BOOKLET, ALL ABOUT Patents and Their Cost, Shepherd & Camp-bell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C.

PATENTS THAT PAY. \$600,000 MADE BY clients. 2 wonderful Guide Books free. Send model for free search. E. E. Vrooman & Co., 385 F., Washington, D. C.

PATENT WHAT YOU INVENT. IT MAY be valuable. Write me. No attorney's fee until patent is allowed. Estab. 1882. "In-ventor's Guide" free. Franklin H. Hough, 532 Loan & Trust Bldg., Washington, D. C.

IDEAS WANTED-MANUFACTURERS ARE writing for patents procured through me. Three books with list 200 inventions wanted sent free. Advice free. I get patent or no fee. R. B. Owen, 84 Owen Bldg., Washing-ton, D. C.

MEN OF IDEAS AND INVENTIVE ABIL-ity should write for new "List of Needed Inventions." Patent Buyers and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

contract, or obligation, less the value of such security shall be assessed and taxed to the owner of the property, and the value of such security shall be assessed and taxed to the owner thereof, in the county, city or district in which the property affected thereby is situated. The taxes so levied shall be a lien upon the property and se-curity, and may be paid by either party to such security; if paid by the owner of the security, the tax so levied upon the property affected thereby shall become a part of the debt so secured. If the owner of the property shall pay the tax so levied on such security, it shall constitute a pay-ment, a full discharge thereof. If any such security or indebtedness shall be paid by any such debtor or debtors after assess-ment, and before the tax levy, the amount of such levy may likewise be retained by such debtor or debtors and shall be com-puted according to the tax levy for the pre-ceding year.

Every land owner in the state ought to think about this kind.

Cheaper Money For Farmers.

One of the tasks to which the present legislature is seriously addressing itself is the problem of obtaining cheaper money for farmers. A joint committee of the two houses, headed by Senator J. D. Joseph, a banker of Butler county, has been appointed by the committees on taxation and assessment of the senate and house. The matter of cheaper money for the farmers was one of the important subjects discussed by Gov-ernor Capper in his message to the legis-lature.

Loans at 5 Per Cent.

Five per cent money for the farmers is planned in a bill which Senator Ben S. Paulen of Wilson county has intro-duced. The Paulen bill adopts some of the principles of the European form of land loans, the state lending money to the farmers at 5 per cent, and issuing state bonds, backed by a trust deed given by the land owner. These state bonds in turn are to be sold to small investors. Under the Paulen bill the state will establish a loan bureau in every county, where the farmer will file his abstract of title and execute a deed of trust to the state as security for his loan.

For Stronger Kansas Children.

The bureau of child hygiene bill was recommended for passage unanimously by the house committee of the whole. The only voice raised against the bill was that of H. Llewellyn Jones of Meade, who tried to place the control of the new bureau under the board of health instead of under the secretary of the board.

For State Fire Insurance.

A bill for state fire and tornado in-surance has been introduced by Senator Jonathan M. Davis of Bourbon county. The Davis bill is designed to give the residents of Kansas insurance against fire, lightning, windstorm and tornado at actual cost.

To Aid in Irrigation.

An appropriation of \$10,000 to build an irrigation dam across the Walnut river, between 15 and 20 miles north-west of Ness City, is asked in a bill introduced in the house by J. C. Hopper.

Ross Saved the Money.

George B. Ross of Rice has introduced his first bill of the 1915 session in the house. Ross has been trying to go through the session without introducing a bill, but he broke over and introduced a financial measure.

Incidentally, Ross's bill is the first one pertaining to finance introduced in either house this year that provides for turning money into the state treasury, instead of appropriating it out. As state grain inspector, Ross has accumulated a little more than \$15,000 in the grain department revolving fund. It isn't needed there, Ross says, and he intro-duced a bill authorizing the state grain inspector, which is Ross, to turn that \$15,000 into the general revenue fund. As a general rule the legislature has been called upon to make a deficiency appropriation instead of receiving a cash bonus from the grain inspection depart-ment.

Shorthorn Breeders To Meet

There will be a meeting of the Okla-homa Shorthorn Breeders' association at the Chamber of Commerce in Oklahoma City at 8 o'clock the evening of Febru-ary 24. The president of the associa-tion, H. C. Lookabaugh invites all live-stock breeders to attend this meeting.

When you put on your overcoat pre-paratorily to a drive, let the act remind you to be sure to put into the vehicle a warm blanket for your horse.

# BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

## Special Notice

All advertising copy, discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

**A GOOD** improved 160 at \$50 per acre. Write Decker & Booth, Valley Falls, Kan.

**REAL ESTATE MEN**, write for special land deal. Lock Box 166, Syracuse, Kan.

**ALLEN CO. FARMS** at owners' prices. Write for lists. R. L. Thompson, Iola, Kan.

**ALFALFA** land, Sedgwick Co. Write for price list. G. R. Davis, Valley Center, Kan.

**160 A.** mostly wheat; 1/2 crop follows. McPherson Co. A. Monson, Lindsay, Kan.

**80 ACRES**, rich soil, well located, dandy home. \$5500. Fouquet Inv. Co., Andale, Kas.

**BOTTOM** farms on interurban, 20 mi. Wichita. Write Harding Bros., Sedgwick, Kan.

**\$2700** for fine 80. enc. \$700, or will trade for more. Bowman Realty Co., Coffeyville, Kas.

**NORTHEAST** Kansas farm bargains. Write for list. Compton & Royer, Valley Falls, Kas.

**LAND** in Nemaha, Marshall, Pottawatomie Cos. \$30 and up. T. E. Rooney, Seneca, Kan.

**FARMS** and ranches, northeast Kansas. \$25 to \$125 acre. Geo. Lock, Marysville, Kan.

**IMP. FARM** Pottawatomie Co. \$35 per a. Write Mr. O. H. Martin, Severy, Kansas.

**FREE!** Illustrated booklet describing richest Co. in Kan. Hoesy Land Co., Columbus, Kas.

**240 A.** finest Kaw Valley bottom land, imp. Easy terms. J. M. Conlan, St. Marys, Kan.

**A BARGAIN.** 480 a. close in; good land, imp. Terms. J. F. Varan, Belpre, Kan.

**FOR SALE.** Land in Seward, Stevens, Grant and Haskell counties. Cash or easy payments. C. W. Ellisasser, Liberal, Kan.

**ITS \$6400.** Impr. 160 a. bottom, 5 1/2 mi. Mound Valley. Some alfalfa, 120 cult. Terms. J. P. Donahue, Mound Valley, Kan.

**FREE LISTS** of Ness County grain, stock and alfalfa land. Fine land at \$10 to \$15 per a. Easy terms. West, Ransom, Kan.

**COFFEY COUNTY, EASTERN KANSAS.** Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Kas.

**TWO** Lyon County bargains, best of alfalfa land, easy terms. Possession March 1st. Write for description. Box 104, Allen, Kan.

**MUST** sell three well improved Kansas farms before March 1st. Get descriptions, locations, prices. Melvin Smeltz, Durham, Kan.

**960 ACRE ALFALFA FARM** for sale; new house and barn; 80 a. alfalfa, creek of living water; 4 mi. to railroad town. Price \$15. A. W. Baxton, Utica, Kan.

**TO RENT.** 1600 a. in body, Lane Co. 80 acres alfalfa land, part seeded; 4 room house. Water on nearly every quarter. Long lease; low rent. Address "Bargains," care Farmers Mail and Breeze, Topeka, Kan.

**GOVE CO., KAN., RANCH** bargain. 480 a. House and other outbuildings; fine natural grove, large trees, water. Part good alfalfa land. To close estate, part cash, balance long time. Very low price. "Bargains," care Farmers Mail and Breeze, Topeka.

**FOR BARGAINS** in improved farms in Catholic settlements. Exchanges made. Write Frank Kratzberg, Jr., Greeley, Kansas.

**HARPER COUNTY, Kansas.** First class land. \$35 to \$45 per acre. Write us now. J. E. Couch Land Co., Anthony, Kansas.

**GOOD**, smooth wheat and alfalfa lands at \$15 to \$25 per acre. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kansas.

**200 ACRES** bottom, 2 miles town, good improvements, timber, alfalfa, plenty of good water. \$195 acre. Brandt Land Co., Salina, Kansas.

**FOR SALE.** Ideal home in Wichita. Are you looking for a home? This will suit you, so will the terms. Owner has left state and wants to dispose of this place. Address Box 76, Dodge City, Kansas.

**FOR SALE.** 640 acres improved ranch. 120 a. cultivation, bal. pasture. 75% tillable. Living water. Will consider income property for part purchase. Price \$25 per a. L. E. Pendleton, Dodge City, Kansas.

**3120 A. IDEAL RANCH**—Adjacent to Ness Co., Kan. In compact body; 90% tillable; 1,000 a. bottom alfalfa land; rich soil; 600 a. in cultivation. Two sets imp. Can lease 2,000 a. joining. Abundance water. Price \$20,000. Terms. For particulars address C. F. Edwards, Ness City, Kansas.

**FARM BARGAIN**—400 acre ranch, 2 1/2 miles from Lucas, Kansas. 100 acres fine bottom, 40 acres alfalfa. Plenty of living water, piped to all improvements. A bargain, for quick sale, at \$16,500.00. For further information, write Frank A. Vopat, Lucas, Kansas.

**268 A. farm;** 65 a. in alfalfa and clover, 80 a. prairie meadow, bal. pasture; good 6 room house; barn 50x50; granary. Price \$35 a. Terms. Write "Sewell," Garnett, Kan.

**80 A. WELL IMPROVED,** fine location, 3 1/4 mi. Ottawa. Natural gas for fuel. Will sell with \$2500 down. 160 a. 2 mi. Princeton, Kan., nicely improved. Close to high school. Price \$9000. Easy terms. Possession at once if wanted. 120 a. 3 1/2 mi. Ottawa, well improved. Will be sold at bargain. These are special bargains and are priced worth the money. Owners do not want to rent them. Write for full description or come at once. Mansfield Land Co., Ottawa, Kansas.

**NOW IS THE TIME** to get more land; prices will advance. Have you small farm? We have good deals on larger farms in E. Kan. Write what you have and want. Iola Land Co., Iola, Kan.

**EXECUTOR'S SALE, REAL ESTATE.** To settle estate will sell suburban residence property in Paola, Kan., with 13 1/2 acres blue grass pasture adjoining. Price \$6500. Easy terms. Write for description. Darwin W. Ahrens, Paola, Kan.

**KIOWA COUNTY** Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

**80 Acres Only \$750** Only 4 mi. Wichita; good smooth black loam soil; plenty bldgs.; possession; only \$6000; only \$750 cash, time on bal. R. M. Mills, Schweiter Bldg., Wichita, Kan.

**DON'T BE A WORM** You might get caught—be the early bird and come to Garden City. I want to show you good land in a practically undeveloped country where opportunities abound. If you can't buy, I'll trade—what have you? R. B. Wadsworth, Garden City, Kansas.

**Chase County Farm** 160 acres 3 miles from Saffordville and 12 miles from Emporia. 125 acres fine land under cultivation, balance meadow, pasture and some timber. 25 acres in alfalfa. 200 ton silo, 7 room house, stable, etc. Daily mail, telephone. \$11,000.00. Terms on half. No. trade. J. E. Bocock & Son, Cottonwood Falls, Kan.

**Sedgwick Co. Farm Bargains** 120 a. farm, 7 room house, barn; smooth good land; fine location. \$65 per a. \$2500 handles. 240 a. farm, good house, large barn; valley land, 40 a. in alfalfa; 2 large silos; near Wichita. \$75 per a.; this will suit you. 1600 a. ranch; best of grass, well watered and fenced; improved; only 4 miles to R. R. town, 3,500 people. \$28 per a. 40 a. alfalfa land; 3 miles of Wichita. This snap \$100 per acre. H. E. Osburn, 227 E. Douglas Av., Wichita, Kan.

**KANSAS RANCH** 630 a. ranch in Wallace County, Kansas, adjoining the town of Wallace. 200 acres under cultivation. 65 a. alfalfa, 6 room house, barn 32x48, driveway and garage, granary, scales and scale house, ice house, corrals, etc. Two wells, windmill, 6 feet to water. Private irrigation ditch supplied from Smoky Hill River, first class in every way, at a bargain price. See us for ranches everywhere. THEODORE C. PELTZER INVESTMENT CO. 534 Searritt Bldg., Kansas City, Mo.

**EXCHANGES**, all kinds; free list. Foster Bros., Independence, Kan.

**SEND US YOUR TRADES.** We match 'em. Southwest Land Co., Fairplay, Mo.

**7 CHOICE** imp. farms encumbered; want clear stuff for equity. Tate, Howard, Kan.

**80 OR 160** imp. for mdse. 40 for cash, small payment. Robbins, Thayer, Kan.

**IMPROVED** farms and ranches. City property for ex. Fugate Land Co., Lawrence, Kan.

**WRITE** for my large sale and exchange list. Jess Kiser, Garden City, Kansas.

**150 A.** 1/2 mi. town; good list trades. Southeast Land Tex., E. B. Adams, Thayer, Kan.

**TO TRADE** 160 a. bottom land, all tillable, imp. Youngs Realty Co., Howard, Kan.

**480 A. CLEAR;** highly imp. Want Iowa, Ill., or Missouri farm. Will assume as much as \$15,000. W. C. Bryant, Elk City, Kan.

**20 BEAUTIFUL** residence lots in Beebe, Ark., to trade for improved farm lots, worth \$2500. C. C. Chumley, Beebe, Ark.

**CITY AND TOWN PROPERTY** TAKEN as part pay on GOOD FARMS. What have you? Address The Allen County Investment Co., Iola, Kan.

**CLEAR INCOME,** for Pawnee or Hodgeman Co. land. Dwelling and business building. In Little River, Kan., value \$10,500. Bremyer, McPherson, Kan.

**FOR SALE OR EXCHANGE.** 200 acres, 2 sets of imp. 80 a. cult., some wheat; near town and school. Will take up to \$4000 in West Central Kansas or East Colorado. Price \$27.50 acre. J. M. Clardy, Beecoe, Mo.

**80 Acre Improved Suburban Farm, \$115 Per Acre** Improved suburban farm of 80 acres adjacent to Coffeyville, Kansas, a city of twenty thousand population, four blocks from city limits and street car line, good house, large bank barn, concrete fruit cave, 2 wells, wind mill, young bearing orchard, 65 acres in cultivation, 5 acres timber, gas well and free gas on farm, \$60 yearly royalty. \$2500 cash, balance 3 years. Etchen Bros., Owners, Coffeyville, Kan.

**MISSOURI** BARGAINS in farms in high school district. S. S. Grier & Co., Stafford, Mo.

**WRITE** Bedell & Co., Springfield, Mo., for prices on grain, stock and dairy farms.

**STOP! Listen!** 120 acre imp. farm \$900. Other farms. McGrath, Mountain View, Mo.

**88 A. close town;** spring, house, barn; 20 a. cult. \$650. Other bargains. McQuary, Seligman, Mo.

**40 ACRES** 4 miles Lebanon, 30 a. apple orchard; house, 6 rooms. Stable, etc. Price \$1600. Stillwell Land Co., Lebanon, Mo.

**FRUIT** and timber, clover and bluegrass land, \$10 to \$25. Write for lists. South Missouri Land Co., Mountain View, Mo.

**700 A. well impr.** 640 high state cult. \$30.00. Write for description. Ozark Realty Co., 424 College St., Springfield, Mo.

**WHITE RIVER CLUB** sites on lake. Farms, ranches, city property; mineral, fruit, poultry land. White River Realty, Branson, Mo.

**POPE MAN'S CHANCE,** \$5 down, \$5 monthly buys 40 acres good land and timber; near town. Healthy location; Southern Missouri. Price \$200. Box 36, Excelsior Springs, Mo.

**ATTENTION, FARMERS.** If you want a home in a mild, healthy climate with pure water and productive soil and where land can be bought at a reasonable price write Frank M. Hammel, Marshfield, Mo.

**184 ACRE FARM,** 1 1/2 mi. southeast of Cole Camp, Mo., on rock road, highly improved, 10 acres orchard, 40 acres growing wheat. Must sell before March 1st. Price \$35.00 per acre. Easy terms. J. H. Frederick, Cole Camp, Mo.

**120 ACRE FARM,** high, level, 75 a. clear; rest good timber; 100 fenced, 80 a. winter oats and wheat; orchard; 5 room house; good different buildings; finest location, 1/2 mile town, R.R. switch, joining farm. Owner too old to work. Take \$24 per acre; 1/2 cash. Rest to suit. F. Gram, Naylor, Mo.

**MINNESOTA** SETTLERS WANTED for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minn.

**LISTEN!** Chances for big profit. Stock, dairy, potato land. \$4 to \$20 per acre. Terms. Ebert-Walker Co., Duluth, Minn.

**CORN AND CLOVER FARMS** near Twin City markets. No drought. Ask for descriptions. \$25 to \$75 per acre. Carter Land Co., Near Union Depot, St. Paul, Minn.

**FINANCING FARM PURCHASERS** on choice Minnesota farm lands, crop payments. Ask for particulars. W. W. Hurd, Commerce Bldg., St. Paul, Minn.

**CHOICE** Nemaha Co. land. Catholic settlement. Sale or ex. J. B. Wood, Seneca, Kan.

**TRY BIGHAM & OCHILTREE,** they sell and trade farms and property. 116 N. 8th St., St. Joe, Mo.

**FINE STOCK AND DAIRY FARM.** 280 acres in Elk County, Kan. Well located, fine improvements, up-to-date, a wonderful bargain. Owner wants town property or smaller farm. Hunter Bros., Independence, Kan.

**FOR SALE OR TRADE.** No. 3 Austin Stone Crusher, 25 H. P. Engine with tools and equipments. Owner died, otherwise would not sell. Ray Smith, Stillwater, Okla.

