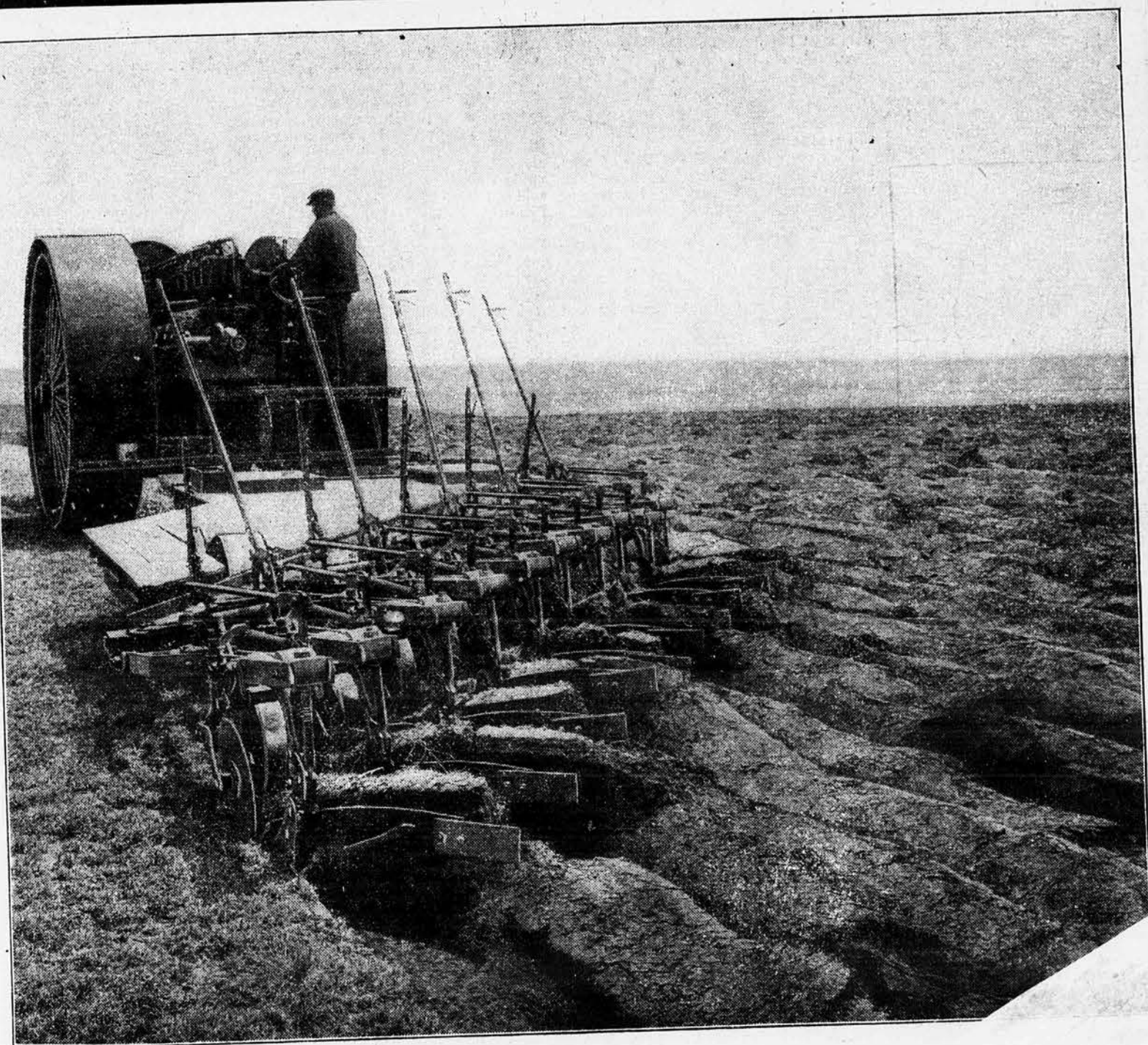


# THE FARMERS MAIL AND BREEZE

Volume 42

January 18, 1913

Number 45



It Plows, Disks, Drills, Harrows, Hauls, Threshes, Bales. Grinds, Shells, Saws, Etc.

SOME Illinois farmers, who first heard of it in Kansas, say a good stand on land valued at more than \$2,000 per acre. This is part of a micro-irrigation article to appear next week. Other leading topics are: "Mexican Beans a New Crop for Western Kansas," by W. A. Boys, and "Selecting an Orchard Site," by Perry Van Ewing. Inter-irrigation is reviving in Kansas.

FARM POWER SPECIAL



# THE SEQUEL TO THE ROMANCE OF THE REAPER

## HOW THE FARMER MAKES HIS OWN MACHINERY



THE FACTORIES OF THE INDEPENDENT HARVESTER CO., AT PLANO, ILL.

### Co-operation.

The great world-wide co-operative movement among farmers which is so influential in Europe is growing rapidly also in this country. All three of the principal political parties put in their 1912 platforms an endorsement of the farm land credit movement which is so influential in Europe.

Farmer co-operative societies in Germany alone do a business of over 4 billion dollars per year. In this country out of 6 million farmers, one-half are members of co-operative societies. The co-operative movement in this country is only about 20 years old. It has not advanced so rapidly as in Europe, but it is certain to move more rapidly in the next 20 years than ever before. We are



W. C. Thompson.

living in a new age in many ways. Most of us do not realize how great the change has been. This is true in the industrial world especially. The farmer used to be not only a producer of agricultural products, but a manufacturer also. Now he is rid of the drudgery of manufacture, but he lost something when it went out of his hands because now he has no control over the price of manufactured products which he must buy. Then he was master of his own little industrial kingdom as he is no longer. Both the farmer and the city man have profited by this industrial change on the whole, but there is a growing conviction that the farmer has not received his share of the profits of this new industrial order. All the co-operative movements spring from the same motive, that is, self betterment, though not self betterment at the expense of others.

Farmer co-operative societies are not combinations intended to exploit others. They are not a combination of the few at the expense of the many, but they are intended to be combinations, if you so choose to call them that, of millions of farmers for their mutual interest.

While co-operation has not advanced in this country as it has in many other countries, there are some splendid examples of successful co-operation. One of the most noteworthy is the co-operative creamery plants in such states as Wisconsin, Minnesota and Iowa. In Wisconsin there are about 1,000 local creameries. The average membership for each creamery is 83. The average number of cows for each creamery is 767. Almost the entire creamery business in Wisconsin and Minnesota is in the hands of the farmers and is co-operative in its intent, and as everyone knows, it has been successful. Whole

years go by without the failure of a single co-operative creamery in those states.

### Little Denmark.

Co-operation is carried further in Denmark than anywhere else in the world and it is now the richest farming country per capita in Europe, though formerly it was one of the poorest. Noted visitors and investigators who have gone to Denmark in the last year or two report that the Danish people seem to have come nearer solving their problems than the people of any other part of the world. This is chiefly due to co-operation on the part of the farmers, as that little country is not naturally rich in soil resources.

They co-operate in the selling of eggs, butter and milk. They also have their own co-operative packing houses and not a great while ago they defeated the British bacon trust intended to beat down the price of Danish meat in England.

Some progress is being made in this country to be sure. Out of long periods of agitation grew state railway and warehouse commissions and the interstate commerce commission. Better than these reforms is the fact that the farmers are making up their minds more and more to help themselves. They are building their own elevators. Today 20 million dollars is invested in farmer elevators in the central states doing a gross business of 250 million dollars yearly. Now the farmers of the country are seeking other methods of co-operation along the line of producing, manufacturing and selling. The farmers have the power if they can only get together. The farmer is the biggest capitalist in the world in the aggregate. The resources of the farmers of this country total up to over 30 billion dollars. The farmers of the country combined earn enough in 17 days to buy up the Standard Oil company, but they are not so powerful as the Standard Oil company because they do not co-operate as do the powerful financiers who are called the Standard Oil crowd. The farmers have the power. The only way they can use it is by co-operation.

### Farmers As Manufacturers.

Farmers can manufacture. The manufacturers of farm implements are for the most part farmers. Men like Wood, McCormick and Marsh were farmers. There are indications more and more that the manufacture of farm implements is coming back to the farmer. The farmer has felt he has been exploited and was at the mercy of others in the matter of price. The farmers of the country are feeling more and more that they have practically nothing to say about the price at which they sell nor the price at which they buy. They have an uneasy feeling that the old law of supply and demand has been done away with by the so called combinations and trusts. The farmer is getting tired of this. He is more and more getting into the co-operative business on his own account.

A splendid illustration of this movement is the Independent Harvester Company of Plano, Ill. It is the best illustration of farmer co-operation on the manufacturing side. It is owned almost entirely by farmers, 25,000 of them. It has branch agencies in 13 states. Its machinery sales are doubling annually. It turns out 16 farm machines and it is a result of this growing co-operative effort on the part of the American farmer in his own interest. The Independent Harvester Company began business only

7 years ago. When the whistle blew the first time six hands responded. It now has a factory force of 350 and the annual pay roll is a quarter of a million dollars. The farmers who own it represent the most intelligent and wealthiest farmers in our grain growing states, especially in the states which comprise the corn belt.

### Some History.

Plano is the logical place for the establishment of such an effort. The first American reaper was made at Plano in 1843 on the old Steward homestead by Marcus Steward and John Hollister. In 1857 it became the birth place of the second American reaper, the Marsh Harvester, invented by C. W. and W. W. Marsh. The machines were made there for several years and were sold all over the world. In the early 70's the Marsh company passed into the ownership of Wm. Deering and in 1880 the plant was moved to the present location of the Deering works in the north part of Chicago, leaving the big factory in Plano empty and hundreds of mechanics idle.

The people of Plano however revived the harvester business and established the Plano Manufacturing Company. In 1893 the plant was moved to West Pullman, again leaving the factory empty. For years the little city was practically dead.

On January 11, 1906, W. C. Thompson made a proposition to the Kendall County Farmers Institute for the organization of a Farmers' Independent Harvester Company at Plano. He recommended that this company be owned and operated upon co-operative profit sharing plans by the farmers of the United States.

It was decided at this meeting that the time had come for the farmers to go into the manufacturing business. The farmers were tired of purchasing farm implements at prices not regulated by the value given.

This small gathering of farmers started the co-operative movement that has grown to over 25,000 stock holders in 20 states. Six years ago there were less than half a hundred of them. The organization was promoted to meet existing conditions. It was suggested in large part by the co-operation of the big harvester concerns of the country who have gotten together for the purpose of increasing their profits. The farmers observed that when a few who have great financial resources get together this co-operation pays. They are coming more and more to feel that co-operation will pay when many get together. The principle is sound, and its success was assured from the start. These 25,000 farmers are making their own machines which they themselves buy and supply many of their neighbors. The increase in output each year is double that of the previous year. The meaning of this surely is very obvious.

### A Great Growing Plant.

Today the great Independent Harvester Company's buildings are filled with the most modern machinery. These buildings cover many acres of ground and in addition to this the company owns a large experimental farm on which each new device and implement is tried out. The company makes a mower, standard sulky plow, standard gang plow, a harrow made in two, three or four sections and a disk harrow. It also manufactures a light draft grain binder. In addition to these machines the company is making manure spreaders and gasoline engines. In

all 16 farm implements or machines are made by the Independent Harvester Company at Plano.

This Farmers' Co-operative Company of Plano claims the distinction of being the first organization in the United States that established the precedent of distributing the profits of manufacture to the many. Mr. Thompson claims this method will prove to be the very foundation of the establishment of a higher standard of living among the farmers. When this principle of co-operation becomes universal or well nigh so, the high cost of living problem will have been solved because all consumers will be compelled to produce what they consume either individually or by co-operation.

The publicity force back of the farm co-operative movement is a great factor in its development. Until now the work has gone on steadily without much publicity, but the farmers behind it knew the time would come when their principles must be heralded to the people of the United States through the press of the country. This knowledge is being disseminated throughout the country in various ways. One method is through the medium of a magazine published in Plano in the interest of co-operative principles. The first number of the periodical appeared recently and it is certain to be influential.

The opening of the co-operative plant has attracted 500 workmen. Skilled mechanics have gone to Plano for employment not only because they seek the wages paid, but because they are in sympathy with the movement. Many farmers of the United States obtain employment for their sons.

In investing in the stock of the organization the farmers of the country are taking no chances, for many times the saving on implements bought during one year will more than equal the amount of the stock invested and when the dividends are added to this, one can see how wisely each stockholder has invested his money.

### 25,000 Buyers Assured.

Even though implements were sold to stockholders only, think of the buying power of 25,000 regular implement buyers! This in itself means big business and these customers will never be lost. The business requires no expensive selling organization for each member is a selling agent himself and this means certain, uninterrupted business, regardless of financial conditions in the business world.

The farmer who invests today in the Independent Harvester Company, is taking a long step forward. He is putting himself where he can make money on his own purchase rather than increasing the profit of some one else.

Through conservative management the Independent Harvester Company is able to make prices below the regular prices paid for agricultural implements.

Every machine is constructed to fill a farm need in the most practical way.

The Independent Harvester Company invites the farmers of the country to go to Plano and see this remarkable plant, the largest of its kind in the world.

The company wants the opportunity to demonstrate the value of its plan. If you can't visit the factory, you can write for their literature which tells all about it and for the magazine mentioned above, which is certain to be so influential in the cause of farm co-operation. Better write for it now while you think of it, to the Independent Harvester Company, Box 22, Plano, Ill.—Adv't.





# THE FARMERS MAIL AND BREEZE

AN AGRICULTURAL AND FAMILY JOURNAL FOR THE PEOPLE OF THE GREAT WEST



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## GAS ENGINES MAKE CHORES EASIER ON MANY FARMS

IF YOU will talk to 25 farmers who are using gasoline engines you may be surprised to find that each man has an engine he would recommend you to buy. And if you are not familiar with the mysteries of this form of power you will be more in doubt about the make of engine that is best suited to your needs than when you began to investigate the matter.

I have never yet found a man who has used a gasoline engine, and exercised common horse sense in operating it, that would be willing to take a reasonable price for his engine and do his work without one.



E. B. Chalk.

The manufacturers have added improvements from year to year until at the present time an engine suitable for any kind of work can be had at a price which makes an engine, no matter whether it is a little "horse and a half" pump or chore engine, or the 30 or 40-horsepower tractor, one of the best paying investments on the farm.

Where the machines to be driven are of the kind that are usually run by hand, the small engines of not more than 3-horsepower are the most economical. It is like using a sledge to drive a tack to use the larger ones in such a case.

Where the work is heavy and the engine is working at its full capacity all of the time it is cheaper in the long run to provide two engines.

For heavy work on the farm an engine of from 5 to 10-horsepower should be used, and if all the machines cannot be located in one building the engine should be mounted on trucks so that it can be moved easily from place to place.

Unless it is desired to run a feed mill of large capacity the engine of from 5 to 6-horsepower will be large enough and can be depended upon to grind from 15 to 18 bushels of corn per hour, or drive a 2-hole corn sheller with all attachments such as feeder, cob stacker and wagon elevator. Or it will run a grain elevator of the average capacity. In that part of the country where the water supply is obtained from the underflow the little pump engine will, no doubt, prove to be the best investment considering the money involved.

One can buy one of these little engines for \$50 or less depending on the make of engine he decides is best suited to his needs, and when the well is near the house the engine can be used for power for nearly every imaginable purpose.

I have in mind one pump or power outfit, for the engine is used more for other purposes than it is for pumping, although when the man bought it he had no use for it other than pumping water.

This engine is located in a small building that has been converted into an engine room. The building was originally a "leanto" shed that had to be moved when the farm buildings were remodeled, and was 8 feet wide and 24 feet long.

The engine is a 2-horsepower and cost \$40. It is placed in one end of the building and along the side of the wall 5 feet from the floor. A line shaft was put in the entire length of the building and was allowed to pass through the end of it, with a pulley attached, so that large machinery could be run without taking it into the building.

### How Various Kansas Farmers Are Using Them to Great Advantage

BY EDWARD B. CHALK

Farm Power Editor of Mail and Breeze

The 24 feet of line shaft is of 1-inch black gas pipe and cost 8 cents per foot. The boxings in which the line shaft runs were made of hardwood and so cost practically nothing.

The pump was outside the building and an old discarded windmill head with the bearings rebabbited and a sprocket wheel on the wind wheel shaft completed the pump jack.

The pump was outside the building and an old side of the building and a chain belt transmitted the power from the line shaft to the pump jack.

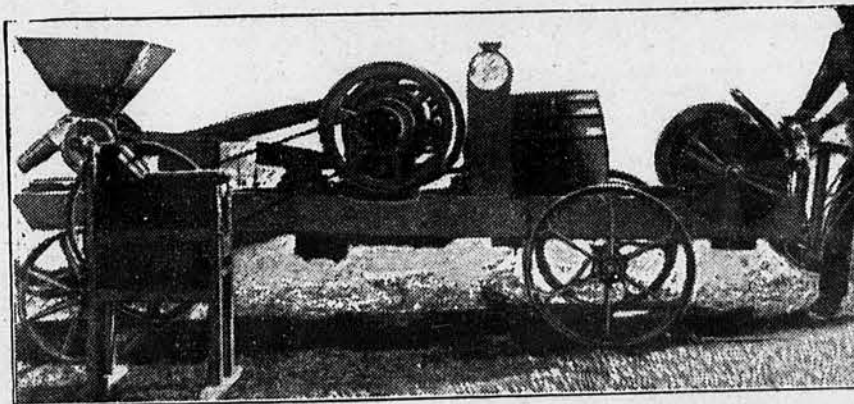
The water was piped to an elevated tank in the bath room of the house and faucets furnished water to the rooms as needed. The water is also piped to the hog lot where a hydrant and hose distribute it to the different lots. A hose is used to water a garden plot and furnishes protection in case of fire.



Robert McCarty of Lewis, Edwards county, owns the 60-horsepower kerosene tractor and the plowing outfit shown in the picture. In a 10-hour run he plowed 35 acres using 50 gallons of distillate, costing 5 cents per gallon, as fuel. This tractor is also used to pull a grain separator and is giving first class service.

Inside the building pulleys are arranged so that the many different machines such as the cream separator, churn, washing machine, emery wheel, etc., may be operated.

The washing machine is set at the end of the building near the stove so that water can be transferred handily, and a pipe from the pump supplies



A gasoline engine mounted on trucks can be used to do a variety of work from shelling or grinding corn to sawing wood. Where the machines to be driven are of the kind usually run by hand, the small engines of not more than 3-horsepower are the most economical.

water from the house tank to the boiler and machine.

The pulley that is on the projecting end of the line shaft is used to run such large machines as the grindstone, corn sheller and a small feed grinder which has a capacity of 8 bushels of corn chop per hour.

The entire outfit, exclusive of the machinery, cost less than \$60 and is a model of convenience. It is worth all it cost each year it is in use. The engine was found to be powerful enough to run all of the machinery at one time except the feed grinder, which required the engine's full power.

One farmer in the wheat belt remodeled his granary and put in an elevator. The building was built with bins at each side and a driveway in the center.

A pit was dug in the driveway and a dump installed. A cupola was built so that the grain could be run to the different bins by gravity. All of the bins had a chute which led to the elevator pit, so that the grain could be removed without labor. Grain could be elevated to a small bin over the driveway and the wagons could be loaded by simply opening a chute. Another spout from the bin led to the grinder, where the feed was ground, and an elevator carried it to the wagon so that it could be hauled to the feed bins.

The grinder had a capacity of 35 bushels of corn per hour and the engine was rated at 10-horsepower.

The farmer did the work himself and the lumber for remodeling the building, the material for the cement floor, together with all fixtures cost less than \$100, exclusive of the engine.

During the threshing season the elevator made it easy to handle the grain from the thresher with two teams and three wagons where the haul was not more than half a mile. In this way two teams and their drivers did the work usually done by three teams and one extra man to help unload. Where the work was done in this way the elevator saved him \$8 per day during the threshing season besides the work of handling his grain when he wished to sell.

The engine was mounted on trucks and was used to shell corn and do other work during the rest of the year.

Other farmers are using portable elevators run by gas engines and find that it not only lessens the cost of handling their grain but that it lightens labor.

The gasoline engine not only plays an important part in the handling of the grain but it also helps to produce it. In the grain belt where the plowing and preparing the ground for the new crop must be done during the summer months the tractor is rapidly gaining in favor.

Binder hitches, now manufactured, are so arranged that as many binders as the tractor can pull can be trailed behind with all the machines cutting a full swath and showing no signs of side draft. In case one of the machines is disabled it can be guided out of line and the rest of the binders can work without interference.

After the grain is harvested the gasoline tractor furnishes the cheapest power for threshing. It is not unusual to thresh 1,000 bushels of grain with an expense account of \$4 for fuel and oil.

In Farmers' Bulletin No. 202, U. S. department of agriculture, a table is given showing the cost of filling silos on 31 farms where steam and gasoline engines are used. In the column showing the cost for fuel the gasoline engine showed a saving of 2 cents per ton over the steamer.

(Continued on Page 2.)



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

E. W. RANKIN, Advertising Manager.

### Editorial Contributors.

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PROF. A. M. TEN EYCK, PROF. W. M. JARDINE.  
PROF. CHARLES DILLON, PROF. A. H. LEIDIGH.  
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WE GUARANTEE that every advertiser in this issue is reliable. Should any advertiser herein deal dishonestly with any subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us within a week of its occurrence, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in Farmers Mail and Breeze."

### SPECIAL NOTICE TO ADVERTISERS.

Changes in advertisements or orders to discontinue advertisements must reach us not later than Saturday morning, one week in advance of the date of publication. We begin to make up the paper on Saturday. An ad cannot be stopped or changed after it is inserted in a page and the page has been electrotyped. New advertisements can be accepted any time Monday. The earlier orders and advertising copy are in our hands the better service we can give the advertiser.



**PASSING  
COMMENT**  
by  
**T. A. McNeal**

### USE THE COUNTY FARMS.

A subscriber from Perth, Kan., suggests that the county farms be utilized to try out the farm adviser idea. He would put the supposed farm experts in charge of these county farms and put it up to them to make a success or quit.

In other words, he would make of each county farm an experiment station where different methods of growing and handling different kinds of farm crops, stock, etc., would be tried out and the other farmers in the county given the benefit of the experiments. He would have the expert in charge of the county farm keep a careful record of the amount of different crops produced per acre, the cost of production and marketing, the cost of raising and caring for the different kinds of stock and the amount received.

The idea is worth considering, but the subscriber should take into account the necessary difficulties in carrying out such a plan. To begin with, the county farm is not founded on the theory of making it a commercial enterprise, but as a charitable institution. Fortunately in most of the counties in Kansas there are not a great many infirm paupers to be cared for, but in most counties there are some, otherwise there would be no need for a county poor farm.

These inmates, while some of them may be able to do some work, are necessarily inefficient and cannot produce enough to pay for their keep. They would be a load on the experimental farm. The expert in charge would say that it would be impossible for him to make a good showing on the farm, from a commercial point of view, so long as he was burdened with these helpless or partially helpless creatures. In other words, the cost of feeding and caring for these inmates would have to be charged to the cost of production on the farm.

However, it is possible that the cost of caring for the inmates might be kept separate from the cost of growing and caring for the crops and stock. At any rate, the proposed plan is worth serious consideration.

### THE EVIL OF INTOLERANCE.

Intolerance always has and perhaps always will be the greatest obstacle in the way of progress. It seems to be nearly impossible for the human animal to be fair. If a man advances a theory that runs counter to what we have always believed, most of us are prone to want to smash him, not to argue with him in a calm and dispassionate manner.

In all the ages the advocate of a new theory that runs counter to the accepted beliefs has been the subject of persecution. He has never been given a fair hearing. And oftentimes the reformer, the advocate of a new and beneficial theory, is, strange as it may seem, almost as intolerant and bigoted as his oppressors. Let him once attain to power and the

probability is that he will himself become an oppressor and intolerant of opposition. And so the progress of the world drags because of the unfairness, selfishness and intolerance of men.

The great wrongs of the world have been done by the favored classes, the special interests, the powerful few who control the government, the wealth and religion of the world. They have always exploited the masses, taken advantage of their poverty, their ignorance and their superstition. They have used remorselessly their power to oppress and whenever able have destroyed the men who were bold enough to cry out against oppression and speak for the cause of human liberty and equality of privilege. Sometimes the power of the favored few has been overthrown, and then too often the formerly oppressed become the oppressors and as intolerant and cruel as those they overthrew.

My sympathies are always with the under dog unless it is a case where the under dog plainly brought the trouble on himself and mistaking the ability of the dog he tackled, simply got what was coming to him, which was a good licking.

In labor difficulties my sympathies are generally with the men and women who do the work and who are striving to better their condition. I have little sympathy to waste on the possessors of swollen fortunes, the greater part of which they never earned, but which have been accumulated by the creation of fictitious values, the issuance of stocks and bonds for which practically no equivalent has been rendered. These stocks and bonds, created without labor, spawned in the offices of the skillful financial manipulators, have been exchanged for the wealth created by labor and this wealth has been transferred to the coffers of the powerful few.

As I have said I have no sympathy to waste on them. My sympathies are with the other side. I regret to say, however, that a number of the supposed advocates of the rights of those who toil, who give real work and a good deal of it in exchange for what money they receive are often as intolerant and guilty of as unjustifiable methods as the wealthy buccaners of finance who have gathered illegitimate fortunes.

It may have been that some of the defendants at the great trial at Indianapolis were unjustly convicted, but I am forced to the conclusion that they were for the most part aiders and abettors of the McNamaras in the crime which resulted in the death of a number of innocent laboring men in Los Angeles. By their confession the McNamaras destroyed all doubt of their guilt and the testimony in the long drawn out trial at Indianapolis seems to prove pretty clearly that the labor leaders tried were guilty as charged.

In the great strike at Lawrence my sympathies were entirely with the strikers. I think that the conditions in the factories there were intolerable and that the operators were entirely justified in their strike. In the trial of Joseph Ettor, tried on the charge of being accessory to the murder of one of the factory girls killed during the strike, my sympathies were entirely with Ettor. I was glad to hear of his acquittal for I believed that the charge against him was unfair, but now he is quoted as advising the striking waiters in New York to make the food prepared by them for the capitalists unsafe to eat.

It may be that Ettor didn't mean to suggest that they actually poison the food. It may be that he intended to suggest that they slip in an emetic or a cathartic or something of that sort, but at least some foolish waiters will take it as a suggestion that they shall commit murder.

It is also possible that Ettor has been misquoted. It seems hardly possible that any man in possession of his senses could be so inhuman as to suggest a course that would possibly lead to wholesale murder. If Ettor is not insane he must know that such advice is not only a crime but that it must work irreparable harm to the working people he professes to want to serve.

Suppose that they should poison a capitalist who doesn't deserve much consideration, he must know that there would also be people murdered who are in no way to blame for any of the injustice of which he complains.

So I am disposed to give him the benefit of the doubt and to believe either that he did not say what he is quoted as saying, or that he is insane. Maybe intolerance is a species of insanity. At any rate it is the bane of progress. It has kept men from getting together. It has caused untold suffering, bitterness and bloodshed.

### A CONSTITUTIONAL CONVENTION.

I believe the time has come when Kansas should have a constitutional convention. Considering the time it was made, the constitution of Kansas was an admirable document, but that was more than 50 years ago.