**480 A.; 250 a. wheat,** 50 a. alfalfa, to trade for small farm. 400 a. wheat farm, all bottom, joining county seat, to trade for small farm in eastern Kansas. Theo. Voeste, Olpe, Kan.

**200 ACRES** of fine land, smooth, well improved. Anderson Co., Kan., well located, raises everything. Price \$80 per acre, would take \$5000 in good property or smaller farm. J. F. Bessel, Owner, Colony, Kan.

**Buy or Trade** with us—Exchange book free. Bessie Agency, Eldorado, Kas

**FOR EXCHANGE** Improved half section not far from Wichita for hardware. H. O. Whalen, 412-14 Biting Bldg., Wichita, Kansas.

**For Sale and Exchange** Northwest Missouri, Iowa and Nebraska choice farms; the greatest grain belt in the United States. Get my bargains. M. E. Noble & Co., St. Joseph, Mo.

## OKLAHOMA.

**FOR LISTS** and prices N. E. Okla. farms, write Elliott & Mabrey, Fairland, Okla.

**F. M. TABLTON & CO.,** will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma.

**EASTERN OKLAHOMA** lands are now selling fast. If you are interested in this Productive Country and want to know more about it write The Craig-Mayer Realty Company, Big Cabin, Oklahoma.

**320 A. prairie** pasture; good sod; 2 miles city, this county \$800. Good water. 50 a. tillable. \$6.50 per a. Terms. Write us about 1200 acres, all prairie; 1/2 tillable. Southern Realty Co., McAlester, Okla.

**OKLAHOMA LAND FOR SALE** Good land in Northeastern Oklahoma, which was part of the old Indian Territory, price from \$20 to \$25 per acre. Write for price list and literature. Agents wanted. W. C. Wood, Nowata, Okla.

**ARKANSAS** J. C. PINKERTON, the land man, Green Forest, Ark. Write for information.

**ARKANSAS** farms, all sizes. Healthy. Prices right. J. C. Mitchell, Fayetteville, Ark.

**WRITE** Dowell Land Company for bargains in Arkansas lands. Walnut Ridge, Ark.

**LITTLE RIVER** valley lands rich and cheap. On railroad. Robt. Sessions, Winthrop, Ark.

**\$375 BUYS** improved 80 a. fruit and grain farm close in. Leslie Land Co., Leslie, Ark.

**WRITE YOUR WANTS** for Arkansas lands. W. B. Lane, Hope, Ark.

**SPRINGDALE**—Best part of Ozarka. Free lists. Fredricks, Springdale, Ark.

**240 A. 5 mi. of Berryville,** highly improved; \$30 a.; farm list free. Dept. B, Bellinger Agency, Berryville, Ark.

**WRITE** for land list and tell us just what you want to buy or trade. Horton & Company, Hope, Arkansas.

**IF INTERESTED** IN N. E. ARKANSAS farm and timber lands, write for list. F. M. Messer, Walnut Ridge, Ark.

**25,000 ACRES** fine farm land, cheap. Easy payments, northern colony, free map. (J) Tom Blodgett Land Co., Little Rock, Ark.

**160 ACRES** smooth prairie farm, improved, nicely located on mail and phone line. Price, \$45 per acre. Gentry Realty Co., Gentry, Benton Co., Arkansas.

**FOR SALE.** 280 acres RICH BLACK LAND; 140 acres cultivation, 25 acres alfalfa, complete stock, wagons, gin, etc. \$40.00, good terms. Porterfield Co., Hope, Ark.

**FOR SALE,** twenty 40 acre tracts, improved and unimproved, located in the famous Judsonia strawberry district, Judsonia, Ark. Write for full particulars. J. G. Howard, Little Rock, Ark.

**345 ACRES;** 75 acres fenced and 30 in cultivation; two sets of improvements and located in the heart of stock raising district; price \$10 per a. Write for list of bargains. Arkansas Investment Co., Stuttgart, Ark.

**IT IS OUR BUSINESS** to tell you about Siloam Springs, Benton Co., Ark. Sometimes we make fair exchanges, but have some big bargains for CASH. We want you to inquire what we have down here. Farmer & Perry, Siloam Springs, Ark.

**HOMESTEAD YOUR FARMS** in the Arkansas Ozarks. We locate you. Thousands of acres open to Homestead entry. New division of the Mo. & No. Ark. R. R. has brought this section in reach of markets, free range for hogs and cattle. Abundance of spring water. Send \$50 for state map showing reserve and descriptive book giving number of acres in each county; also showing cheap lands or 50c which will include 5 months' subscription to the North Arkansas Traveler, a magazine devoted to homestead lands and development of N. Arkansas. A. Speirs, Chief Engineer, Mo. & North Arkansas Colonization Co., Harrison, Ark., Dept. C.

**COLORADO** TO SETTLERS ONLY—320 acres for \$200. Rich corn, alfalfa and wheat land, no sand. J. A. Tracy, Ft. Morgan, Colo.

**CHOICE** farm lands, Elbert County, near Lamon, \$8. Direct from owner. MUST SELL. T. H. Hagen, Board of Trade, Duluth, Minn.

**FOR SALE,** desert and homestead entries, improved, under ditch; near R.R. \$10 per a. In Logan Co., Colo. Wm. Tew, Sterling, Colo.

**FOR BEST 800 ACRE HOMESTEADS** with shallow water, see or write Warren Musgrove & Co., Lamar, Colo.

**GOOD HALF SECTION** in Eastern Colorado, good soil. Price \$1800. Will take good car as part payment. Box 697, Dodge City, Kansas.

**NEW YORK** McBURNEY'S N. Y. improved farms are worth twice the selling price of \$40 to \$70 per a. Send for free list. Address McBurney & Co., Bastable Block, Syracuse, N. Y., or Western Office, 103 Fisher Bldg., Chicago, Ill.

TEXAS

FARMS, ranches in Texas, Okla., Ark., Mo., Kansas direct from owners. To buy, sell or trade. Land Buyers Guide, McKinney, Tex.

YOU CAN OWN A FARM With the rent you pay. Best land in famous corn and hog belt of Texas. Sold on rental terms. Drops the year round. T. Kingston, Harlingen, Texas.

OWN YOUR FARM DON'T RENT

We have for sale two hundred thousand acres of good agricultural land located on the south plains in the Panhandle of Texas, price \$17.50 to \$22.00 per acre, you select your location, also your improvements, we build them for you adding cost of improvements to price of land, you pay \$2.00 per acre cash, \$1.75 per acre annually with 4% interest. Write us for further information. H. J. Newman & Co., Miami, Texas.

FLORIDA

AGENTS WANTED.

Agents wanted in every community to sell Florida fruit and truck farms in the best fruit and truck farming section of Florida. Easy payments. Write for particulars.

PEACE RIVER GROVES CO., 5th Floor, State Bank Bldg., Omaha, Neb.

A FORTUNE made from a small investment. A small investment today in the Peace River District, Florida, while the land is cheap will bring wealth and independence. Rich soil. Excellent climate. Plenty rainfall. Good schools and churches. Situated in the best citrus fruit and truck farming section of Florida. Excursions first and third Tuesdays. Write today for circulars and information.

PEACE RIVER GROVES COMPANY, 5th Floor, State Bank Bldg., Omaha, Neb.

WISCONSIN

\$0,000 ACRES cut-over lands; good soil; plenty rain; prices right and easy terms to settlers. Write us. Brown Brothers Lumber Co., Rhinelander, Wis.

ON TO WISCONSIN, FARMERS. You can buy rich loamy farm land near good markets—good roads and schools, for from \$25 to \$30 an acre. Write for our map and folder. Faast Land Co., Conrath, Wis.

Upper Wisconsin Best dairy and general crop state in the Union; settlers wanted; lands for sale at low prices on easy terms; ask for booklet on Wisconsin Central land grant; state acres wanted. If interested in fruit lands, ask for booklet on apple orchards in Wisconsin. Address, Land Department, 500 Line Railway, Minneapolis, Minnesota.

CALIFORNIA

THE SAN FRANCISCO FAIR is bringing thousands of people to the Sacramento Valley. Do not miss seeing our magnificent fruit tracts on the famous Bidwell Ranch. Here is an opportunity to invest in prunes, peaches and almonds, grown on the finest soil, a garden loam. Our land is located within a mile of a city of 18,000 people. Write for literature. Bidwell Orchards, Inc., Chico, California.

WASHINGTON

CORN, wheat, oats, alfalfa and fruit lands. Reliance Realty Co., Wenatchee, Wash.

HOMESTEADS. Big Indian Reservation To Open. 750,000 acres for settlement; fruit, timber, farm lands; send 25c with this ad to Wenatchee, (Wash.) Daily World, Department 12, for reliable data about this great region.

MONTANA

FAMOUS JUDITH BASIN, MONTANA. Wonderful grain and stock country, rainfall unfalling, mild winters, delightful summers, healthful climate, crop failures unknown, extra fine stock ranches, natural alfalfa and timothy land, greatest non-irrigated grain growing section in United States, holds on winter wheat and barley. Write for literature. J. W. Studebaker, State Agent, McPherson, Kansas.

OREGON

Oregon State Publications Free

1914-1915 Oregon Almanac, and other official books published by State Immigration Commission, telling of resources, climate and agricultural opportunities for the man of moderate means. Ask questions—they will have painstaking answers. We have nothing to sell. Address Room 107, Portland Commercial Club, Portland, Ore.

YOU'LL PROSPER IN Harney Valley, Ore.

\$12 to \$25 an acre and 10 years time on balance—in a land where the climate is ideal, the soil rich, the crop yields big. Our book shows farms in the valley during the crop growing and harvesting season of 1914. You will then realize what wonderful opportunities there are for you in the Northwest's last great agricultural valley.

Oregon & Western Col. Co. 5 Pioneer Bldg. St. Paul, Minn.

WHAT BREEDERS ARE DOING

FRANK HOWARD, Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and West Okla., 614 So. Water St., Wichita, Kan. John W. Johnson, N. Kansas and S. Nebraska, 820 Lincoln St., Topeka, Kan. Ed R. Dorsey, North Missouri, Iowa and Illinois, Cameron, Mo. Jesse R. Johnson, Nebraska, 1937 South 16th St., Lincoln, Neb. C. H. Hay, S. E. Kan., So. Mo. and E. Okla., 4204 Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Feb. 23—J. D. Mahan, Whiting, Kan. Feb. 25—T. M. Willson, Lebanon, Kan. Feb. 26—Lambert Bros., Smith Center, Kan. Feb. 26—W. E. Epley, Diller, Neb. Mar. 1—Groninger & Sons, Bendena, Kan. Mar. 2—H. E. Walter, Effingham, Kan. Mar. 3—H. C. Graner, Lancaster, Kan. Mar. 3—Gilbert Johnson, Osceola, Neb. Mar. 4—Olivier & Sons, Danville, Kan.

Spotted Poland Chinas.

Feb. 24—Alfred Carlson, Cleburne, Kan.

Duroc-Jersey Hogs.

Feb. 25—Martin Kelly, Verdon, Neb. Feb. 25—C. C. Boyd, Centralia, Mo. Feb. 27—E. N. Farnham, Hope, Kan. March 2—Chas. W. Finley, Otterville, Mo. March 5—Samuelson Bros., Blaine, Kan. March 17—Mott & Seaborn, Herington, Kan.

Shorthorn Cattle.

Feb. 23—J. D. Nutter, Morrowville, Kan., sale pavilion, Washington, Kan. March 11-12—Nebraska Shorthorn breeders' sale, Grand Island, Neb. J. C. Price, Lincoln, Neb., Mgr. March 17—F. A. Egger, Roca, Neb. March 18—Rudolph Firme, Hastings, Neb., and A. A. Stone, Hanson, Neb.; sale at Hastings.

Jersey Cattle.

Mar. 17—Dr. J. H. Lomax, Leona, Kan.; B. C. Settles, Sales Mgr., Palmyra, Mo. Mar. 31—E. Wiley Caldwell, Fulton, Mo.; B. C. Settles, Sales Mgr., Palmyra, Mo.

Percherons.

Feb. 22—F. A. Cole, Barnard, Kan.; sale at fair grounds, Beloit, Kan. Mar. 2—Lee Bros., Harveyville, Kan., at Sale Pavilion, Manhattan, Kan. March 17—F. A. Egger, Roca, Neb.

Jacks and Jennets.

Mar. 8—G. C. Roan, LaPlata, Mo. March 2—W. J. Finley, Higginsville, Mo.

Combination Livestock Sales.

Feb. 26—Smith County Breeders' association sale, Smith Center, Kan.

N. Missouri, Iowa and Illinois

BY ED. R. DORSEY.

Clark Roan of LaPlata, Mo., who has a national reputation in the jack business, will hold his annual sale, March 8. A careful inspection of this stock will convince any fancier that Clark Roan is a master in the business. He has made his reputation by his business methods. He started in this business by handling only the best, buying of the leading jack men of Missouri, Kentucky and Tennessee. We do not hesitate to tell our readers that nowhere can be found better jacks or better bred jacks than are offered in this sale. He told us he had received over 100 letters of owners of jacks offering to sell but a large per cent of them would not come near filling the standard. The day is past never to return when a knot head jack is of any value. Get an illustrated catalog and see how you like the jacks.

Good Average on Durocs.

The record breaking prices paid for Duroc-Jersey hogs at Kinlock sale, Kirksville, Mo., will not be surpassed in Missouri for some time to come. Sixty-four head averaged \$175.60. Forty-six of these great brood sows were bred to illustrate, the grand champion. He has not only shown himself to be one of the greatest of all Durocs as an individual but he has sired more state fair and grand champion winners than any other Duroc during 1914. Since the sows bred to him have broken all Duroc records in prices for several years, Illustration is classed as equal, if not superior, to all other great hogs. This is a remarkable record for so young a hog; he is not yet 3 years old. The bidding was keen from start to finish, the hogs selling at uniform prices. H. E. Browning of the Idlewild Farm of Hersman, Ill., topped the sale on the 10 months' old male, Proud Colonel's Equal, at \$470. Moots Brothers of Missouri Valley, Ia., headed the sow list on Tattle Tale 14th at \$350. This is what Dr. C. E. Still has done in less than 18 months by buying the very best.

S. W. Kansas and W. Oklahoma

BY A. B. HUNTER.

I. N. Green, Kiowa, Kan., sold on February 5, \$14,000 worth of livestock. The stallions, old and young, averaged \$505. Thirteen head of jacks sold ranging in price from \$100 to \$1,000 each. There were few Jennet buyers in evidence and only one was sold, going at \$255. The breeding animals of serviceable age and of superior merit went at good prices with few exceptions.

The Enid Sales.

The combination livestock sale held at Enid, Okla., last week was an unqualified

success viewed from any possible angle. The greatest interest shown in the offerings centered around the Shorthorn cattle and the Percheron horses. Nine months old Shorthorn bull calves sold for an average of about \$120, and there were not enough consigned to supply the demand. The big day of the sale was "Percheron day," when 37 head of Percherons sold at an average of \$532.04. The 10 mares which Frank Kirk bought from W. S. Corsa of White Hall, Ill., for this sale, sold for an average of \$641. Ten mature mares consigned by Boles & Son and J. H. Jackson of Enid, sold for an average of \$426. Twenty mares, including the above mentioned mares, and three fillies sold for an average of \$499.60. Fourteen stallions sold for an average of \$585.36. The most encouraging thing in connection with these sales was the interest shown in purebred livestock by Oklahoma farmers and breeders and especially by the breeders and farmers of Garfield county. Ten years after the opening of the Cherokee strip, the assessed valuation of the livestock of Garfield county was \$250,000. It is more than six times that now. This condition is very largely due to the efforts of Mr. Kirk. The following farmers and breeders bought Percherons in this sale: R. N. Britton, Waukomis; O. G. Rarick, Lamont; Will Pratt, Waukomis; Boles & Sons, Enid; J. R. Roberts, Deer Creek; Henry Crocker, Enid; Miller Brothers, Hydro; Dr. H. S. Burgess, Nash; Puls & Son, Dover; C. M. Haxton, Gotebo; A. D. McGill, Homestead; J. E. Boush, Homestead; J. W. Ford, Enid; C. R. Spittler, Mustang; Mr. Longworth, Enid; W. P. Hodgson, Enid; Taggart, Brokers, Waukomis; H. N. Skaggs, Randlett; C. E. Cooper, Nickerson, Kan.; A. V. Rhoads, Waukomis; A. L. Castle, El Reno; J. R. Dunlap, Enid; W. G. Valentine, Carrier; N. J. Spoon, Cherokee; Henry Lehrer Hunter; J. E. Boles, Homestead; C. M. Hutchinson, Gotebo; C. S. Culbertson, Ivanhoe; Joe Cake, Hunter; H. W. King, Waukomis; B. Chatt, Goltry; A. Pancoast, Red Rock; C. T. Volenstein, Hinton, Okla.

N. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

J. D. Nutter, Morrowville, Kan. (Washington county) is selling all of his Shorthorns in a big public sale at Washington, Kan., in the sale pavilion, on Tuesday, February 23. Twenty-seven bred cows and heifers and some young bulls make up the offering. Arrange to attend this sale.

This is the last call for the big Percheron sale at Beloit, Kan., next Monday. The sale will be held as advertised in the sale pavilion at the fair grounds, Beloit, on next Monday, February 22. F. A. Cole is dispersing his well known Percheron herd and a number of well known Mitchell county Percheron breeders are assisting him in making it the biggest thing of the kind in the West this season, by consigning some great young stallions and fillies. Go to this sale if you are interested.

J. D. Mahan's big dispersion sale of strictly good big type Poland Chinas at Whiting, Kan., is next Tuesday. The sale should

Save Your Pigs



Get a SureGetter Pig Forcep. The Great Veterinary Instrument the Farmers of the "Hog Belt" are all talking about. The "Twentieth Century Wonder,"—Gets 'em Alive and saves the Mother. Don't compare them with the Old Fashioned Fincher and Loop Forceps that are Flooding the Country. "They do the work."—Beautifully Nicked—Thus Doing Away with all Possible Danger of Blood Poison to the Animal. "Worth Their Weight in Gold" to every Farmer. —Order one today, have it when you need it. General Agents Wanted.—Every County in Your State. R. C. FOLLET & CO., 3328 Dupont Ave., So., Minneapolis, Minn.

WYOMING

Improved Farms For Sale

We own and will sell at bargain prices, possession this spring, if wanted, terms 10 annual payments, on both principal and interest on crop-payment plan, 160 acre level improved farm 6 miles R. R. town; also 320 acres improved adjoining R. R. town. Good schools, fertile soil, pure water, no hot winds, no irrigation. Banner winter wheat section of the West. Write at once for detailed particulars and descriptive literature. FEDERAL LAND CO. (owners), Dept. 1, Cheyenne, Wyo.

For Sale By Owner

My thirty-five thousand dollar stock of general Hardware, Furniture, Implements and Buildings, situated in the new County Seat town of Torrington, Wyoming, in the North Platte valley, doing a Fifty Thousand and business, per annum. Or my Mountain Stock Ranch, Laramie Co., Colo., of 2240 acres, fine running water in all parts of ranch, 150 acres irrigated under private ditch, 150 tons of native and timothy hay. Good improvements and all fenced. Price \$10 per acre. W. O. Eaton, Torrington, Wyoming.

NEW MEXICO

IRRIGATED FARMS and ranches for sale or trade. Most healthful and mild climate. Plenty of pure water. "No trouble to answer questions." Braley & Bell, Fortales, New Mexico.

LIVESTOCK AUCTIONEERS.

ANIMAL PHOTOGRAPHY and sketches of all kinds of farm animals. Write for prices. Harry Spurling, Taylorville, Ill.

John D. Snyder AUCTIONEER, successfully sells pure bred live stock, real estate and general sales. HUTCHINSON, KAN.

FLOYD CONDRAY, Stockdale, Kansas Livestock auctioneer. Write for open dates.

BOYD NEWCOM AUCTIONEER, Real Estate a Specialty. Write, wire or phone for dates.

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.

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

WILL MYERS, Livestock Auctioneer BELOIT, KANSAS. Ask the breeders in North Central Kansas. FOR DATES ADDRESS AS ABOVE.

RUGGELS & SON SALINA, KAN. BEVERLY, KAN. Livestock, Real Estate. Address either place.

JESSE HOWELL, HERKIMER, KAN. of Howell Bros., breeders of Durocs and Herfordians can make you money on your next sale. Write for dates.

W. A. Fisher, White City, Kan. Livestock Auctioneer. Write or Phone for dates.

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages. Next 4 weeks term opens Apr. 1st, 1915. Are you coming?

MISSOURI AUCTION SCHOOL Largest in the World. W. B. Carpenter, Pres 618 Walnut St., Kansas City, Mo.

BERKSHIRES

Hazlewood's Berkshires Spring boars, bred gilts—immature; priced to sell. W. O. HAZLEWOOD, WICHITA, KANS.

Large English Berkshires 2 outstanding fall boars now ready for service, price \$40.00 each. 25 head of spring boars at \$25.00 to \$40.00 each. 30 head of sows and gilts bred for spring litters, price \$10.00 to \$15.00 each. Address H. E. Comroy, Neotoma, Kan.

OUTSTANDING BERKSHIRES Priced to Sell Six spring boars ready to ship; two at \$25 each; two at \$30 each and two at \$35 each. Also one of our best boars, Ideal Centerpiece 17500 at \$50. 15 sows and gilts and 30 pigs ready to ship. Buy early and save money. J. T. BAYER, YATES CENTER, KANSAS

BERKSHIRES

Special offering of sows and gilts bred to Starlight Premier 6th and Rivalier 130548. There will be quality and prices to suit all purses. Weanling fall pigs priced to sell. Write today.

KIESLER FARMS A. J. McCauley, Perryville, Mo.

Sutton Farm Berkshires

The Greatest Winners of 1914

Winning at the five leading state fairs, Missouri, (inter-state) Iowa, Nebraska, Kansas and Oklahoma where are held the largest swine shows in the world—over 100 Championships, firsts and seconds, including Grand Champion Boar Prize at each show on the 1900 pound DUKE'S BACON.

Herd headers, foundation stock and show yard material our specialty. Sutton Farm, Lawrence, Kans.

O. I. C. HOGS.

O. I. C. BRED SOWS and gilts. Priced right. Elmer K. King, Houston, Kan.

Choice O. I. C. BRED GILTS and TRIED SOWS. HARRY KANTING, ELKHORN, KAN.

Coon Creek O. I. C. Herd 32 Sept. pigs, both sexes, spring boars and gilts, and choice bred sows for sale. A. G. Cook, Lucas, Kan.

SunnySide Herd O.I.C. 30 Spring pigs both sex, pairs and trios not related, best of breeding, priced right. W. H. Lynch, Reading, Kan.

Grandview Stock Farm 25 O. I. C. March and April, boars and gilts. Special prices for the next thirty days. ANDREW KOSAR, Delphos, Kan.

Bargain Prices O.I.C.'S QUALITY. Either sex. Gilts open or mated. Write your wants, today, to J. P. CANADAY, Carrollton, Mo.

O. I. C. BRED SOWS and GILTS A few tried sows and gilts bred for spring farrow; boars ready for service, pairs and trios not related. Best I ever offered. Very reasonable prices. JOHN H. NEEF, BOONVILLE, MISSOURI

MAPLE GROVE O.I.C.'s Pigs farrowed first part of November, \$10.00. September pigs \$12.50 each. Bred gilts \$22.50 to \$25.00. Bred sows \$35.00 each. 5% off on all orders for two or more animals. Will have lots of extra good pigs coming between now and next April. Am booking orders now. Write me your wants. Satisfaction guaranteed.

F. J. GREINER, BILLINGS, MISSOURI

**DUROC-JERSEYS.**  
**DUROC GILTS** bred and a fine lot of fall pigs at farmers prices.  
**A. G. DOBE, OSAGE CITY, KANSAS**

**DUROC JERSEY BRED GILTS**  
 Bred for March and April farrow to Van's Crimson Wonder and Dora's Climax. Also a few September male pigs. Prices reasonable. **GARRETT BROS., Steele City, Nebr.**

**RICE COUNTY HERD DUROCS**  
 Spring and summer boars, 30 fine gilts and sows bred for March and April farrow. Good Knuff, Colonel, Crimson Wonder, Ohio Chief blood lines. Prices right, herd immune. Write today for prices and descriptions.  
**G. M. SHEPHERD, LYONS, KANSAS**

**WOODDELL'S DUROCS**  
 Herd headed by Rex E. Nuff by Good E Nuff Again King and brother to Otey's Dream. Spring boars and gilts priced reasonable. Satisfaction guaranteed.  
**G. B. WOODDELL, WINFIELD, KANSAS**

**BONNIE VIEW STOCK FARM**  
 For Sale: Tried sows and bred gilts by Tat-A-Walla and Jayhawk Crimson Wonder. Sows bred to Tat-A-Walla and, gilts bred to A Critic.  
**SEARLE & COTTE, BERRYTON, KANSAS**

**DUROCS of Size and Quality**  
**BRED SOWS AND GILTS.**  
 Good individuals of choice breeding from B. & C's Col., Superba, Defender and Good E Nuff Again King.  
**JOHN A. REED, LYONS, KAN.**

**Immuned Boars and Sows**  
 Twenty immuned Duroc-Jersey boars ready for service, \$25 to \$35 and up. 100 immuned sows bred to Buddy K 4th, Wide Awake, Creomo and others, \$30 to \$50 and up. Ready for immediate shipment. **Geo. W. Schwab, Clay Center, Nebr.**

**Hirschler's Durocs**  
 Herd headed by Graduate King, by Graduate Col. Gilts by Tatarax Chief and E. L.'s Col. bred to him; also a fine lot of spring boars, priced for quick sale. Write today.  
**E. L. HIRSCHLER, HALSTEAD, KAN.**

**Uneda Herd Unexcelled Durocs**  
 March boars of excellent breeding, color and quality. Weight, 175 to 200 pounds and not fat. \$25, \$25, and \$30. Choice Sept. boars \$10 to \$15. The Duroc Bulletin one year with each boar. **Tyson Bros., McAllister, Kas.**

**IMMUNE DUROC SOWS For Sale**  
 Duroc sows guaranteed in farrow and cholera immune. Shipped to you before you pay.  
**F. C. CROCKER, FILLEY, NEBR.**

**Get This Private Sale Catalog**  
 Duroc-Jersey bred gilts. Choice spring gilts and a few fall gilts priced right. Get my prices. Write for my private sale catalog.  
**RALPH P. WELLS, FORMOSO, KANSAS**

**BANCROFT'S IMMUNE DUROCS**  
 We hold no public sales; nothing but the best offered as breeding stock. Choice spring gilts, bred for spring farrow. Customers in 13 states, satisfied. Describe what you want. We have it.  
**D. O. BANCROFT, OSBORNE, KANSAS**

**Elm Creek Herd Durocs**  
 A few extra good Duroc Jersey gilts, bred for March farrow. Also one good yearling boar.  
**J. O. Hunt, Marysville, Kansas.**

**IMMUNE Duroc-Jerseys**  
 8 head of spring boars, 2 show boars. 30 spring gilts bred to Watson's Defender, a son of Defender. Satisfaction guaranteed.  
**R. C. WATSON, ALTOONA, KANSAS**

**Big Bred Sow SALE February 27**  
 All boars fit to ship sold. Will sell a few bred gilts at private sale. Write for prices and my big bred sow sale catalog. Everything immune.  
**E. N. FARNHAM, HOPE, KANSAS (Hillcrest Farm Durocs)**

**Maplewood Farm Durocs**  
 We offer 40 bred sows at attractive prices. Big, well grown spring gilts. Best of breeding. Address,  
**MOTT & SEABORN, HERINGTON, KANSAS**

**Duroc-Jersey Bred Sows**  
 A few choice fall and spring gilts bred to our herd boars for sale. Also a few choice May boars.  
**Howell Bros., Herkimer, Kan.**

A mixture of lard, sulphur, and a little coal oil is a recommended cure for scabby legs. Two applications should cure.

Interest everyone looking for the best in Poland Chinas. Fifty-five head go in the sale, including all of the choice herd sows. Mr. Mahan is one of the Poland China breeders in northeastern Kansas that has breeders to make that section of the state a desirable place to buy the best in big type Poland Chinas. Attend his sale and you will be more than pleased with his offering.

W. E. Epley, Diller, Neb., is selling Poland China bred sows in the C. W. Smith sale pavilion, Fairbury, Neb., next Friday, February 26. This is one of the real good Poland China bred sow offerings of southern Nebraska this winter and Kansas breeders looking for top Poland China sows of the strictly big type had better arrange to come to this sale. Mr. Epley has been a good buyer in all of the leading sales for the past three or four years so far as most of Nebraska is concerned and will be able on the above date to drive into the sale ring the kind that is in big demand today. He will sell 40 head.

**Fourteenth Annual Sale.**  
 Samuelson Brothers, the big Duroc-Jersey breeders of Blaine and Cleburne, Kan., will hold their fourteenth annual sale at the farm near Blaine, Kan., Friday, March 5. This offering will include 40 head of spring gilts sired by their two herd boars, White House Marshall and Valley Col.; and bred to Cherry Boy, an outstanding son of Cherry Top. The offering is in the best possible condition and in perfect health. Write today for catalog and mention Farmers Mail and Breeze.

**Spotted Poland China Sale.**  
 Alfred Carlson, Cleburne, Kan., sells 50 big boned spotted Poland Chinas at that place next Wednesday, February 24. His sale is one of the best offerings of the season of spotted Poland Chinas and his advertisement appears in this issue of the Farmers Mail and Breeze. Look it up and write for the catalog today. The foundation of this herd came from three of the prominent eastern herds and the 50 head that go in this sale are well grown and presented in the best of breeding form. They are all bred for spring farrow. You are buying from a reliable and trustworthy breeder if you buy in this sale. Come if you are interested in spotted Poland Chinas.

**Lee Brothers' Big Percheron Sale.**  
 Lee Brothers, Harveyville, Kan., sell Percheron horses at the livestock judging pavilion at the Agricultural college, Tuesday, March 2. This is their big annual sale at the college and they are making it the best sale. Forty-five head will be sold and 20 of them are mares bred to the great Scipion. There will be young fillies and young stallions by him and a choice lot of stallions ready for service. Lee Brothers are Kansas boys of whom the state may well be proud. They are among the best known Percheron breeders and importers and exhibitors in the West today. Their methods in doing business with the public have been the main factor in placing them in this enviable position in the Percheron business. Come to the sale and you can be sure of a square deal. Also of the opportunity of buying the best that is to be had.

**An Extra Good Offering.**  
 Jas. W. Anderson's sale of Poland China bred sows at Leonardville, Kan., last Tuesday was well attended by farmers who were appreciative of Mr. Anderson's offering and a number of breeders from over the country. Among the breeders who attended were J. H. Harter, Westmoreland, Kan.; J. L. Griffiths, Riley, Kan.; A. J. Swingle, Leonardville, and Jas. Arkell and his son, Junction City, Kan.; E. E. Merten, Clay Center, Kan., and John Granger, Clay Center. The average was only \$24 but all agreed that the offering was a creditable one. Mr. Anderson is a young man who has the confidence of everyone that knows him and he has been one of the good buyers of high class Poland Chinas for the last few years. His farm is about nine miles north of Leonardville. His herd boar, Clay Jumbo, is one of the big ones and has proved himself a splendid breeder.

**Big Combination Stock Sale.**  
 Friday, February 26, is the date of the big Smith County Breeders' association sale at the fair grounds, Smith Center, Kan. That's next Friday. Their catalog is out and you can have one by return mail if you write them today. Look up their advertisement in this issue of the Farmers Mail and Breeze. It is the day following T. M. Willson's big Poland China bred sow sale at his farm near Lebanon and you can attend both sales with very little expense and very conveniently. Forty Poland China bred sows, some choice Shorthorn cows that are bred and some young bulls. Also Hereford bulls, Percherons, Guernsey bulls, Holstein cows and bulls and everything registered or eligible. The association of breeders in Smith county are among the best breeders in the West. Come to this sale and Mr. Willson's Poland China bred sow sale the day before.

**Select Duroc-Jersey Offering.**  
 One of the strongest offerings of Duroc-Jersey bred sows to be made in Kansas this year is the offering which E. N. Farnham, Hope, Kan., is making at that place February 27. There will be 20 selected spring gilts, sired by Select Chief, Thompson Brothers' great prize winning boar that won last year at all of the shows where he was exhibited. These gilts are bred to boars in Mr. Farnham's herd that are prize winners and sons of noted prize winners. The offering clear through is one of attractions and the opportunity to buy that kind of breeding will pass with this sale so far as the West is concerned. The prices are not likely to range very high as it is a little late and breeders have already bought by that time. It is the place for you to be, Mr. Breeder, if you want the best. Get his catalog at once and look up the breeding. Mention the Farmers Mail and Breeze when you write.

**Forty Poland China Sows.**  
 T. M. Willson, Lebanon, Kan., sells a draft of Poland China bred sows from his well known herd at that place next Thursday, February 25. His sale is the day before the big combination sale at Smith Center, in which 40 Poland Chinas will be sold consigned by Lambert Brothers and C. A. Cowen. You can attend the two sales

**BALDWIN DUROCS REDS \$2**  
 Fall boars \$9. Long, growthy gilts \$30, bred to "Bell The Boy," the undefeated first prize winner at the "Kan. State Fair," the "Tenn. State Fair" and the "Interstate Fair." Immune. Rose Comb Rhode Island Reds. Winners at big shows. 19 incubators. Eggs \$5 per 100. Baby chicks 10c each. Call and see us.  
**R. W. Baldwin, CONWAY, McPherson Co., Kan.**

**THE GET OF CHAMPION BOARS**  
 Duroc-Jersey spring boars and gilts sired by 800 and 1,000 lb. champion boars and one of the best herds of sows in Mo. Big boned, strong boars ready for service, \$29 to \$25; gilts bred to farrow in March, \$25 to \$25. Register papers furnished without extra charge. Send your check and get your money's worth. **R. W. TAYLOR, Olean, Mo.**

**Royal Scion Farm Durocs**  
 The great Graduate Col., Gano's Pride, Cherry Scion and Graduate Scion head this herd. Bred sows and gilts, also boars, priced to sell.  
**G. C. NORMAN, Route 10, WINFIELD, KAN.**

**Durocs Priced to Sell 60 Head**

**20 Bred Sows and Gilts**  
**20 Choice Spring Boars**  
**10 Handsome June Gilts**  
**10 Fancy June Boars**

They are most all by or out of sows by Tattler, by the champion Tatarax, Smith Graduate, a grandson of the famous Graduate Col., and Gold Medal, a grandson of Crimson Wonder 4th. The sows and gilts are safe in pig to C. J.'s Col., by Col. Harris. They are the kind that farrow and raise large litters. The spring boars include both the rugged, stock-farmer kind and the kind suited to the breeder. The June boars and gilts have unusual quality. These hogs are fashionably bred, good boned, good colored, handsome headed and the type that will please you.

**No Public Sale** I prefer to give my customers the benefit of what a sale would cost. These 60 hogs must sell the next 60 days. Special Reduction on Six or More. Come to the farm on interurban R. R., near Newton, Kan., and let me help you select. If you cannot come write me exactly what you want. Yours for quick business.

**J. R. SMITH, Newton, Kansas**

**HOGS! HOGS!! HOGS!!!**

**Big Type Poland Chinas**

Every hog shipped on approval. Time if desired.