The world has moved up quite a bit in 50 years. It was impossible that the framers of that constitution could look ahead half a century and see the changes that would be brought about. Conditions both social and commercial are vastly different now from what they were 54 years ago, when our present constitution was framed.

The people of Kansas are entitled to a fundamental law that is up to the times and that will not hamper them in their march of progress. It is nearly certain that a constitutional convention would have been called several years ago if there had not been a fear that the delegates to the con-

vention would have been elected solely on the issue of prohibition. While it is probable that no time within the past quarter of a century could a new constitution have been adopted that left prohibition, it was felt that a bitter fight would have raged about that question and other changes of importance would have been lost sight of.

At present there is hardly a possibility that there would be a serious effort made to go back to the old plan of license or local option. This is especially true now that women have been enfranchised. A large majority of Kansas men are now favorable to prohibition as a state policy and a considerably larger majority of the women of the state are in favor of it. So it does not appear to me that the advocates of that policy have any reason to fear the framing of a new organic law.

### PITY THE OLD MAN.

Frank Rockefeller, brother of John D., has for a number of years owned a cattle ranch out in what is now Kiowa county. It is said that Frank and his brother have no brotherly affection for each other. John so far as I know has never publicly expressed his opinion of Frank, but Frank has not hesitated to say what he thinks about John D.

His latest statement is that John D. is the most lonesome man in the United States; that there is no man he can really call his friend; that while he has vast property interests and more money than he can spend, he really has at this time no say in the management of the vast concern of which he is supposed to be the head.

For years, according to his brother Frank, John has been possessed of a fear that he will be kidnapped and held for ransom, and this fear has grown with age until it has become a sort of mania with the old man. When he goes out he is accompanied by armed retainers like one of the old feudal barons. It is said that there are secret passages constructed on his premises so that he may go from one place to another unobserved.

If what Frank says about his celebrated brother is true, then the poorest citizen of the United States who is possessed of health and strength has no reason to envy the man with his hundreds of millions. Of what use to him are his multiplied millions? It is said that his digestion is not good and for that reason he has to confine his diet to a few plain articles of food, and those of the cheapest sort. His money buys him a palace, but it cannot buy him peace of mind. At his side by night and by day is the specter of his imagination.

Frank Rockefeller is right when he says that he would rather be a Kansas homesteader, working hard and living in a claim shanty, with little money any of the time and none at all part of the time, than to be in the situation of John D. with all of his hundreds of millions.

The Jewish king who prayed that he might have neither poverty nor riches had the sensible view of life. Extremes of poverty or riches are not to be desired. The ideal condition in life is to be able to live in reasonable comfort, to be possessed of health and to so order your life that you can look every man in the eye unashamed, feeling that you have never intentionally done any man a wrong and that so far as you were able you have helped to make the world a better place in which to live. The limitation of fortunes would be a blessing even to the rich themselves.

In this connection I am reminded of the observations of a philosopher. "Pleasure," said he, "is largely a matter of the imagination. The body demands a certain amount of nourishing food and raiment sufficient to keep one comfortable and to enable him to appear respectable. A dwelling place that affords decent, comfortable shelter from the winter cold and the summer heat, some pictures, flowers and books to satisfy the natural and proper taste for beauty and intellectual enjoyment. All these things can be supplied with a moderate income and wealth beyond that is mostly a burden and source of worry and vexation.

"Do not be simply a dreamer, idling the hours away in vain speculations that amount to nothing, but indulgence in day dreams to a limited extent is not an evil.

"Children are natural day dreamers and romancers. They build play houses of sticks and stones and people them with the creations of their imaginations. They play that they are fine ladies and princes with authority and royal vestments. They spread imaginary feasts, and broken pieces of crockery, under the magic wand of childish fancy are changed to dishes that might grace the table of a king. Wooden sticks are changed to swords and guns and incipient commanders lead imaginary armies against imaginary foes. The wondrous alchemy of imagination changes twittering little song birds into fierce condors and eagles that bathe their pinions in the dew of the clouds, and gentle sheep are metamorphosed into wild beasts. And men and women are but grown up children after all.

"The day dream moderately indulged in affords relief and recreation. Palaces do not have to wait the slow process of the architect and the builder. Fancy can build them in an hour. The dreamer can revel in well appointed grounds with shaded walks and arbors covered with vines and sweet with scent of flowers, marble fountains casting silver spray into the sunlit air; green pastures and wooded slopes stretching away to the banks of clear streams whose



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waters dance over pebbly bottoms and fall in rhythmic music over picturesque cascades on their way to mingle with the sea. And all this without money and without price, no fear of investigating committees or envious spoiler's hand, or kidnappers planning for a ransom. It is well sometimes to be able to sit down and dream."

## IMPEACHMENTS A reader interested in the IN THE SENATE. Archbald impeachment case asks how many times the

United States senate has sat as a court of impeachment.

The present case is the ninth that has been presented to the senate. The first case was that of Senator William Blount of Tennessee. The senate sat as an impeachment court from December 17, 1798, to January 14, 1799. The case was dismissed for want of jurisdiction, Blount having resigned before the proceedings were commenced.

The second case was that of Judge John Pickering of the United States district court of New Hampshire. The senate sat as a court of impeachment from March 3, 1803, to March 12, 1804, and finally sustained the charges against Pickering and removed him from office. Evidently there was no hurry in the trial.

In November, 1804, Samuel Chase, associate justice of the supreme court, was brought before the senate for trial on impeachment. The trial lasted until March 1, 1805, and resulted in the acquittal of the judge.

The impeachment trial of Judge James H. Peck of the district of Missouri commenced April 26, 1830, and lasted until January 31, 1831. Peck was acquitted. The impeachment trial of Judge West H. Humphries of the United States district court for middle, eastern and western Tennessee was commenced May 7, 1862, and ended June 26, 1862. Humphries was found guilty and removed from office.

The impeachment trial of Andrew Johnson, president of the United States, commenced January 25, 1868, and lasted until May 26, 1868. He was acquitted by one vote, that of Senator Ross of Kansas.

William W. Belknap, secretary of war, was tried on impeachment in 1876, his trial commencing on March 3 and ending August 1. He was acquitted. Charles Swain, judge of the United States district court for the northern district of Florida was tried on impeachment, the trial commencing December 14, 1904, and ending February 27, 1905. He was also acquitted.

The trials have resulted in two convictions, five acquittals and one case dismissed for want of jurisdiction.

## AN IDAHO MAN'S EXPERIENCE AND OPINIONS.

Editor Mail and Breeze—I am not a little amused and highly entertained by the discussion of Socialism by your contributors. It certainly shows an interest very deep-seated in a question that can no longer be ignored, and I think the Mail and Breeze is doing a splendid work, not only in permitting this discussion, but in its impartiality in discussing economic questions.

Not one in a hundred of the great newspapers of this country is in the least a representative of the opinions, aspirations and feelings of its readers. They are simply the lordly assumption of superior wisdom on the part of their editors, who seem to think they are specially delegated to tell the common herd what's what, why its what and what for, and they resent any attempt on the part of their readers to give them pointers on questions about which the common people are better posted than they. No one should expect everything that floats into a newspaper office to be filtered out through the columns of the paper, but it certainly is a healthy indication to see intelligent discussion of vital questions exploited in the manner in which your paper is doing.

In your issue of December 21 there are "Three Opinions on Socialism" that are interesting in more ways than one. The first one wants to retain the essence of competition in his plan, the second one has government ownership all mixed up with his brand of Socialism, while the third, according to my views, has the proper construction put on it.

As for competition, it is hardly worth while to discuss that in the light of the events of the last 25 years, in which time every expedient known to present day capitalist economy has been tried to resuscitate that cadaver without success. It is dead so far as "big business" is concerned, and, as J. P. Morgan says, "you can't unscramble eggs." This is Mr. Morrison's specific.

Mr. Shepherd seems wholly at sea as to the real intent of Socialism. Government ownership as practiced in many countries today and the Socialist co-operative commonwealth are widely at variance. Under the co-operative commonwealth Mr. Shepherd would not be anybody's "hired man," for he would own his own job. There would have to be directors, superintendents and managers of industries, but there would be no bosses, and instead of being "politicalized," as Mr. Shepherd puts it, politics, from the very nature of such a policy, could not be known.

Now, I can give you a concrete example of what Mr. Allgor means by the laborer or producer getting only one-fourth of what he should have. I have kept an accurate account of every melon I have raised every year since I have been here and one year, as an example, I raised what sold at retail for a few dollars over \$1,800.

Now I am not guessing at this, for I have verified every point and know that I am under instead of over the mark on this point. What did I get out of that \$1,800? I netted \$260. Where did the rest go? Well, I will not itemize here but give one or two pointers. A carload of melons to almost any Mississippi river point or Chicago costs the grower \$200, and as for express it is prohibitive that distance.

I shipped 129 crates of melons to Pocatello in this state on which I paid \$122.50. Not being able to sell them in Pocatello, I shipped on to Butte, Mont., for which I paid another \$122.50, making the express on 129 crates to Butte \$245.

It is true that I could have shipped direct to

Butte for the \$122.50, but what sort of robbery is even \$122 to the furthest point?

Now, I do not think Mr. Allgor ever intended to say that anyone could pay five times as much as they do for labor under present conditions. It would be impossible, but if I and all other producers could get what is justly due us it will be seen at a glance that even under the present system we could pay vastly more for labor than we do. What I think Mr. Allgor intended to say is that all producers of every description are exploited out of four-fifths of what they produce by a class of parasites that produce nothing, and that if we could get our full product as we should we would all be getting five times as much as we do, and that is gospel truth. We, as producers, are simply the "hired men" of grafters.

I note another significant point in the whole situation, and that is the contradictory attitude of the capitalistic press in suggesting a cure for the conditions embodied in my own case. Some want to "bust the trusts," reduce the tariff and restore competition, and probably in another column of the same paper they say the farmers will have to co-operate to save themselves. So there you are.

What is co-operation but Socialism? Every suggestion that amounts to a rap for the farmers' benefit is Socialistic through and through. Yet the very people who make these suggestions shy at Socialism. The fact is, brethren, we are all coming to it and nothing on earth can stop it. Take your medicine.

J. W. C. SPRINGSTINE.  
Payette, Idaho.

## DEFENDS THE SCHOOL OF MINES.

Editor Mail and Breeze—I picked up the Mail and Breeze the other day and found in "Passing Comment" a reference to the state school of mines, established and located at this place by the last legislature. In years of acquaintance with you, personally, and through your publications, I have never found you wrong, except when deceived by appearance or misled by a friend. While I know of no such instance, my faith in your manhood and generosity is such that I am satisfied if you did a subject or an individual a wrong, your big heart would prompt and your big mind make wrong "right again."

You are not to be blamed for the position you take, regarding the school of mines, as there have been nothing but misleading information, prejudicial statements and absolute falsehoods from which to form a conclusion. The law was passed in good faith and the legislature was made to see the need of the school. The governor gave it his approval, recommended it in his message and talked for it while the bill was pending. He and the regents of the university knew exactly what the school meant and failed to object to it or to combat its passage. The regents were given control of it and it seems, from the sequel, that they permitted it to pass, with

*Abolishment of life terms for federal judges is one of the Reforms every good citizen should work for.*

—ARTHUR CAPPER.

the idea they were empowered to repeal the law at Lawrence! They refused to open the school—members even declaring the legislature did not know what it was doing and that they positively would not open the school. We were doing our best to get them to act, as many young men were ready to enter.

But they simply refused to make any move toward performing their sworn duties, until further forbearance looked like cowardice and the supreme court told them in plain terms to open the school and do it quickly. And they got busy.

In August, they suddenly went to work, purchasing about \$12,000 of necessary apparatus and employing a Prof. Ernest McCullough, with assistants, to come here and make a showing, not in accordance with the law but in compliance with the mandate of the court. He found after a few days here an absolute demand for the kind of school the law contemplated and began to strive for its success. He lasted until September 19, 1912.

Prof. B. L. Wolfe was then sent as director and he chose as assistants Profs. E. C. O'Keefe and A. W. Young. They have been handicapped by the regents, by the positive instruction not to comply with the section of the law providing for special courses—something every technical school or college in the United States allows.

With the handicap they placed upon these teachers, with the intent to kill it, it has now 14 regular course students and 49 applicants for special courses, that are forbidden by these self-elected solons! Besides these, many have become discouraged and gone to other institutions or have given up their intention of entering. All the effect of their damnable work of "control."

Now, I think if this be true—and I assure you it is and will prove it all when the matter comes before the next legislature—you will acknowledge that you have formed your opinion expressed in "Passing Comment" from unreliable information and man that you are, I believe you will do right. This furnishes a page in Kansas history that the average citizen will be glad to pass over without comment.

The school is here to stay; it is necessary; the more than a hundred thousand mine workers, other laborers, mine owners and friends of education—not the regents—are behind it.

The Federationist will contain an article next week that indicates what I say here. This school is going to be a success, in fact is a success now, notwithstanding the handicap of the university interest. A school of mines at Lawrence would be as consistent as a naval training school at Great Bend. Miners, men with the practical knowledge of mining, cannot get a technical education at Lawrence. Men who are new to the business cannot get a practical education in mining at Lawrence, therefore the necessity of this school.

One thing is promised by the incoming administration that should, if they accomplish it, be something to recommend it—the abolishment of these dictators. It is no stretch of imagination to predict that if Strong and a board are continued they will assume, in a short time, the right to censor our domestic affairs and govern sex!

There is a fight on! It is a shame that in the end that greatest educational institution in my mind in the world, the Kansas university, will have to bear the brunt. There has been for years an embryo rebellion existing against these political governors and now it is coming. In fact, if I were to express an opinion, it is here. And there was no necessity for it. The Foster bill, now before congress, is the secret of the opposition. That bill donates to each state school of mines \$25,000

per year for mine experiment purposes. Lawrence wants it.

Well, Tom, I don't know how much of this letter you will absorb now, but I know that you will get the idea when "thrashing" time comes. I write this as a friend and hope you will still consider me one of your warmest.

J. W. TARRELL.

Weir City, Kan.

## Si Plunkett On Reforms

"I believe in reforms," says old Si Plunkett, "but my observation of reformers is that they are apt to get too all-fired dogmatic. They are not all that way, of course. There are some reformers who are reasonable and inclined to listen to argument, but a good many of 'em set up a standard of their own and insist that everybody else must come to that or else they will have nothing to do with 'em."

"When a reformer gets into that state of mind he is apt to be a blamed nuisance. He gets a fad. At first maybe he hasn't got it so very bad, but he keeps studying that fad and thinking about it and arguing it 'till finally that particular fad gets to be a bigger thing in his mind than anything else or everything else put together."

"I used to know one whose fad was eating. He reasoned out a theory and built it up till in his mind there wasn't a crack in it anywhere. His theory was that a man's character was determined by what he ate. He insisted that if a person would eat a certain kind of grub and keep at it long enough it would determine his disposition."

"For example, he insisted that if a man would live entirely on hog meat in the course of time he would get to have all the characteristics of a hog. He would get so that he would grunt instead of talk like a human and would finally have an irresistible desire to root in the dirt and lie in a wallow. If he lived on vegetables and milk and fruits, on the other hand, he would become gentle and an all around good man."

"So he figured out a bill of fare that he considered just the thing and commenced to preach his diet doctrine to any person who had the patience to listen to him. The more he argued it the more unreasonable he got to be. When a person would take exceptions to his doctrine he would get hot and say that the man was ignorant and vicious and a fool."

"After awhile it got to the point that people shied when they saw him coming. If he saw a man carrying a beefsteak home for dinner he would jump onto him and tell him how he was ruining his health and retarding the progress of society and helping to drag the nation down to general ruin."

"He had a good peaceful old neighbor who attended strictly to his own business, worked hard and paid his debts and helped his neighbors when they got in trouble. This man liked to sit out on his front porch after supper and smoke his pipe in peace. He had a notion that so long as he didn't bother anybody else with his smoke and paid for his own tobacco it wasn't anybody else's business particularly if he did take a smoke after supper, but the food crank couldn't see it that way. He insisted on coming over and bothering the old man when he was taking a quiet smoke."

"He had a lot of statistics that he had accumulated showing that tobacco was undermining the physical health of the people and cutting off the years of the smoker's natural life."

"For a good while the old man who smoked listened and didn't say much, but finally he got sort of weary and turned loose on the health crank. 'Now,' he said, 'I have lived a little more than 70 years. I have smoked a pipe for more than 50. I have never paid out a dollar for doctors' fees. If this is poison it has worked mighty slow in my case.'"

"Maybe I would have lived a few years longer than I will live if I had never touched tobacco, but as I have lived about as long as I want to anyhow I can't see that it makes so very much difference. There is one thing certain. If I am cuttin' myself off in the flower of my manhood at the immature age of 80 or 90, I ain't goin' to hold you responsible. My private opinion is, however, that your lecturin' and hectorin' me and rilin' me up as you do is doin' me a tarnation sight more harm than this pipe and as this here happens to be my premises, which I have paid for with my own earnin's and which is free and unencumbered from all mortgages and liens whatsoever I prefer that you git off and stay off. I would also advise that you git a move on to one't if not sooner, otherwise I may forgit my religious trainin' and bump you one. Furthermore I think maybe if I git started you will find me a right husky old boy even if I have shortened my life by the use of the noxious weed that you talk about. And there was something in the look of the old man's eye that convinced the health crank that he meant business. After that the old man smoked his pipe in peace."

"Now I am not sayin' that that man wasn't a genuine reformer. I think he was, but the trouble with him was that he insisted on havin' everybody else toe up to the line that he established in his mind. He couldn't see that what might be nourishin' and healthy for one man would make another man sick."

"I hev seen men who actually doted on Limburger cheese and they seemed to be about the healthiest human critters I ever laid my eyes on, but I don't want them to come round me and insist that 'the only way to keep healthy is to eat Limburger cheese regular.'"



# Ways-Means-Results

Worked Out by Mail and Breeze Readers

## How Peanuts Are Planted

Mr. Editor—This is my way of planting Spanish peanuts. First I plowed the ground May 8. Then harrowed it lengthwise and crossways, and on May 10 harrowed the ground again to loosen it up. Then I took my cultivator and put the arch on to make the rows 2 feet apart. With the cultivator I laid off the rows, letting the cultivator down in the ground about 3 inches. After I was through with the rows I dropped the peanuts two in a hill, 1 foot apart. Then I took a 2 by 4—10 feet long and hitched a team to it and rode on it. This made the rows as level as a floor. The peanuts were not long coming up. I worked them with a five-tooth cultivator five times to keep out the weeds and grass. From 10 rows 40 hills long I picked 9½ bushels of peanuts. It was so dry here in the summer that all of them did not make nuts. W. J. Hardy.

Drummond, Okla.

## Pumpkins Good Feed for Cattle

Mr. Editor—My best producing crop is pumpkins. The land should be plowed very deep early in the spring and harrowed at intervals until May 10 when it should be well disked. Plant only the large late varieties. Drop the seed 1 foot apart in rows 3 feet apart and put on a 3-inch mulch of straw or hay the same day the seed is planted. This will make a thick stand and they will smother all weeds but the cockleburrs, which should be pulled up. Pumpkins planted by this method will yield at the rate of 1,000 bushels per acre.

I consider pumpkins worth 20 cents a bushel for cattle feed. The silo will be found to be a soil robber but this cannot be said against pumpkins for after they are hauled off the mulch and vines may be disked into the soil for humus.

Pumpkins should be gathered before freezing weather and stored in frost proof granaries until zero weather then they should be put in cellars. When left to freeze and thaw they become unfit for food and if fed to milk cows will decrease the flow of milk the same as frozen hedge balls, apples or root crops would do.

Cedar, Kan.

Edward Lind.

## A Silo of 2 by 4 Lengths

Mr. Editor—I am planning to build a silo which I believe requires no special skill in putting up and which can be built at less expense than most other types. It will be octagon-shaped and the idea was suggested by the forebay of a water mill here which has successfully withstood a heavy pressure of water from the inside for a long time. My silo will be 14 by 28 feet in size with a foundation and floor of concrete. The foundation will be set below frost with projecting anchor bolts rising from the top of the 12-inch foundation wall. The wall of this silo will be built of lengths of 2 by 4s laid and spiked flat side down and mitred together at the joints. A coating of tar will be applied to each layer to prevent decay by moisture getting in. The corners will be reinforced by bending strips of iron about them at intervals and nailing them down. The inside is to be finished up with tar and roofing paper and the outside weather boarded.

A. L. Brace.

There is a silo on the market built almost identically along the lines Mr. Brace describes. In the vicinity of Tonganoxie, Kan., 10 of these silos have been put up and seem to be giving satisfaction.—Ed.

## An Old Kafir Grower's Methods

Mr. Editor—I have raised Kafir from its first introduction into Kansas and I have faith in it as the most valuable grain and forage crop for this state. From years of experience I know it is equal to corn in every way except for fattening hogs. I would rather have ear corn for hogs than Kafir, but at

the same time hundreds of top hogs are sent to Kansas City from my neighborhood that are fattened on nothing but Kafir. I have found threshing Kafir a waste of time and money for Kafir should never be fed except on the head, or ground, head and all. It will keep indefinitely either way but when threshed it is hard to keep and is a poor feed besides, because the stock will eat so much of it whole.

As for it being hard on land, we have fields here that have grown nothing but Kafir for 15 years. They are now producing better crops than ever. Oats, flax, or millet are almost sure to make a failure when they follow Kafir, but corn always makes good.

The big, black-hulled variety is no doubt the best Kafir to grow, as it responds to selection of seed more quickly than any grain I know of. Two of my neighbors and myself have been working for years to keep it early, and, while throughout the big Kafir belt of Greenwood and Butler counties the last of September, 1911, the farmers of that section were much afraid frost would catch them, our own Kafir had been safe for weeks. When you get the tall stalks thoroughly bred out you will find you have an earlier sort by two or three weeks.

Nearly every farmer plants Kafir too thickly. Instead of using 24 to 30 holes in the Kafir plates have 8 or 9. A bushel of seed should plant from 30



A source of farm power much used by our Missouri neighbors. Missouri hasn't an entire monopoly of this source of power, for these fine youngsters were produced west of the river.

to 50 acres of ground, depending on the strength of the soil. We have made a complete success of the lister since we learned to throw away the subsoiler. Moles are always had where a subsoiler is used and if a big rain comes along it will clean out your track and you lose your stand. We list shallowly between the old rows, then run a cultivator shovel down the rows, but a little to one side. The grain is planted to one side of the furrow left by the cultivator shovel. We plant with a two-horse planter and since using this method have not failed to get a perfect stand.

I cannot understand why farmers up north cannot grow Kafir to good advantage by sowing it. Of course it would not ripen if planted but here in Kansas we can sow it six weeks after planting and it will ripen at the same time as the planted fields. In the lean years it would come in pretty handy as a feed for horses, cows, pigs and poultry, and it would keep them all in good condition at small cost.

J. G. Mitchell.

Lafontaine, Kan.

## The Spreader as a Crop Saver

Mr. Editor—I am not able to give tables that show to the fraction of a cent, just how much profit there is in hauling manure but I know mighty well it pays to haul all the manure I can get hold of. I had a meadow, the upper portion of which was washed and worn so badly that the grass was hardly worth cutting. I spread a coat of manure on the wornout strip and the next year the grass on this ground was as heavy as the mower could handle.

The good effects of that manure are still apparent.

Last year was a bad season for wheat in this section. Many pieces of wheat winter-killed entirely. I gave my wheat a top dressing of manure and I believe that was all that saved it from complete loss. As it was I got a small yield of fine quality. I think the whole crop should be credited to the manure.

I have top-dressed corn when it was 12 to 15 inches high and at gathering time the manured portion of the field showed a very marked increase in yield over that not manured.

The less labor spent in handling the manure the more profit will result from its application. For that reason I use a spreader and generally clean the manure from the stable and yard directly into the spreader. As soon as a load has accumulated it is taken to the field and spread out. By this method the labor is greatly reduced, the manure is not damaged by leaching or firing and it is put where it is of benefit instead of lying about the stable yard losing strength.

Court W. Ranslow.

Garrison, Mo.

## Colt Training Made Easy

Mr. Editor—We have on our farm a team of draft horses that arouse the admiration of everyone who sees them because of their docility and obedience. As colts they were petted and handled from the time they were just a few days old. When a week old they were haltered and led by the mother's side, also tied in the stall. They were never allowed to follow the mares in the field

hold up in flesh. However, if you want to fatten a rundown horse it can be done in a hurry by putting him on soft alfalfa but put him on heavy work when fat and he will lose flesh faster than he put it on.

Taking all things into consideration we consider alfalfa better for cattle than horses, although there have been seasons when we had nothing but alfalfa for the horses. For driving horses we would as soon feed bright wheat straw with a fair allowance of grain as alfalfa hay without grain.

E. L. Hadley.

Trumbull, Neb.

## The Small Engine as Chore Boy

Mr. Editor—I have a 2 horsepower gasoline engine in a room 12 by 14 feet in dimensions with a line shaft through the entire length of the building. From this shaft I run my cream separator, washing machine, drill, emery wheel, feed grinder, circle saw, wood planer, and power auger. It also pumps the water and saves the winter supply of wood. On this wood saw I use a 100-pound fly wheel with a 28-inch saw and with this rig I can saw enough wood in half a day to last me a year.

A 2-horsepower engine is large enough for the average farm as a larger engine would be harder to start and would consume more fuel. On an average my engine uses about 1 gallon of gasoline a week and 1 gallon of engine oil and 1 pound of hard oil per year. I have used this engine for five years and have not spent more than 50 cents on it for repairs which were for asbestos packing when I cleaned the sparkers.

I take good care of my engine by cleaning all the bearings with coal oil about once in three months, also the cylinder, exhaust and inlet valves. For lubrication in winter I use a light, thin oil called winter gas oil and during summer I use a heavy gas engine oil. Don't use common machine oil. I use the best of thresher's hard oil, the softer the better. I clean the sparkers with sand paper about every three months and replace with new asbestos packing. In the water jacket I use an anti-freezing solution of calomel chloride, 3 pounds to every gallon of water. This costs 3 cents per pound and in using it your engine will never freeze up. It will last for about three years before replacing is necessary.

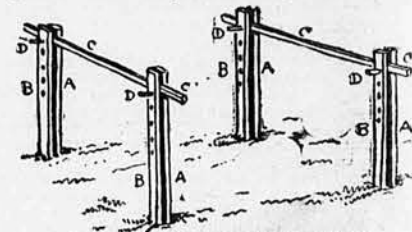
I use the magneto sparker in place of batteries as a magneto will last as long as the engine while a good set of batteries with proper care will last from 18 months to two years according to amount of work done with the engine. I recently built a new house and barn, saving all the lumber with this engine and saved enough on carpenter work to pay for the outfit.

Frank Kral.

Vermillion, Kan.

## Loading or Unloading a Rack

Mr. Editor—In the manner illustrated one man may easily load or unload a rack. Set four posts solidly in the ground and nail a strip of 1 by 4 to the side of each with a block between post and strip at top and bottom thick enough that a 2 by 4 will slide easily between. Bore a row of holes through post and strip, and provide a strong pin for each post. When rack is to be unloaded drive wagon in between the posts, then slide the 2 by 4's (C, C),



MR. HOAG'S RACK LIFTER.

close up under rack and insert the pins. Then using the 2 by 4's as levers, raise the rack, one corner at a time, as high as convenient and hold there with the pin. Raise each corner in turn until rack is high enough to clear the standards, then drive out and leave it high and dry. When rack is wanted again, back the wagon under it and reverse the operation.