**60 Head Must Sell, Next 30 Days**

To make room for our spring crop of pigs we are making special prices on tried sows, fall yearling and spring gilts, also a few good young boars. They carry the blood of such noted sires as Blue Valley Quality, Blue Valley Hutch, Blue Valley Price, Giant Expansion, Expansion, Big Orange, Revenuch Chief and other large type sires of note. Most of these sows and gilts are safe in pig to King of All Wonders and A Wonderful King, two wonderful stretchy sons of King of All and out of Lady Jumbo 4th, No. 1 in the Lawson sale catalog and said by several to be perhaps the best sow A Wonder ever sired. They are the kind that are bred to produce both size and quality. Others are in pig to Logan Price, a show prospect of great size and quality.

**Start In The Hog Business Now**  
 Special prices will be made to parties buying several head. They have been fed and bred for breeding purposes and we guarantee every hog sold. Come and get first choice. Farm near town. Write, wire or phone us when to meet you. Yours for quick business.

**OLIVIER & SONS, Danville, Harper Co., Kans.**

**An Opportunity**

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

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

**Agency Division**  
**Farmers Mail and Breeze**  
 800 Jackson Street Topeka, Kansas

DUROC-JERSEYS.

50 BRED SOWS AT PRIVATE SALE. 10 tried sows 18 to 24 months old, 10 fall gilts and 30 spring gilts. All bred for spring farrow, Dreamland Col. heads my herd. A lot of choice spring and fall boars. Close prices on everything. Address, J. R. JACKSON, Kanopolis, Kan. (Ellsworth Co.).

Howe's Bred Sows and Gilts. Immune spring gilts, fall yearlings and tried sows; extra good breeding. Bred for spring litters to Crimson Hero by Crimson Wonder 4th whose first six litters were grand champions. Prices reasonable. J. U. HOWE, Route 8, WICHITA, KANSAS

POLAND CHINAS.

SMUGGLER GILTS bred to KING HADLEY for early spring farrow. J. B. MYERS, Galva, Kansas.

Immune Poland Bred Sows. 15 good ones. Special prices for 30 days. Few boars. J. F. FOLEY, Oronoque, (Norton Co.), Kansas.

FOR SALE. Good pure bred Poland China sows, 3 months old with good pedigree. Expansion strain. \$10 each. W. A. MUDGE, TUBON, KANSAS.

Sam Herren, Penokee, Kas. Booking spring pigs sired by my great young boar by old A Wonder and out of the great sow Lady Major.

I HAVE SOME FALL PIGS for sale at a bargain. Priced to sell. Sired by my blue ribbon, reserve champion and grand champion boars. W. Z. BAKER, RICH HILL, MISSOURI

Poland Chinas with size and quality herd Giant and Long Look. Cholera immune. Stock for sale. LAMBERT BROS., SMITH CENTER, KAN.

BIG TYPE, PEDIGREED BRED SOWS. Boars, Fall pigs. Shipped on approval. DAVIS BROS., Box 12, LINCOLN, NEBR

Strauss' Big Poland Chinas. Six last fall boars and 18 spring boars by Model Wonder (900 pounds) and Blue Valley Chief by Blue Valley. Write me your wants. O. R. STRAUSS, MILFORD, KANSAS

Gephart—Long King. A few choice spring boars at attractive prices. I will sell 50 tried sows and gilts at the Agricultural College, Feb. 17. I start the big Riley County circuit. Write to day for my catalog. J. H. HARTER, Westmoreland, Kansas.

Fairview Herd Poland Chinas. Choice Fall Yearling and Spring Gilts, bred for March and April farrow, offered at prices to sell quickly. Write us for guaranteed descriptions. P. L. WARE & SON, PAOLA, KANSAS

SHEEHY'S BIG IMMUNE POLAND CHINAS. Fine big gilts bred to farrow early; some fine big stretchy fall boars and gilts, extra good and priced to sell. ED SHEEHY, HUME, MISSOURI

Blough's Big Poland. Big, growthy spring gilts, safe in pig to the splendid sires, Valley Coin or a Great Orphan. And at prices we can both afford. JOHN BLOUGH, BUSHONG, KANSAS

Poland China Boars. March and April farrow. Also a few choice fall yearlings. These are actual tops and for sale at reasonable prices. Strictly Big Type. Gilts reserved for bred sow sale. JAS. ARKELL, Route 4, Junction City, Kansas

King of Kansas Bred Sow Sale. 30 fall and 30 spring gilts sired by the above great boar. Five choice proven brood sows bred to King of Kansas. A big percent of the gilts bred to Long Jumbo Jr. Write to day for catalog. J. L. GRIFFITHS, RILEY, KANSAS

Becker's POLAND CHINAS. Spring gilts, Hadley, Expansion, Mastodon, and other leading strains and safe in pig to Orphan Boy, by Orphan Chief. Fall pigs, pairs and trios, by Orphan Boy and Hadley's Wonder, a grandson of A Wonder. J. H. BECKER, NEWTON, KANSAS

ENOS' Big Type POLANDS. 55 head of my top sows and gilts for sale, bred to two great boars, Orphan Chief and Mastodon King, a great young boar. Three July boars that are strictly herd headers by Orphan Chief. A. R. ENOS, Ramona, Kan.

Erhart's Big Type Polands. 25 head of our top sows and gilts for sale, bred to four of the greatest big type Poland China boars in use today including Robidoux, a 1200 lb hog; also all pigs from Orphan Big Gun, Big Hadley, Mr. and Big Giant, at \$20 each; three for \$45.00; a few Robidoux fall males at \$25 each for quick shipment.

A. J. Erhart & Sons, Ness City, Kan.

Axlines' Big Type POLAND CHINAS. Choice gilts bred for April and May farrow to a big strong Chief Mastiff boar, out of a Price Again dam. Prices reasonable. Write to J. E. AXLINE, WELLSVILLE, KANSAS, or E. E. AXLINE, INDEPENDENCE, MISSOURI

Geo. Bingham. Bradford, Kan. (A Pioneer Iowa Herd) 50 strictly big type Poland China sows and gilts at private sale. Inspection desired. Prices and descriptions by return mail. Address GEO. BINGHAM, BRADFORD, KAN. (Wabaunsee County).

with the same expense and very conveniently. Mr. Willson is selling a really good lot of big type sows and gilts and will be very glad to entertain you on the 25th and have you go on to Smith Center the next day and attend the big association sale there. Mr. Willson's catalog is out and he will mail it to you upon application but you better come and you can rest assured that the offering will be one of merit. Look up his advertisement in this issue and mention the Farmers Mail and Breeze when you write him. He will be glad to show you his splendid young herd of Polled Durham cattle sale day. The sale will be held at the farm.

Sows That Excite Admiration. Attention is called to the Herman Gronniger & Sons sale of big type Poland Chinas at their farm near Bendena, Kan., Monday, March 1. Their advertisement appears in this issue of the Farmers Mail and Breeze. They are the first in the big northeastern Kansas bred sow sale circuit. They are selling 51 head of as classy big type bred sows as ever went into a sale ring. They are an old and reliable firm that have kept abreast of the times in Poland China affairs. Their herd boars are always among the greatest in the West. At present they are featuring the great Futurity Rexall that was a sensational prize winner at leading shows last season. There are other herd boars in this great herd that will excite the admiration of any lover of the big, massive, smooth Poland China. If you are looking for the very best in Poland Chinas don't miss this sale. They sell the day before H. B. Walter sells at Effingham, Kan., and H. C. Graner sells at Lancaster, Kan., the day following Walter. U. S. Byrne, Saxton, Mo., (near St. Joe) sells the day following the Graner sale. All four sales can be conveniently attended and the Gronnigers especially request that you attend all the sales in the circuit. Write for the catalogs and mention the Farmers Mail and Breeze.

Forty Top Poland Sows. H. C. Graner, Lancaster, Kan., sells big type Poland Chinas March 3. He is in the big northern Kansas Poland China bred sow sale circuit and his sale is the day following the H. B. Walter sale at Effingham, Kan. You can attend all four sales in the circuit very conveniently and Mr. Graner is very desirous that you do so. He is selling at his farm which is just two miles north of town. Forty head go in this sale and they are certainly a grand lot of young sows and tried sows that are tried sows in all that the term implies. They represent the best blood lines known to the breed today and are rare individuals. The 10 tried sows raised a little better than an average of eight to the litter last season and are real big values as producers and with the blood of the illustrious sires and dams they carry make them mighty desirous to anyone looking for top sows to strengthen their herds. His fall yearling gilts and the spring gilts in this sale will prove the kind you are looking for if you are out after the best. The great boar, Long King's Best, sired most of the spring gilts while Moor's Halvor sired most of the fall gilts. Mr. Graner desires that you attend all of the sales in the circuit. All are easy to attend and you can buy the very best on this circuit. Write for the catalog today and mention the Farmers Mail and Breeze.

The Jewell County Circuit. Ira C. Kyle & Son, Mankato, Kan., opened the Jewell county Poland China bred sow sale circuit last Wednesday at that place with a splendid offering of 50 bred sows. They were all sold but at prices far below their worth, the average being below \$25. The country roads were almost impassable and but few farmers were able to get out. T. M. Willson, Lebanon, Kan., J. H. Hamilton & Son, Guide Rock, Neb., Chas. Jansen of Belleville, Kan., John Kemmerer of Mankato and one or two others were the breeders in attendance. The offering was exceptionally good and the best this firm ever offered in a public sale. Mr. Kyle expressed himself as being very well satisfied, considering the unfavorable conditions that prevailed. Mr. Kyle is the secretary of the Jewell County Breeders' association. He and his father have been in the Poland China business at Mankato for years. John Kemmerer, Mankato, Kan., sold the second day in the Jewell county Poland China bred sow sale circuit. The same conditions that made the Kyle sale of the day before one of snaps for the buyers made Mr. Kemmerer's sale anything but a success. The breeders who attended were Joe Lambert of Lambert Brothers, Smith Center, Kan.; J. H. Hamilton, Guide Rock, Neb.; H. B. Walter, Effingham, Kan.; H. C. Graner, Lancaster, Kan.; and one or two others from a distance. Fred Hastings of Jewell county was the big buyer in both sales, buying around 20 head in the two sales. Mr. Kemmerer's offering, like the Kyle offering was a good one and deserved better prices. The average was about the same as the day before. Mr. Kemmerer was feeling good as he usually is after the sale and thanked those who had tackled the awful roads to be at his sale. Probably it would have been best to postpone both sales but neither felt like doing so.

Walker Makes Nice Average. Thos. F. Walker & Son's big annual Poland China sale at Fairbury, Neb., last Saturday was attended by a big crowd of well known Poland China breeders from all over the country. Sows went to seven states, Nebraska, Kansas, Indiana, Missouri, South Dakota, California and Ohio. The sale was held in usual in the C. W. Smith sale pavilion and everything was in apple pie order. Col. H. S. Duncan, in his opening remarks called attention to the fact that the catalog stood approved, there being no corrections to make. Forty-five head sold at \$8,000, a little over \$65 average. The top was \$180, paid by Wright & Thornburg of Greensburg, Ind., for number 1 in the catalog, a fine fall yearling gilt sired by Blue Valley and bred to Blue Valley A Wonder for a February 26 litter. J. W. Newkirk, Geneseo, Kan., bought number 2, by Blue Valley and bred to Blue Valley A Wonder for a February 26 farrow at \$135. Number 3 was bought by H. C. Graner of Lancaster, Kan., at \$140, the same litter and bred to the same boar for a March 2 litter. H. B. Walter, Effingham, Kan., bought number 5, in the catalog, a fall yearling by Blue Valley Orange and bred to Blue Valley, for a March 2 farrow. Frank Strebel, Alton, Kan., bought four head. Jas. Anderson, Leonardville, Kan., bought number 13 in the catalog, a very choice March gilt. J. L. Griffiths, Riley,

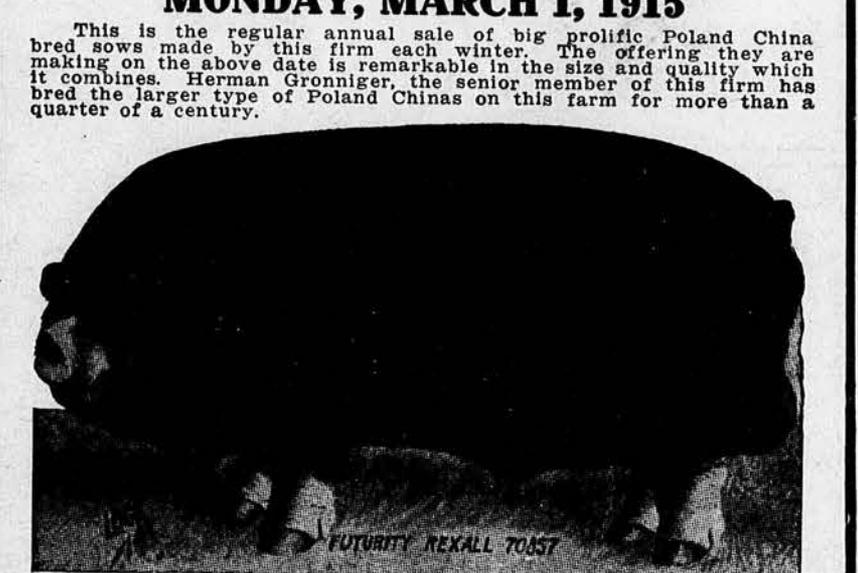
Dairy Cattle Sale
28 Head High Grade Holsteins
and Jerseys
28
Abilene, Kansas
Thursday, February 25
The herd consists of Holsteins, eight cows, three springing heifers, eight open heifers, two grade bull calves, one registered bull, seven months old; Jerseys, four cows and two heifers.
The above offering is choice milk stock and will lay the foundation for good dairy herds. Write for full descriptive list.
Mrs. R. E. Hersey & Sons,
AUCTIONEER—J. N. Burton. ABILENE, KANSAS

BIG TYPE UNPAMPERED BERKSHIRES
150 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetype, King's Truetype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Eighty bred sows and gilts to farrow soon. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, BURLINGTON, KANSAS.

DOOLEY'S SPOTTED POLANDS
Etterville Breeding Farm, home of the old original spotted Poland Chinas. I am selling spring pigs, either sex, sired by five of the biggest and best spotted boars of the breed. Pairs and trios not related. Get your order in early as they are going fast. Over 100 head to select from. EDGAR DOOLEY, EUGENE, MISSOURI

LOOKABAUGH POLAND CHINAS
600 Head. Best of Large Type Breeding.
A Wonder, Hadley, Designor, Long King and other noted blood lines.
ANY FARMER CAN AFFORD ONE 100 SPRING BOARS
They grow big and mature early and will breed just that way for you. Why not have a crop of pigs next spring that, not only will look good, but make hogs big enough to ship out next fall before the weather gets cold. I want to sell 50 of these boars to farmers the next 30 days and when your pigs arrive if you are not satisfied you have made a good buy I will refund your money cheerfully. But you must do business quickly if you get one of these good boars. Also bred sows and gilts.
H. C. LOOKABAUGH, Watonga, Oklahoma

Herman Gronniger & Sons' Annual
Poland China Bred Sow Sale
At the Farm 25 miles west of St. Joseph
Come to Denton on the Rock Island which is two miles from the farm or Severance on the Grand Island which is four miles from the farm. Free transportation from either place and free hotel accommodations at both places.
MONDAY, MARCH 1, 1915
This is the regular annual sale of big prolific Poland China bred sows made by this firm each winter. The offering they are making on the above date is remarkable in the size and quality which it combines. Herman Gronniger, the senior member of this firm has bred the larger type of Poland Chinas on this farm for more than a quarter of a century.



The last season's prize winning boar that was bought by the Gronnigers at the St. Joseph Stock Show where he won first in class. He also won in several other leading shows. Many of the best things in the sale are bred to him.

The offering numbers 51 head. There are nine tried sows, 15 fall yearlings and 27 spring gilts. The tried sows are by such boars as Look's Reserve by Great Look, Sampson Chief, Mammoth Hadley, Defensive, Pawnee Giant, Sampson Ex. 2nd, and bred to the best advantage to the different herd boars. There will be 15 fall gilts of unusual size and quality. They are by Tec. Ex., Exaulter's Rival and Defensive. The 25 spring gilts are exceptionally good and by the same boars as the fall gilts. All the gilts are bred for early spring farrow to the different herd boars. Attractions in the sale will be a March 4th gilt, by Long Jumbo out of Big Lady Wonder and bred to Futurity Rexall, for a March litter. Also a choice gilt by Mabel's Wonder out of Long Price Lady and bred to Futurity Rexall. Futurity Rexall is a strong acquisition to their already strong list of herd boars. Catalogs ready to mail. Address

HERMAN GRONNIGER & SONS, BENDENA, KAN.
Auctioneers: "Bob" Harriman, C. M. Scott, C. J. Foster, Fieldman, J. W. Johnson.
Herman Gronniger & Sons, Bendena, Kan. . . . . March 1
H. B. Walter, Effingham, Kan. . . . . March 2
H. C. Graner, Lancaster, Kan. . . . . March 3
U. S. Byrne, Saxton, Mo. . . . . March 4

**HAMPSHIRE.**  
**REGISTERED HAMPSHIRE** 150 gilts and boars, all age. Cholera Immune. Description guaranteed. C. E. LOWRY, Oxford, Kan.

**HAMPSHIRE** Best of blood lines, well marked pigs, pairs or trios, with young boar to mate gilts. Brooding stock at all times for sale. Satisfaction guaranteed. S. E. SMITH, LYONS, KANSAS.

**For Hampshire Hogs, Dutch Belted Cattle, Arab Stallion** COLLEGE DOGS AND GENE FEATHERS. WRITE C. W. WEISENBAUM, ALTAMONT, KANSAS.