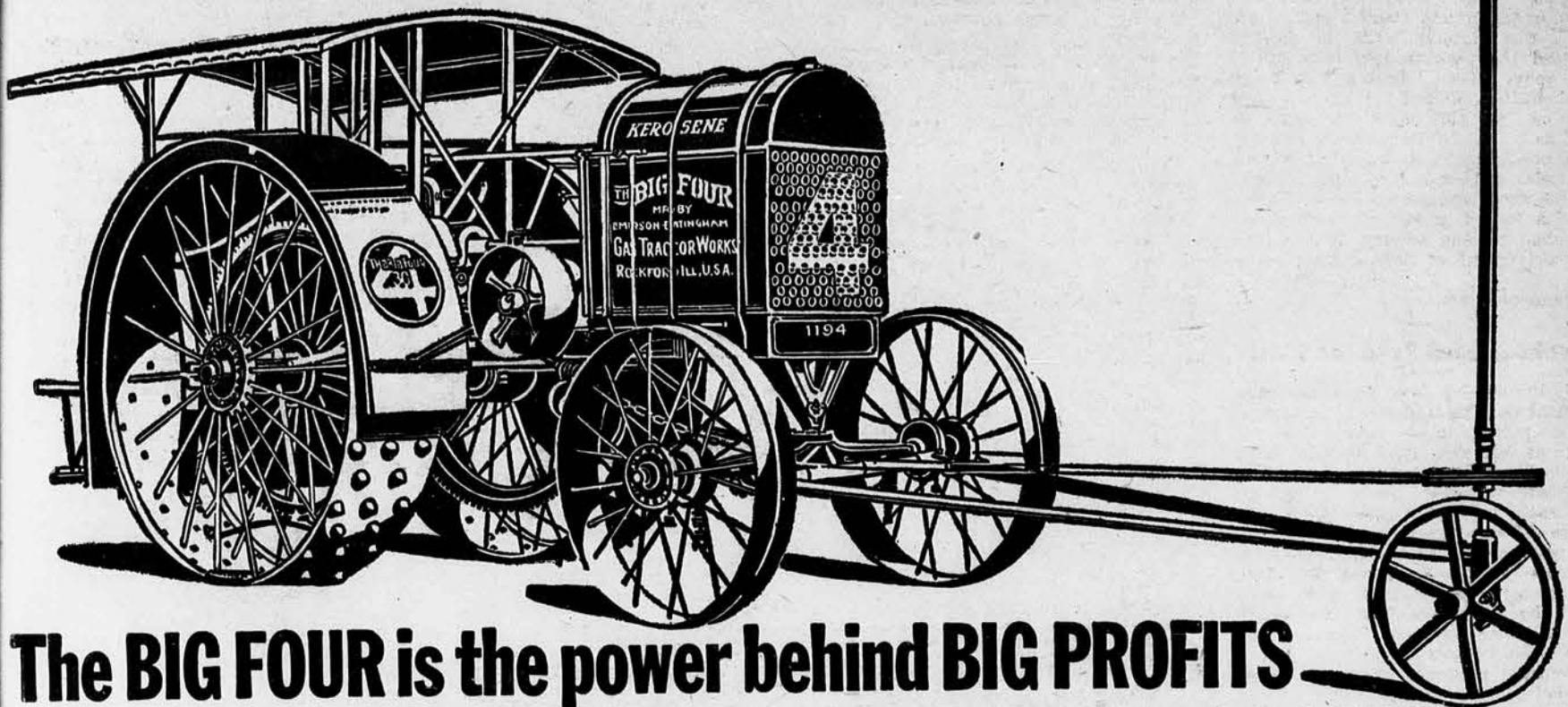
W. B. Hoag.

Granite, Okla.



# The **POWER** behind the **PROFITS**

## of Successful Farming Today!



## The BIG FOUR is the power behind BIG PROFITS

It furnishes you with the *surplus* power you often need to do a great amount of work in a very short space of time, thus taking every possible advantage of weather conditions.

With the BIG FOUR you can plow, pack, drill and drag at *one operation*, (ordinarily the work of 30 horses and 10 men) putting your crops in *right behind the plows*, when the soil is soft and moist, aiding earlier germination.

You can work the BIG FOUR day and night, if necessary, for it can work 24 hours a day just as well as 8 or 10, making your seeding a matter of *hours* instead of *weeks*. Mr. E. F. Luebke,

Valley County, Mont., broke, packed and drilled 100 acres in three days and nights with his BIG FOUR "30."

The BIG FOUR enables you to plow *deeper*, utilizing the rich sub-soil, now seldom touched, to increase your yields. Mr. J. A. McMillan, of Crookston, Minn., who farms with a BIG FOUR, says his wheat threshed out *more than double* per acre than his neighbors, who farm exactly the same kind of land with horses.

With the BIG FOUR you can harvest your grain 100 acres or more per day, before half your crop is lost through delay. You can furnish your own power for threshing, at a cost of 2 to 3 cents a bushel. You can run *all* the machinery on your farm at *least* cost.

# The Big Four "30"

The BIG FOUR "30" is the most economical, most efficient, most reliable farm power in use today. No farmer who has ever used the BIG FOUR or seen it work, will have any other. You are not buying an experiment when you buy the BIG FOUR—its long record of results has *established* its efficiency and economy!

The BIG FOUR was the *first* successful farm tractor. It is still the first. It is the first to utilize the efficient, continuous power stream of the four-cylinder principle. Its mammoth 36-inch drive wheels give it tractive power far greater than any other tractor of equal weight and rating, and enable it to work in soft ground better than any other tractor.

### **SOLD ON APPROVAL!**

It must make good on *your* farm, on your test, before you pay out a cent. It has a self-steering device, possessed by no other tractor, that steers in plowing better than can be done by hand—saving one man's wages and costing you not one penny extra. "Thursday, my boy plowed 52½ acres with the BIG FOUR"—Ole H. Bang, Oslo, Minn.

**SOLD ON APPROVAL**  
Steers Self, Saves One Man.  
First Four-Cylinder Tractor.  
Uses Kerosene, Gasoline, Etc.  
Most Power at Lowest Cost.

The BIG FOUR uses kerosene, gasoline, benzine, naphtha, distillate, or alcohol with unequalled efficiency and economy.

The horse no longer has a place in economical farming. His limitations, his uncertainty, his enormous cost compared to his productiveness, have finally and for all time rung down the curtain on his usefulness to the scientific farmer of today.

The BIG FOUR "30" is the one biggest unit—the one greatest asset—in modern farm economics—the very cornerstone of the foundation of greater farm profits.

The BIG FOUR "30" is the *first step* for any farmer to take who has determined to abandon expensive, uncertain, hit-and-miss methods and to get the benefits of the increased yields, better quality of crops, and larger profits his land is capable of producing.

Don't make any mistake. *Investigate* the BIG FOUR "30." It will stand the test. Write us **NOW** for the BIG FOUR BOOK.

**Emerson-Brantingham Implement Co., 391 Iron Street Rockford, Ill.**

(INCORPORATED)

28859

**LARGEST LINE OF FARM MACHINERY IN THE WORLD**  
Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons and Vehicles.

**Write Us About "FREE SCHOOL OF TRACTIONEERING."**



## JAYHAWKER FARM DOIN'S

BY H. C. HATCH, GRIDLEY, KANSAS.

We like to get the experiences, views and opinions of "our folks" on any farm or livestock subject particularly if seasonable and likely to help some of us who may need the information. Your letters are always welcome. Subscriptions to Farmers Mail and Breeze or other good publications for best letters received. Address Editor Farmers Mail and Breeze, Topeka, Kan.

On New Year's day we saw flies buzzing around the south door, while crawling on the walk was a boxelder bug. All of which goes to show that we have had a very open winter notwithstanding the recent snow storm. Who can say we are not entitled to it after the winter of a year ago?

The rape pasture on this farm is still furnishing some feed for the hogs. Many of the plants are still green and the hogs relish a few bites of it each day. It is keeping them in good condition with half the shorts and tankage it would have taken if they had had no feed of this kind to run on.

It is a wonder that any country butter is made for sale. At the stores in this locality from 20 to 25 cents is paid for butter while 32 cents is the least paid for butter fat. The overrun in cream will pay well for the making of butter, so that by rights butter should be worth as much per pound as butter fat.

There is some misunderstanding in regard to the overrun in butter fat. Creamery men will tell you that it is about 15 per cent and will show figures which seem to prove their contention. They get them by figuring from the wrong basis as any student of percentage will tell you. The facts are, that the average overrun in butter fat is not far from 20 per cent.

The fine weather up to the first of the year caused the hens to "shell out" better than usual. It is the same all over the West and receipts of fresh eggs are large enough to bring down the price of the storage article. Strictly fresh eggs sell for about 6 cents more per dozen than storage eggs in the western cities but when the city man buys "fresh" eggs he is not certain he is getting them. Relatives who live in the city tell us that half the time they get storage eggs when they pay for the fresh article.

We started in last spring with 125 hens and in the 12 months just concluded have sold poultry and eggs to the amount of \$172 and have had besides all the eggs and chickens that could be used by two families. In addition we now have on hand perhaps 35 more hens than at this time a year ago. This is a pretty fair profit from the chickens when we consider that they got more than half their living from the waste about the farm yards.

Were it not that the poultry get a great part of their living from what would otherwise be wasted we doubt if poultry would show any profit at all for the work they make necessary.

Chickens do not grow up without attention and it is no small chore to take care of them the year 'round. If all the feed the poultry ate had to be bought at market prices eggs and chickens would cost city folk a lot more than they do now. As it is, we can divide the cost with them because fowls get part of their living on the waste and on what pest of the prairies, the grasshopper.

In the Mail and Breeze a few weeks ago was a letter from a farmer living at Eureka giving his experience with Sweet clover. We presume most of you read it and remember what he said. If not, better look up the paper and read the letter. It is a fair, conservative statement of what can be done with Sweet clover on the uplands of southeastern Kansas. This farmer found it to make good pasture, and if it does as well for others it is just what many in this section have been looking for.

It is easy in this part of Kansas to raise winter feed but it is not so easy to make pasture out of ground that has been plowed up and farmed for a few years. To help the plowed land we can raise cowpeas, on much of the land we can grow clover and on some of the

more favored, alfalfa. But none of these makes pasture that will stand on the thinner soils. What this thin land needs to bring it up is a course of pasturing and if we can get the same results from Sweet clover as this Eureka reader we know how we can bring up the thin upland soils of southeastern Kansas.

While it is better to put land in hay crops like alfalfa, clover and cowpeas than it is to raise grain continually it still is not so beneficial as pasturing off some crop. Could we get something that would stand pasturing and which would be reasonably sure to grow on our upland soils we would, as the boys say, "be flying with the geese." Our land should be pastured at least two years out of every five, and of the crops during the other three years not more than two should be corn. This is the system of farming used in the best parts of the East and we shall have to come to something like it here.

From a Toronto, Kan., friend comes a letter telling us that if we do not wish cane to seed the ground it would be best to cut it before the seeds are matured, as then it makes better feed. We know that both Kafir and cane make better feed if not allowed to ripen seed but in this locality we can hardly afford to grow these crops for the fodder alone when by a little extra work we can harvest a good crop of grain. For instance, a neighbor had in 6 acres of

drilled cane on land adjoining us this year and the 6 acres made a little more than 100 bushels of seed which is worth 90 cents per 100 pounds. The fodder left is fair feed but is probably not so good as it would have been if cut earlier. He has to offset this cane seed, the fact that the ground will be seeded for next year. This will do no harm if the land is to go in cane again, but if it goes in corn the cane will be as harmful as any weed.

Now, on the same land our neighbor could have raised corn that would have made 20 bushels per acre, or Kafir that would perhaps make a little more. Does it not seem that it would be better here in eastern Kansas to raise either the corn or the Kafir and let the cane go? It looks that way to us. We know cane will make more fodder than either corn or Kafir but the fact that we get no grain more than offsets that for us. We are convinced that cane is harder on the ground than either of the two grains. We prefer to raise fodder that is a little inferior and get a grain crop than to get good fodder and no grain. And it may be treason to say it, but we prefer the fodder and grain of corn to anything else we raise in grain in Kansas.

A friend writes from Cedar, Kan., in regard to the comparison we made a short time ago of white and yellow corn. He says that yellow corn has a long shank to the ear which in a dry time withers and does not furnish nourishment to the ear whereas white corn has a thick and short shank which is not so easily harmed by dry weather. This is the reason why yellow corn husks so much easier than white and very likely explains in part why white corn stands drouth better. But were this the only reason we are sure that in a short time our seed corn growers could breed a yellow corn with as short a shank to the ear as any white corn. There must be something in yellow corn that takes more from the soil than white. Do our

readers think yellow corn is a richer feed than white? If that is the case it explains why it takes better and deeper soil.

In regard to what we had to say a short time ago about flour and feed prices here we have a note from a friend who gives us a few figures based on those prices. Since then prices have been advanced 10 cents per sack all round, making flour \$1.10 per 48-pound sack, shorts \$1.10 per hundred and bran \$1. But our friend takes the old prices and figures like this: Four 48-pound sacks of flour, \$4; 70 pounds bran and shorts at an average of 95 cents per hundred, 65 cents; total \$4.65. The cost is 4½ bushels wheat at 75 cents, \$3.38 and cost of manufacturing 37 cents, a total cost of \$3.75 which leaves the miller a profit of 90 cents. This is certainly enough even at the low price of flour and feed given and where in Kansas will you find lower prices quoted? We are certain the farmers of Kansas are entitled to lower prices for flour and feed when we consider they raise the wheat and sell it for about 75 cents per bushel. If the figures given as the cost of milling are not right will some miller please set us right? We know the farmer does not get as much out of his wheat as he used to years ago. Have all the recent advances in milling increased instead of lowered the cost of flour making?

### Gas Engines Make Chores Easier

(Continued from Page 3.)

In harvesting the grain the big tractor is aided by its "little brother," the stationary engine. When the season is wet the farmer can attach his "chose" engine to the binder. It will run the machinery and in this way relieve the wheels from all work except carrying the load. Fields that are boggy or filled with mud holes can be cut over as in no other way. Even in dry years the team is relieved of the extra draft required to run the machinery and more acres can be cut and fewer horses used.



LEWIS D. RICE.

## Here is the Machine You Have Been Waiting for—

Don't send me a penny of money until you are convinced that I've got the very machine you have been looking for—a machine that will do the work right, do it quickly and at the lowest cost. Your wheat land has been raising **less and less every year for lack of fertilizer.** You owe it to yourself to put this Straw Spreader at work to prevent soil blowing, to protect new seedling, to save young wheat, to furnish humus for the soil, to get the fertilizer value in the straw which is worth **\$2.50 a ton.**

If you have studied the question you know that there are more than 50,000 acres of good Kansas land covered with straw stacks that would be worth thousands of dollars in enrichment of the soil, if spread over the land at the proper time and in the right way.

Use It  
10 Days  
FREE!

## The "Simplex" STRAW SPREADER

is the greatest advance in farm machinery since the days of the self binder. Can be attached to any hay frame or header barge. Scatters straw, wet or dry, old rotten stack bottoms being handled as well as the new straw. Spreads over a space of from 12 to 20 feet wide. Man and boy should spread 20 acres or more a day easily.

### Will Pay for Itself in 3 Days.

Farms which have been growing wheat year after year can now be supplied with fertilizer at small cost and the worth of the straw will pay for a machine in less than three days' time.

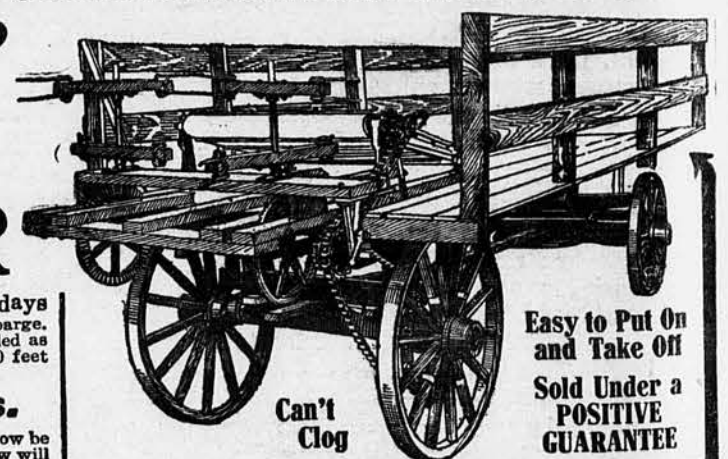
### Don't Burn Your Straw It's Worth \$2.50 a Ton as Fertilizer.

Prof. W. M. Jardine, of Kansas State Agricultural College, writes: "One of the most serious defects in the Kansas System of farming is that most wheat growers of the State burn their straw stacks. Straw is worth \$2.50 per ton for the potash, phosphorus and nitrogen which it contains, to say nothing of its value for furnishing humus, and putting the soil in better physical condition."

### Ten Days Free Trial.

If you have straw on your farm I have a proposition you ought to know about. To the first 10 men in every township who write me within the next 10 days I will send the Simplex Spreader on Ten Days Free Trial, no money, note, deposit or check—just common honesty among men. I take all the risk. All I ask is that you give the machine a fair trial.

**L. D. RICE, Manager, The Simplex Spreader Mfg. Co. 302 W. 10th St., Kansas City, Mo.**



Easy to Put On  
and Take Off  
Sold Under a  
POSITIVE  
GUARANTEE

## Just Send Me a Post Card

Put your name and address on a post card and mail it to me today. I will send you full description of the Simplex Spreader, how it works, how it is made, how to use it, and a proposition that will enable you to use it 10 Days Absolutely Free. No Money Down, No Bank Deposit—not a cent required. If you don't find it satisfactory in every way, and the most valuable implement on your farm, send it back. I will pay the freight both ways, and you will not be out a single dollar. I want to convince you that at last an efficient, durable machine for spreading straw has been made. I know it will do the work to your entire satisfaction and become one of the greatest money-savers on your farm. Don't delay, but write me today, if you want to try the Simplex Spreader FREE.



## What it Costs to Own an Auto

That is, If You Live In the Country

BY H. C. HATCH

Staff Correspondent of Farmers Mail and Breeze



H. C. Hatch.

I DO NOT advise every man to own an automobile. If a man is in debt on his farm or if the cost of the machine is to come out of something the family really needs, such as a comfortable house; or if it is to be bought at the expense of a good barn, shelter for the stock or machinery to run the farm in a decent manner, he should not buy an automobile. But if everything on the farm is comfortable and there is money ahead to pay for the machine, with a good balance for the rainy day, a farmer living any distance from town is entitled under such circumstances to own an automobile. The cost of a dependable machine is not great and the repair and upkeep bill is nothing to what the man must pay who lives in the city, keeps his car in a garage and pays all bills without question.

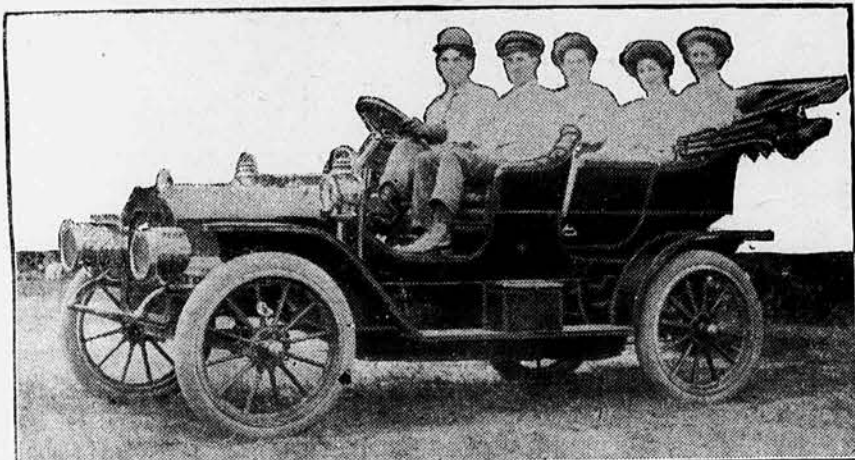
### What an Auto Will Cost You.

From talks with hundreds of farmers I know that it is not the first cost of a car that has kept many who are able and who should really own one from buying. They have read in the papers of the enormous amounts the city autoist is called upon to pay to the repair man and they hesitate about running up against

auto today at less expense than ever before. A tire of standard make is guaranteed to run 4,000 miles, so that you buy mileage instead of tires. You are sure of getting your mileage for your money and on the front tires you will likely get more. This guarantee is not against cuts but against wear and if your tire wears out before the 4,000 miles have been run you can return it and get the missing mileage credited on a new tire. I would not advise anyone to use protectors on the tires; in fact, if this is done the tire makers will not guarantee their tires.

### Few Tire Saving Schemes Work.

During the last three years I have investigated perhaps 50 different schemes to make tires last longer and have yet to find anything that we can recommend. There are fillers for tires which cost as much as a new tire and which will make the car ride very much harder and will wear out the casing quicker than the usual filling of compressed air. It is true that a puncture has no effect when these fillers are used but punctures are not the only thing to look after; a tire should ride as easily as possible both for the good of those riding over it and for the good of the machine as well. On this account you will find out there is nothing so good for a tire filler as compressed air. Outside protectors rot both the rubber and fabric and wear it out as well, for the protector is bound to creep and this causes wear.



The average farm automobile can be operated for from 4 to 5 cents per mile and this includes all upkeep expenses as well as depreciation of the machine.

anything like that. The facts are, there is more graft in the garage business in cities than in anything else, and there is a constant temptation among workmen to make the city man, who is well enough off to own an auto, pay dearly for the privilege. We have owned our machine for more than three years and I think I am not out of the way when I say that the ordinary farm automobile can be run for from 4 to 5 cents per mile and this includes all upkeep expenses as well as depreciation of the machine.

### The Chief Items of Expense.

The chief expense a farmer will be called upon to meet, barring accidents, will be gasoline and tires. Gasoline has risen in price and this makes running more costly, but on the other hand the machine of today is made so much better that repair bills are cut down enough to more than cover the cost of gasoline. Tires also cost much less than they did, so that a mile may be run with an

Dirty valves are the cause of poor service in many cars. A car should have the valves ground after each 1,500 miles of travel and this is a job you can do yourself after carefully watching the garage man do it the first time. By learning how to do it yourself you can do the work when it needs to be done and we have found that when it can be done by the car owner it is much more likely to be done when needed.

During this cold weather if you are not absolutely sure that you can remember to drain the radiator you had better keep it filled with some non-freezing compound. The base of nearly all of these is alcohol and glycerine and while they cost something it is cheaper to use them than to let the radiator freeze. One man living not far from here forgot his radiator one cold night and the repair bill was \$165.

### A Speed of 15 Miles Fast Enough.

Of course no farmer owner of an automobile will be so foolish as to get the speed mania. A good gait for ordinary country roads is 12 to 15 miles an hour and that is fast enough to travel when we consider the safety of those riding with you and of the people whom you meet.

In climbing a hill don't let your engine labor in high gear just because some one else has boasted that his machine always takes that hill on "high". Go to "low" or "intermediate" before starting up the hill. That is what those gears were put in the machine for and a man shows his good sense by using them when they are needed.

Do not apply lime on foliage of growing crops. Winter or early spring are the best seasons to apply.



## Sherman Says: "IT'S A MONEY MAKER"

HERE'S a letter of more than usual interest. It is written by a well-to-do farmer in the Corn Belt—Mr. Henry A. Sherman, Leland, Ill.

He tells how he cuts down his farming costs and shows why a Hart-Parr Oil Tractor is a money maker on Corn Belt farms. But you must read the letter to learn why you ought to apply his methods to your particular power problems.

"Leland, Ill., Nov. 21, 1912.

Hart-Parr Co., Charles City, Iowa

Dear Sirs:—My Hart-Parr Oil Tractor is the best piece of machinery I have on the farm.

**A General Purpose Outfit** I use it for plowing, threshing, shelling corn, hulling clover, grinding feed and grading roads. I plowed 150 acres in 10 days, but could have done it in half the time had my plows been larger. I used a 5 bottom plow, but could easily pull a 10 bottom plow.

**Furnishes Handy Power** I pulled a Sandwich No. 7 sheller and shelled a 60 bushel box of corn in a minute and a half, running on one cylinder only. My thresher is a 36x56. I threshed 3,000 bushels of oats a day, working the tractor on only one cylinder.

**It's a One-Man Outfit** Hauling clover is no work at all for the tractor. I ran both machines at this work. My grinder will grind 60 bushels of feed per hour, yet this is easy for the tractor.

**Operates Road Graders** When grading roads, I graders at one time. I graded 1 1/4 miles of road and raised the pike 4 1/2 feet in 4 days.

**Just Eats Up Work** Here's a table of the work I did with my Hart-Parr Tractor the past year:

Plowed 90 acres	Threshed 500 bu. of wheat
Shelled 2,000 bu. of corn	Hulled 600 bu. of clover
Threshed 42,000 bu. of oats	Graded 1 1/4 miles of road

I ground very little feed with it, but expect to do a lot of grinding this winter.

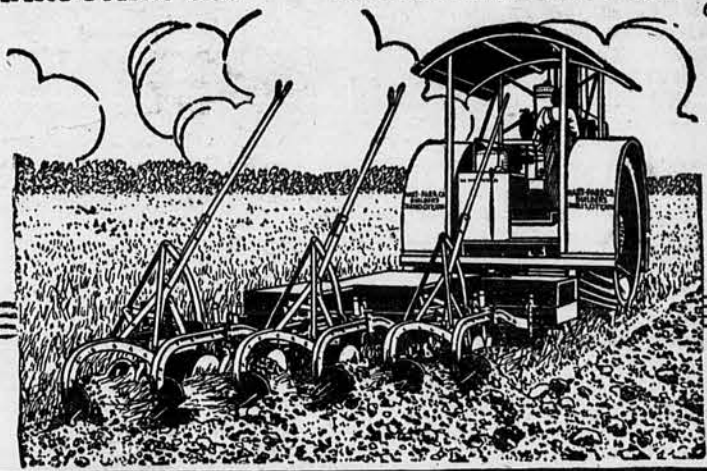
**Repairs Cost Almost Nothing** My repair bill for the entire season's work amounted to only 95 cents.

**Uses Cheapest Kerosene** For the hardest day's work I used only 40 gallons of kerosene at all loads.

And Now, after you have read this letter, if you want some literature on the subject of power farming with a Hart-Parr Oil Tractor which will prove of interest, write today for our catalog, testimonial folder and Plowing and Tilling booklet.

HART-PARR CO.

234 Lawler St., Charles City, Iowa



## 1913 SAGINAW Even Better Than 1912

### Another Big Silo Sensation

Experienced Dairymen and Stockmen tell us that the SAGINAW, with its ALL-Steel Door Frame, with its Base Anchor, with its Inner Anchoring Hoop, is UTTER PERFECTION. But despite this, we promise 1913 Silo buyers a startling New Feature. Our engineers have already tested the New Feature. It will soon be publicly announced.