**SUNNY SLOPE FARM HAMPSHIRE**  
 Pure bred, registered, well-belted, growthy, vigorous and immune Hampshire Hogs. I guarantee to please you or adjust any difference to your complete satisfaction.  
**FRANK H. PARKS, Olathe, Kansas**

**MULE FOOT HOGS.**  
**Mule Foot Hogs** All kinds for sale. Gilts sired by and bred to my first premium winning boars at Ohio and Indiana State fairs of 1913 and 1914. Some fine fall pigs in pairs. **Zeno G. Hadley, Box C, Wilmington, Ohio** not related.

**POLLED DURHAMS.**  
**Good Enough X8933**  
 3 years old; also registered black Percheron stallion, a sure foal getter. **T. M. WILSON, LEBANON, KANS.**

**Double Standard Polled DURHAMS**  
 Six yearling bulls. A number of under yearling bulls. 2 good French draft stallions and some jacks. **C. M. HOWARD, Hammond, Ka.**

**ABERDEEN-ANGUS.**  
**Aberdeen Angus Cattle**  
 50 Females Yearlings and coming yearlings; also one three-year-old bull.  
 50 Bulls These are the best cattle we have ever offered and priced for quick sale.  
**Sutton & Porteous, R. G. Lawrence, Kan.**

**ANGUS CATTLE**  
 I will sell a choice lot of cows and heifers, some bred and some open. My herd consists of animals of the best breeding, strong in the blood of the Blackbirds, Queen Mothers, Bruce Hills, Heatherblooms and Lady Jeans.  
**W. G. Denton, Denton, Kansas**

**Aberdeen Angus Cattle DUROC HOGS**  
**Johnson Workman, Russell, Kan.**

**SHORTHORNS.**  
**17 SCOTCH TOPPED BULLS**  
 9 yearlings past and 8 yearlings. Big strong, rugged bulls, mostly by Victor Archer. Reds and roans. Write today for descriptions and prices **WILL GRANER, Lancaster, Kan.**

**SHORTHORN BULLS**  
 4 Shorthorn bulls, 9 months old, white and roans, sired by Golden Cruickshank, pure Scotch. From the same family as Lavender Lord, by Avondale.  
**C. E. HILL, TORONTO, KANSAS**

**Shorthorns Priced to Sell**  
 A nice lot of Scotch and Scotch topped bulls 2 to 2 1/2 months old; also cows and heifers safe in calf. These cattle can be bought so they will make you a good profit. Do not wait, first come, first served.  
**H. C. Stephenson CLEMENTS, (CHASE CO.) KANSAS**

**SHORTHORNS**  
 Choice Young Herd Bulls 10 to 14 months old. A few Choice Young Heifers. Some Cows close to calving. Everything guaranteed free from tuberculosis, or any other contagious disease. Prices very reasonable.  
**C. H. White, Burlington, Kan.**

**SCOTCH and SCOTCH TOP BULLS**  
 Four bulls; one yearling and three 8-months-old calves. Two pure Scotch, one Orange Blossom and one Brawith Bud. Also three or four choice yearling heifers. All by Secret's Sultan. Priced to sell.  
**S. B. AMCOATS, CLAY CENTER, KAN.**

**Pearl Herd Shorthorns**  
 Valiant 346162 and Marengo's Pearl 231942 in service on herd. Choice early spring bulls by Valiant for sale. Thrifty and good prospects. Scotch and Scotch Topped. Correspondence and inspection invited.  
**C. W. Taylor Abilene, Kansas**

Kan., bought number 9, a January yearling gilt, sired by Blue Valley and bred to Blue Valley Jumbo for a March 11 litter. Nebraska breeders were well represented and liberal as they usually are when buying the Walkers' offerings. The entire offering was spring gilts except seven fall yearlings. W. M. McFadden, secretary of the American Poland China Record association, was a visitor. Mr. Walker entertained his visitors at the Mary Etta hotel, which is one of the best hotels in Nebraska.

**Weather Conditions Cut Average.**  
 Howell Brothers, Herkimer, Kan., were among the breeders that had sales advertised for last week and of course received a jolt as did most of the breeders in northern Kansas who sold, especially the forepart of the week. They sold at their farm several miles in the country and the conditions of the roads made it pretty tough getting the buyers that came to and from the stations. Any number of farmers that had intended coming were prevented from doing so because of the frightful conditions of the roads. But a fairly good number of both farmers and breeders attended. The average was nearly \$30 and the top was \$35, paid by Glen Keeseecker, the Washington county breeder. Mr. Keeseecker bought several head and was a big help in the sale. Chris Gaede, Herkimer, was a good buyer and a liberal one. J. B. Duncan, Plaza, Kan., was represented in the sale by Jas. McCulloch, who conducted the sale, and bought three head. Col. Geo. Drybread of Fort Sumner, N. M., formerly of Elk City, Kan., got there in time to sell the last sow which was a Perfect Col. gilt. He had been delayed by bad roads and was covered with mud when he arrived as was most of the crowd. The offering was one of great merit and with favorable conditions would have sold much higher. Howell Brothers express themselves as well pleased with the attendance considering the very unfavorable conditions.

**Nebraska**  
**BY JESSE R. JOHNSON.**  
 The combination Poland China bred sow sale made by C. P. Jones of Cortland and B. E. Ridgley of Pickerell, Neb., was fairly attended, taking into consideration the very bad weather. The offering was a good one but sold below its value. Messrs. Jones and Ridgley arranged with the ladies of the church and the entire town and crowd were given a big free dinner. The entire offering sold for an average of \$32.50.

**Willey Made Splendid Sale.**  
 Buyers from seven states, either in person or by means of mail bids sent to fieldmen or auctioneers, contended for the great bred sows and gilts sold at the W. E. Willey sale held at Steele City, Neb., February 12. The offering was an unusually strong one and contained Mr. Willey's 1914 show herd. The top price, \$210, was paid by John H. Bunton of Danville, Ind., for lot 1, in catalog. Only six head sold for \$100 or better and the entire offering of 50 head made the nice average of \$69.07, which indicates the uniformity of both the offering and the prices paid.

**Dawson's Sale at St. Joe.**  
 The Phil Dawson Poland China sale held at St. Joe, Mo., February 9 was well attended by buyers from Missouri, Kansas and Nebraska. The offering was a high class one and fairly well appreciated by the crowd. Forty-seven sows and gilts were sold for an average of \$53. Three boars were sold; also a one-half interest in the yearling boar, Big Buck, a son of Panorama, the half interest going to T. J. Dawe of Troy, Kan., for \$105. The top price for a bred sow was \$100, paid by T. J. Dawe for a Hadley Gold Dust sow bred to Panorama. The following breeders made purchases: Perry Reed, Henderson, Neb.; L. E. Mendenhall, Erie, Kan.; C. W. Kelly, Crosby, Mo.; Wm. Acker, Vermillion, Kan.; W. F. Barber, Skidmore, Mo.

**Draft Horses and Holsteins.**  
 The man who is interested in securing a draft stallion, Percheron, Belgian or Shire, should visit the Watson, Woods Bros. and Kelly Company's barns, Lincoln, Neb., and inspect their present stock of drafters. They have a number of coming 2 and 3-year-old Percherons that will be heavy drafters at maturity. They have been well grown, but never crowded and are especially growthy. They have big bone, plenty of quality and will prove a profitable investment. The coming 4 and 5-year-olds are finished drafters of the three breeds, including a few older ones and are priced worth the money. It is an outstanding good collection of Holsteins that this company offers, and as many of them are due to freshen, the immediate profits to the buyer are assured.

**Beall & Jackson's Dispersion.**  
 The Beall & Jackson postponed Poland China sale was held February 19 with perhaps a third less breeders present than would have been there had it been possible to have held the sale on the regular sale date. However, the uniform excellence of the offering kept prices up fairly well, but a \$20 per head higher average than was received would have been consistent with the quality of the offering. The great bargain of the day was the herd boar, Neb. Wonder selling at the low price of \$130, to M. T. Jenkins of Havelock, Neb. Mr. Jenkins was also a good buyer of sows and picked up some bargains during the afternoon. John Barnard of Angus, Neb., topped the sow sale, paying \$122.50 for Fanny Hadley, the dam of the grand champion sow Queen of Wonders.

**Foley Drew Bad Day For Sale.**  
 J. F. Foley's determination to do the right thing and consider the welfare of his neighbors cost him several hundred dollars. February 13 was one of the worst days of the winter in Norton county. Until nearly noon the wind blew and snow fell. This together with bad roads made the holding of a purebred sale next to impossible, so it was decided to postpone the sale and some of the buyers from away had already taken their trains for home when the sun came out and farmers began to drive in. Mr. Foley not wanting to disappoint anyone, went ahead with the sale, disposing of 26 head, a large part of which were late bred gilts and did not include a number of the best, tried sows and gilts. The 26 sold

# Lookabaugh's Shorthorns

More and better Shorthorns for my customers than ever before. \$20,000 worth of pure bred Registered Shorthorns to sell the next 60 days. \$1000 properly invested in these cattle will make you rich. Come early and get your pick; we pay your car fare home if you do not buy.

Foundation stock that carry the blood of the very best Scotch families.

## THE FARMER'S COW



2 heifer and a bull - milking strain, not related - \$250.

2 fresh milk cows, calf at foot and rebred - milking strain - \$350.

Strong in the blood of the most noted sires of the breed.

8 head of heifers, milking strain and Scotch herd bull all for \$1,000.

A car load of rugged young bulls, \$100 to \$150 each.

### A WORD TO MR. BREEDER

It is easy to increase the value of every Shorthorn you raise from \$10 to \$30, simply by using a better breeding bull. Stop and figure what this means even on the first crop of calves, whether you have 5 or 60 breeding cows and heifers in your herd. I have never before had such splendid herd bull material from which to select. I want to place these bulls where they will do the most good. The success of those who buy these herd bulls will prove more than all my prize winning and show ring honors my ability as a breeder. Come and see them, you will say with others they are the greatest bunch of herd header material you ever saw on any farm.

CALL ON OR WRITE

**H. C. Lookabaugh, Watonga, Okla.**

# ECKHARDT'S SHORTHORNS

OVER 100 HEAD From Which To Select

The breeding females are located on Midland Valley Railroad at Frankfort, Okla. No commercial cattle or cattle of any kind have been handled to this ranch since August and they are all in good condition and perfect health. Many of these cows and heifers are dropping calves and are due to calve the next 60 days to the great breeding bull, Rosewood Dale, a good son of the champion, Avondale.

COME TO FRANKFORT, OKLAHOMA

but wire, phone or write me at Winfield, Kan., when to meet you. We have raised these cattle and know what they are. They are strong in the blood of milking strain Shorthorns. They are the kind that will please you.

SPECIAL PRICES ARE BEING MADE

on choice young heifers and bulls eight and twenty months old to those who buy in lots of four or more. These are attractive Shorthorns and priced at right prices. Address

**Levi Eckhardt, 1203 E. 10th St., Winfield, Kas.**

# Reduction Sale of Shorthorns

Come to Doyle Valley Stock Farm



175 Head of Shorthorns consisting of many choice animals that carry the blood of noted sires and fashionable families. Built up from foundation stock purchased from the best breeders of the Southwest.

50 HEAD MUST SELL IN 60 DAYS. Here is the Bargain Counter for the man who expects to start in the Shorthorn business. All kinds of Shorthorn Breeding Stock from which to select - Cows, Heifers and Bulls, cows with calf at side others due to calve soon. Included are grandsons and daughters of such sires as Avondale, Prince Oederic and other noted sires. If you want Shorthorns come now. Write, wire or phone me when to meet you at Peabody either Rock Island or Santa Fe Depot.

**M. S. CONVERSE, Peabody, Kansas**

# HIGH GRADE and REGISTERED HOLSTEINS

OVER 100 HEAD OF COWS, HEIFERS AND BULLS.

The sire and dairy cow are here to stay. There is big money and sure profit in the dairy farm if you use the right kind of cows. The Holstein has proven her worth in the North and East and is sure to take the lead in the southwest. Visitors welcome; call or write today.

**Clyde Girod, Towanda, Kansas**

# HOLSTEINS

Herd headed by Sir Juliana Grace's DeKol. Dam one year, semi-official, milk 22087 pounds; Dam one year, semi-official, butter 924 pounds, 1928 pounds butter in three years (world's record). We will let this great bull to a few good cows this season at \$25.00. We have several young bulls for sale. Write for particulars to

**SHULTIS, ROBINSON & SHULTZ, (Owners), Independence, Kas.**

**DAIRY CATTLE.**

**HOLSTEINS FOR SALE** high bred registered bulls, from 4 to 18 months old. N. S. AMSPACKER, JAMESTOWN, KANS.

**HOLSTEINS**—CHOICE BULL CALVES  
H. B. COWLES, TOPEKA, KANSAS.

**Higginbotham's Holsteins**  
Registered Holstein bulls for sale, from a month old up to two years old, many of them from A. R. O. Dams. They are priced so they sell readily. If you need a bull see ours before you buy.  
HIGGINBOTHAM BROS., Rossville, Kansas.

**Sunflower Herd Registered Holsteins**  
A number of choice young bulls all from A. R. O. dams and from proven sires and grand-sires. (A good bull is a profitable investment, a cheap bull will prove a disappointment.) Buy a good one from  
F. J. SEARLE, OSKALOOSA, KANSAS

**HOLSTEIN CATTLE** All females and service-able bulls sold. Have nothing to offer now but bull calves from a few weeks to four months old. The calves are from good producing dams, some giving as much as 70 pounds of milk a day.  
T. M. EWING, Independence, Kan.

**Linscott JERSEYS**  
Premier Register of Merit Herd Est. 1878. Bulls of Reg. of Merit. Imported, Prize Winning stock. Most fashionable breeding, best individuality. Also cows and heifers. Prices moderate.  
R. J. LINSOTT, HOLTON, KANSAS

**SOMMER--BLADS GUERNSEYS!**  
TUBERCULIN TESTED.  
Some matured cows and young bulls by Chief Glenwood Boy of Haddon, Penwyn 2d and Flash of Fenmore (A. R. 55). Address  
ERNEST KENYON, Nortonville, Kansas

**GUERNSEYS**  
I have one very choice Guernsey bull of serviceable age, out of imported sire and dam; also one six-months' old bull—very choice.  
**OVERLAND GUERNSEY FARM,**  
OVERLAND PARK, KANSAS

**GALLOWAYS.**

**Registered Galloways**  
250 in herd. 40 bulls from 5 to 18 months, sired by the 2200 lb. Carnot. Imp. breeding. W. W. DUNHAM, Doniphan, (Hall County), Nebraska.

**CAPITAL VIEW GALLOWAYS**  
Bulls from 6 months to 2 years; also a few females of modern and quick maturing type.  
G. E. Clark, Topeka, Kan.

**RED POLLED CATTLE.**

**FOSTER'S RED POLLED CATTLE** Write for prices on breeding cattle.  
C. E. FOSTER, R. R. 4, Eldorado, Kansas.

**RED POLLED CATTLE**  
Choice bulls, cows and heifers for sale. Best of breeding. Write or better come and see  
CHARLES MORRISON & SON, Phillipsburg, Kan.

**RED POLLED CATTLE**  
BEST OF BLOOD LINES and cattle that will please you. Cows, heifers and young bulls, at attractive prices.  
I. W. FULTON, MEDORA, KAN.

**JACKS AND JENNETS.**

**Young Jacks and Jennets** PRICED TO SELL  
My own raising; all Mammoth stock, registered or eligible. All black with white points. 1 jack 4 years old, 1 1/2 hands, nicely broke and a foal getter. Write T. M. CASE, Leeton, Mo. (Johnson Co.) The product of 35 years' breeding to the best.

**Kentucky JACKS and SADDLERS**  
Fine Kentucky Mammoth jacks and jennets. Saddle stallions, mares and geldings. Kentucky quality is the best. Write for our New Booklet and save from \$200 to \$400 on your jack or saddle. Low express and freight rates. Home cured blue grass seed 50 cents per bu. Write us describing your wants.  
**The Cook Farms**  
LEXINGTON, KENTUCKY

**Jacks and Jennets**  
A good lot of two to six-year-old jacks, well broke and quick servers, the kind that gets business in any community. Reduced prices for the next 30 days. Call or write.  
**PHIL WALKER**  
MOLINE, KANSAS

averaged nearly \$35, which indicates the value Norton county farmers place on the Foley kind. Mr. Foley still has left about 25 extra choice bred gilts that are for sale at private treaty for prices consistent with values. They are all cholera immune and bred to as good boars as can be found in any herd. When writing kindly mention this paper.

**Poland China Sow Sale.**

One of the very last and best opportunities of the season to buy big, smooth, immune Poland China bred sows will be at the Gilbert Johnson sale to be held at Mr. Johnson's farm near Osceola, Neb., Wednesday, March 3. Mr. Johnson has one of the really great herds of Nebraska. He is putting in 10 of his very best tried and mature sows. These sows are out of his bunch of sows that number 27 head and they are being selected regardless of everything only breeding date. Those that will have farrowed before the sale will, of course, be kept. The boars, Choice Orange, Hather's Hadley 2d, King Giantess, Colossus and Ash Grove Hadley are the boars the sows and gilts are bred to and the fall yearlings and spring gilts were all sired by them. Choice Orange is an immense big boar and a son of Big Orange with a dam by Pawnee Lad. Hather's Hadley 2d has been a great factor in the herd. His sire, Hather's Hadley, was one of the greatest sons of Big Hadley and his dam was Bessie Blain, by Chief Look. Big Bone Wonder is another boar of immense size when conditioned, sired by Big Wonder, by A Wonder, and out of a dam by Big Chief, by Orange Chief. Colossus promised to be a 500-pound yearling but met with an accident that checked his growth. He is a splendid breeder and combines the breeding of Colossus, a prize winner of note, and Big King. Ash Grove Hadley will make one of the biggest boars going. His dam Toxina Lady 1st is the best breeding sow ever owned on this farm. She is a daughter of J.'s Jumbo. This young fellow was good enough to win first in class and championship over all breeds at Polk county fair last fall. Readers of this paper who like the big, well finished sort should try and attend this sale or be represented. Jesse Johnson will handle bids for parties unable to attend. Write him in Mr. Johnson's care, at Osceola, Neb.

**S. E. Kan., S. Mo. and E. Okla.**  
BY C. H. HAY.

We wish to remind our readers of this remarkable offering. Mr. Finley thinks this is the best offering he has ever made. It will pay anyone who is interested in jacks and jennets to be at this sale. Don't overlook the date, March 2. If you haven't already received a catalog write today for one.

**Frazier Makes Good Sale.**

That E. D. Frazier breeds the kind of Poland Chinas that the public appreciates was proved February 10. The sale pavilion was packed to its capacity and they took the entire offering at an average of \$52.50. The fact that a number of the younger sows would not farrow till late in the season is all that kept the average from going over \$60. The top of the sale was the 2-year-old sow Goldena, by Expansion Hadley. She was bought by J. A. Godman, of Devon, Kan., at \$135. Mr. Godman also bought the coming yearling boar, by Frazier's A Wonder, at \$110. Other buyers were: W. A. Baker & Sons, Butler, Mo.; W. R. Webb, Bendena, Kan.; W. Z. Baker, Rich Hill, Mo.; W. A. McDonald, El Dorado, Mo.; G. R. Meadows, Jasper, Mo.; Ed Sheehy, Hume, Mo.; J. M. Myers, Jefferson, Kan.; Geo. Argenbright, Adrian, Mo.; R. F. Hoaday, Peculiar, Mo.; M. H. Hubbard, Aulville, Mo.; E. J. Groves, Archie, Mo., and G. D. Limpus, Archie, Mo.

**Dispersion of Prize Winners.**

Chas. W. Finley, of Otterville, Mo., is going to hold a dispersion sale of his winning Durocs March 2. This is going to be one of the few chances you will have this spring, to set your own price on winning Durocs. Mr. Finley's offering is the get of champions and grand champions all the way through. He is selling them all, nothing reserved. Among them Dotie Queen, first in class and grand champion at Sedalia and the Royal, 1913. There will be a May litter out of this great sow and sired by K. F. that ought to sell high, for the man who gets them stands a good show of winning at the fairs next fall. Dotie Queen sells, bred to Whiskey and Faith, for a March litter. Bell of Missouri, by Col. Wonder, a grand champion at Sedalia. Crows Bell, the great young sow that took first at Hutchinson and Sedalia and second at the Royal in 1913. There are a number of other pigs of various ages, all carrying the blood of champions. This will be an opportunity to get something that you can take out and win with next fall. This herd is one of the strongest in champion blood that we know about and a sale that we recommend to our readers. Write Mr. Finley for a catalog. Be sure to mention this paper.

**Publisher's News Notes**

**Childs's Free Catalog.**

You will find elsewhere in the paper the advertisement of John Lewis Childs, the seedsman of Floral Park, New York. Mr. Childs is the largest grower in the world of bulb plants, such as gladiolus, cannas, and dahlias. If you are interested in any of these beautiful plants, write for copy of his catalog, mentioning this paper.

**Cow Improvement.**

The Dairy Association of Lyndonville, Vt., has for many years made special remedies for cows, and especially for dairy cows. Kow-Kure is one of these medicines. It has had an excellent record for more than 20 years. It's a good conditioner. It is excellent for preventing abortion, barrenness, milk fever and lost appetite. It is sold by druggists and dealers in 50 cent and \$1 packages. It's not a remedy for all kinds of animals. It's a special cow remedy. The makers have a valuable free book to send you, entitled "The Cow Doctor." Mention this paper when you write the company.

**How About Spring Hatch?**

The hatching season is close at hand. In his talks to the farmers and poultrymen through the agricultural press, Dr. Gilbert Hess is asking the vital question "What Are You Doing To Get Fertile Eggs For Hatching?" Poultry need a tonic at this

**Seventh Annual Sale**  
**The Lafayette County**  
**Jack Farm**



**Higginsville, Mo., Tuesday, March 2**  
**50-Jacks and Jennets-50**  
**25—Big Black Registered Jacks—25**

Every one a black one and a big one; some better than 16 hands standard, lots of bone, worlds of quality and some of the best blood in Missouri and Kentucky. Strong in the blood of the great Dr. McCord. Every animal guaranteed as represented. Nothing sold before the sale. Write today for catalog and arrange to attend this wonderful sale, the opportunity of the season.

**W. J. FINLEY, Higginsville, Mo.**

Auct. Col. Gross. Fieldman, C. H. Hay.

**Kentucky Jacks**

We have shipped from Poplar Plains, Kentucky, to Hutchinson, Kansas, 20 head of fine registered jacks. Range in age from three to eight years old, and from 14 1/2 to 16 hands, standard, all good colors, with large, heavy bone and plenty weight. We have been shipping jacks to the West for years, and this is the best load we have ever shipped, and they are for sale privately. Come and look them over and we will make prices right. For private sale catalog, address,



**SAUNDERS & MAGGARD**  
At Midland Barn. HUTCHINSON, KANSAS

**BUY YOUR JACKS OF PRAIRIE VIEW JACK FARM**

We have shipped jacks for 35 years. The same reliable guarantee goes with each sale. We have forty jacks and jennets to sell from 2 to 5 year olds, 15 to 16 1/2 hands high. We sell more jacks at private sale than any other firm. 40 miles north of Kan. City and 40 mi. east of St. Joe. ED. BOEN, LAWSON, MISSOURI

**Big Boned Jacks and Jennets**

Herd won more prizes at Oklahoma State Fair 1914 than all others combined. One of the oldest established herds in the state. J. H. SMITH Kingfisher, Okla.

**MAMMOTH JACKS**

You will find at my barns one of the largest number of best quality registered, big-boned black jacks, 15 to over 16 hands, to be found in the U. S. Reference, Banks of Lawrence. Location 40 miles west of Kansas City on the U. F. and Santa Fe. Prices reasonable.  
A. E. Smith, Lawrence, Kas.

**FAIRVIEW STOCK FARM**

Registered Jacks, bred to meet modern requirements for bone and stamina. 25 head from weanlings to 7-year-olds and up to 1200 pounds in weight. Good jennets bred to the champion Pharaoh 2491. We won the 1913 and 1914 state fair championships.  
H. T. HINEMAN & SONS,  
Dighton, Kansas.

**SCOTT'S JACK and Jennet Sale**

will be held in Savannah, Mo., March 4th; will sell 24 large black registered Mammoth jacks, 3 to 7 years old and 12 bred jennets of same type as the jacks; the best offering I have ever made. Write for illustrated catalog. G. M. SCOTT, Rea, Mo.

**35 Years A Breeder For Sale**

35 head registered Jacks and Jennets 14 1/2 to 16 hands. We raise all the stock we sell, there is no speculation profit. Reference any bank in Jackson county. All mercantile Agencies. We have the good ones. Come or write.  
M. H. ROLLER & SON,  
Circleville, Kan.

**JACKS AND JENNETS.**

**FOR SALE OR TRADE** Five jacks, 3 to 4 years old. W. E. Loomis, Route 10, Emporia, Kans.

**HALEY'S STOCK FARM**  
For Sale: Three splendid jacks in service last season. Also one reg. Percheron stallion and a few good Percheron mares. Write  
**JAS. B. HALEY, HOPE, KANSAS**

**Leavenworth Co. Jack Farm**  
25 jacks and jennets for sale. 2 good herd headers. Located between Atchison and Leavenworth on Santa Fe R. R.  
**CORSON BROTHERS, POTTER, KANSAS**

**Three Kentucky Mammoth Jacks**  
Also registered Percheron Stallion. All in service at our barns the last two seasons. Must be sold. Write us before you buy.  
**PRICE BROS., - SALINA, KANSAS**

**PUBLIC SALE WEDNESDAY FEB. 24, 1915.**  
at 2:30 P. M.; 6 miles north of Rulo, Neb. 8 jacks, all black and good ones; 4 stallions. Free auto meets all trains.  
**H. PRIBBENO, RULO, NEBRASKA**

**HOME OF THE GMANTS**  
100 HEAD JACKS and JENNETS  
Herd headers and mule Jacks. The big, black, big boned kind. Everything guaranteed as represented.  
**BRADLEY BROS., WARRENSBURG, MO.**  
65 miles east of K. C. on Mo. P. Stock in town. Come and see them.

**GRANDVIEW JACK FARM**  
STOCKTON, KANSAS, (Rooks County)  
At private sale: 18 mammoth jacks ranging in ages from serviceable jacks down to weanlings. All are black with white points and have bone, size and substance. Also 35 jennets in foal. Write for descriptions and prices, and visit my barn at Stockton. Visitors called for at Plainville. If you are looking for the best at reasonable prices write me. **Cornelius McNulty, Stockton, Kan.**

**PUREBRED HORSES.**  
**Extra Good PERCHERON STALLION**  
for sale or trade. Coming 3 years old; registered, black. **H. W. McAFEE, Route 8, TOPEKA, KAN.**

**10 Registered PERCHERON Stallions**  
ranging in ages from two years to six. Blacks and greys. Strong in brilliant breeding. Write for prices and descriptions.  
**WILL GRANER, LANCASTER, KANSAS**

**German Coach**  
70—Horses—70  
The great general purpose horse. Satisfaction guaranteed. Write or call.  
**J. C. BERGNER & SONS, Pratt, Ks.**

**IMPORTED AND HOME-BRED STALLIONS**  
FOR SALE. Can show buyers more registered stallions and mares than any firm in America. Come and see my horses and mares and visit the best and liveliest horse country in the West. Reference: Any bank in Creston, Iowa.  
**A. LATIMER WILSON, Creston, Ia.**

**Imp. Stallions and Mares**  
Percherons, Belgians, and Shires 2 to 6 yrs. old, weight, 1900 to over 2100. Paris, Mares and state fair winners. Best guarantee, prices right. Terms to suit reliable parties. Also Shorthorn bulls and heifers.  
**Joseph Roussele, Seward, Neb. (26 MILES WEST OF LINCOLN.)**

**35 MULES FOR SALE**  
In fine condition; broke to harness; 3 years old; average weight 1,000 lbs. Can be seen at any time on Riverview Farm, two miles from Kendall, Kan. (Santa Fe R. R.) Will sell all or part before March 1st. Mule buyers are requested to come to the farm and make an offer.  
**W. H. Ellison, Mgr., Kendall, Kan.**

**Percherons Belgians**  
I have a fine bunch of Percheron, Belgian and French draft stallions and one Shire stallion. Also mares, colts and fillies that I am offering for sale very cheap. I will sell you a stallion ready for service next spring for from \$300 to \$500. Some extra good ones higher. Colts and fillies very cheap.  
**J. M. NOLAN, Paola, - - Kansas**

time of the year. They need conditioning after the long winter cooping up. And who is better able to prescribe the tonic than Dr. Hess, himself a veterinarian, a doctor of medicine and a successful poultry raiser? That he has done so successfully is evidenced by the fact that Dr. Hess Poultry Pan-a-ce-a has stood before the public for over 23 years and is today used by an army of poultry raisers. This scientific preparation is guaranteed by the doctor to put your poultry in a vigorous, healthy condition (the best assurance of high egg fertility), to help hens lay, prevent baby chick ailments, like leg weakness, diarrhea, gapes, etc., and help the hatch to mature rapidly. Dr. Hess positively guarantees that money will be refunded to anyone who feels that his Pan-a-ce-a has not paid him and paid him well. Dr. Hess Poultry Pan-a-ce-a can be bought in practically every town and cross-road in the country.

**For Foot and Mouth Disease**

Under the recent urgent deficiency act which was signed by President Wilson January 25, 2 1/2 million dollars is now available to eradicate the foot and mouth disease. Up to January 1, 1915, the outbreak had cost the federal government \$2,129,138. Of this \$1,840,328 represents the federal government's share of the expense of slaughtering affected herds and reimbursing the owners for their loss, of which the government pays half and the states the remainder. The figures show that exclusive of the work in January 1915, 176 animals have been slaughtered. Of these 46,268 were cattle, 47,735 swine, and the remainder sheep and goats.

The money now at the disposal of the department will, it is believed, aid the campaign against the pestilence by enabling the government to make prompt payment to all owners of infected herds, and thus minimize the reluctance of farmers to have their stock slaughtered. In Illinois, for example, approximately \$600,000 is now available for this purpose. The loss in that state has been larger than in any other, 36,758 animals, and Ohio third with 10,111. None of the 16 other states in which there was an outbreak has lost as many as 8,000 animals.

In those states in which the local quarantines have been rigidly enforced and in which the farmers themselves have aided the authorities to stamp out the disease, satisfactory progress has been made at a smaller expense than was at one time feared. Indiana and Michigan, where the disease originated, were, for example, at first hard hit. Much of that territory is, however, now entirely freed from quarantine and in only a small area is the movement of livestock absolutely prohibited. In Indiana 6,127 animals were slaughtered, and in Michigan 7,728.

While Illinois and Pennsylvania are probably today the most seriously affected of all the states, there is, it is said, every reason to believe that energetic measures will stamp out the pestilence there as well as elsewhere. Although large quantities of stock have been affected already, the number up to the present is small in comparison with the total quantity in those states. In Illinois there were approximately 2 1/2 million head of cattle at the beginning of the outbreak. Of those 14,653 have been slaughtered. Out of approximately 4 1/2 million hogs only 21,587 had been killed up to January 1. Of the 150,000 farms in that state about 500 have been involved.

**Waters Understands Springs**

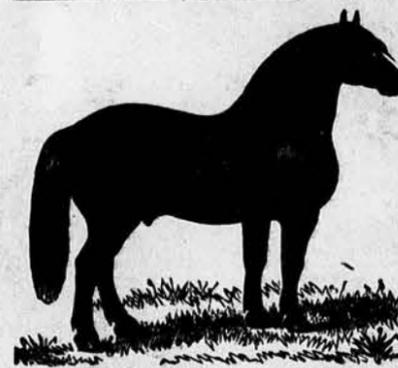
I notice Harley C. Hatch and Joseph Roung gave reasons for the peculiar actions of springs and creeks. I, too, have noticed the change of the water supply in May and October.

Much of the underground water comes through crevices in the earth crust which reach from pole to pole. The centrifugal force of the earth's revolving motion causes the water to be sucked in at the poles and it is forced out near the equator. In May the earth is tipped to the north far enough to let the water pass out at some other opening, because water seeks its level and the earth has changed its level at that time. In October the earth has been tipped back to the south and water runs to its old level and channel. It returns gradually as we notice the season changes.  
**H. S. Waters.**

Eufaula, Okla.  
Clean the stables twice each day. Use absorbents in the gutters. This will go a long way in keeping the air in the stable good.

Plenty of fresh air is necessary to the health of the herd, but it must be dry fresh air.

**Harris Bros.' PERCHERONS**  
**50 Head**



**of Percherons all registered in the Percheron Society of America**

Algarve, by Samson, at the head of herd, is a wonderful impressive sire, weighing over 2,200 pounds.

If you want Percheron stallions, we want to meet you and show you our assortment of fine young stallions. Some of them big, young fellows with a wonderful "come," other mature and ready for hard service and ranging from the low-down compact drafter to the big, handsome herd header, that is sure to please. These Percherons are strong in the best blood ever imported from France, with size, bone and conformation the good, big, draft type you are looking for. We are selling a stallion every few days because we have the right kind and at prices that are reasonable. Shipment Mo. Pacific or Santa Fe. Barns right in town. Write, wire or phone us what you want or when you will call. Address

**HARRIS BROS., GREAT BEND, KANSAS**

**LAMER**

**I have just received a new shipment of 20 Stallions and now have**

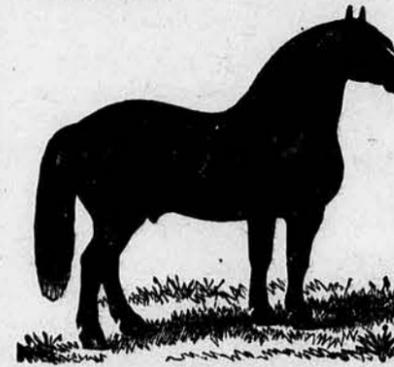
**80-Head-80**

**Stallions, Mares, Fillies and Colts**

**WRITE FOR PRICES**

**C. W. Lamer, Salina, Kansas**

**EWING BROS.' Percherons**



**60 Head of Registered Stallions and Mares**

Ranging from weanlings to mature stallions and mares. Including ton stallions, herd headers and mares of the best breeding. Matched teams, fillies and young stallions.

Also Shetland ponies and Shorthorn cattle. Herd headed by Velvet Chief 398640. Come and see us before you buy, or write your wants today. Six miles north of Pawnee Rock or 10 mi. west of Great Bend, Ks.

**Ewing Bros., R. 1, Box 28, Pawnee Rock, Kan.**

**This "Like France" Percheron farm has**

the goods, and lots of them. Registered stallions, 1 to 5 yrs. old. Jet blacks, greys. Come where the genuine good ones are. Nobody will tell you that they have Percherons as weighty, heavy-boned, rugged and useful as Fred Chandler's, or as big a bunch to pick from. You, too, will recommend this herd after you have been here. Just above Kansas City. **FRED CHANDLER, Route 7, Chariton, Iowa.**



**Registered Percheron Studs**

We have them, big fellows, 1, 2, 3 and 4 yr. olds. Real Drafters, big bone, lots of quality and action, grown right, will go out and make good both as to sires and foal getters. You lose money if you don't look at Bishop Bros.' Studs before buying. 20 miles east of Wichita on Mo. P. Ry.