**The Favorite Silo** Men know from experience that the Saginaw won't twist or collapse or blow down. And they know that Silage stored in the Saginaw keeps clean and bright even at the edges next to the wall. Saginaw owners never have rank, soured, spoiled silage. This news has spread from farm to farm, until the Saginaw has become the most popular Silo in America. Last season, in a single day, orders for 687 Saginaws were received. Thus, year by year, the Saginaw demand has grown until it now keeps five mammoth factories busy. And this has been done in seven years. Other Silos not one-tenth so popular have been quoted twice that long. These facts you should weigh carefully.

**A Fine Silo Book for You!** Our latest Silo Book is now ready. It not only describes the Saginaw, but also contains a Wealth of Information on Silo Building and Silage. No up-to-date Dairymen or Stockmen should miss getting it. Drop us a line today for booklet No. 61 and you will receive it BY RETURN MAIL. Address our nearest factory.

FARMERS' HANDY WAGON CO.,

Saginaw, Mich.

Des Moines, Iowa

Minneapolis, Minn.

Calo, Ill.

THE MCLURE COMPANY OF TEXAS, Ft. Worth, Texas

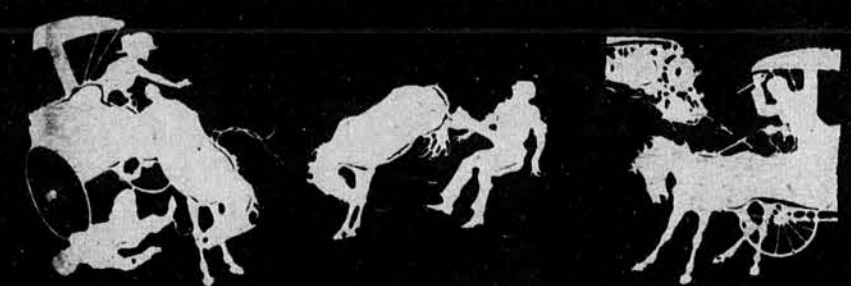
Test These Wheels FREE

30-DAY TEST WILL PROVE that you can end the drudgery of high lifting and save your team on heaviest hauling over softest fields by equipping your wagon with low

EMPIRE STEEL WHEELS Save 25% of the Draft

We will ship you set of four Wheels to fit your wagon for 30-day test. If they're not all we claim—return them and test costs you nothing. All sizes, fit any axle. Ask for Special Money Saving Offer on 1913 Model Empire Farmer's Handy Wagon. Twenty styles. Book free. Write today. EMPIRE MANUFACTURING CO., Box 275, Quincy, Ill.





## How to Train Scary, Vicious, Balky, Tricky Horses and QUICKLY DOUBLE THEIR VALUE!

### Write for Prof. Jesse Beery's FREE "HORSE-TRAINER'S PROSPECTUS"

If you are the owner of a vicious, tricky, kicking, balky, dangerous and unsaleable horse or colt, don't get rid of the horse—get rid of its bad habits. Write for Prof. Jesse Beery's "Horse-Trainer's Prospectus," a large, handsome, illustrated book written by the

### King of World's Horse-Trainers

Prof. Jesse Beery won world-wide fame and was tremendously successful giving exhibitions of his marvelous skill in mastering man-killing stallions, training wild horses to drive without bridle or reins. The whole country was thrilled by his daring deeds.

### Secret of His Power Revealed at Last

In the grand Free "Horse-Trainer's Prospectus" Prof. Beery now reveals the secret of his power and shows the way to duplicate his dazzling success.

### Train a Colt in 8 Hours!

You can do it by the Beery System. There is lots of money in breaking colts. The field is unlimited.



**Bang! Bang! Bang!**  
The Beery System Drives Out Fear

**PROF. JESSE BEERY, Box 39, PLEASANT HILL, OHIO**



Prof. Jesse Beery

### What His Graduates Have Done

Prof. Beery's Correspondence Course in Horse-Training and Colt-Breaking is the only instruction of the kind in the world. Thousands of his graduates are reaping the profits and benefits of his wonderful course. For example, take the case of Emmett White, Kalona, Iowa, now a prosperous professional horse-trainer. Mr. White says: "I wouldn't take \$500 for what you have taught me. You may judge of my success when I tell you that I have been able to buy a home and an automobile solely through earnings from training horses as taught by your excellent methods."

### Buys "Man-Killers" Cheap, Trains and Re-Sells at Big Profit

A. L. Dickinson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several different men. I got them for \$100, gave them a few lessons and have been offered \$400 for the pair." S. M. Byder, Mercersburg, Pa., writes: "I am making money buying 3-year-old kickers cheap, handling them for a few days and selling them, perfectly broken, at a large profit." So it goes. Everywhere, Beery's graduates are making money as trainers and "traders," giving exhibitions. Write and we will tell you about more of them. It's intensely interesting.

### Retires from the Arena—Now Teaching Horse-Training by Mail

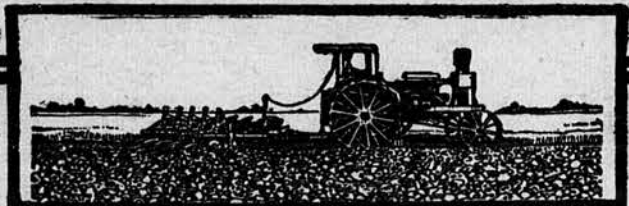
Prof. Beery has retired from the arena, after a career of unparalleled success, and is devoting his time to teaching his methods to a limited number of selected pupils—both men and women—by correspondence.

### Graduates Making \$1,200 to \$3,000 a Year at Home or Traveling

The wonderful success of Prof. Beery's graduates—taught by mail at home during spare time—proves beyond question the value of his instruction. People gladly pay his graduates \$15 to \$25 a head to have horses tamed, trained, cured of bad habits, and colts broken to harness.

### A Penny Postal May Make Your Fortune

No matter who you are or where you live, if you love horses and are ambitious to earn more money in a profession you will be proud of, write for the wonderful Free "Horse-Trainer's Prospectus" today, without fail. Tell me all about your horse.



## Don't Feed Your Last Year's Crops Into Idle Horses This Winter

Sell your extra horses and farm with an Avery "Light-Weight" Tractor and "Self-Lift" Plow. Don't keep idle horses any longer standing around eating their heads off.

Agricultural statistics show that farm horses average only about 100 full days work a year. The other 265 days time you have to feed them just the same—all for nothing.

You can't afford this expense—this waste—when fuel for the Avery Gas and Oil Tractor costs less than horse feed. And

Write for Sold on Approval Terms and Avery Tractor Book that shows how any man on a small or large sized farm can farm with power. Tells about the little 12-25 H. P. Baby Avery Tractor built for small farms—pulls 3 to 4 plows; the medium size 20-35 H. P.—pulls 5 to 6 plows; and the big 40-80 H. P.—pulls 8 to 10 plows. Explains how the wonderfully "Light-Weight" of Avery Tractors enables them to travel on any ground in fit condition to be worked with horses and why they don't pack the ground and waste fuel like the heavy weight tractors do. Shows why Avery Tractors are the simplest tractors built. Describes the Wonderful Avery No-Man Automatic "Self-Lift" Plow that does away with a plowman, saves hard backbreaking work and saves time. You or your boy can run an Avery Outfit alone. Tells about the Avery Company's Policy of Selling on approval at low prices and backing up with strong guarantees. Write today for complete details and Complete Selling Plan.

**Sold on Approval and Fully Guaranteed.**  
Write for Complete Power Farming Facts and Avery Selling Plan.

for 1913 complete Avery Tractor Book with Power Farming Facts and Complete Selling Plan.  
**EVERY COMPANY,**  
Also manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Threshers and Gasoline Farm Trucks.

this means when working. When idle a Tractor costs you nothing for fuel.

### An Avery Tractor and Plow Cuts Cost of Plowing in Half

Also saves you money in discing, harrowing, seeding, harvesting, hauling and other farm work. Proved by definite cost records kept by owners of Avery Outfits. Makes farming easier. Enables you to raise bigger crops by doing your work better and quicker at just the right time. Don't stop with the few facts we can give you in this small space.

**EVERY**  
"Light-Weight" Tractor and "Self-Lift" Plow

1006 Iowa Street, PEORIA, ILLINOIS

## HIDES AND FURS

We will pay you the highest prices on your hides and furs. We build our business by giving every man a square deal. We charge no commission, we send you a check the same day shipment is received. We treat you right. The house that has been successful for half a century could not stand if it did not satisfy its shippers. Try us and see. Write for circular and tags. See our quotations on market page.

**JAS. C. SMITH HIDE CO., Topeka, Kansas**



## Market Bureau by Fall

Some Difficulties Are to be Overcome

BY J. H. MILLER.

Dean College Extension Division, Manhattan, Kan.

At Hutchinson in November, several farmers proposed the perfecting of an organization that would unite all existing farm organizations in Kansas, handle farm produce and become a sort of marketing bureau. Several meetings were held at Hutchinson and it was decided there to call a mass meeting of those interested, the meeting to be held in Manhattan, on January 1, 1913, in connection with the State Farmers' Institute.

Two special meetings were held here in Manhattan and then a whole afternoon from 2 to 6 o'clock, January 1, was devoted to this project, with F. E. Wentz of Burlington, presiding. The last speaker of the afternoon, A. C. Bailey of Edwards county, urged that the Agricultural college be asked to develop a complete co-operative bureau and that no organization be made. He introduced a series of resolutions and these were immediately adopted.

The Agricultural college by the authority of President H. J. Waters, a thorough believer in co-operation among farmers, will undertake therefore to establish a co-operative bureau for the purpose of meeting the need so keenly felt by all farmers. This will take time. We cannot afford to make many mistakes. It must be remembered that this is the last half year of our biennial period and that naturally all college appropriations are almost exhausted or at least parceled out. The college at present has no man to set apart for this exclusive work even if it had a man pecu-

liarily qualified for this special purpose. Then, too, what work of this nature has been done has been carried on very informally with no records kept at all and depending almost entirely upon the people and newspapers to inform both producer and consumer of the existence of the bureau.

Now the college has two important things to do—to find a man big enough to head the bureau, not an easy task, and then to develop a permanent system of organization, that will be efficient here and also to work out a system of co-operation with all kinds of organizations. We do not expect to have the bureau in very good working order before September, 1913, although we shall do the best we can to meet the demands and needs of farmers who may write us this spring. We can do practically nothing until after March 1.

I shall be pleased to hear from all who may have any suggestions to make. This work is to be principally for the farmers and now I hope a hundred farmers will write suggestions.

Two of the biggest questions of interest to farmers and agriculture are "co-operation" and rural credit. The Kansas Agricultural college believes in both these propositions. It believes in some form of rural credit that will enable the tenant farmer to become a land owner; that will enable a steady young son of a worthy farmer to take his small patrimony and with the aid of state or nation purchase and in a reasonable time pay for a farm.

## It's a Real Chinch Bug Scare

Don't deceive yourself into believing that this "chinch bug scare" is only a scare. Last winter was one of unusual severity, yet the following spring and summer saw a greater number of the bugs than in the crop season preceding.

By proclamation of the governor, Oklahoma is to have a bug-killing week.

In Kansas some burning has been done but not much. Don't wait too long for co-operation of neighbors. Burn over your fields and waste places and your neighbor will be likely to follow your lead.

H. M. Cottrell, who has known and studied Kansas farm conditions intimately for 40 years, is repeating his warning of an oncoming horde of chinch bugs in 1913, first published in the Mail and Breeze of August 24, last. He writes:

"Should the chinch bugs go unchecked and destroy the grain and forage crops of Kansas in 1913 the loss would be seriously felt by every man, woman and child in the state whether living in the country or town.

Every farmer should burn the trash on his farm and combine with his neighbors to burn the trash along the roadsides and on non-resident lands. The Anti Horse Thief association, the Grange, the Farmers' Union and all other farm organizations should act at once.

Each county commissioner should organize his part of the county and have the burning thorough. The county superintendent of schools should have the danger from chinch bugs discussed in every school room and get every pupil to spread the alarm. Road overseers should burn all trash along roads and interest the people in burning all trash on farms and vacant lots. Fire departments in cities should superintend the burning of trash on vacant lots.

"Repeated tests made by experts of the Kansas Agricultural college have shown that if all grass, cornstalks, weeds and trash sheltering these pests are burned, 985 out of every 1,000 bugs will be destroyed and the others left unprotected. The burning must be done close to the ground as the bugs live just above the surface.

"If one man burns the bugs and his neighbor does not, the bugs will come out of the neighbor's grass in the spring and attack the crops on both farms. Roadsides and vacant lands are particularly dangerous. Burning is absolutely certain to prevent all losses from chinch bugs if it can be made statewide.

"Cornstalks should be broken down, raked in piles and burned and all hiding places everywhere should be burned on a dry, warm, still day when the ground is dry so that the burning will be thorough and close to the ground. Everyone should get busy immediately and co-operate to burn these pests."

### DREADED TO EAT

#### A Quaker Couple's Experience.

How many persons dread to eat their meals, although actually hungry nearly all the time!

Nature never intended this should be so, for we are given a thing called appetite that should guide us as to what the system needs at any time and can digest.

But we get in a hurry, swallow our food very much as we shovel coal into the furnace, and our sense of appetite becomes unnatural and perverted. Then we eat the wrong kind of food or eat too much, and there you are—indigestion and its accompanying miseries.

A Phila. lady said: "My husband and I have been sick and nervous for 15 or 20 years from drinking coffee—feverish, indigestion, totally unfit, a good part of the time, for work or pleasure. We actually dreaded to eat our meals. (Tea is just as injurious, because it contains caffeine, the same drug found in coffee.)

"We tried doctors and patent medicines that counted up into hundreds of dollars, with little if any benefit.

"Accidentally, a small package of Postum came into my hands. I made some according to directions, with surprising results. We both liked it and have not used any coffee since.

"The dull feeling after meals has left us and we feel better every way. We are so well satisfied with Postum that we recommend it to our friends who have been made sick and nervous and miserable by coffee." Name given upon request. Read the little book, "The Road to Wellville," in pkgs.

Postum now comes in concentrated, powder form, called Instant Postum. It is prepared by stirring a level teaspoonful in a cup of hot water, adding sugar to taste, and enough cream to bring the color to golden brown.

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A 5-cup trial tin mailed for grocer's name and 2-cent stamp for postage. Postum Cereal Co., Ltd., Battle Creek, Mich.



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In Minnesota towns and villages of 1000 inhabitants, or less, Overland cars, for the year, show a gain of 136 per cent. The Overland's nearest competitor shows a gain of only 104 per cent. and the second nearest a gain of only 73 per cent. And so you find it all over the country.

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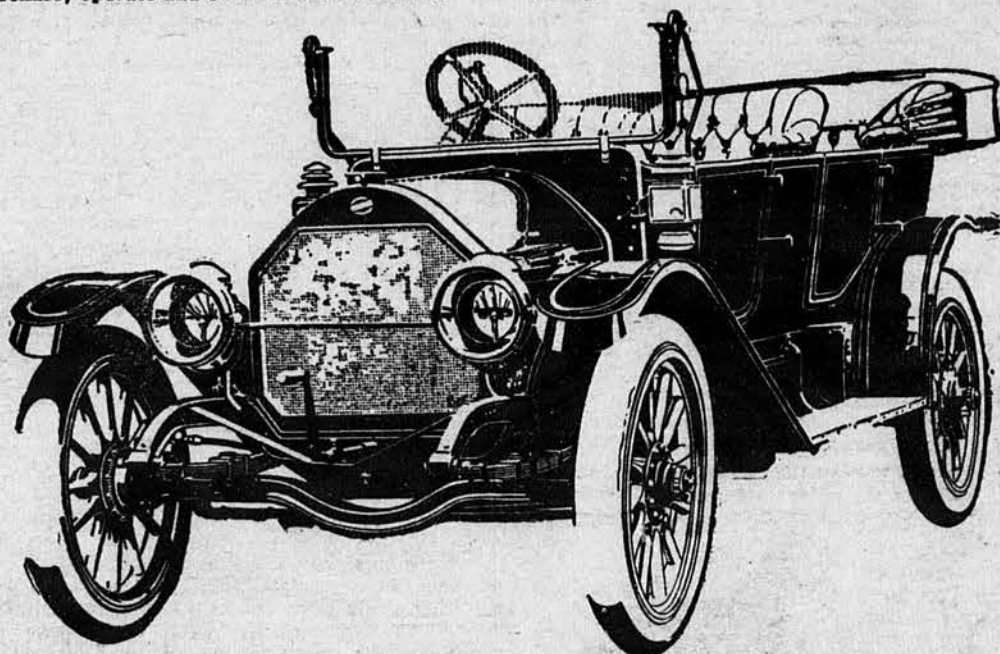
For a postal card you may have our big automobile instruction book—*absolutely free*. It contains over 100 pages; each page is illustrated with simple diagrams. The language is not technical; the young people will read it with interest and can understand every word. It tells you how to purchase, operate and care for an automobile.

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## The Tractor in Field Work

What It Actually Accomplishes and the Cost

BY WILLIAM GRUMBEIN, GREAT BEND  
Written For Farmers Mail and Breeze

THE gas tractor is here to stay and will be more popular in the next year or so than ever. In the last 10 years horses have increased 6 million head, and in average weight, 200 to 300 pounds. In face of all this the wheat average has fallen from 13 to 10 bushels. It is evident we must turn to more modern and up-to-date ways of farming. The tractor offers a way out.

The kind of tractor a farmer demands is a tractor so simple that he or his boy can run it. It should have change of speeds, as few gears as possible, and these of best quality. There should be few complicated parts and it should be light enough in weight not to pack the ground.

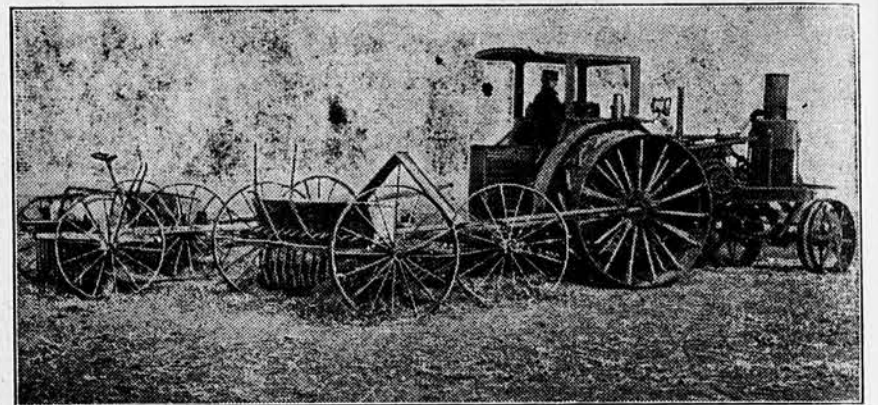
The writer has been noticing the "power outfit" which is operated by the engineer pulling on a rope from the engine cab. This engages a clutch on the plow frame, and raises the plows, one at a time, leaving the ends straight. When he wishes to drop the plows he

three drills and drill 60 acres per day. This can be done with the tractor and one man. Such a tractor and attachments will do away with surplus horses, which eat their heads off, are subject to disease, and much more expensive.

When the farm work is done, the tractor can be put to hauling grain to market, or pulling the road grader, shelling corn, threshing grain or filling silos. I do not mean to say we can get along entirely without any horses on the farm, but we can replace the surplus horses with a gas tractor, better our condition and greatly increase our crops. The tractor will enable us to get our heavy and hardest work done in season.

The tractor work should extend over the entire crop season and the operator of ability will open up new fields for the tractor in the handling of almost every class and kind of work.

Fifteen years have been spent in bringing the gas tractor to its present perfection. The tractor is now being



At seeding time you can buy a drill hitch, or make a drill hitch, attach three drills to the engine and seed 60 acres per day.

pulls the rope again which releases the clutch and drops the plows one at a time in a straight line. Such a plow as this with other features of adjustment, such as winging the plow, each plow independent of the others, ability to nose the plow for hard ground and change to breaker bottoms, should suit the average purchaser.

If you have a light weight tractor of about 8,000 to 11,000 pounds, with traction wheels of 18 to 20-inch face, you can travel over plowed ground without danger of packing. You can plow your ground immediately after the header, leave it rough, and later follow with disk and harrow to prepare your seed-bed. If ground is too dry to plow after header, I would attach 2 or 3 disks behind the tractor and disk the ground, cutting out the weeds, breaking down the stubble, which would destroy a great many insects at the same time, leaving the ground with a mulch which will hold the moisture, and take in readily all which falls.

At seeding time you can either buy a drill hitch, or make a drill hitch, attach

put to all kinds of work, pulling plows, disks, drills, harrows, hauling crops to market, threshing grain, shelling corn, grinding, sawing, baling, filling silos, cutting ensilage, etc. It does this work better and cheaper than horses.

Generally, the first cost is what stares the purchaser in the face. If I have a great deal of plowing to do, which is the hard work on the farm, I shall be obliged to buy 15 good work horses at a cost of \$2,200, 7½ sets of good work harness at \$300, 3 gang plows at \$200, making a total expenditure of \$2,700. With this rig or layout I can plow 15 to 18 acres per day, employing 3 men to run plows at \$2 each, feeding 1 gallon of corn to each horse at each meal, making 45 gallons of corn per day worth 48 cents per bushel, or \$2.70. This with hay for the horses would make a total cost of one day's plowing with horses come to \$11.70. Assuming that 15 acres would be about the right average, the average cost per acre while plowing with horses is 78 cents.

This is what I call the visible cost, a (Continued on Page 19.)



At seeding time you can buy a drill hitch or make a drill hitch, attach cab you can raise the plows one at a time. A second pull will drop them in the same manner. Each plow can be handled independently of the other.



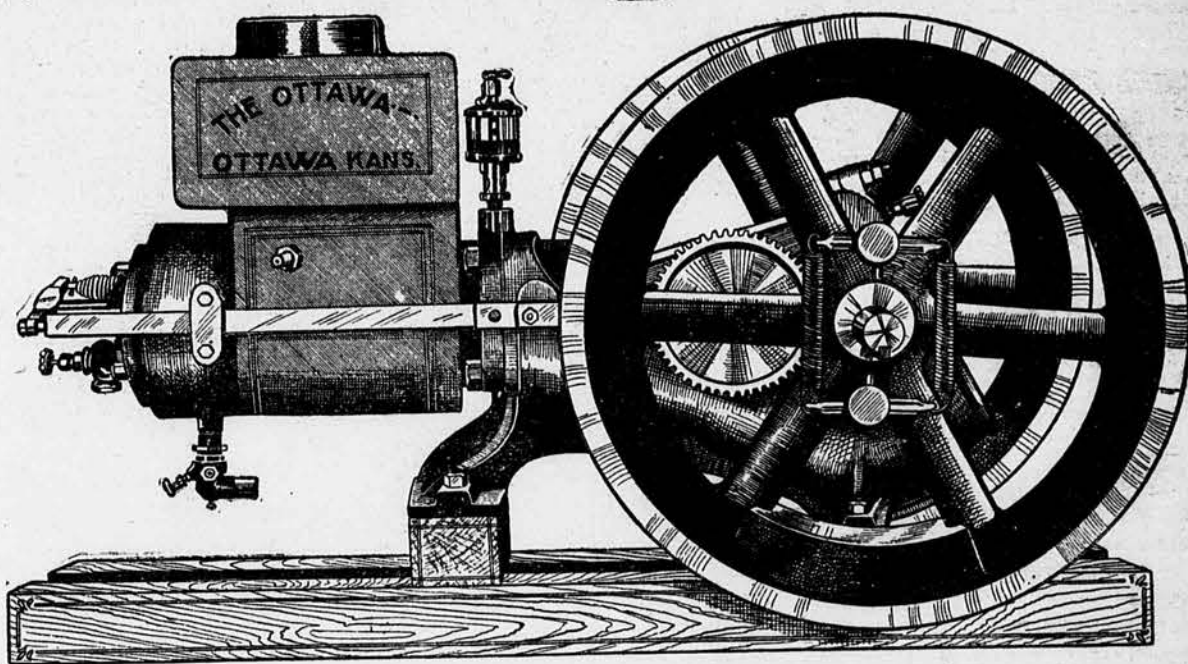


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## Kansas Soils Need Humus

Three Reasons For Declining Fertility

BY L. E. CALL,

Soil Expert of Kansas Agricultural College.

**Editor's Note.**—Persistent grain farming and soil washing are destroying the rich corn lands of northeastern Kansas. The soils of southeastern Kansas need liming. The "blowing" soils of central and western Kansas, and Kansas soils generally, are in great need of humus (manure). These and other soil facts of great moment to Kansas farmers were presented January 8 before the Kansas state board by L. E. Call. Extracts from his address follow. I would like to have Mail and Breeze readers discuss them and cite their own experiences in overcoming any of the difficulties mentioned.

Every man who has farmed in Kansas for the last 30 years recognizes that the acre yield of Kansas crops has decreased during this period. The decline has been so gradual, that it is only when we compare the yield of a field with what this same field produced 30 years ago that we fully appreciate the fact.

The acre yield of corn in Kansas and Nemaha county for the last 36 years has been as follows:

PERIOD.	KANSAS.	NEMAHA COUNTY.
1875-1880	39.13	40.09
1881-1886	32.25	35.87
1887-1892	23.02	33.82
1893-1898	19.59	30.56
1899-1904	21.19	27.08
1905-1910	22.65	26.54

It has been suggested that a possible explanation of the reduction in acre yield of corn for the state was the fact that the corn belt had been extended into counties in the western part of the state poorly adapted to the corn. But Nemaha county, one of the oldest and best corn growing counties of the state, shows the same reduction in acre yield as is shown by the state as a whole.

### The Loss by Soil Washing.

There is more or less washing on every soil type in the state, but this difficulty is greatest in the northeastern counties. Acres of cultivated land in this part of the state are being impaired in value if not permanently ruined by improper methods of farming and by the neglect of farmers to stop the small washed and gullied places when they first appear in their fields by means of stone or wood dams and by cultivating the fields at right angles to the slope. In counties, such as Nemaha, where the soil washes badly, not more than one-third of the tilled area should be in cultivated crops. If the welfare of the future generations that must farm this county are to be considered, it would certainly be more profitable to reduce the acreage of land in corn and increase the acreage in alfalfa and clover. If this were done and the crops raised were fed to livestock on the farm, the manure produced carefully conserved and used in a judicious manner, the problem of soil erosion would largely disappear. The fields seeded to alfalfa and clover would be covered by protective coverings, and

the soil would be permeated by the root system of the plants so that washing would be more difficult. The manure, when added to the soil, would supply organic matter, which would serve as a binding material in the soil and prevent its washing.

### Sour Soils in Southeast Kansas.

We have in the southeastern corner of Kansas soil that has been derived principally from disintegration of sandstone and shale. The little lime that may have been present in the soil in the early stages of formation has been leached away ages ago. We find, six or eight counties in that part of the state where much of the soil is sour or acid and where leguminous crops such as clover and alfalfa refuse to grow.