**BISHOP BROS., Box A, TOWANDA, KANSAS**

**Watson, Woods Bros. & Kelly Co.**

**LINCOLN, NEBRASKA**

**Imported and American Bred Stallions,**

**PERCHERONS, BELGIANS AND SHIRES.**

We have a splendid lot of stallions of various ages selected especially for the requirements of our trade. They are big, drafty, clean boned, well finished and good actors. We have never offered better bargains.

**150 Choice Holstein Heifers** unregistered, from best milking strains, soon to freshen.  
**OUR PRICES ARE RIGHT**



# Hillcrest Farm Duroc-Jerseys

**40** BRED GILTS FROM PRIZE **40**  
WINNING Sires and Dams

Hope, Kansas

**Saturday, Feb. 27**

20 great spring gilts sired by **Select Chief**, the grand champion boar at the leading western State fairs this season and **Col. Harris**, the 1912 first in class boar. **Everything on my farm immune.**

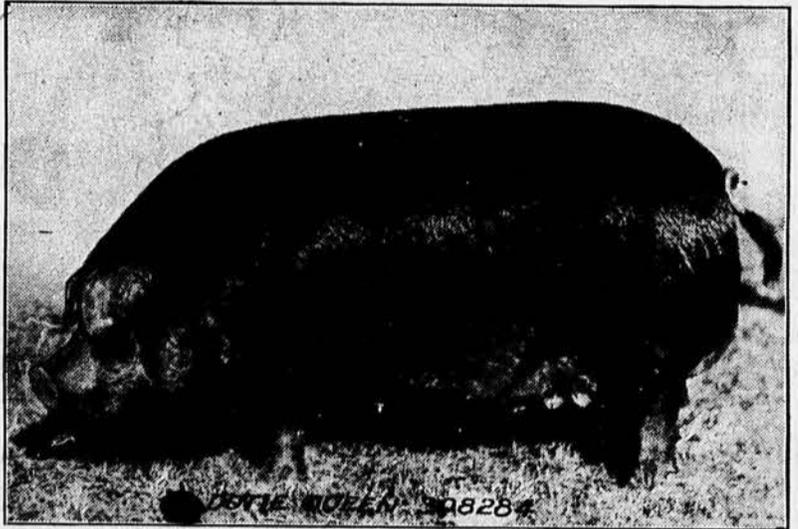
I bought the 20 spring gilts referred to above from Thompson Bros., Garrison, Kan., last fall, expressly for this sale. Many of them are out of their prize winning sows and all of them choice gilts. I also bought five top gilts from the J. O. Hunt offering of 25 gilts in his October 21st sale. They are simply great. I am also putting in 15 spring gilts, sired by Taylor's Model Chief and out of my herd sows which I think will compare favorably with any in the West. Also five fall yearlings by the same boar. **Taylor's Model Chief** was sired by **R. L's Model Chief** and was bred by R. L. Comer. He is two years old and I will leave it to you sale day as to his individual merit and his ability as a sire. All of the offering is bred to four different sires owned by me. Write today for my catalog and it will give you full information about breeding, herd boars, etc. **Send bids to J. W. Johnson in my care** and you will get a square deal. Write today. Address,

**E. N. Farnham, Hope, Kan.**

Auctioneers: W. C. Curphey, Jas. T. McCulloch, Fieldman, J. W. Johnson.

# Duroc-Jersey Dispersion Sale

Otterville, Missouri  
**Tuesday, March 2nd.**



**Dotie Queen, Grand Champion at Sedalia and the American Royal in 1915.**

**2 Great Herd Boars, Whiskey and Faith**, winner of first in class at Sedalia and first in class and grand champion, at the Royal in 1913. **RUBIES MODEL TOP**, grandson of Beauties Model Top, twice grand champion of Missouri.

**8 Tried Sows**, including the champion **Dotie Queen**; **Bell of Mo.**, by the 1913 grand champion, **Colonel Wonder**. **Bell of Mo.** won second in class, a litter sister winning first in class and grand champion at Sedalia. **Crow's Bell**, first at Hutchinson and Sedalia and second at the Royal, 1913. All tried sows bred to the champion, **Whiskey and Faith**.

**20 Great Yearling Gilts and Some May Gilts** by **K. F.**, a grandson of the grand champion, **Mo. King 2d**. Other pigs of various ages. **SHOW PROSPECTS.**

**Chas. W. Finley, Otterville, Mo.**

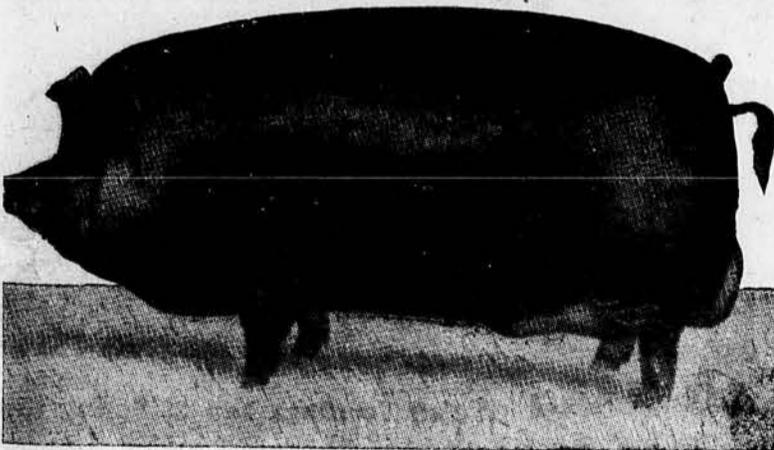
C. H. Hay, Fieldman.

Mr. Rothgeb, of Pleasant Green, sells the next day, only a short drive from Otterville. Attend these two sales for one expense.

# Samuelson Brothers' Fourteenth Annual Duroc-Jersey Bred Sow Sale

At Farm Near

**Blaine, Kan., Friday, March 5**



**40 Head of Spring Gilts** sired by **White House Martial** and **Valley Col.**, and bred to **Cherry Boy**, a son of **Cherry Top**. The offering is uniform in size, well developed, perfection in color and in excellent condition as brood sows. They were selected from our spring crop of pigs; they are bred for April and May farrow. Sale will be held in large new commodious sale pavilion; no postponement on account of the weather. Free transportation from Blaine for parties from a distance. **J. W. Johnson** will represent this paper; send bids to him in our care at Blaine, Kansas.

**SAMUELSON BROS., Blaine, Ks.**

Auctioneer, Jas. T. McCulloch.

# Smith County Breeders' Combination Registered **STOCK SALE**

In the Sale Pavilion, Fair Grounds

**Smith Center, Kas., Friday, Feb. 26**

### SHORTHORN CATTLE

**C. A. Cowan**, Athol, Kan., consigns a draft of eight Shorthorns consisting of four bulls from one year to 20 months old. Also one two-year old heifer and one four-year-old cow and two last July bull calves. The older bulls and cows are by Mr. Cowan's old bull, **Victoria's King**, by old **Victoria**. The calves are by **Avondale's Best**, by **Avondale** and the cows are bred to him. This is a pure Scotch bull and his dam, **Nonpariel Lady 4th** was by **Victor Sultan** by **White Hall Sultan**. **Oliver Dillsaver**, of Athol, also consigns two good Shorthorn cows, bred to **Scotch Lad**, a straight Scotch bull. The cows are of good breeding and are just class in every way.

### HEREFORD CATTLE

Six young Hereford bulls, all around one year old and all registered or eligible will be sold. They are consigned by **H. L. Abercrombie**, Gaylor, Kan., **H. J. Dannenberg**, Gaylor and **S. D. SeEVERS**, Smith Center. All of these young bulls trace to **Anxiety 4th**. They are choice young bulls, good individually and of good breeding.

### PERCHERON HORSES

Two two-year-old Percheron stallion colts and one yearling will be sold. **R. H. Gedney**, Gaylor, Kan., will sell one two-year-old and one yearling and both by the imported stallion **Ranvold** and out of a span of ton registered Percheron mares. **Mr. Hammond's** colt is out of a registered sire and dam. All three colts are black.

### POLAND CHINA BRED SOWS

**Lambert Bros.**, Smith Center, will sell 35 bred sows as follows: 12 tried sows, all spring and summer yearlings that have raised one litter each, four fall gilts and 14 spring gilts and five June and July boars. The entire offering was sired by **Waechter's Referee**, by **Referendum**, with the exception of a few by **Big Hadley** and **Long Look**. All are bred to a Grandson of old **Big Orange** and **Long Look**, by **Nebraska Ideal**, the best boar they ever owned. **C. A. Cowan** sells 10 bred sows, consisting of six tried sows and four spring gilts. Sired by **Expansion Boy** and **Referendum's Pride**. Everything bred to **King Jim**. Both herds represent the best in big smooth type.

### GUERNSEY CATTLE

**Mr. J. H. Duston** of Cedar, Kan., consigns a few choice young Guernsey bulls. **Mr. Duston** is building up a registered Guernsey herd at his farm near Cedar and these bulls are from his best cows.

### HOLSTEIN CATTLE

**W. A. Wilson**, Smith Center, will sell one three-year-old Holstein cow registered and **Lambert Bros.**, one two-year-old bull. Both are first class animals.

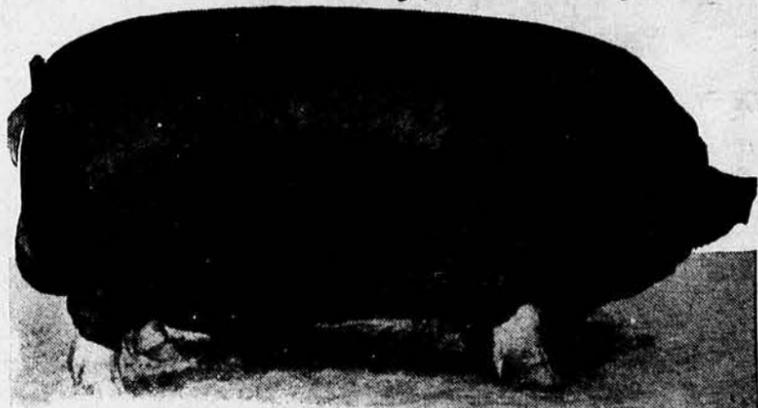
Mention the Farmers Mail and Breeze when you write for a catalog.

**W. H. LEWIS, Sec'y., Smith Center, Kansas**

Auctioneers: John Brennen, Al. Hester, R. L. Brown, J. W. Johnson, fieldman.

# Epley's Big Poland China BRED SOW SALE

Smith's Sale Pavilion FAIRBURY, NEBRASKA Friday, February 26th



Mammoth Hadley 70131. Sows in This Sale Bred to This Great Boar and Others by Him.

**40 HEAD THE BIG QUICK MATURING KIND 40**  
5 Tried Sows 8 Fall Yearlings 27 Spring Gilts

The spring gilts were sired by Pan Defender, Hutoh Hadley and Expansion Chief. Fall gilts all by Pan Defender. 10 choice Sept. boars are also being cataloged.

One litter of 5 is out of Lula B., the dam of Daisy, the 800 lb. champion sow at 23 mos. The offering will be bred to Hutch Hadley, Pan Defender, Mammoth Hadley and a good son of Pan Defender and the show sow Daisy.

This is by far the best offering we have ever had for one of our sales. Sows are included that are the equal of any that will be sold this year. Write for catalog; it gives all information. Parties from a distance stop at Merchants Hotel at Fairbury as my guests.

**W. E. EPLEY, Diller, Nebraska**

Auctioneers: Jas. T. McCulloch, C. W. Smith.  
J. W. Johnson will represent this paper. Send buying orders to him in my care, at Fairbury.

# Big Spotted Polands

**50** Big Boned, Spotted **50**  
Poland China Bred Sows

At Auction at the Farm near Cleburne, Kan.

**Wednesday, February 24th**

One of the strongest herds of big boned Spotted Poland Chinas in the West and the foundation was drawn from the best herds of the East.



A Snapshot of Some of the Splendid Spring Gilts in This Sale.

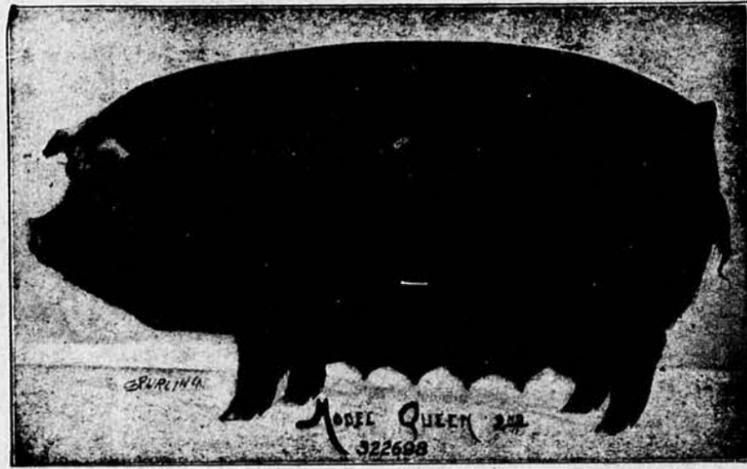
The offering is number one and consists of 10 tried sows, five of which are spring yearlings that have raised one litter each, five fall yearlings, by Big Ben and bred to Spotted King. Thirty-five March and April gilts by Big Ben and Spotted King. The gilts are bred to Spotted Giant, Big Ben and Spotted King. The tried sows to Big Ben. The herd is strong in the blood of Brandywine and Budwiser, breeding that is recognized as the best. Everything immune. Come, but if you can't come send your bids to J. W. Johnson of the Farmers Mail and Breeze and they will be handled right. Send them to him in my care at Cleburne, Kan. Write today for my catalog, which is ready. Best of train connections from all directions.

**Alfred Carlson, Cleburne, Kan.**

Auctioneers—Jas. T. McCulloch, T. E. Gorden.  
Fieldman—J. W. Johnson.

# Immune Duroc-Jersey Bred Sow Sale

At Farm Near Verdon and Shubert, Neb., Thursday, Feb. 25



**40 HEAD** 6 tried sows including Model Queen 2nd. Cut shown in advertisement. Sired by Golden Model, and full sister to the \$705 grand champion sow, Model Queen. 10 fall yearlings and 25 spring gilts, bred to Carnival Chief, Kelly's Defender, Valley King Again and Kelly's Model.

The offering of gilts will have lots of size and uniformity and will be mostly sired by Kelly's Model and Valley King Again. Both boars of quality, size and rich breeding. The offering is out of dams of Crimson Wonder and Defender breeding. I will also sell six high grade Holstein and Guernsey cows and the same number of heifer calves and one Holstein bull 2 mos. old, eligible to registry, out of a 500 pound cow. Cattle sale before dinner.

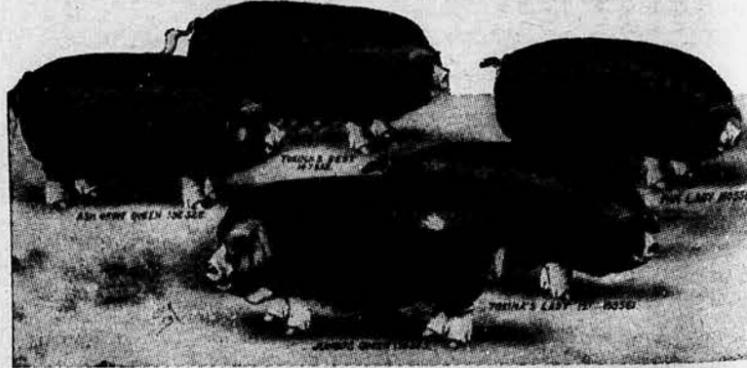
Write for catalog. Trains met at Verdon and Shubert. Free hotel, either place. H. S. Allen, Auctioneer.

**Martin Kelly, Verdon, Neb.**  
(Richardson County)

Jesse Johnson, fieldman for this paper.  
Send him bids in my care at Verdon.

# Annual Sale

Immune Big Type  
Poland China Bred Sows  
At Farm Two Miles From OSCEOLA, NEBRASKA  
**WEDNESDAY, MARCH 3**



**40 Head** Consisting of 10 Tried and Mature Sows  
15 Fall Yearlings and 15 Spring Gilts

The tried sows are being selected out of my bunch of 27 head regardless of size or quality and anyone buying a top sow at this sale can leave her and take one that I have kept in the herd if he so desires. The tried sows are mostly daughters of Choice Orange, Hather's Hadley 2nd and King Giantess. They are bred to these boars and Big Bone Wonder.

The fall yearlings and spring gilts are by the boars mentioned and Colassum, and bred to same boars with quite a number to my young herd boar, Ash Grove Hadley, one of the biggest boned and most promising young boars I ever owned. This is all big type breeding and the offering has quality to match their size. Every animal will sell upon its merit and I am sure will make good money for the man that buys it. Free hotel accommodations and transportation to and from the sale. Buyers and visitors alike welcome. Write early for catalog, mention this paper, and if unable to attend send sealed bids in my care to Jesse Johnson, representing this paper.

**GILBERT JOHNSON, Osceola, Nebr.**

Col. J. W. Thompson, Auctioneer. Fieldman, Jesse Johnson.

# Lee Bros. Greatest Percheron Sale

Sale Pavilion; Kansas State Agricultural College

Manhattan, Kan.

March 2, 1915

## 45 Head

of Imported and American bred Percheron Stallions, Mares and Colts.

**Our Show Herd.** We are including in this sale our entire show herd with the exception of our herd stallion, **Scipion** and two of his colts that we will include in our show herd at San Francisco next summer.

**Samuel**, a four year old grey stallion will weigh over 2,200 sale day. **Scipion Jr.** and **Confident** are two great sons of the old Hero, **Scipion**. Also **Neva**, one of his daughters and **Narine**, a yearling show filley and **Nadine**, the great two-year-old show mare and **May Belle**, a good black two-year-old filley. Also the great grey team, **Elsie**



Imported Grand Champion Scipion 27123 (43077) whose get will compete for World's honors at San Francisco next Summer.

## 45 Head

of Imported and American bred Percheron Stallions, Mares and Colts.

**S.** and **Isoline**, the latter an imported mare. This is a blue ribbon offering that will not be excelled this season.

**20 mares bred to Scipion.** We will sell 20 mares bred to the great Scipion, also several colts, both stallions and mares sired by him.

**Our Third Annual Sale at Manhattan.** This is our third annual sale at Manhattan from our Blue Ribbon Stock Farm and is the best offering we ever made.

Write for our big illustrated catalog and mention the Farmers Mail and Breeze.

Auctioneers—Cary M. Jones, Chicago; John D. Snyder, Hutchinson; C. M. Crews, Topeka; L. R. Brady, Manhattan. Fieldman—J. W. Johnson.

# LEE BROTHERS, Harveyville, Kan.

## Poland China Bred Sow Sale

LEBANON, KANSAS

Thursday, Feb. 25th

Sale At Farm

The offering numbers 35 head of bred sows, consisting of four tried sows that are two and three years old, four fall gilts and 24 spring gilts. Also three boars, one last spring boar and two last September boars. **Everything immuned with the double treatment.**

The sows are bred to **Springbrook Hadley**, by **Hadley Leader**, by **Smith's Big Hadley**; a good son of **Big Ben Amazon** and **Springbrook Monarch Queen**, by **Grothy King**, by **Long King** is a great sow in this herd with a great record for producing the kind that sells for the high dollar. She has daughters and granddaughters in this sale. Her last spring litter was 14 and three of the gilts are in this sale. **Everything bred for spring farrow to the herd boars mentioned.**

### I WILL ALSO SELL A BLACK PERCHERON STALLION

that is a sure foal getter and a valuable stallion. Also some work horses and high grade Polled Durham cows and heifers.

Send bids to **J. W. Johnson** and mention the **Farmers Mail and Breeze** when you write. Free hotel accommodations and transportation to the farm. For a catalog address

**Thos. M. Willson, Lebanon, Ks.**

Auctioneer, John Brennen. J. W. Johnson, Fieldman.

The Smith County Breeders' association sells Poland China bred sows at Smith Center the day following my sale.

## Immune Poland China Bred Sows

# H.C. Graner's Annual Bred Sow Sale

Lancaster, Ks., Wednesday, Mar. 3

The Sale Will Be Held At The Farm



The Outstanding Mabel's Wonder Litter Developed By Mr. Graner That Produced the Splendid Young Herd Boar, Mabel's Wonder Jr.

40 head are cataloged and is one of the strongest offerings of strictly big type Poland China sows to be sold in the state this winter.

The 10 tried sows in the sale are real attractions. They averaged a little over eight pigs to the litter last season and are proven producers of great merit. They are bred to **Moore's Halvor**, **Long King's Best** and **A Wonder's Equal**. They are by such noted sires as **Long King's Best**, **Big Price**, **Captain Hutch** and **O. K. Lad**. 12 fall yearlings by **Moore's Halvor** with two or three by **Long King's Best**. They are bred to the same boars as the tried sows with two or three to **Mabel's Wonder Jr.** 18 spring gilts, nearly all by **Long King's Best**. About two thirds of the spring gilts are bred to **Mabel's Wonder Jr.** and the rest to **A Wonder's Equal** by **A Wonder**. An attraction in the sale is the top gilt in U. S. Byrne's last fall sale. She is bred to **Mabel's Wonder Jr.** for a March litter. Also another spring gilt by **Sampson Ex. 2nd**, bred to **A Wonder's Equal**. Catalogs ready to mail. Write for one today and mention the Farmers Mail and Breeze. Address

**H. C. GRANER, LANCASTER, KANSAS**

Auctioneers: H. S. Duncan, C. M. Scott. Fieldman, J. W. Johnson.

**Circuit**  
 Herman Groninger & Son, Bendena, Kan. .... March 1  
 H. B. Walter, Effingham, Kan. .... March 2  
 H. C. Graner, Lancaster, Kan. .... March 3  
 U. S. Byrne, Saxton, Mo. .... March 4

# B-U-S-T-E-D

## P-R-I-C-E-S

**40 Acres of Bargains**

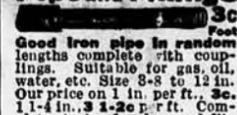
**50,000 MONEY SAVERS**

**Storage Tank Snaps**



Close riveted seams. Lot No. J-24. Cap. 3 1/2 lbs. \$4.25. Larger sizes priced proportionately low.

**Pipe and Fittings**



Good iron pipe in random lengths complete with couplings. Suitable for gas, oil, water, etc. Size 3-8 to 12 in. Our price on 1 in. per ft., 3c. 1 1/4 in. 3 1/2-2c per ft. Complete stock of valves and fittings. Send us your specifications for money saving prices.

**Read The Real Reasons**

Here's the BIG REASON in a nutshell: We undersell everybody because our buying methods are original—different from any other concern. We don't buy in the regular way. Mainly big forced sales of brand new, desirable stocks interest us; \$1,000,000 Rug Auctions, Furniture Expositions, Sheriff's and Receivers' Sales, etc. Manufacturers, Jobbers, Big Retail Stores forced to sacrifice for cash, turn to us for quick help—our tremendous Buying Power, backed by \$10,000,000 capital, gives us the first choice of the cream of such goods at our own figures.

**Hog Troughs**



Biggest trough bargain ever offered. Heavy galvanized steel cross bars and legs, securely riveted. Round bottom. Easily cleaned. Standard size 5 ft. long, 18 gauge material, each \$9c. Order by lot No. J-43. Heaviest weight galvanized iron, standard size, 5 ft. long. Each, \$1.25. Order lot No. J-44.

**Fine Bath Tubs**



White enameled cast iron, one-piece, heavy roll rim. Studded with the latest style nickel-plated trimmings, including puller double bath cocks for hot and cold water, nickel-plated connected waste, overflow and supply pipes. Order lot No. J-101.

**Kitchen Sinks**



Guaranteed "A" grade cast iron. Complete with nickel and bolts. Standard size connection. Order lot No. J-39. Painted Sinks, 18x24 in., \$7c. Order lot No. J-40. Enameled Sinks, \$2.25. Just one of our many bargains.

**Bargain Closet Outfit, \$9.98**



Five steel tank closet outfit, all grade material. Nickel plated trimmings. Golden oak case. Lot No. J-302. Other like savings in Free Plumbing Book. Send for your copy today.

Buy like we do—NOTHING BUT BARGAINS! Share the benefits of our P-R-I-C-E-W-R-E-C-K-I-N-G System. Don't pay boosted prices. Pay our B-U-S-T-E-D Prices and keep the big savings in your pocket. You can safely order anything on this page with your eyes shut, because everything we sell is backed by our \$10,000,000 "Satisfaction-or-Money-Back" Guarantee. Every article a tremendous economy, truly representative of the 50,000 additional bargains listed in our Mammoth "PRICE WRECKER." Coupon, letter or postal request brings it free.

**Combination Safe Locks**



A handy, sure and simple keyless lock for every purpose. We secured \$1.00 a remarkably low figure. Regular \$1.00 value—our special price only 40c per doz. \$4.50. Sent with plain directions for use—readily understood. Order lot No. J-168.

**98c Buys This Door**



Just one of the many money saving "bargains" on every page of our Big Free Building Material Book. Order this \$98c Bargain Door by Lot No. J-161. Ask for your copy of free book today. Mail coupon.

**Lumber Prices S-M-A-S-H-E-D**

Send Your Bills to Us

We lead the world on Lumber! No one can compete with us on our great specialty. Our bed-rock B-U-S-T-E-D prices on over 20,000,000 feet of brand new, high grade material, suitable for every building need, undersell every concern on earth. Make no mistake! When the "Great Price Wreckers" say it—it's so!! No matter who or where you are—or what you're going to build—we positively guarantee to make you a tremendous saving on material. The simple, easy way to make us prove it is to send us your lumber bills and get our figures. Prices talk! Seeing is believing. Come to Chicago. Visit our vast 40-acre PRICE WRECKING plant. View the millions upon millions of feet of choice up-to-grade lumber awaiting your selections, and all possible doubt will disappear! You will then realize that it would be the height of folly to buy lumber from any one but us. We require no money in advance. Send us your lumber bills now!

**"Harris Brothers, the Great Price Wreckers, Saved Me \$1000 on the Materials in My Home"**

So Says John Mehmken of Roscoe, Iowa

Only \$759.00 buys the material to build this beautiful modern Harris Home No. 6-J: an up-to-date full 2-story, 7-room house with bath—a real home that any real man or woman would be proud and happy to own. Easily built under our no shortage, no extras, system, with positive, accurate plans. The tremendous savings due to our different buying and selling methods; only one of over 100 similar Home Building Bargains shown in our \$10,000,000 Book of Plans. Coupon or letter brings it FREE.

READY CUT door and window frames; inside door jamba; outside door and window casings; balance in lengths to work without cutting or waste, wherever possible. Coupon with \$2.00 brings complete set of blue print plans, specifications, material list and guaranteed delivered price to your station. If plans do not suit, return them and we will refund you \$2c. We require no money down on shipments of material.



**Roofing Prices R-I-D-D-L-E-D!!**

47c for Ready Roofing

Our Ajax brand in rolls containing 108 square feet. 2 to 3 pieces in every roll. Nails and cement included. For 3-ply order by lot No. J-23. For 2-ply order by lot No. J-24. For 1-ply order by lot No. J-25. Price per square 47c. Order by lot No. J-26. \$2.69 buys 100 sq. ft. of brand new galvanized steel roofing. Perfect light weight sheets, 22 inches wide and 72 inches long, 1 1/4 inch corrugated. Order by lot No. J-27.

**95c buys the best and heaviest 3 ply rubber surfaced perfect, lasting roof covering.**

Our Ajax brand in rolls containing 108 square feet. 2 to 3 pieces in every roll. Nails and cement included. For 3-ply order by lot No. J-28. For 2-ply order by lot No. J-29. For 1-ply order by lot No. J-30. Price per square 95c. Order by lot No. J-31. \$2.75 buys our unequalled heaviest weight white marble surfaced, Gold Medal Roofing. One continuous length, rolls contain 108 sq. ft. An unequalled quality and service guarantee for 20 years goes with every roll. Nails and cement included. Order by lot No. J-27.

**Metal Roofing \$1.19**

We are originators of roofing direct to the consumer. In controlling our own factories we have made better arrangements for this season than ever before to supply positively the best roofing bargains. \$1.19 buys 100 sq. ft. brand new corrugated iron roofing; a good all-around covering; light weight, sheets about 2 ft. x 7 ft., unpainted. Painted 100 per square extra. Order lot No. J-24. \$2.69 buys 100 sq. ft. of brand new galvanized steel roofing. Perfect light weight sheets, 22 inches wide and 72 inches long, 1 1/4 inch corrugated. Order by lot No. J-25. Ask for free roofing book today.

**C-R-A-S-H Go Wire and Fencing Prices**

Strong Fencing, Per Rod, only 14c

Here is another one of our remarkable bargains. A good, heavy fence, bought in a recent big deal, for less than general prices. Other heights at proportionately low prices. Staples, 100 lbs. \$1.75.

**Galvanized Fence Wire \$1.13 per 100 lbs.**

Suitable for fences, stay wires or any ordinary purpose. This wire is irregular in length, ranges from 50 to 250 ft. not guaranteed as to length. \$1.13 per 100 pounds. Above price is for 9 gauge. Write for special quotations in other sizes at prices proportionately low. Order by lot No. J-167.

**Barbed Wire Less Than 2c per Rod**

New Galvanized, heavy weight barbed wire put up on reels about 100 lbs. to the reel. Lot 2-J-36 per 100 lbs., \$1.95. Galvanized barbed wire, best grade best made. Put up exactly 80 rods to reel. 2-point barbs. Lot 2-J-28, per reel, \$1.45.

**Big Shingle Bargains**

Save much money by purchasing now. Lot J-923. Clear 5 1/2 in. Washington red cedar shingles, per 1000, \$2.67. Lot No. J-924. Extra Star "A" Star, 6-2, 10-10 in. Washington red cedar shingles. Per 1000 \$2.89.

**White Porcelain Lavatory \$7.98**



Porcelain enameled cast iron, one piece half circle roll rim lavatory with all fittings. Lot No. J-321. See the many other savings in Free Plumbing Book. Mail coupon today for your copy. It's waiting.

**89c per Gallon for Best Paint**



The name "Michaelson" on paint has been a guarantee of quality for years. Our Paint Department is now under his direct supervision. Order by lot J-41. For best ready mixed house paint at 89c per gallon. Michaelson Barn Paint at 85c per gallon. Has no superior. Order by lot No. J-42. Write for your copy is waiting.

**Mixed Wire Nails 100 lb. Keg \$1.28**



5000 kegs, put up 100 pounds to the keg, mixed together. Lot 2-J-35, price per keg, \$1.28. 1,000 lbs. 10 penny weight regular new wire nails, 100 pounds to the keg, while they last, per keg, \$1.85. Order by lot No. J-34. Write for Free Wire and Fence Catalog. Gives valuable information. Mail the coupon for your copy today.

**Adjustable Wood Plane 75c**



A-1 Wood Bottom smoothing plane, length 9 in. Cutter 1 3/4 in. A good tool for all purposes use. All other small and large tools proportionately low. Order lot No. J-172.

**Wall Board Snap 100 \$1.66**



100 carloads of splendid 5-ply wall-board. Seconds just as good as first if you intend to decorate or cover it. Get your share. Order now. Order lot No. J-714.

**This Fine Shoe \$1.29**



Just one of the many remarkable values offered in our Shoe Department. Stylish last in Patent Colt blucher. Sizes 21-29. Width EE. Big Snap. Order by lot No. J-48.

**\$1.89 Buys this Khaki Suit**



Splendid Outing or Work Suit; heavy weight genuine Khaki cloth. Single breasted button neck coat with lapel collar, 3 outside pockets; separately heavily stitched. Trousers full and roomy, turned up, belt loops. Broad Khaki cloth belt free with each suit. Order lot No. J-169.

**\$3.99 Buys this Vacuum Suction Cleaner**



Best by every test. Vacuum cleans rugs, carpets, etc. perfectly. Sanitary steel body, beautiful mahogany finish, smooth bearings, smooth wheels. Complete with handle, etc. Only \$3.99. Order lot No. J-170.

**Gasoline Engine Snap \$21.60**



1 1/2 H.P. Here is positively the biggest all purpose small engine value ever offered for farm or shop use. Larger engines at a proportionately low saving. Send for free catalog. Order lot No. J-171.

**Four Tools in One \$285**



Combination tool, vise, drill, and file. Works easily, quickly adjusted. Steel faced jaws, opens 1 3/4 in. Width of jaws, 1 1/4 in. Case hardened anvils. Drill holes up to 1/2 in. Drills not supplied. Order lot J-7221.

**Bath Room Outfit \$21**



An actual value of \$25. A beautiful complete outfit just as good as new. Only \$21. Send for free Plumbing Book. Plumbers and electricians will be glad with big bargain offers.

**CHICAGO HOUSE WRECKING CO.**

Twenty-two years ago, the Chicago House Wrecking Co., (owned and operated by the Harris Brothers Co.), began its unparalleled career as the "Great Price Wreckers." Today this company numbers its regular customers by millions with sales amounting each year to a gigantic volume. We have saved millions of dollars for others; let us save money for you. Watch the corners! Buy with your eyes open. Study Bargain Buying and make your dollars stretch to the limit. Don't pay BOOSTED prices! Pay our B-U-S-T-E-D prices and keep the big saving in your pocket. It's your money. Make it work right. Let our "PRICE WRECKER" show you how; 50,000 Wonderful Bargains; packed from cover to cover with money-saving offers.

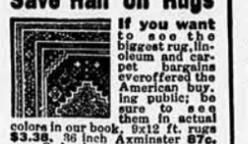
Nearly 1,000 profusely illustrated pages of clean, new, desirable merchandise for home, field and personal use at B-U-S-T-E-D prices that sweep away all competition! Mail coupon for your copy of our "PRICE WRECKER"—the famous Bargain Book that has saved millions for our Farmer Friends.

**Washing Machine Bargain \$6.49**



A big value in a big washer. Perfect, smooth, quiet running, high speed mechanism. Operated either standing or sitting. Strongly built of best material. Sell everywhere at a profit. Our low price is \$6.49. Order by lot No. J-173.

**Save Half On Rugs**



If you want to see the biggest rug, linoleum and carpet bargains ever offered the American buying public; be sure to see them in actual colors in our book. 8x12 ft. rugs \$3.38. 9x12 inch Axminster \$7c. Order by lot No. J-191.

**Roll Film Camera \$1.75**



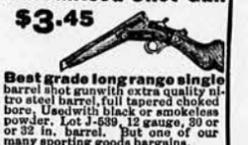
Very well made. Just the thing for boys, girls and grown ups, too. Easy to operate. No experience required to make good pictures. Seal leather case. Simple loading method. Pictures, size 2 1/4x3 1/4 in. Order No. J-175.

**Unusual Table Snap \$5.45**



Finished a rich golden color by one of America's best makers. Complete non-binding slides. Order by lot No. J-49. Price only \$5.45.

**Guaranteed Shot Gun \$3.45**



Best grade long range single barrel shot gun with extra quality nitro steel barrel, full tapered choked bore. Used with black or smokeless powder. Lot J-539, 12 gauge, 30 or 32 in. barrel. But one of our many sporting goods bargains. Write for free catalog today.

**Kitchen Cabinet \$15.98**



We are now able to save you from \$10 to \$15 on a Kitchen Cabinet with all the best features. Order lot No. J-199. Full description in our new free Furniture Book.

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You need this 50,000 Bargain Book for the big sure savings it will make for you on all your supplies and it's so easy to get! Just mail Free Coupon now and we will do the rest.

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