The common farm practice is to grow corn, wheat, oats and sorghum. All of these crops are non-leguminous hence depend upon the soil entirely for their nitrogen. The most practical solution of this problem is to secure this nitrogen from the atmosphere by growing legumes. But before crops like clover and alfalfa can be grown, nearly every acre of this land must be limed to correct the acidity. Fortunately crushed lime rock can be purchased in carload lots at a cost not to exceed \$3 per ton laid down at any railroad station in that area.

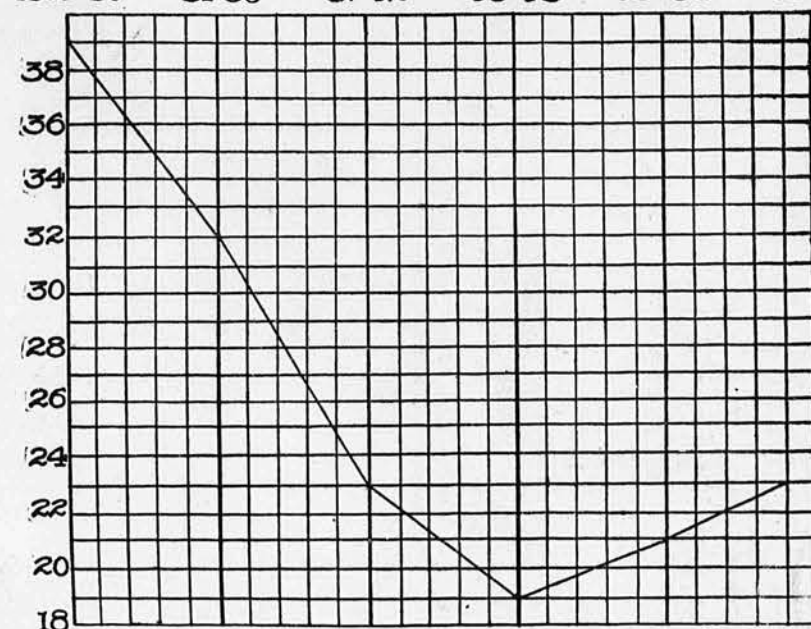
O. A. Rhoads, living in Cherokee county, southeast of Columbus, on the advice of the Agricultural college, purchased a carload of lime in 1910 which cost him \$1.60 per ton at his station. He limed 10 acres at the rate of 2 tons per acre. Six acres of this land were seeded to Red clover and the other 4 acres, which had been previously underdrained, were seeded in alfalfa. In 1912, Mr. Rhoads harvested 1.5 tons of clover hay to the acre and two cuttings of alfalfa which were estimated to yield about 2 tons per acre. In addition, both of these fields furnished an abundance of fall pasture in a season extremely dry for that country.

### Kansas' Soil Need Is Humus.

The problem of greater importance, perhaps, than either of the foregoing is that of maintaining the supply of organic matter in the soil. This concerns the farmers of Sherman and Morton just as vitally as it does the farmers of Crawford and Brown counties. When the virgin prairie soil was first broken, it was well supplied with organic matter. This material had accumulated for ages from the deposits of the roots and stems of grasses. The rate at which this matter has been destroyed through cultivation is hard to estimate.

As the organic matter is destroyed the soils become less mellow, they plow up hard and lumpy, they crust severely after rains, and cultivate with greater difficulty. The crusting of the soil is perhaps

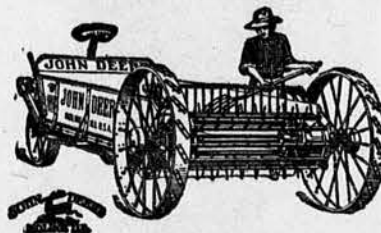
1875-80 81-86 87-92 93-98 99-04 05-10



This chart shows the variation in the acre-yield of corn in Kansas from 1875 to 1910. It will be noticed that from 1895, when farming as a business was at its lowest ebb in this state, the yield has gradually tended upward. The chart was drawn by E. G. Schafer of Kansas Agricultural College.

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the most serious physical defect. When soils crust badly, it becomes almost impossible to successfully start such crops as alfalfa and grasses, and difficulty is sometimes experienced in securing a good stand of crops like wheat and corn.

Organic matter is also the food of a countless number of beneficial bacteria that inhabit every fertile soil. These bacteria are largely responsible for the liberation of plant food from the soil particles.

#### Soils "Blow" and Hold Less Water.

Soils deficient in organic matter hold less moisture. Humus, or organic matter, is spongy in nature, and holds the water within the soil after it has entered. It is estimated that 100 pounds of sand will hold approximately 22 pounds of water; and 100 pounds of clay about 55 pounds of water; but 100 pounds of humus will hold 143 pounds of water.

Soils deficient in humus are more subject to blowing. The organic matter serves as a binding material to hold the soils in place.

All forms of organic matter produced on the farm, should be returned to the soil. The wheat stacks should not be burned, but the straw spread as a top dressing on wheat or as manuring for corn. The barnyard manure should be conserved and used as another method of supplying organic matter.

As a state, we are producing far too small an acreage of leguminous crops, such as alfalfa, cowpeas and clover. We are feeding much smaller numbers of livestock than we should feed, and are caring for the manure and other organic matter on our farms in too careless a manner.

#### Manure Doubled a Wheat Yield.

In 1906, at the Kansas Experiment station, Manhattan, a poor field that had been continuously cropped to wheat and corn was rented. An acre was covered with manure at the rate of 10 tons per acre in the fall of 1906. Another acre was left without manure, as a check. The field was seeded to wheat in the fall of 1906 and seeded to alfalfa in the fall of 1907. The following yields and value of crops were secured in 1907, 1908, and 1909:

	MANURED ACRE	UNMANURED ACRE
Wheat (1907) ...	35.9 bushels	18.06 bushels
Alfalfa (1908)		
First cutting ...	3,533 pounds	717 pounds
Second cutting ...	2,368 pounds	1,317 pounds
Third cutting ...	2,659 pounds	2,017 pounds
Alfalfa (1909)		
First cutting ...	3,465 pounds	2,466 pounds
Second cutting ...	3,369 pounds	2,606 pounds
Third cutting ...	3,294 pounds	2,530 pounds
Fourth cutting ...	1,748 pounds	939 pounds

In 1907 the manure doubled the yield of wheat and in 1908 more than doubled the first cutting of alfalfa. If the season had not been extremely favorable for starting alfalfa there would have been a complete failure on the unmanured ground, while on the manured ground the plants were strong and vigorous.

In 1909 the third year after the manure was applied, the manured ground still gave an increased yield, and an increase would have undoubtedly been noticed the following years if the records had been secured. For the three years in which the yields were obtained, the manured ground showed an increased yield of crops valued at \$45 an acre, or \$4.50 per ton for the manure applied.

If we are to permanently maintain the fertility of our soils, we must adopt the best methods of farmers in this and other states. We will find these methods to be the rotation of crops growing upon one-fifth or more of the area cultivated; some leguminous crops to supply the nitrogen; feeding a large proportion of the crops grown to stock on the farm; carefully conserving and judiciously using the barnyard manure; and where necessary, supplementing the manure with commercial plant food. When the farmers of Kansas adopt these practices, their soil problem will be solved.

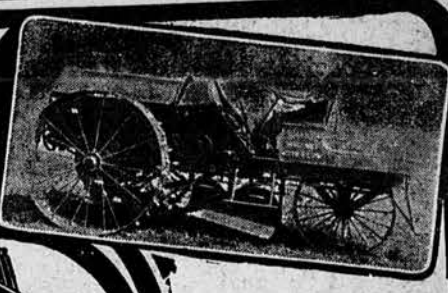
#### Gov't Parcels Post Jobs Open.

Thousands of appointments coming. Write Franklin Institute, Dep't K175, Rochester, N. Y., for free list of government positions open to you.—Adv.

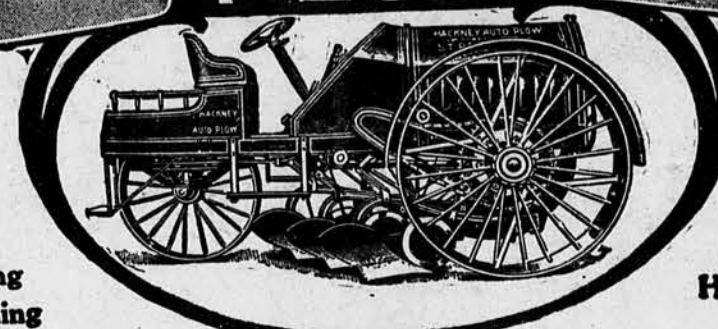
There are thousands of localities in this country where no one is paying any attention to small fruit growing and where strawberries, grapes, currants and such fruits might be grown with profit.



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**Seeding**  
**Discing**  
**Harrowing**  
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The Hackney Auto-Plow may be equipped with disc plow, disc harrow or road grader attachment—attached in same position as mould board plows shown above. Before you buy a tractor we want you to investigate the Hackney Auto-Plow—the one-man outfit. Our catalog, describing the machine in detail, photographs and testimonial letters from users will be mailed on request.

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My special price will please you. Hurry up to make sure of this price proposition. Only a few Hercules pullers left at this figure. 30 days trial—3 year guarantee. Any broken casting replaced, within 3 years—whether the breakage was your fault or fault of machine. Write me NOW on a postal.



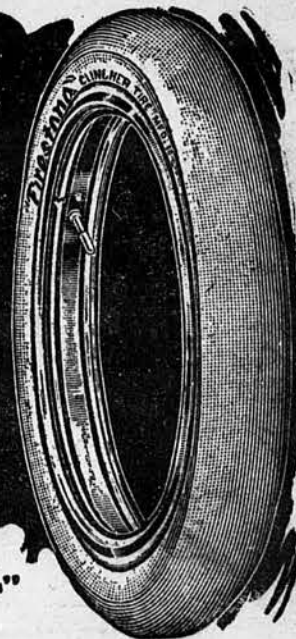
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**Deep Plowing Still on Trial**

BY J. G. LILL.

[Written for Farmers Mail and Breeze.]

A few years ago in this country, especially in the central states, large crops could be grown with little effort. The soil was rich and produced well year after year. Since more accurate methods of obtaining crop yields have been devised and better records kept, it has been shown that the crops produced by these rich soils have become smaller and smaller.

With the decrease in fertility and the increase in operating expenses, many experiments have been tried to find some way of restoring the soil to its original state. At the Rothamsted station, in England, and at the experiment stations of Connecticut and Ohio, it has been demonstrated during long periods of years that good crops can be produced every year by systematic fertilizing.

While fertilizing is a regular practice in England and the eastern states, the farmers in the central states have been slow to recognize its value and have sought to keep up crop yields by rotations and better cultivation.

**Deep Plowing for Worn Soils.**

Plowing to an extreme depth has been recommended recently for the renovation of wornout soils—not merely plowing to the depth of 6 or 8 inches, which is a very good practice—but to the depth of 12 or 16 inches.

Many extravagant claims are made for this deep tillage by men interested in the sale of special implements necessary to do the work, but as yet no authentic figures have been recorded and published to prove that plowing to this extreme depth is as beneficial as is claimed.

Plowing to an extreme depth was devised and is intended to bring the unused subsoil or part of it to the surface to take the place of the wornout surface soil, so that the crops planted will have new soil on which to feed.

There are several advantages and disadvantages to plowing to extreme depths. As no definite figures are yet available, the advantages only are claimed, but the disadvantages are very real.

**Some of the Disadvantages.**

The first and greatest factor against plowing to an extreme depth is the cost. Special implements are necessary, and can be used for nothing else. At least five horses are necessary to pull one of these implements on account of the draft, and the acreage covered in a day is less than that covered by an ordinary plow. In view of these facts the small farmer or renter is slow to try plowing to an extreme depth.

The second factor against plowing to an extreme depth is the danger of ruining a piece of land for a few years. This is likely to be the result, especially in the eastern half of the state where the distinction between the soil and subsoil is very definite and the soil is but little deeper than the depth of ordinary plowing. Under these conditions so much of the raw subsoil may be turned up that crops would not grow until it was thoroughly weathered and reduced to a state similar to that of the original soil.

**Advantages of Deep Plowing.**

The advantages claimed for plowing to extreme depths are,

First, new soil, which has never been exhausted, is turned up to take the place of the old wornout soil.

Second, the soil is deepened. Where the old soil was only 8 or 10 inches deep, the new soil is 12 to 16 inches.

Third, more room is provided for the growth and development of the plant roots. It is nearly impossible for plant roots to penetrate a dense subsoil.

Fourth, plowsoles, resulting from plowing to the same depth every year with an ordinary plow, are broken up.

Fifth, hardpan, existing near the surface, may be partly or entirely destroyed.

Sixth, alkali spots are cured for a longer or shorter time, as the alkali which had collected on the surface is distributed through a large amount of soil and rendered too weak to injure plants.

Seventh, the greatest advantage claimed is that plowing to extreme depths increases the capacity of the soil to catch and hold water from two to four times.

**Results Likely to Differ Greatly.**

If plowing to an extreme depth is to be tried, it must be remembered that

the results obtained are not to differ greatly in the different sections of the state and with the different soils. With a heavy, wet soil, as many are in the eastern half of the state, to plow much deeper than ordinary would be to invite failure on account of turning up the raw lifeless subsoil. While in the western part of the state where the soils are

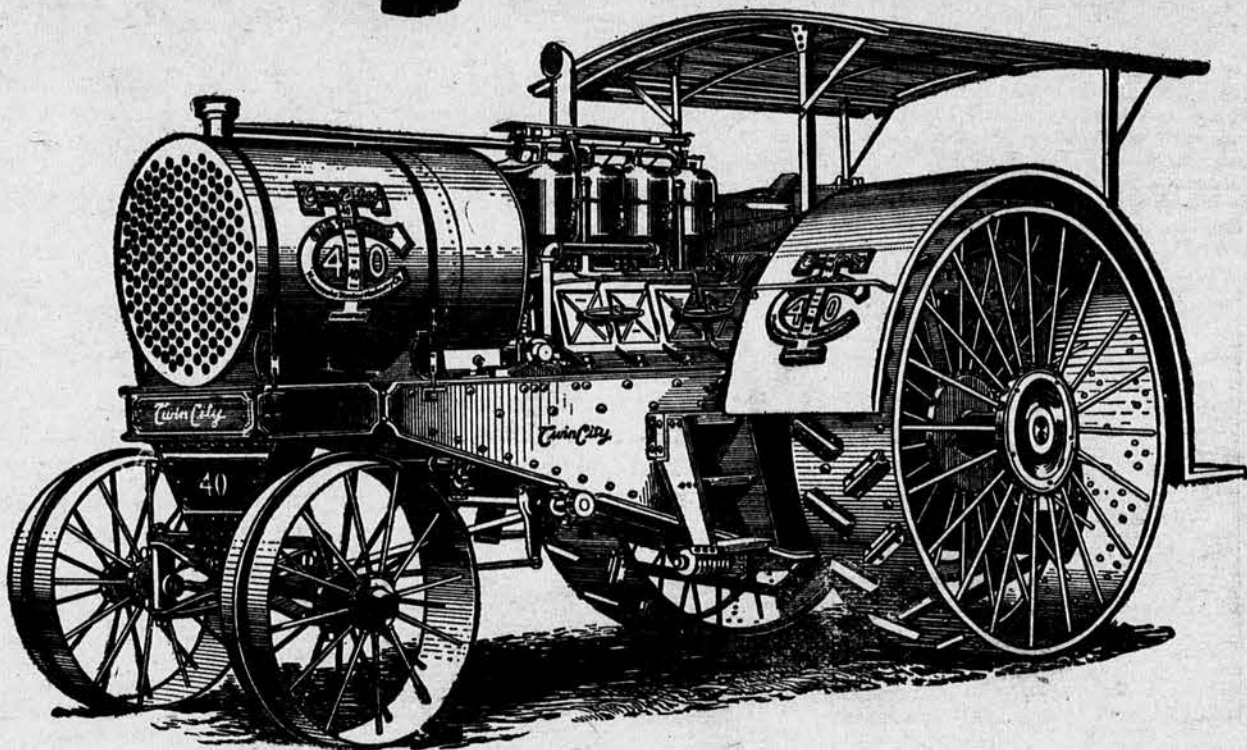
generally lighter in character and drier, this effect is not noticed but the seedbed often remains so loose after plowing to an extreme depth that a crop cannot start.

Plowing to an extreme depth is not advisable where the subsoil is heavy and raw; or where a crop is to be planted soon after plowing. But is often advisa-

ble where a long fallow is intended, or to break up plowsoles or hardpan near the surface, or to cure mild alkali.

The loss from planting neglected seed corn reduces or destroys the profit on the corn crop of each individual and in the aggregate is an annual loss to the country of many millions of dollars.

# The Big Steel Farmer



The power of 40 horses and 20 men every work day is embodied in this machine. That steel plate girder frame is the greatest piece of construction ever put into a traction engine. The four cylinder motor is the masterpiece of a generation of experience in motor design. And with all its strength and sturdiness it is the lightest tractor per horse power on the market.

## Twin City Tractors

Are built in two sizes

**25 Tractive H. P. and 40 Tractive H. P.**

Twin City Tractors have some wonderful records of things accomplished.

In Southern Texas, on the Taft ranch alone, are five Twin City "Forties" breaking mesquite lands successfully, where nearly every other tractor on the market, both steam and gasoline, has tried and failed.

### Some Real Testimony

The following letter is our latest report from the Superintendent of the Taft Ranch, where Five Twin City "40" Tractors are now operating.

Geo. M. Gillette, V.-P., Sept. 28, 1912.  
Mpls. Steel & Mch. Co.,  
Minneapolis, Minn.

Dear Mr. Gillette:—I realize that your machines are now being put to the hardest test that has ever been tried in this country.

I do not think that there is any doubt but what you have the only gasoline engine that has even been able to plow this kind of country successfully.

We are getting our work well done and more economically done than it has ever been done before. Yours sincerely, Joseph F. Green.

And here is a letter from North Dakota.

Ojata, N. D., August 18, 1912.  
Minneapolis Steel & Machinery Co.,  
Minneapolis, Minn.

Gentlemen:—Last spring I purchased a Twin City "Forty," which was delivered April 1st, 1912, and has been in operation almost continually through the summer without trouble or loss of time.

The tractor has been pulling a twelve-bottom Plow and a twenty-six foot Harrow, and plowed six inches deep.

I think the "Twin City" has the greatest power plant of any tractor on the market.

Yours respectfully,

E. H. Blair.

Get the facts, about scores of machines in operation in every Northwestern state; in Canada—down through Kansas—in Texas—Mexico—Cuba—South America.

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## The Tractor as a Road Maker

It Has Cheapened the Cost of Road Work in Kansas

BY C. V. HULL

Written For Farmers Mail and Breeze.

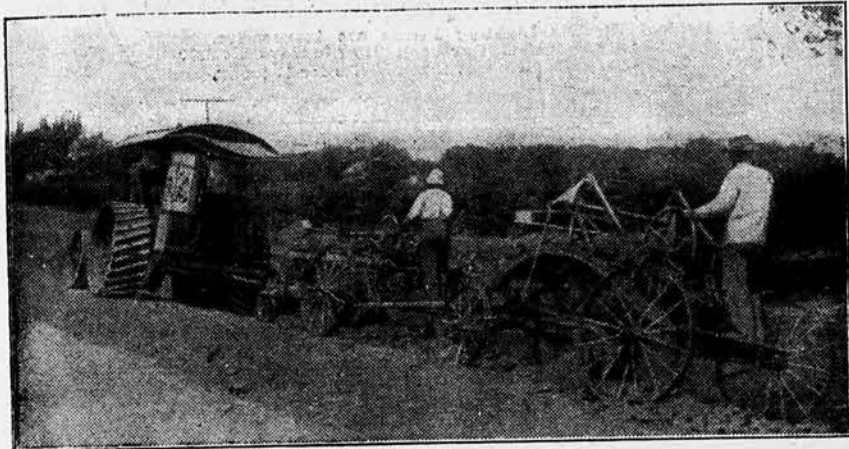
ONE of the early methods of making roads was the poll tax system, which is still in vogue in some sections. A few loads of gravel or scraped dirt were hauled to the middle of the road, and little attention was paid to drainage or grade, for each man was anxious to work out his tax and get home.

In some sections the commissioners used blade scrapers with 8 to 12 horses pulling a scraper, but there was always the tendency to cut too lightly in places where a heavy cut was required. A further difficulty was that teams were

grader to be run outside the path of the tractor. In this way many difficult places may be graded since the grader may travel 4 or 5 feet farther out than the tractor.

The roadbed shown in the second cut was built with a Hart-Parr tractor hauling two heavy graders. The auto was driven at 40 miles per hour over this road. The marks of the tractor wheel are still visible in the new roadbed.

Not only are these tractor built roads better, but they are much cheaper. In most cases they are built for less than \$15 per mile and in several for \$11 per



Many Kansas counties are now using these road making outfits. They grade, drain and crown a road at a cost of from \$11 to \$15 per mile and do first-class work.

hard to obtain when the season was best for working the roads.

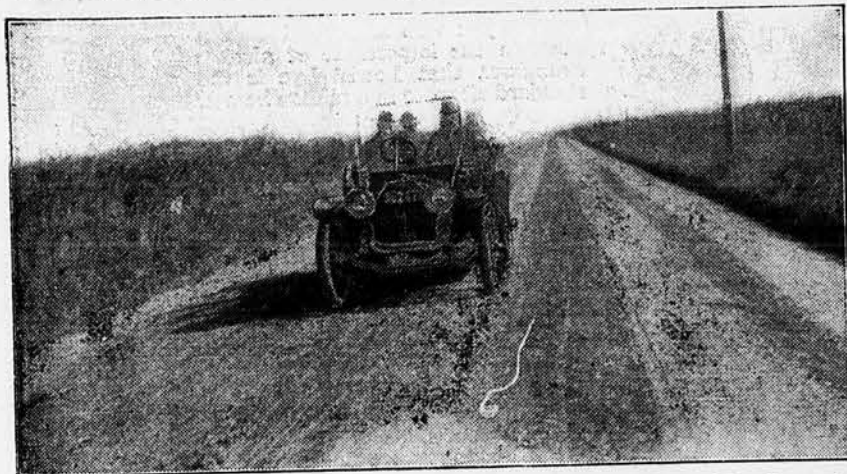
Some progressive Kansas counties have made an end of the trouble by using two 12-foot blade graders with a traction engine. Many counties are now operating gas tractor outfits for making good roads. One of the great advantages in using a gas tractor is the ease of getting supplies. The tanks are filled at morning and at noon. Ten hours of good, efficient work can be done each day. The gas tractor is very light per horsepower. It can go where a steamer would find it impossible to travel. Sand, clay and gumbo highways can be made and well made. The gas tractor is powerful and yet light enough to travel on any soil fit to make a road.

Another feature of tractor made roads is worth discussing; it is the crushing

mile. This cost cannot be equaled by any other method of building dirt roads.

If a gravel road is to be built, the tractor and graders can be used to throw up retaining banks between which the gravel is to be dumped. Gravel can be hauled in wagon trains, drawn by the tractor, 10 or 15 yards each trip, and dumped where it is wanted. When built in this way, a bed of gravel is held in place by carefully graded sides which are sloped for good drainage.

Roads built with a tractor outfit are easily maintained. An occasional trip with the graders or a leveler or even a King drag will keep them smooth and well crowned. These levelers are made in tractor size to cover the entire road in one trip. If the tractor outfit cannot get to the road, an ordinary King drag can do the work.



A tractor made dirt road. A tractor road outfit cuts a wide, deep strip and leaves a neatly crowned roadbed. An occasional trip with grader on drag keeps them well crowned.

and leveling effect of the tractor wheels. When horses pull a grader, they step beside and between the lumps. But the tractor runs over all lumps. The loose dirt is leveled and a compact surface formed.

Because of the ample power of the tractor, the graders can take a full bite. This means that the surface left will be hard and firm and that the soil will not be pulverized as it is when two or three cuts are necessary to move the same amount. Also, a deeper cut can be taken to make a proper grade, where necessary. Usually two graders are hauled at once. In such a case it is often possible to complete one side of a road at one trip.

Some of the graders are now built with a steering device. This allows the

### Gas Engine Instruction Free

Although but two or three years old, the annual gas engine institute held at Manhattan in connection with the state farmers' institute, has grown to such an extent that the manufacturers of engines are now finding it unnecessary to keep experts in the field to repair and adjust engines. The institute is not only instructing engine owners to properly care for and repair their engines but is educating prospective buyers to know the good and bad features of an engine. The college offers instruction along the same lines to the students who will attend college during the rest of the school year. Gas engines are used everywhere in Kansas and it is the purpose to teach everyone who cares to learn, how to run and properly care for them.



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Modern farming demands modern methods, and no recent invention has been of such great interest to farmers. Improved and perfected Schuttler Roller Bearing. Write for the free book now—before you forget.

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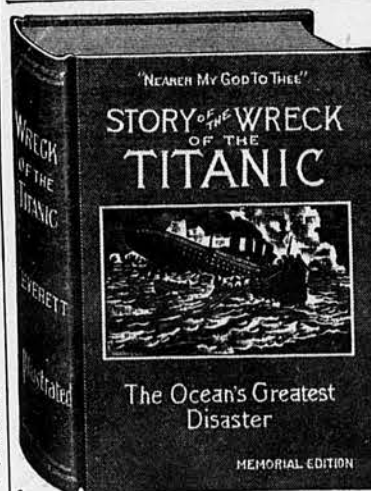
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Here we show the lowest price ever known for roofing material. This smooth surfaced roofing we are offering is our famous one-ply "Ajax" brand, and the price includes necessary cement and nails to lay it, and at this remarkably low price. We Pay The Freight in full to any point east of Kansas and Nebraska and north of Ohio River. We also furnish 2-ply at 50c, 3-ply at \$1.05. This "Ajax" roofing is guaranteed to wear as long and give as good service as any Ready Rubber Surfaced Roofing on the market. It is put up in rolls of 108 square feet, and contains 3 or 4 pieces to a roll. Big value! We are the world's greatest headquarters for Roofing! Our 40-acre plant is fairly stacked with millions of feet of genuine roofing bargains. Hundreds of thousands of people never think of buying roofing of any kind until they get our prices. It will pay YOU to write for special offers. Samples Free. Write for free Roofing Catalog.

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Mothers and children were torn from husbands and fathers; sisters were separated from brothers, and forced to view their untimely deaths—that is the harrowing tale of the sinking of the Titanic. But there is also the valorous side of this tragic story—Following the chivalry of the sea in caring for the women and children first, is a story of self-sacrifice and heroism such as no page in history records, and is a glorious tribute to twentieth century civilization. The whole story is told by survivors in this authentic book which is lavishly illustrated with full page pictures showing the scenes of the sinking of the Titanic and the work of rescue. A big book of 320 pages—in cloth binding.

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## Electric Lights For Farms

Cheapest and Best Light, Once Installed

BY P. G. DOWNTON, Electric Storage Battery Co.  
Written for Farmers Mail and Breeze,

**A**MONG the conveniences, which are now considered necessities for home comfort on the farm, are a satisfactory lighting system, water system and heating system. The first two frequently go together, being operated from the same gasoline engine.

Farmers began using electric lighting plants 10 years ago. Except for the cost of operation they proved satisfactory in every way. A little later the Tungsten lamp was introduced and the amount of power required was reduced about two-thirds. Now the cost of operation is probably less than for any other system of lighting. Instead of a standard voltage of 110, under ordinary conditions a plant operating at 32 volts can now be used to light the house and supply illumination for outbuildings at a distance of 200 to 300 feet. The cost of installing a first class plant of this kind, including an engine, will range from \$500 to \$800.

A small plant usually consists of a gasoline engine, an electrical generator, a storage battery and a switchboard, which is used for the distribution of power. The engine should be capable of running from 7 to 8 hours, continuously, with little or no attention. An engine poorly regulated gives unsatisfactory results on account of the flicker in the lights when operated directly from the generator.

Ordinarily the size of engine necessary for a lighting plant alone is from 1 to 2 horsepower. It is customary to put in an engine sufficiently large to permit its use for other work; frequently for a water system. If the engine is

employed. With this system there are only three switches on the board. With all three switches in one position the battery is charging, and lights can be taken from the generator. With all three switches the other way, the battery is discharging directly on the lighting system. In addition to this, the generator switch alone can be used, so that lights can be used directly from the generator, without the use of the battery at all. This system makes the operation very simple.

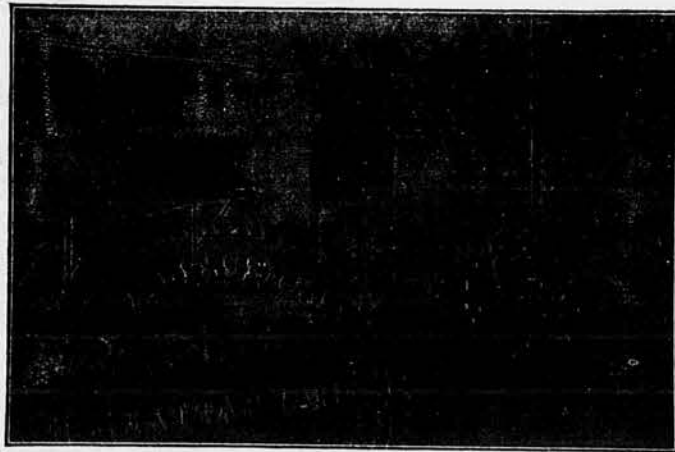
In the great majority of cases, a plant is installed to take care of the lighting service alone, or the lighting service and small motors for use on such devices as cream separators, washing machines, sewing machines, etc. Gasoline engines are then used for the heavy work of the farm.

In selecting the proper sized plant it is necessary to estimate about what the load will be. It is a good idea to make out a table similar to that shown below and mark in this table just how many lamp hours will be used in each room on the average day. It is then well to allow a little margin above what is figured.

### TYPICAL LIGHTING SCHEDULE.

	No. 16 C. P. Lamps.	Hours per day.	Lamp hours
Living room .....	2	3	6
Dining room .....	2	2	4
Kitchen .....	1	5	5
Bed rooms (4-total) ..	4	1	4
Barns .....	2	2	4
Total .....			23
Total for 3 days .....			69

This table is made on the assumption that the house has 7 rooms; namely, a living room, dining room, kitchen and 4



A small electric lighting plant for farm use usually consists of a gasoline engine of from 1 to 2 horsepower, an electrical generator, a storage battery and a switchboard.

used for other work, the cost of fuel for the lighting plant is decreased considerably, and in some cases is practically nothing.

Electric generators for use with small lighting plants have been developed by a half dozen reputable manufacturers. It is always a good plan to purchase material of this kind from a firm having a reputation.

The storage battery used in these plants is really the heart of the whole system. The battery best adapted to use on the farm is what is known as the Plante plate. This will give the best service with the least attention. It is preferable to have these plates assembled in glass jars, as this leaves the battery in plain view, and insures better attention than if it is enclosed.

The switchboard that is used is more for convenience than anything else. The cost of a plant with a good switchboard is not much greater than with a cheaper type of board, and it is usually worth the difference.

It is usually a good idea for the purchaser to have his house wired by an electrician, so as to be sure that the wiring is put in in accordance with the requirements of the insurance companies.

There are three systems of operation in general use. The one known as the parallel charging scheme is commonly

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Electric generators for use with small lighting plants have been developed by a half dozen reputable manufacturers. It is always a good plan to purchase material of this kind from a firm having a reputation.

The storage battery used in these plants is really the heart of the whole system. The battery best adapted to use on the farm is what is known as the Plante plate. This will give the best service with the least attention. It is preferable to have these plates assembled in glass jars, as this leaves the battery in plain view, and insures better attention than if it is enclosed.

The switchboard that is used is more for convenience than anything else. The cost of a plant with a good switchboard is not much greater than with a cheaper type of board, and it is usually worth the difference.

It is usually a good idea for the purchaser to have his house wired by an electrician, so as to be sure that the wiring is put in in accordance with the requirements of the insurance companies.

## Learn the Value of Electric Light

How often do you long for a clear, dependable light in your home, barns and outbuildings—a light that is ready on the instant, of brilliant illumination and free from fire risk?

There is but one light that will answer your requirements. It is Electric Light, and it is made possible for your farm, regardless of where it is located, by an Individual Electric Lighting Plant using the

### "Chloride Accumulator"

This battery is exactly the same as those used in large municipal Lighting Stations. By running your engine and dynamo for a few hours during the most convenient part of the day, the battery stores up and retains enough electricity to last through the coming night or longer. You can also use your engine for other farm work. The "Chloride Accumulator" will furnish your light when you want it by the simple pressure of a switch. No inconvenient starting of your engine at night, no danger of breakdown at vital moments. Your light is always ready awaiting the moment when needed.

Individual Electric Lighting Plants are inexpensive, efficient and easily operated. Our book "How to Have Electric Lights on the Farm," tells all about them. Write for it today.

### THE ELECTRIC STORAGE BATTERY CO.

1888 PHILADELPHIA 1913  
New York Boston St. Louis  
Cleveland Atlanta Denver  
Detroit San Francisco Toronto  
Portland, Ore. Seattle Los Angeles  
Chicago

## PLOW DEEP FOR THE DOLLARS

With the LEADER TRACTOR you will plow deeper and better and bring up the soil never turned over before.



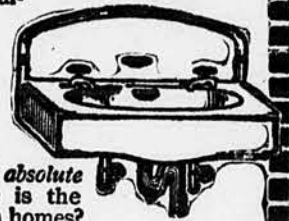
Deep plowing will double the yields of your crops and unearth a MINE OF GOLD that will pour into your pockets and bring you smiling prosperity. 80 acres intensely farmed or 160 acres farmed in the regular manner will quickly justify the purchase of a LEADER TRACTOR. One man farming 150 acres saved the entire cost in a little over 13 months. Four horses were sold. One man less was required, and so much work was done that he actually saved its cost in that time. He also had better crops. What he has done, you can do with a LEADER. Write for "The Book of Farm Power" today. Right now. Let us tell you how you can do it on your farm.

LEADER ENGINE CO., 216 Wealthy St., S. W., Grand Rapids, Mich.

## It Cleans Without Scouring—

With its patent sifter top—its magic cleansing qualities—its purity and full strength—a can of Lewis' Lye is a necessity in every home.

Powdered, perfumed, easy, agreeable and convenient to use—doing its work better, with less labor and more economically than any so-called cleanser on the market—is it any wonder to you who know and appreciate the importance of absolute cleanliness, that Lewis' Lye is the standard cleanser in a million homes?



## Lewis' Lye

The Standard for Half a Century

—Is lye, pure lye; nothing more or nothing less.

Made by manufacturing chemists who vouch for its 98% and full strength, Lewis' Lye is by far the safest and most economical household article obtainable; and every woman who has used it for any of the purposes named below, will endorse this statement as being absolutely true.

Get The Genuine—Made by Manufacturing Chemists—Guaranteed Absolutely Pure

If you value your skin—but don't think of starting to clean house or make hard or soft soap with anything but the genuine—which your grocer will vouch for in quality as best for—

—Cleaning —Disinfecting —Destroying Vermin —Softening Water —Making Soap —Spraying Trees —Conditioning Hogs —And all general purposes

Our free booklet suggests half a hundred other uses for Lewis' Lye in the home or on the farm, that you'll be glad to know about. Send for a copy today. Simply address: PENNSYLVANIA SALT MANUFACTURING CO.

Manufacturing Chemists  
PHILADELPHIA



trouble whatsoever, and experience has shown that they do not.

All necessary instructions are furnished with the plant. If the battery used is that manufactured by one of the larger companies, the customer will probably have the advantage of a service department, which will give him all the assistance necessary in operating his plant and keeping it in the best of condition.

**FREE** Literature will be sent to anyone interested in the wonderful Sacramento Valley—the richest valley in the world. Unlimited opportunities. Thousands of acres available at right prices. The place for the man wanting a home in the finest climate on earth. Write to a public organization that gives reliable information. Sacramento Valley Development Assn., Sacramento, California

**PROTECT YOUR HOME** With an up-to-date Fire Extinguisher. \$3.00. Refilled free. of charge. Western Buyers Association, Kansas City, Mo.



Manson Campbell  
the Father of  
the Chatham  
System of  
Breeding  
Big Crops  
and the  
Inventor  
of the  
Chatham  
Grain Grader  
and Cleaner



## My New Book on Cleaning and Grading SEED GRAIN—

**You May Have It Free**

In this 1913 Book on Cleaning and Grading Seed Grain I have put the net results of my 40 years' knowledge of Seed Selection—my conclusions after talking with thousands of practical farmers. No matter what kind of grain you are growing or what kind of weeds are bothering you, this Book will tell you just how to get pure, clean, plump grain for sowing. It shows the easy, simple, inexpensive way to take out all weed seed and all small, sickly, skinny grains that may be all right for feeding, but not fit to sow. And if you have two grains mixed, you will learn just how to separate them perfectly.



My 1913 Book is handsomely printed in colors. It is 8 1/2 inches in size. It contains scores of pictures and illustrations. I have had it copyrighted. It is the pride of my life—my masterpiece. On account of their cost, I have had only a limited number printed, just enough, I figure, for those farmers who are really willing and anxious to increase their crops from 20 to 35 per cent. Now, if you, reader, want one copy of this book, you may have it, FREE.

### To Clean and Grade Any Grain or Grass Seed

My 1913 Book tells how to handle over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. How to take cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; how to sort corn for drop planter. How to remove foul weed seed and all shrunken, cracked or sickly grains. How to take out all dust, dirt and chaff.

### Machines Loaned FREE!

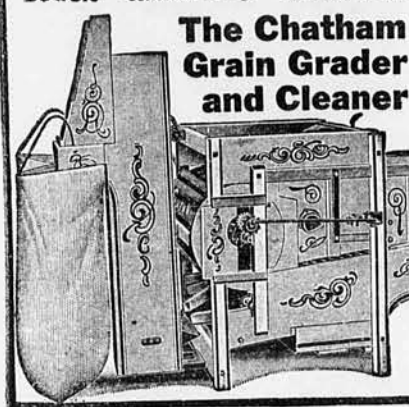
Most men nowadays want private Grain Graders and Cleaners right on the farm. If you want one I will supply it on this basis: At your request, I will loan you my famous Chatham Grain Grader and Cleaner (1913 model). Pay nothing in advance. I will even pay the freight. If you don't like it, you may return it. If you do like it, you may have it at the factory price. That's close to net cost. I don't care whether you pay right away or not. Any time before November first will do. I try to be accommodating.

My "Chatham" is the only Grader and Cleaner that comes with Special Equipment for your farming section. You get exactly the outfit needed for handling the Grain and Weeds that grow on YOUR farm. Thus you buy nothing you don't need and you have everything you do need. Nearly 300,000 "Chathams" are now used in the United States and Canada.

### Write Today Sure

If you want a copy of my new Book, simply write this on a postal, "Send me Your New Book on Cleaning and Grading Seed Grain." Book will come by Return Mail.

THE MANSON CAMPBELL CO.  
Detroit Kansas City Minneapolis



**The Chatham  
Grain Grader  
and Cleaner**

### Rider Agents Wanted

In each town to ride and exhibit sample 1913 bicycle. Write for special offer.  
**Finest Guaranteed \$10 to \$27**  
1913 Models  
with Coaster Brakes & Puncture Proof tires.  
1911 & 1912 Models \$7 to \$12  
all of best makes.  
**100 Second-Hand Wheels**  
All makes and models, \$3 to \$8  
good as new.  
**Great FACTORY CLEARING SALE**  
We **Ship on Approval** without a cent deposit, pay the freight, and allow **10 DAYS FREE TRIAL**.  
**Tires, coaster brake rear wheels, lamps, sundries, parts and repairs** for all makes of bicycles at half usual prices. **DO NOT BUY** until you get our catalogues and offer. Write now.  
**MEAD CYCLE CO., Dept C131 CHICAGO**



**GOLD WEDDING RING FREE**  
Send for four of our beautiful 12x16 Enameled Art Pictures to distribute with Mammoth Pattern Collection at 25c each. Return us the \$1.00 when collected and we will send you by return mail this very fine 14K gold filled heavy band ring. Address B. F. MOSE, 362 Household Bldg., Topeka, Kan.

## Leidigh's Answers To Farm Questions

Conducted for Farmers Mail and Breeze by  
A. H. Leidigh, Department of Farm  
Crops, Kansas Agricultural College.

### What Grasses for Cattle Pasture.

What kind of grass would stand drouth, wet weather and frost best in Marion county and make most abundant pasture for cattle? I tried English bluegrass but it disappeared in two or three years. Our soil is black with a very little sand.—R. E., Marion county.

Your question is difficult to answer, but a mixture of Brome grass, Orchard grass and Kentucky bluegrass will probably very nearly answer your requirements in all but the driest years. About 10 pounds of Bromus inermis, 10 pounds of Orchard grass, and 5 to 10 pounds of Kentucky bluegrass seed should be used. However, I believe it would be desirable to include in this mixture 5 pounds of Meadow fescue (English bluegrass), and 2 or 3 pounds of White sweet clover seed.

In this mixture we would expect the Bromus inermis to be the most drouth resistant, but if it got well started it would probably become root-bound in a few years and prevent the small amount of Kentucky bluegrass, which we have included, from making much of a showing. If the Brome grass does do well for a few years and then becomes root-bound, very thorough cultivation at the beginning of spring will aid somewhat in increasing the value of the pasture, as will also the occasional application of about 10 tons of barnyard manure per acre.

If your pasture is to be planted on waste land, it will probably be desirable to attempt to make it permanent. If you must plant on good soil which is available for field crops, my advice would be not to keep this field in pasture more than a few years. At that time you should seed down another piece and as soon as it is ready for pasture the old field should be broken up and planted to Kafir the first year and to other crops after that for several years.

You may obtain seed of the various grasses from any of the well known Kansas seed houses. The prices fluctuate, but last year good seed of the varieties mentioned sold for approximately the following prices:

Brome grass	.....15c per pound
Orchard grass	.....18c per pound
Kentucky bluegrass	.....14c per pound
Sweet clover	.....17c per pound

As you are probably not used to handling these seeds and are not familiar with the injurious weed seeds which may possibly be contained in them, I suggest you secure samples from dealers and send the samples to the Kansas Experiment station, Manhattan, for examination and testing in order that you may know that you are securing good strong seed, free from injurious mixtures.

A. H. Leidigh.

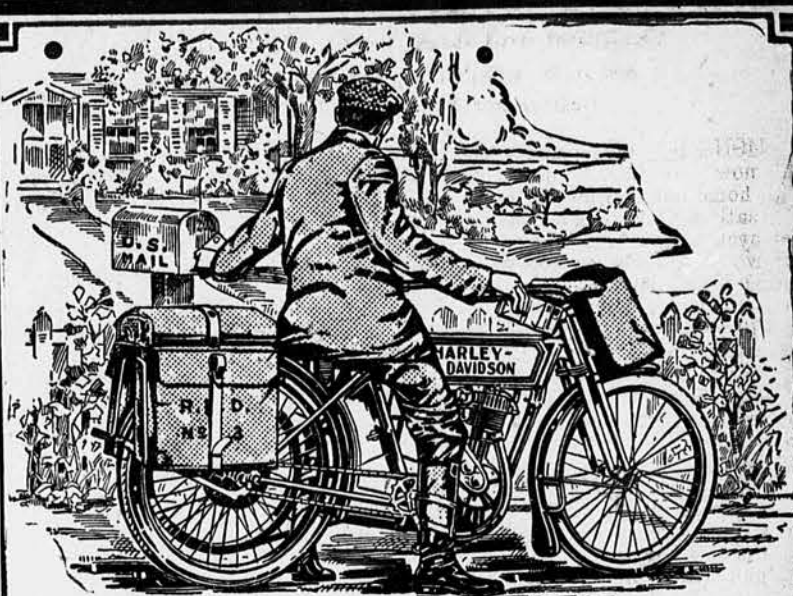
### The Tractor in Field Work

(Continued from Page 12.)

cost that can be seen or figured. If one of your horses dies from overheat, overfeed, drinking while too hot, or a horse is kicked, or gets crippled in a runaway, or a plow is torn to pieces in a runaway, your cost would be more.

A tractor pulling the same number of plows would cost \$2,000, and plow 20 acres per day, using 20 gallons of gasoline at 15 cents per gallon, 3 gallons of lubricating oil at 40 cents per gallon, an engineer at \$2; making a total of \$6.95 per day, or a little less than 35 cents per acre. By comparison we find power farming much cheaper, and when the gas tractor is not working it is at no expense. If you have a rush season, you can run the tractor early and late or run a night shift by changing engineers. The horse must have his rest. The tractor, also, will allow us to put the plows in a little deeper, getting new soil mixed with the old soil, which will better crops and keep the ground from blowing.

I believe the gas tractor will cheapen production and aid us to get better crops. In regard to it, we should not be like the man who saw his first locomotive and was willing to bet anything they never would be able to start it and if they did that they would not be able to stop it.



## A New Model of the Silent Gray Fellow

**MORE** pulling power at low speeds, more power on the hills, more reserve power for sand and mud. That was the demand our engineers set out to satisfy by building the

**HARLEY-"5-35"**  
**DAVIDSON**

(5 actual horse-power—35 cubic inches piston displacement). Dynamometer tests show that this motor develops 166 per cent. more power at 5 miles per hour than even the former 4 horse-power Harley-Davidson, which was the acknowledged leader in its class. 145 per cent. more power at 10 miles an hour, 80 per cent. more power at 20 miles an hour.

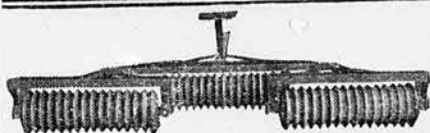
It will climb hills, pull through sand and over roads impassable to the average automobile. The "5-35" motor will pick up from a standing start to forty miles an hour in 300 feet. At low speeds this machine develops more power than some twin cylinder machines with higher horse power rating.

The Ful-Floteing Seat (an exclusive Harley-Davidson feature) places 14 inches of springs between the rider and the bumps. The springs absorb all jolts, jars and vibrations, making the Harley-Davidson ride as easy as the highest priced touring car.

The Free Wheel Control (another exclusive Harley-Davidson feature) is incorporated in each model this year. This device enables the rider to stop and start his machine by the mere shifting of a lever, thus doing away entirely with the tiresome pedaling and the objectionable running alongside to start.

Description of these and other features on request.

**HARLEY-DAVIDSON MOTOR CO.**  
649 A Street MILWAUKEE, WIS.



## Increase Your Crop 8 to 15 Bushels to Acre

The Brillion Clod Crusher will increase your yield from 8 to 15 bushels per acre. It crushes, pulverizes, rolls, levels and packs the soil. Makes a perfect seed bed which retains all the moisture a few inches below the surface. Free Booklet tells all. Write today.

**MOLINE PLOW CO.,**

Dept. 412, Moline, Ill.

**KANSAS MOLINE PLOW CO.,**

Dept. 412, Kansas City, Mo.

Winter eggs do not come by chance. It takes planning and work to get them, but it pays.

## RED LETTER BIBLE FREE

I want to give one of these superb, self-pronouncing Red Letter Bibles to every reader of this paper in return for a very small favor which will require but a few moments of your time. This is a very beautiful and very expensive Bible—size 7x5 1/2 in., printed in large, clear type, on pure white paper, bound with Imperial Seal, overlapping edges, strong and flexible. Especially adapted to the needs of Church and Sunday School workers. The words of Christ are printed in red. Profusely illustrated. **Send No Money** This Bible is my free gift to you in return for a very small service. Send your name today for descriptive circular and full particulars of my free offer. Address: **HOUSEHOLD BIBLE CLUB, 854 Jackson St., TOPEKA, KAN.**

## 22-Cal. HUNTING RIFLE GIVEN

1913 Take-down Pattern, with all latest improvements, walnut stock and grip. Shoots accurately 22 long or short, handsome, durable. **SEND NO MONEY** Just send your name and address for my easy plan by which you can secure this fine rifle Absolutely Free Express Prepaid. Write today. **H. A. SLOAN,** Epitome Building, SPENCER, IOWA



NOW!

Send Your Name  
For Book About  
Farm Wagon Economy



Tells  
how to use your old run-  
ning gears for many years; save  
10,000 high lifts; save repair bills.  
**ELECTRIC  
Steel Wheels**  
Make hauling 80% to 90% easier!  
Don't put roads or fields on a break  
or dry apart. Send for illustrated  
book of wheels and wagons.  
Electric Wheel Co.,  
80 Elm St., Quincy, Ill.

Save  
High  
Lifts

**A Saddle for \$38 Cash**

Our latest 1910  
Swell Fork Sad-  
dle, 16-inch swell  
front, 26-inch wool  
lined skirt, 5-inch  
stirrup leathers, 34  
rig made of best  
oak leather, guar-  
anteed for ten  
years; beef hide  
covered solid steel  
fork.

**The Fred Mueller**

SADDLE & HARNESS CO.

1413-15-17-19 Lorimer St.,

Denver, Colorado

Our new catalogue  
sent free.



The  
Celebrated  
Mueller  
Saddle.

**MAN WANTED  
WITH RIG**

In each County. A permanent, profitable busi-  
ness selling the famous Seelye Products, includ-  
ing Wasp-Yess, Fro-Zone, Ner-Vena, Hesia-  
Derma Soap, Universal Condition Powders,  
Kills-Germ, (Disinfectant) and 72 other Seelye  
Household Specialties. Our Salesmen average

**\$100 TO \$300 A MONTH**

Stenford saved over \$10,000 while selling Seelye  
Preparations. Dayton sold \$1,000 worth first ten  
weeks. NO RISK. Goods  
furnished on credit to  
ambitious man of char-  
acter who can furnish  
two responsible guaran-  
tees. Sales experience un-  
necessary. Write today.

**A. B. SEELYE MEDICAL CO.,**

405 Seelye Bldg.,  
ABILENE, KANSAS.



**Why We Should Drain!**

Farmers say "fields that  
averaged 25 bushels per acre  
now average 50 to 60 bush-  
els per acre since tiling."

"I have realized 25 per cent on  
my investment in the increased  
yield of a single crop." When  
one can double his crop, when  
one field will do the work of  
two, why hesitate to tile?

More interest is being given  
in Kansas in increasing the  
yield per acre than ever before.  
Write for "Hints on Farm  
Drainage," sent free by

**Humboldt Brick Mfg. Co.**  
Humboldt, Kansas.



**Velvet**  
THE  
SMOOTHEST  
TOBACCO

If you've never  
tried it, you do  
not know how  
good Burley  
Tobacco is.

At all  
dealers  
**10c.**

**\$25**

Pays for a full Business Course in  
this School. Why pay more? We  
guarantee Positions. Board Cheap.  
Write for Journal D. Address,  
**Central Kansas Business College**  
ABILENE, KANSAS

**FREE COWBOY**

Watch Fob  
Here is the most unique, popular  
novelty of the year—a nifty little leather holster  
and metal gun, an exact duplicate of a "45"  
Army Colt, with bright polished barrel and  
cylinder, black handle. Gun 4 1/4 in. long. Hol-  
ster 2 1/4 in. long, genuine leather, tan color.  
Makes a neat appearing and serviceable watch  
fob or can be worn on belt as ornament. Worn  
by men, women, boys and girls. The one real  
western novelty. Sold in big cities at a high  
price. Send 10c to pay for 8-month trial sub-  
scription to our big farm and home magazine and receive  
the COWBOY WATCH FOB and GUN free. Address,  
**VALLEY FARMER, Dept. Fob-14, Topeka, Kan.**



## Year Meetings Need Youth

And Young Farmers Need the Year Meetings  
Farm Organizations All For Waters

A GOOD way to find out "what's  
going on" agriculturally in Kan-  
sas is to take in the farmers' and  
stockmen's year meetings in To-  
peka. These annual gatherings constitute  
a sort of barometer which indicates what  
is engaging the thought of the farming  
fraternity. They form a common meet-  
ing ground for the man at the produc-  
ing end and the man who is applying  
his knowledge and skill to evolve newer  
and better methods, and both are bene-  
fited. The swapping of farming experi-  
ences and renewing of acquaintances in  
themselves make the journey to the  
capital worth while. Just one thing is  
evident at these year meetings that is  
not encouraging. It is the almost total  
absence of the younger generation of  
farmers and stockmen. An infusion of

Resolved, by the Kansas State Board of  
Agriculture in its 42nd annual meeting as-  
sembled, that it earnestly presents and  
commends to the favorable attention of  
President-elect Wilson the name of Henry  
J. Waters, president of our State Agricul-  
tural college, as that of a man by char-  
acter, education and experience peculiarly  
and preeminently qualified for secretary of  
agriculture, as the successor of Hon. James  
Wilson, whose distinguished service in that  
capacity is a matter of pride to the inter-  
ests of agriculture everywhere.

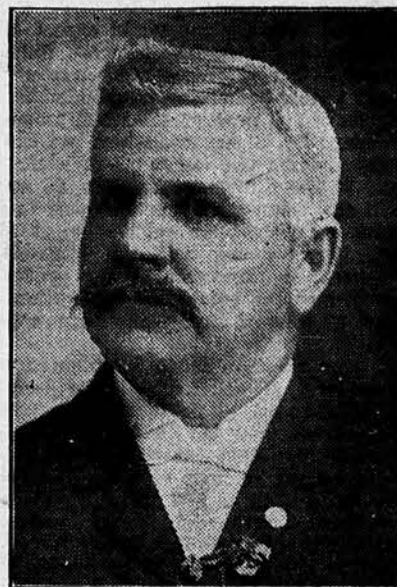
The board of agriculture also en-  
dorsed the work being done by Kansas  
Agricultural college and favored legis-  
lation that would encourage the devel-  
opment of western Kansas through irri-  
gation and otherwise. The board also  
declared itself for legislation that would  
promote state and county fairs.

The stock breeders opposed the idea  
of a single board of regents to control



**GEORGE B. ROSS**

The newly elected president of  
the Kansas State Board of Agri-  
culture.



**HENRY W. MCAFEE**

Promoted from vice president to  
president of the Kansas Improved  
Stock Breeders' Association.

"young blood" is the thing most needed  
by these organizations. And the "young  
blood" needs the helpful instruction and  
wise counsel that may be had for the  
trouble of attending the meetings.

Both the board of agriculture and the  
stock breeders came out unanimously in  
favor of President Waters of Kansas  
Agricultural college for secretary of  
agriculture in the cabinet. Two Kansas  
men have been mentioned for this posi-  
tion thus far—President Waters and  
Secretary F. D. Coburn. By a curious  
coincidence Secretary Coburn offered  
the resolution before the board of agri-  
culture, endorsing President Waters for  
the place. The resolution will be for-  
warded to President-elect Wilson and  
reads as follows:

Whereas, It is a reasonable presumption  
that the incoming president of the United  
States will name a cabinet, including a  
secretary of agriculture, other than the  
present occupant of that office;

the state's large educational institu-  
tions. They passed a resolution favor-  
ing the appointment of J. M. Rodgers,  
secretary of the Mitchell County Breed-  
ers' association, as state livestock sani-  
tary commissioner, the office now held  
by J. H. Mercer.

George B. Ross of Sterling was elect-  
ed president of the board of agriculture  
to succeed I. L. Diesem. Mr. Ross is a  
well known stockman of central Kansas  
and had just finished a year's term as  
president of the Kansas Improved Stock  
Breeders. He was also honored at Man-  
hattan last week by being chosen presi-  
dent of the Kansas Horse Breeders' as-  
sociation. The other officers of the  
board were re-elected.

The stock breeders chose Henry W.  
McAfee of Topeka for president T. H.  
Terry of Bavaria, vice president; and I.  
D. Graham, Topeka, secretary and treas-  
urer.

## Kernels From the Addresses

The papers and addresses of the 1913  
year meetings were exceptional. They  
combined the practical with the scienti-  
fic in a way that was in no sense out  
of reach of the layman. Farmers Mail  
and Breeze will publish the gist of them  
sooner or later. Meanwhile a few ex-  
tracts, containing the kernel of a num-  
ber of the addresses are here given:

D. A. Wallace, editor The Farmer, St.  
Paul, Minn.—I have little sympathy  
with the prevalent idea that the farmer  
is wilfully neglecting his opportunities  
in farming. The farmer is making as  
good a showing as is the man in any  
other line of industry. Like any other  
man, he will improve his condition and  
increase the production of the soil in  
direct ratio to the financial returns  
promised.

The increase in the value of the land,  
not the profits of his farming opera-  
tion, has put the farmer in the auto-  
mobile class. Farming is only a 4 per  
cent proposition. This is due to the  
fact that it costs more to market a  
crop than it does to raise it. With po-

tatoes retailing at \$1.25 the producer  
gets the quarter; the middleman gets  
the dollar.

Co-operation and organization in sell-  
ing forces will help. The farmer must  
become less of an individualist and act  
as a unit. The buying process of the  
middleman is well organized.

J. H. Miller, Manhattan, Kan.—The  
county demonstration agent will be a  
practical farmer, preferably a graduate  
of the Agricultural college. He will car-  
ry the best methods of each farmer to  
others who are not acquainted with  
these methods. The college is not push-  
ing this plan, but is lending its help  
wherever the counties are adopting it.

In Leavenworth county, so far, the  
agent has met with great success. He car-  
ries into the every-day life of the farmer  
the practice of the facts that are listened  
to at the institutes, but too often are  
listened to only. He takes to the farm  
the knowledge that the college, the  
board of agriculture, and the experiment  
stations have gathered. He markets

**LOUDEN'S LABOR SAVING  
LITTER CARRIER**



**Tickles the  
Boy because it  
makes a man of  
him—enables him to do a  
man's work with ease.**

You clean your barn with half  
the effort in half the time. The  
**LOUDEN CARRIER**

makes this heavy job fun for the boy.  
Curves and switches take the carrier to  
any part of the barn. The cost is small.  
It's a money making investment in any size  
stable. Send for Catalog. Ask your  
dealer about the LOUDEN CARRIER.

**BARN PLANS FREE**

If you expect to rebuild or  
remodel a barn our Architecture  
Department will work your ideas  
into a real plan without cost or  
obligation to you. Tell us the  
number and kind of stock you  
wish to stable and give other  
information. We may be able to  
save you a good many dollars.

We manufacture every equip-  
ment for Dairy, Horse and Hog  
barns, and hay unloading tools.



**LOUDEN MACHINERY CO.**

617 BROADWAY

FAIRFIELD, IOWA.

**9 CORDS IN 10 HOURS**



BY ONE MAN. It's KING OF THE WOODS. Saves money and  
backache. Send for FREE catalog No. B-1 showing low prices  
and testimonials from thousands. First order gets agency.  
Folding Sawing Mach. Co., 161 W. Harrison St., Chicago, Ill.

**FREE**

**This Famous Sewing Awl**

You can sew old or new  
harness, saddles, canvas,  
tents, rugs, carpets, quilts,  
shoes, grain bags and  
many other things. You  
can use any kind of  
thread in the Myers  
Awl, and it makes a  
lock stitch same as a  
sewing machine. It is  
very simple; a woman  
can use it as well as a  
man. It is one of the  
most practical devices  
ever invented. They are  
put up with two needles;  
one is straight and one  
curved, with a small screw  
driver and wrench combin-  
ed. Also a reel of waxed  
thread with each awl ready  
for use. The cut does not  
show full size. With needle  
the awl is 6 1/4 in. long. It is  
the Myers' Famous Lock  
Stitch Sewing Awl. It is  
the only Sewing Awl made  
with a groove running  
the full length of the  
needle, so as not to cut  
the thread when sewing,  
and has what is known as  
a diamond point. Every  
teamster and farmer should  
own a Myers Lock Stitch  
Sewing Awl, as there is use  
for one in almost every house-  
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the produce of the men in his district, keeping in touch so that the produce can be sent to the right place at the right time. His value to the community, in my opinion, cannot be measured in the amount of his salary.

Pearl Pagett, stockman, Beloit, Kan.—When we take in consideration the fact that a 300-pound porker has to pass through the hands of shippers, railroads, commission men, the packer, wholesaler, traveling man, and at last to the consumer, a generous slice is taken off of him, and we may consider ourselves lucky if our 300-pound hog has not diminished to a suckling pig. If we are to produce pork at a price that the laboring man can afford to eat, we must produce it as inexpensively as possible. Among the things I would suggest is to breed your sows so you will have a car of fat hogs on the market at one time. Ship them yourself to some reliable commission merchant and if you do not get the top price find out the reason and correct the error the next time.

Homer L. Faulkner, stockman, Jamesport, Mo.—How do I raise my hogs without cholera? Well, the first thing I do is to keep them free from worms. I do this by feeding them a good worm eradicator. I know all about your coal oil for lice. I have tried it to my own satisfaction. It will kill lice all right—and the hogs too. I dip my hogs every two or three weeks, except for about three months in the winter season. I never did hear of cholera breaking out in a herd of hogs that were well taken care of.

I am not in sympathy with this so-called "simultaneous" treatment that commercial serum companies are advocating. We need legislation against this virus blood being sent out. It should be stopped. If cholera gets in your neighborhood vaccinate your hogs with the immune serum.

F. W. Blackmar, University of Kansas, Lawrence, Kan.—This back-to-the-

#### WHAT WILL THEY DO?

##### Democrats in Control of Every Branch of State Government for First Time in History.

The incoming state administration of Kansas will occupy a rather unique position inasmuch as it will be the first time in the history of Kansas when every branch of the State Government is in the hands of the Democrats.

Twenty-nine years ago Kansas elected its first and only Democratic Governor but there was slight opportunity for him to put Democratic policies into effect as both branches of the legislature were opposed to him. This year a legislature overwhelmingly Democratic in both branches will convene. A Democratic Governor will sit in the state house and for the first time in its history Kansas will be absolutely under Democratic rule. It is on that account that the coming session of the legislature will prove of special interest. All citizens, irrespective of party, will be interested in the incoming administration. The voters at home will want to know what their representative is doing. You will want to know what your representative is doing. Is he fighting for you or against you? You want to know his record and you want to know it every day.

Anticipating the fact that there will be a greater demand for legislative news than ever before in the history of Kansas, The Topeka Daily Capital has just completed elaborate arrangements by which it will be, as always, first in the field with full and complete legislative news. The Topeka Daily Capital will provide the only means which will enable you folks back home to keep in daily touch with the movements of the one you elected to represent you in the coming session of the legislature. The Topeka Daily Capital wants every citizen of Kansas to keep posted regarding the working of the present legislature and on that account the Capital is being offered at a price easily within reach of all.

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farm movement is much of it nonsense. If the average city man went back to the farm he would be a failure, and only still further decrease the yield per acre. At the same time we must admit that the big factor in holding down the living cost is the production of more and better crops on the farm. Scientific, intensive farming has become a necessity and the need of it, and the need for education along that line cannot be too strongly emphasized.

John Peck, farmer, Tecumseh, Kan.—The man who robs the soil is as much a robber as the man who robs a bank, and should be treated as such. The man who takes a farm and works it, uses up the fertility of the soil, and leaves it poorer than he found it, is a thief. He is taking something that belongs to future generations.

W. S. Corsa, horse breeder, Whitehall, Ill.—We are told that the supply of crude oil from which the automobile feed comes, is falling off every day. That increases the price of gasoline and the cost of operating the auto-truck. But there is an inexhaustible supply of horse feed on the surface of the ground, even though the subterranean supply of automobile feed is diminishing.

Dr. A. F. Kinsley, veterinarian, Kansas City.—About 5,000 of the 27,000 horses that died of the epidemic were killed by improper treatment. It was not uncommon for grafters to collect as much as \$500 in one community and then move on to another. The state board should revoke some licenses in the state if the reports I have received are true.

Samuel Avery, chancellor Nebraska University.—The particular work of the agricultural college is to train agricultural leaders, who need the breadth which the atmosphere of a great institution of higher learning alone can give. The college must turn out teachers, experiment station workers, leaders in farm economics, agricultural thinkers and statesmen—in short, leaders who will serve the farmer as distinguished from those whose purpose is merely to cater to the farmer. For this work we have plenty of agricultural colleges and all the educational machinery we need. Our future expansion should and must come in secondary schools.

Walter J. Burtis, stockman, Fredonia, Kan.—The cost of production has little control over market quotations. The cattle producer is always stared in the face by the losing market bogie. When the feeder puts his cattle on feed in the fall, the price of corn may rise over the entire producing area, but an unfavorable cattle market may develop and ruthlessly wipe out his margin of profit and even draw on his accumulated resources. The cattle breeder on the farm has still more trouble for he is still further from the market. I venture to say, that until very recent years, three-fourths of the cattle leaving the small farm were sold at an actual loss, all expenses considered.

W. A. Lippincott, Poultryman, Manhattan.—Eggs that have lain for a week under a corn crib or in a straw stack are purchased at the same price as eggs that have been taken care of by the most approved methods and are of finest quality. Such a system is wrong, not matter what the product. The only way that we can hope to improve the quality of Kansas eggs is to give the farmer financial incentive to produce and sell better goods. We must teach his pocket nerve. The only way this can be accomplished is to pay the farmer, who takes pains to offer good goods, a better price than his more careless neighbor.

W. A. Cochel, Head of Animal Husbandry Department, Manhattan.—Kansas will become the leading beef cattle state whenever the farmers of the state give as much attention to breeding and feeding as they now give to the selection of grain and the cultivation of crops. The most prosperous, the most contented, and the most progressive farmers are those who handle beef cattle year in and year out, utilizing them to convert the grass, alfalfa, and corn into a more concentrated farm product. Cattle have brought wealth to all peo-



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We could send you hundreds of enthusiastic letters from those of our readers who have received these spoons on other offers we have made in the past. We know they will please you, too—and if they don't you can send them back within 5 days and we will cheerfully refund every penny of your money.

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

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

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ples, their absence has meant a decline in crop yields and abandoned farms.

C. S. Nevius, Shorthorn breeder, Chiles, Kan.—It has been said that the western part of our state has no use for the silo. Any part of the state that can grow Kafir or cane, even every second or third year could use a silo to great advantage. Silage will keep, and it would be an insurance against a shortage of winter feed when the bad season comes.

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## Feeds & Feeding

QUESTIONS ANSWERED  
by Prof. G. C. Wheeler

(Address queries to Farmers Mail and Breeze)

All Matter Contributed to this Column by Prof. Wheeler, Expert in Animal Husbandry, Extension Service, of Kansas Agricultural College, Bears His Signature.

### How Tall Is a Yearling Mule?

How tall is the average yearling mule?—V. L. T., Wilson county, Kansas.

It would be impossible to say how tall the average yearling mule should be, since mature mules range in size all the way from 12 hands up to 17 hands. In the growth of colts and mules it is desirable to so feed them that they will make about half their growth during the first year. The increase in height from the yearling to the mature mule would probably not amount to more than from 4 to 6 inches as a rule.

G. C. Wheeler.

### Pasture or Roughage for Calves.

For summer and spring calves and mules, how much better would green wheat pasture, green alfalfa, alfalfa hay, and wheat and oat straw be than dry roughage in a feed lot? How much will the average early summer calf weigh at this time? How often should calves on green pasture be salted? Are crabgrass and unthreshed flax good feed for cattle?—V. L. T., Wilson county, Kansas.

It is impossible to say just how much more valuable wheat pasture and alfalfa pasture with alfalfa hay or straw would be than dry roughage alone in the feed lot. A great deal would depend upon the character of the dry roughage used. There is no question but that the pasture would give much better results than the use of dry feeds alone.

A good early summer calf ought to weigh from 400 to 600 pounds at this season of the year. It is desirable to have salt before stock at all times and calves on green pasture would be no exception to the general rule.

Crabgrass cut while still green and properly cured makes a good quality of hay. Unthreshed flax if properly cured with this crabgrass hay would be made good use of by stock cattle.

G. C. Wheeler.

### Coach Horses for Farm Work.

Are Coach horses good general purpose horses? Would it be wise for a farmer to buy a team of registered Coach horses expecting to work and drive them as well as raise colts?—C. H. H., Jefferson county, Kansas.

The coach horse is not generally considered a work horse. This type has been developed for the special purpose of drawing heavy carriages and vehicles on city streets. While it is true that this class of horses brings high prices when they possess all the requirements of the type in a high degree, it would be an uncertain proposition for the average farmer to attempt to produce them profitably. If you wish to make it your special business to breed and develop this type of horse, treating your other farm operations as a secondary issue, you might find it profitable. As a general proposition the draft type is the safest type for the average farmer to produce. High class carriage horses always require a great deal of expensive training and development before they will bring what they are worth on the market. The drafter requires little development and training to make him salable, and for most farm work is a more satisfactory animal than the carriage type.

G. C. Wheeler.

### Silage in the Beef Ration

BY W. A. COCHEL,

Department of Animal Husbandry, Kansas Agricultural College.

(From an address delivered before the Kansas Improved Stock Breeders, Topeka, January 6.)

Silage is the nearest substitute for the best pasture grasses that we have in winter. It is a more certain crop than any other roughage we grow, provided crops adaptable to local climatic conditions are planted for the silo. It is the only form in which corn, Kafir and the sorghums can be so handled that cattle will consume the entire stalk as well as the grain and leaves. More food nutrients can be produced this way than in any other manner, thus increasing the carrying capacity of the land. Silage can be stored and held over from one

year to another without any deterioration in value, thus enabling us to provide supplements to failing pastures or in case of total crop failure to hold livestock during a period of disastrous prices. It leaves the land in such condition that the wheat crop may follow it without any waste and eliminates one of the most disagreeable tasks of winter feeding—digging shock corn or stover out of the snow.

The man who is handling a herd of beef breeding cows may keep them in ideal condition by grazing in summer and feeding silage with alfalfa or clover hay in winter, thus carrying them through the entire year without the use of grain. Where alfalfa or clover hay are not produced successfully, the addition of 1 pound of cottonseed meal daily to a ration of silage and straw fed according to appetite will carry breeding cows through the winter in the best of condition. Stock cattle can be fed in the same manner with excellent success. In some sections of the country, breeders are finding it profitable to limit the grazing area and supplement summer pastures with silage.

At the Pennsylvania station it was found that mature beef cows were maintained through a winter period of 140 days at a net cost of \$7.22 on corn silage and cottonseed meal without other roughage or grain. This result was secured during the winter of 1911-12, which was the most severe on record in that state and should be adapted to western conditions at a reduced cost because of the relatively lower prices for feeds and better climatic conditions.

### Substitutes for Legume Hay.

The results secured at the experiment stations of Missouri, Iowa, Illinois, Indiana, Ohio and Pennsylvania show that where corn and hay from legumes is used as a basis, the addition of corn silage will not make any material change either in the rate, cost of gains or in the finish secured. But where a concentrate rich in protein, such as cottonseed meal, is added to a ration of corn, corn silage and hay, the results will be noticed in an increase in the rate and a decrease in the cost of gains. There is also an increase in the selling value as well as dressing percentage of the cattle. A ration of corn, cottonseed meal and corn silage has proven to be equal to one of corn, cottonseed meal and clover or alfalfa hay in every respect for fattening steers.

The silo will be essential on every farm in Kansas where there is likely to be a deficiency in the amount of roughage for winter feeding. It will furnish the cheapest sort of roughage for beef cattle of all ages and in all degrees of condition. It can be used in summer or winter with equal advantages.

### Two Things to Remember.

The feeders must, however, remember two things. First, that it is a roughage, hence maximum results cannot be expected, where a heavy grain ration would be necessary to secure results without silage. Second, that it is deficient in protein and if used in very large quantities must be supplemented with cottonseed or linseed meal or some other highly concentrated source of protein. With these two factors fully fixed in the mind of the feeder, the more silage he uses the better he will be satisfied. It will not work miracles but will reduce the cost of production of beef when used intelligently in Kansas or any other state where there is not an excessive amount of roughage for winter use.

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## Dairy Farming

CONDUCTED FOR FARMERS MAIL AND BREEZE BY A. G. KITTELL.

This department aims to be a free-for-all experience exchange for our folks who keep milk cows. We are glad to hear from you often. A Mail and Breeze subscription and other prizes awarded each week for helpful or interesting letters or bits of dairy news.

Salt as often as if the cows were still on pasture.

Ask a dealer in oleo why he would like to color it to look like butter.

It is true economy in feeding to give the cows all the roughness they will eat.

Feed is high, but so is butter fat. The day of cheap things in dairying seems to be past.

Corn fodder is cheap and plenty, but don't forget to let the milk cows have all of it they want.

A gallon of cream testing 25 per cent should make a little over 2 pounds of butter.

Churn now with the cream at a temperature of about 62 degrees unless the day is quite warm, when 60 will do.

Timothy hay is poor milk-making material. Give clover or alfalfa, together with corn fodder, and see the milk pail fill.

Five thousand pounds of 5 per cent milk is not a very high record for a good Jersey. Are your beefy milkers doing half as well?

It is an exploded notion that silage will make bad-tasting milk. Silage is nothing but canned corn fodder, and is the best of feed.

### A Good Way to Stir Cream.

Mr. Editor—The care of cream in a dairy is of no small importance. Whether kept for butter or shipping the vessel should not be air-tight but a cloth should be tied over the top. This cloth should not be so thin that dust particles can filter through. We stir our cream three times each day and find that the best article for stirring is a pancake turner. It stirs the cream thoroughly, leaving none of the bottom to thicken and clabber. A spoon will not do it so completely.

Miss Warden.

"Warden Stock Farm," Choctaw, Okla.

### Butter Money in January.

[Prize Letter.]

Mr. Editor—We have five cows and two heifers with their calves. Five of these seven head were fresh in September and two the last of October. From this herd we are now (January 1) selling 77 to 81 pounds of butter. We have sold butter to the same merchant for eight years. The cows have all the corn fodder, cane and Kafir hay they will eat and at night we feed alfalfa in the manger. Besides this they get 1 gallon of bran and 1 gallon of corn meal at a feed each. They have good well water to drink and are cared for regularly.

R. 1, Altoona, Kan. A. R. Coats.

### A Start With Purebred Cows.

No sooner is the first purebred animal placed on the farm than neighborhood interest is at once aroused to something better. The first thing the beginner must do is to make up his mind what breed of dairy cattle he prefers. In this country there are four distinct breeds, Jersey, Holstein, Ayrshire and Guernsey. Either breed is good and answers its special purpose. Probably the most reliable place to buy is of the breeder who looks after all of the details of his business himself.

There are good and indifferent cows in all breeds. A good cow must have the dairy temperament for, although without this they may make large records, yet they are unable to produce desirable calves. Look for a cow with a long, deep body and an udder large, symmetrical, well attached and close to the body. The udder should have four teats well placed and the milk veins should be

large, long, and very crooked. The neck of the animal should be rather long and slender, surmounted with an intelligent head.

C. L. Busch.  
Washington county, Missouri.

### Home Cure For Calf Cholera.

Mr. Editor—Last spring I had an experience doctoring calves that proved to me that I had a good cure for scours. Two of my calves had the second day scours or calf cholera and were so bad they would no longer nurse the cow. They could hardly stand up and they looked to be beyond help. I had lost six in the same way before. The remedy I used was 1 tablespoonful of ground cloves and 1 teaspoonful of nutmeg, boiled in a pint of water. After boiling well I took it from the fire and added 1 tablespoonful of flour moistened in cold water, and 1 tablespoonful of castor oil. This mixture was diluted with a pint of fresh milk and each calf received half the mixture as a drench through a long-necked bottle. One of the calves recovered on the one dose and the other needed two to bring it around. This is all that saved my calves.

Marshfield, Mo. G. R. Grant.

### Air Cure for Caked Udder.

Mr. Editor—We use a home remedy for caked udder that has proven very successful for us so far. We take a common bicycle foot pump, place the end of tube against opening in the teat and pump air into the udder. Then the teats are worked as in milking, forcing out the air and what milk will come. This method used three times a day has never failed us.

R. 7, Abilene, Kan. Mrs. E. A.

[The air treatment is also in general use for milk fever but there is great danger of infecting the udder and ruining or killing the cow unless the air is disinfected before forcing into the teat. A special bottle or jar containing some liquid disinfectant, and having a tight cover with two tubes is recommended for this purpose. Connect the tube from the pump with the long tube in the jar that extends down into the liquid. The short tube in the jar is connected directly to the teat. Air is pumped into the jar and bubbles up through the disinfectant. As the pressure increases above the liquid, the air is forced into the udder through the short tube. If a milk tube is used in the teat, scald well before inserting. A 10 per cent solution of carbolic acid makes a good disinfectant to use in the jar or bottle.—Ed.]

### Something to Sell Every Week.

[Prize Letter.]

Mr. Editor—We milk six cows, none of them giving a great quantity of milk at present, but they average from 8 to 10 gallons per day. These six cows made \$50 for us during the month of December. We sell sweet milk, whole milk, and butter, making two trips to town per week with these products. We have regular customers for the butter at 30 cents per pound. The buttermilk sells at the grocery store for 12½ cents per gallon, and the morning's whole milk on marketing d.y.s is sold to regular customers at 25 cents per gallon.

After separating, the skimmilk is set aside to sour, and after the cream is churned the buttermilk and skimmilk are mixed together and this mixture is churned. This makes an excellent quality of buttermilk in winter but will not keep in hot weather like strictly cream buttermilk. Since we have built up this trade we find dairying both a profitable and pleasant work.

Mrs. H. F. Stringer.

El Reno, Okla.

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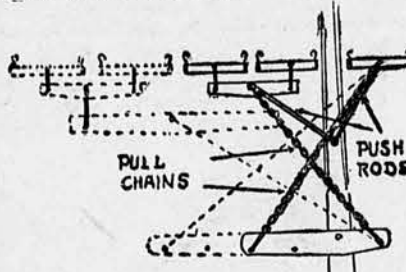
**Overcoming Side Draft**

REPRINTED BY REQUEST.

Some time last spring I saw an illustration in the Mail and Breeze showing a four-horse eveners used on a plow so that no horse would need to walk on the plowed ground. As I have lost this issue will you kindly reprint the drawing and sketch?—  
J. H. O., McLoud, Okla.

Many three-horse eveners do not overcome side draft. The power is so far to one side that the two horses push the tongue over against the one horse. Here is a remedy for any number of horses on one side of tongue and one horse on the other:

Put the tongue hole, or pull hole, in eveners so that the length of shorter end



DOTTED LINES SHOW EXTENSION.

Explanation: Diagram shows eveners for three horses. Dotted lines show how it would work if extended for five horses will be to the length of longer one in the proportion of 1 to 2, for three-horse eveners. Or in the proportion of 1 to 3 or 1 to 4 if you have a four or five-horse eveners.

Fasten a chain from short end of eveners to doubletree, which will be on opposite side, and run a chain from long end of eveners to singletree. Put in push rods from center of power on either side to tongue, or if there is no tongue from center of one power to center of the other power.

**January Institute Dates**

The fifth series of farmers institutes in Kansas for the year 1912-13 is now under way. The remaining dates together with speakers and places of holding the institutes follow:

**CENTRAL CIRCUIT—Cummings, Jan. 18;**  
Westmore, Jan. 20-21; Vermillion, Jan. 22;  
George O. Greene and Mary L. Simmons,  
speakers.  
**SOUTHEAST CIRCUIT—Hepler, Jan. 18;**  
P. E. Crabtree, speaker. Pleasanton, Jan.  
20-21; Cadmus, Jan. 22, P. E. Crabtree and  
A. R. Losh, speakers.  
**WESTERN CIRCUIT—Nicomemus, Jan. 18;**  
Hill City, Jan. 20-21. W. A. Boys and  
Miss Florence Smith, speakers.  
**SOUTH CENTRAL CIRCUIT—Moline,**  
Jan. 20; Burden, Jan. 21; Grenola, Jan. 22;  
Cedarvale, Jan. 23; Arkansas City, Jan.  
24-25; Douglass, Jan. 27; Augusta, Jan. 28.  
A. S. Neale and Miss Frances L. Brown,  
speakers.  
**SOUTHEASTERN CIRCUIT—Galesburg,**  
Jan. 18. A. R. Losh and C. D. Steiner, speak-  
ers. Chetopa, Jan. 20; Edna, Jan. 21; Oswego,  
Jan. 22; Baxter Springs, Jan. 23; Galena,  
Jan. 24; West Mineral, Jan. 25; Arcadia,  
Jan. 27; Farlington, Jan. 28. H. B. Walker  
and C. D. Steiner, speakers.  
**EAST CENTRAL CIRCUIT—Florence,**  
Jan. 18; Burns, Jan. 20; Leon, Jan. 21;  
Wichita, Jan. 22-23; Mt. Hope, Jan. 24;  
Halstead, Jan. 25; Moundridge, Jan. 27;  
Canton, Jan. 28; Tampa, Jan. 29. Dr.  
Wilbur McCampbell and Harry Umberger,  
speakers.  
**NORTHERN CIRCUIT—Republic, Jan. 27;**  
Webber, Jan. 28; Formoso, Jan. 29; Burr  
Oak, Jan. 30; Ionia, Jan. 31; Jewell City,  
Feb. 1. J. H. Miller and Fred R. Hesser,  
speakers.

**NORTHEASTERN CIRCUIT—Hoyt, Jan. 28;**  
Omaha, Jan. 29; Westmoreland, Jan.  
30-31; Fostoria, Feb. 1. W. S. Gearhart and  
Dr. Tanquary.

**Fike Lowers His Wheat Acreage**

J. N. Fike of Colby, Thomas county, "the wheat king of Kansas," has cut down his wheat acreage this year to about 2,000 acres. For several years he has been putting out about 10,000 acres. He hasn't happened to hit a big year and make a "killing" but he has done fairly well. Help has been scarce in the northwest the last two or three years and Mr. Fike says he doesn't know what he would have done with the crop if he had had a big yield last year.

"I put in about 2,000 acres of wheat last fall," he said, "and in the spring I intend to put in some corn and barley. I haven't done that before. Barley makes a good crop in my country and it takes the place of corn to some extent if the corn crop is light. I am raising some hogs and cattle, too."

**A Vise From an Old Cider Press.**

Mr. Editor—A handy and useful vise can be made from an old cider press. Select two good pieces of oak, 2 by 6 by 3 feet and have the blacksmith make two plates to bolt on the inside ends for

jaws. Set the crosspiece from the press, through which the screw passes, inside the bench so that the circle of the screw will be level with the top of the bench and place the jaws so they will be 3 inches higher than the bench.

F. S. McCormick.

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## Spread the Straw on the Soil

BY C. C. CLINE.

[Written for Farmers Mail and Breeze.]

Western soils are rich in mineral elements. Wherever they lack in fertility it is due to lack of humus, which is merely another name for decaying vegetable matter. This is why green manuring is being advocated as well as the use of barnyard manure.

Humus is as necessary to the soil as blood to the body. A soil may be rich in mineral elements and still be unable to produce a profitable crop. Humus helps to make the soil food available to growing crops. The straw which our fathers used to burn, and which many farmers continue to consign to the flames, if spread evenly over the land will add greatly to the humus in the soil. It will do more than that. In dry weather the moisture passes upward by capillary movement. If some non-capillary body is placed in the soil this evaporation is checked. This non-capillary body must be a mulch of straw or manure. The straw should be spread evenly over the surface to obtain the best results and make the land uniformly rich in humus supply.

Straw spread evenly over the fields performs still another valuable service by checking the direct rays of the sun, thereby reducing surface evaporation and indirectly increasing capillary action in the lower or subsoil, enabling it to bring up more moisture from below. It also prevents soil blowing to a great extent.

Many farmers have already seen the need for utilizing their wheat straw. Only recently a straw spreader has been perfected to aid the scattering of straw at low cost. This machine is of entirely different construction from the manure spreader, and those who have used it speak well of it. I have information that the following persons are using such a spreader successfully: G. H. Mitchell, Sterling, Kan.; F. R. Westofer, Hudson, Kan.; George Knop, Ellinwood, Kan.; William Knop, Preston, Kan.; Harry Gould, Offerle, Kan.; J. C. McCandless, St. John, Kan.; and J. D. Kimberley, Haviland, Kan.

It is certain that if a practical machine can be obtained, a large number of farmers can utilize it to advantage not only in getting humus back to the soil, but for doing away with much of the soil-blowing on new seeding and young wheat. For this use alone a practical straw spreader would be of great utility in western Kansas and Nebraska.

## A Sorghum Primer by Leidigh

"A Sorghum Primer," is the title of an instructive pamphlet recently published by the Kansas Agricultural college. It is written by A. H. Leidigh of the agronomy department and was prepared particularly for use in rural and village schools. A copy is being mailed to every Kansas teacher and school officers are urged to have the bulletin studied in the schools. Copies will also be sent to all farmers' institute members. Plain, understandable, farm language is used in the bulletin and scientific and technical terms left out.

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I have the best, the kind you are looking for. I have won 6 firsts at the State Corn Show, 4 firsts on Yellow Dent, Sweepstakes three times. If you want good corn, tested, corn with a reputation back of it, send for my catalogue today.

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I have just made one of the largest dictionary purchases ever shipped into the West—two entire car loads. I got them for a price away below the usual wholesale rate—a price so low, in fact, that I can give these books free—as long as my supply lasts—to the readers of this paper. I will send one of these big value dictionaries free and prepaid to all who fill in the accompanying coupon remitting just \$2.00 to pay in advance for a 3 years' subscription (156 big numbers) to my well known farm weekly, "The Farmers Mail and Breeze."

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Dear Sir: I desire to accept your special offer and enclose herewith \$2.00, to pay for 3 years' subscription to Farmers Mail and Breeze, and you are to send me, prepaid, one leather-bound "Webster's Reliable Dictionary" as per your offer.

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Test at our expense, prove you make more money growing these seeds. "Galloway" always means "bargain" and "quality".

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Showing largest selection pure, genuine, unadulterated garden, flower and field seeds. Contains field articles by Prof. M. L. Bowman. This book is free—send now.

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Help to make better gardens. They reward planter's efforts with tasty vegetables and charming flowers. Work in the garden becomes a pleasure through results obtained with our selected strains.

**5 FINE VEGETABLES 10c**  
Their qualities are proven every year in our gardens. Beet, Corn, Lettuce, Radish, Melon, large packets of superb sorts, prepaid. Delivered at your door.

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Contains 130 pages, 300 pictures from photographs, colored plate and many helpful cultural directions. Offers quality seeds at fair prices. Write for your free copy today.

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Grows posts in four to eight years; telephone poles in six to twelve years; crop brings \$30.00 to \$50.00 per acre every year; one planting sufficient. Speciosa Catalpa is a hard wood that matures rapidly. Equal to oak or mahogany. For posts no wood has equal lasting qualities, not subject to dry rot, always firm. No split or season crack. Our

### Pure Catalpa Speciosa

grows tall and straight, makes big timber 80 feet high. Don't compare it with common Catalpa, a worthless scrub tree. A paying crop. **FREE BOOK!** Write for special book on Pure Speciosa Catalpa. Fully illustrated—FREE.

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Now ready. Larger than ever—right up to the minute. Contains information every farmer, gardener, and poultry raiser must have. Increase your profits—this book shows how. Costs you nothing. Write for your free copy today.

T. Lee Adams Seed Co. Dept. A Kansas City, Mo.

## ORCHARD & GARDEN

For the best letter each week, contributed to this page by a reader, we offer a year's subscription or extension of subscription to Farmers Mail and Breeze. We want your views and experiences. They will help others. Address contributions to Horticultural Editor Farmers Mail and Breeze.

Remember, rabbits like apple bark!

Pack vegetables that wither in moist sand.

If your potatoes are scabby get new seed for next year.

Pitted apples keep well but if they touch the earth it gives them a bad taste.

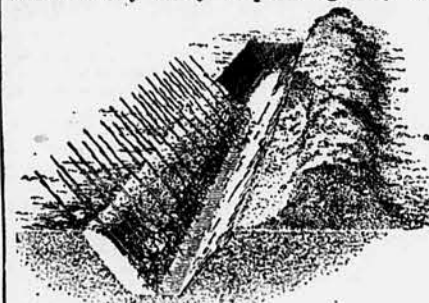
Orchard men are finding that fine fruit cannot be raised in the West without spraying.

If your garden is wet, run a line of tile down through the center and see how much better everything will grow.

The place for wood ashes is around the pear trees. Keep manure away from these trees or they will be apt to blight.

The Good of "Heeling In" Trees.

One of the first precautions taken by the successful tree planter is never to let the roots of a tree get dry in transplanting. When he takes a tree from the ground or unpacks it from a nursery shipment he immediately plunges the roots into a thin puddle of mud and if there is any delay in planting they are



### TRENCH FOR HEELING IN TREES.

heeled in until all is ready to set them out permanently. The most common mistake made in tree planting is in letting the trees remain out of the ground too long. Trees may be heeled in for a period of several weeks and sometimes this is extended from fall to spring. The trench should be on well drained ground and should run east and west. Pile the earth from the trench on the north side and slope the trees to the south in laying the root ends in the trench. First sift some fine earth in among the roots so there will be no open spaces between them, then cover well, leaving no depressions for water to collect about the roots.

### Why It Pays to Mulch Berries.

Mr. Editor—I know that parts of Kansas are well adapted to growing strawberries for I have seen immense crops grown there. I imagine that the nature of the soil does not make mulching as necessary in Kansas as our heavier clay soils do in Ohio, but winter protection is not the only object of mulching. A good, thick mulch will protect the berries from grit and also conserve the moisture at ripening time when it is often most needed.

Any coarse, strawy material, free from weed or grass seed makes good mulching material. We put it on when the ground is frozen hard, scattering it evenly over the plants from 4 to 6 inches thick. As soon as danger of freezing is over in the spring the mulch from directly over the plants is raked into the middle of the rows and left there. Usually I remove just enough of the mulch so I can see a few of the leaves of the plants. I have known growers to leave all the mulch on a few rows to retard ripening, thus prolonging the season. Between the rows the straw will hold the moisture, keep weed growth in check, and it makes a clean path for the pickers.

I know some Kansas farmers think growing strawberries a small business. They think the chances for big returns from farm crops are too good to fritter away time growing berries. Many people

will insist that it is cheaper to buy what few strawberries they want than to bother growing them. But as a rule, I have noticed they find it still cheaper to do without them entirely. Any farmer's family that has once grown an abundance of this finest of all small fruits will not again be content to do without.

E. P. Snyder.

Huron county, Ohio.

### Fruit Men are Waking Up.

At the state farmers' institute at Manhattan a beginning was made toward an organization of Kansas fruit growers that will co-operate with the Agricultural college in improving market conditions for such products. The fruit growers showed a lively interest and enthusiasm over the future of the industry in Kansas. The report of Mr. Greene of the college extension department illustrated the possibilities of the co-operative marketing. Although undertaken for the first time, last year, the extension department had 1,300 cars of apples listed last fall and could not supply the demand from buyers.

A busy program has been mapped out for 1913 by this department of the college. First will come the demonstration work in pruning, spraying, etc. Actual, practical work will be done in the orchards wherever help is desired. The schedule for this work is now being made up as requests for such assistance are already coming in. The college authorities ask that neighbors get together in communities and send in their applications as early as possible. George O. Greene, extension horticulturist at Manhattan, will be glad to answer inquiries in regard to this kind of work.

### WORLD'S GREATEST SEED CORN—"GRAND CHAMPION" WHITE. TWO POUNDS FREE TO EACH SUBSCRIBER.

I am going to give free to my subscribers a limited quantity of the world's purest and best seed corn—"Grand Champion" White—grown from the bushel which was awarded first prize at the Omaha Corn Exposition, Omaha, Nebraska, and for which I paid \$280.00 cash.

I gave some of this seed corn to Mr. H. V. Cochran, one of the most expert seed corn growers in America, and the seed which I offer here was grown from the prize bushel and you will find it the equal of the original bushel, which brought perhaps the highest price ever paid for a bushel of seed corn.

The corn is a large pure white, deep grain, matures in less than 100 days and is an extra heavy yielder.

I have had this "Grand Champion" corn put up in one-pound packages, all ready for mailing.

As long as my supply lasts I am going to give it away on these very attractive offers: Two pounds of corn and a year's subscription (new, renewal or extension) to Farmers Mail and Breeze—for \$1.00. I will also give you two additional pounds for each new yearly subscription you send me, other than your own, at the regular rate of \$1.00 a year.

You pay nothing for this corn—it is mailed to you, prepaid, as a free gift for your own or your neighbor's subscription to The Mail and Breeze at the regular rate—2 pounds with each yearly subscription.

I have only a very limited quantity and can secure no more at any price when this supply is gone. Send your subscription or renewal at once. If too late, I will notify you and return your money. Address,

Arthur Capper, Publisher Mail and Breeze, Topeka, Kansas.

**BUY AT WHOLESALE Forty Fruit Trees \$5.00**  
100 Strawberry plants 75 cents. Charges prepaid. Send for further information and Catalog. Address, HOLSINGER BROS., Box 79, Rosedale, Kans.

**REAL SNAPS IN NURSERY STOCK**  
50 Concord Grape Vines, \$1.  
12 Budded Cherry Trees, 2 to 3 ft., \$1.  
16 Apple Trees, assorted 2 to 3 ft., \$1.  
Free Catalogue and 25c Due Bill on request.  
Benson-Omaha Nursery, Benson, Neb., Dept. 5

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General line of nursery stock including apple, peach, pear, cherry, plum, apricot, quince, grape vines, berry plants, roses, shrubs, rhubarb, asparagus, etc., also black locust. Certificate of inspection with each shipment. OUR 1913 CATALOG GIVES VALUABLE INSTRUCTIONS how to plant and care for vines, shrubs, fruit and ornamental trees. Write or drop a postal today for this valuable catalog.

J. W. HINSHAW, Prop., Box A., EUREKA, KAN.

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TREES AND SEEDS THAT GROW AT IT OVER 28 YEARS

For twenty-seven years I've been selling "Seeds and Plants that Grow." I've been selling them direct—at rock bottom prices—no agents' commissions attached. My catalog has always been my only salesman. My

**Free 1913 Nursery and Seed Book**  
is now ready. Send for it. It's the result of 27 years' experience. Tells all kinds of trees and plants, farm, garden and flower seeds. Quotes lowest prices, no agents' commission to pay. Here are a few of the many bargains. Apples 80 cents; Cherry 14c each; Plum 10c each; Catalpa Speciosa seedlings 8-12 inch \$1.75 per 1000.

**SPECIAL 10c Offer**  
50 pht. Mixed Colors Petunias; 10c pht. Ex. Fine Mixed Pansies; 10c pht. Giant Single Pink; 5c pht. Finest Mixed Poppies. 50c worth for 10c, prepaid. Remember my seeds are all German Standard. I pay freight on \$10.00 free orders. Send for catalog, see my prices. A postal brings it. German Nurseries & Seed House, Box 153 Beatrice, Neb.

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**Feeds Stock and Land Best of All**

As a fertilizer of wornout or sandy soil, Sweet Clover is absolutely unequalled. Don't take all the goodness out of the land without putting anything back. Sow Sweet Clover on the Sand Hills of Colorado and Nebraska and get a bumper crop.

Cattle pastured on Sweet Clover will fatten as if fed on specially prepared food. Sown in the orchard between trees it loosens the soil and promotes growth. Ploughed under, Sweet Clover will increase your crops from 50 to 100 per cent.

Write for prices on Sweet Clover, Alfalfa and Sand Vetch.

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Prices Below All Others

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

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

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## TREES

**That Thrive and Pay from the Grower to the Planter AT WHOLESALE PRICES**

**1913 Illustrated Fruit Book** full of things you ought to know. It's FREE. Drop a card for it today.

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FOR 25c., no stamps, to pay packing and postage, we will send you 25 everbearing **pedigreed strawberry plants** and 2 **hardy monthly roses** your selection. Everbearing strawberries bear delicious ripe fruit from May till frost.

Order Today, Banner Nursery Co., St. Louis, Mo.

### Fruit Growers Manual Free

Shows how to plant and care for an orchard, when to spray, etc. Tells how to make \$400 per acre from cherries—\$300 from berries—\$350 from grapes and \$200 from apples. I have no agents. Apple trees 8c—Cherry 12c—Grape Vines \$2 per 100. Forest Seedlings—Flowers—Bulbs—Seed Corn. I guarantee better trees for less money. Your money back if not satisfied. Prepaid.

Get this free manual today.

D. HANSEN, The Nurseryman,  
Box 12 Established 1890 Fairbury, Neb.

## APPLE, PEACH TREES AND CHERRY TREES

Fruit and Ornamental Trees, Plants, Shrubs, Vines, Catalpa Speciosa Etc. Est. 1879. Freight paid on \$10 orders. Write for prices. **FRUIT BOOK FREE.**

**WELLINGTON NURSERIES**  
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Best Grown. 10 Varieties, Burbank's Floral Gems, 10 sorts Spencer Sweet Peas and 6 Fairy Roses (seeds) all for 10c. 5 packets vegetable seeds 10c. Catalog and pht. Giant Pansters free. A. C. Anderson, Box 33, Columbus, Neb.

## SWEET CLOVER

The new pasture and forage clover. Equal to alfalfa in productiveness. Sample seed and circular giving directions for growing mailed free on request. Also copy of our large illustrated catalogue of Farm and Garden Seeds. Ask for it.

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**ROYAL**  
**QUALITY**  
**SEEDS**  
**OF YOUR**  
**DEALER**

Our New 1913 Seed Catalog is Now Ready for You. It's a better book and lists better Seeds of every variety for the Farmer, Gardener and Flower Grower. Field and Grass Seed a Specialty. Seed buyers say Royal Quality Seeds mean bumper crops of royal quality, yields that bring more money. Royal Quality Chick and Hen Feeds—so good the demand is growing at a remarkably rapid rate. Get OUR Seed Book before you buy—select Royal Seeds and buy them of your dealer; if he does not sell Royal Seeds and Feeds, write us. Enclose 10cts, stamps or coin, and your dealer's name, and we will mail you a full size package of our Royal Special Peas—the New Pea—the Best of all Peas—a most prolific yielder, early, sweet, meaty—a present you will appreciate. Write today for the Book and your Package of Peas.

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**Currie's Seeds**  
Tested  
yield liberal crops under normal conditions. They are tested for vitality and purity before being sold. For nearly 40 years we have supplied "worth-while" seeds.

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to become acquainted. One packet each of Giant Mixed Peas, Finest Mixed Sweet Peas, Prize Head Lettuce and Twenty-Day Radish. Each collection comes in a "coupon" envelope worth 25c with future orders. A total 46c value, POSTPAID FOR ONLY **10c**

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List all that is good in vegetable, field and flower seeds, bulbs, plants, etc. Fully illustrated. Copy free on request. Secure yours today.

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The sower has no second chance. A good beginning is the only safe rule; put your faith in the best seeds you can buy. Ferry's have had the highest reputation for over 50 years. For sale everywhere.

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Fresh, Reliable, Pure  
Guaranteed to Please  
Every Gardener and Planter should test the superior merits of Our Northern Grown Seeds.

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

1 pkg. 60 Day Tomato	20c
1 pkg. Princess Radish	10c
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1 pkg. Fallerton Market Lettuce	10c
Also 12 Varieties Choice Flower Seeds	85c
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Write today! Send 10 cents to help pay postage and packing and receive the above "Famous Collection," together with our New and Instructive Garden Guide.

**GREAT NORTHERN SEED CO.**  
267 Rose St. Rockford, Illinois

**GROW GRAPES**  
It's easy and the arbors bear many years. Fruit sells well everywhere. Is wholesome and delicious. Never enough on market to supply the demand.

**Strong Concord**  
**3 Grape Vines Prepaid 10c**

Yield quantities of luscious fruit. Best general purpose variety, hardy, healthy and dependable cropper. Try these vines! The biggest plant bargain of the season.

**INTERESTING CATALOGUE FREE**  
Honest descriptions and illustrations make it a safe guide to good nursery stock. Learn all about our plants and methods. Send for book today!

**NATIONAL NURSERIES**  
DEPT. 8 LAWRENCE, KAN.

**NURSERY SNAPS**  
50 Concord Grapes, \$1  
10 Budded Cherrys, \$1  
Hardy, vigorous stock is guaranteed. We quote all nursery goods at right prices—our reputation is based on shipping only thrifty stock. Send for 25c Due Bill and Catalog, Free

**Fairbury Nurseries**  
Box J FAIRBURY, NEB.

**FOSTER'S FORECASTS**

(Copyright 1912 by W. T. Foster.)

To Farmers Mail and Breeze:

Washington, D. C., Jan. 18.—Last bulletin gave forecasts of disturbance to cross continent Jan. 19 to 23, warm wave 18 to 22, cool wave 21 to 25. This will be a radical disturbance from Pacific to the Atlantic but is not expected to be so destructive as were the storms of first week of this month. In bulletin of Dec. 21 warning was given of the severe storms and blizzards to occur first part of January and no one was so well prepared for them as were those who read those bulletins.

Next disturbance will reach Pacific coast about Jan. 24, cross Pacific slope by close of 25, great central valleys 26 to 28, eastern sections 29. Warm wave will cross Pacific slope about Jan. 24, great central valleys 26, eastern sections 28. Cool wave will cross Pacific slope about Jan. 27, great central valleys 29, eastern sections 31.

On the Pacific ocean and the Pacific slope this disturbance will be of more than usual force but not very dangerous. It will become more mild as it progresses eastward and in eastern sections will be only a moderate storm. Most rain or snow will fall east of meridian 85 as this disturbance moves eastward.

February promises most precipitation from vicinity of New Orleans to vicinity of Galveston and Houston, within 150 miles of Kansas City, on Carolina coast and in eastern sections about and north of Washington, D. C. Elsewhere the precipitation will be from about to much below the usual February average which we call the normal. March will be warmer than usual and precipitation very much the same as in February. The February thaw is expected 6 to 19 followed by a freeze.

**Capper Folks' Annual Party**

(From the Ottawa Guardian.)

Last Saturday night the 800 employees of the Capper publications enjoyed the sixth annual banquet given them by their "big Boss", Arthur Capper. It was a most magnificent affair. The Guardian editor and wife were present and enjoyed the party immensely. Capper is a great man—we are proud of him. It was the Guardian editor who stood him up on a box and gave him his first lesson in the art of all arts, and told him that some day he would be the governor of Kansas. Had he received a square deal last November he would have been inducted into the governor's office the 13th day of this month, instead of George Hodges, the Democrat. Yet there is plenty of time. Mr. Capper is a young man of energy and push; he and his many publications stand for bigger and better things for all; he's progressive for the people and the people know it.

**Arthur Capper Was Elected**

(From the Alma Enterprise.)

Arthur Capper gained 8 votes for governor on the ballots counted in this county in the assessors' contest. He gained 9 in Coffey county in a minor contest; he gained 48 in Leavenworth county; 30 in Franklin county, and about 25 in Brown county. There is no question that with a proper count he was elected governor by a comfortable majority. Still, any good coming from a possible contest is doubtful. If Mr. Capper should be inaugurated governor his hands would be absolutely tied by a hostile legislature and his inability to accomplish anything would be charged as a failure to do things. There would be no satisfaction in it for Mr. Capper, and he is the kind of a citizen who does not need the honor.

No one grain will keep chickens or fowls in good condition. If they cannot obtain a variety by foraging it must come from the farmer's bins.—S. T. O., Platte City, Mo.

Vegetables are great for the hens, especially when they can't get green feed in the fields.

**STARK TREES** — Best For Over 100 Years

Four generations of fruit tree growing experience, boiled down, is ready for you absolutely free of charge. Don't experiment with fruit trees of unknown productiveness, uncertain quality. Stark Trees always pay big. The secret is in Stark Brothers' perfect method of growing, transplanting, packing and shipping.

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Why don't you take advantage of our Special Service Department? All Advice Free to You. We send you free the best scientific methods of preparing your soil for biggest profits; show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. We make your orchard a winner and a big money maker. Write us at once for Stark Year Book, complete fruit tree literature and statistics. Write today.

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**GRAND CHAMPION BUSHEL OF CORN**  
AT THE NATIONAL CORN EXPOSITION, OMAHA, DEC. 1909. BOUGHT BY ARTHUR CAPPER FOR \$280.00 AND BROUGHT TO KANSAS

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**Grow Record-Breaking Crops From the World's Purest and Finest Seed Corn**

**"Grand Champion" White** Grown from Grand Prize Bushel for Which I Paid \$280.00

Two Pounds

**FREE****To Each Subscriber**

I am reproducing here a photograph of the world's best bushel of Seed Corn—the bushel which was awarded first prize at the National Corn Exposition, Omaha, Nebraska, and which I purchased for \$280.00 cash.

I gave some of this seed corn to Mr. H. V. Cochran, one of the most expert seed corn growers in America, and the seed which I offer here was grown from the prize bushel and you will find it the equal of the original bushel, which brought perhaps the highest price ever paid for a bushel of seed corn.

The corn is a large pure white, deep grain, matures in less than 100 days and is an extra heavy yielder.

I believe this to be the greatest opportunity ever presented for the readers of my paper to make a record increase in the quality and yield of future corn crops.

The way to improve the corn crop is by the use of high-bred seed—and here is seed which I believe cannot be equaled by any other, no matter what the price. A few pounds of this seed should bring enough fine quality seed to plant your entire acreage next year.

**Here Is My Great Offer To MAIL AND BREEZE READERS**

I have had this "Grand Champion" corn put up in one pound packages all ready for mailing. As long as my supply lasts I am going to give it away on these very attractive offers:

Two pounds of corn and a year's subscription (new, renewal, or extension) to **Farmers Mail and Breeze**—for \$1.00. I will also give you two additional pounds

for each new yearly subscription you send me other than your own at the regular rate of \$1.00 a year.

You pay nothing for this corn—it is mailed to you, postpaid, as a free gift for your own or your neighbor's subscription to **The Mail and Breeze** at the regular rate—2 pounds with each yearly subscription.

**BE QUICK! No Time to Lose!! When My Small Supply Is Gone No More Can Be Had at Any Price!**

You've no time to lose if you want to be sure of getting your share of this World's greatest seed corn! I have only a very limited quantity and can secure no more at any price when this supply is gone. Send your subscription or renewal at once. If too late, I will notify you and return money. Fill out and mail coupon at once. You can't afford to lose out on this greatest seed corn offer. Address

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I enclose \$1.00 for which send Mail and Breeze one year, also send me free and prepaid Two Pounds of your "Grand Champion" White Seed Corn as per offer.

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## CROPS and FARM WORK

**Snow on Wheat Fields Has Drifted Badly and Failed to Provide Sufficient Moisture—Rain in Oklahoma—Wheat Grazing at an End—Stock in Fine Winter Condition With Plenty of Feed at Hand**

(Crop Reporting Service of Farmers Mail and Breeze.)

The snow of last week came in good time to benefit wheat but the inevitable drifting spoiled much of the good effects. It would otherwise have had. Rain followed the snow in parts of Oklahoma but did not reach Kansas to any great extent. Grazing stock on wheat fields is a thing of the past for the time being. Early sown fields had made excellent fall pasture but to partially offset this advantage, reports are coming in of large numbers of Hessian flies in these sowings and some apprehension is being felt over what the pest may do to the crop in the spring months. The weather for the rest of the winter will decide the outcome. Eastern Kansas seems to be infested with the fly to a greater extent than other portions of Mail and Breeze territory.

The cold wave and storms found farmers and feeders prepared this time. It would take an unusually severe and late winter to bring about a feed scarcity and there is not much worrying on the part of stockmen over the feed question at this time. It has been a fine season for stock all around. Losses from cornstalk disease have been comparatively small and hog cholera was far less prevalent than in recent years. Good results from vaccination for cholera are reported by A. G. Craighead of Grant county, Oklahoma. Although the disease is checked vaccination is being continued and there have been no failures, says Mr. Craighead, where proper care was given after treatment.

### KANSAS.

**Lincoln County**—About 3 inches of snow the first of week which will help wheat. Not much of a fight being made on chinch bugs. Stock in good shape with plenty of roughness on hand.—C. T. Baker, Jan. 11.

**Finney County**—Winter weather since Jan. 5 with snow and considerable wind. Not much doing except feeding and caring for stock. Butter plentiful at 25 cents, eggs 25.—F. S. Coen, Jan. 10.

**Nemaha County**—Winter weather brought about 3 inches of snow which was badly needed by wheat. Cholera continues in this county and hogs are getting very scarce. Hay 38, corn 40 cents.—C. W. Ridgway, Jan. 9.

**Jefferson County**—More like winter now with 6 inches of snow Jan. 5-6 and weather nearly down to zero. Farmers were generally prepared to meet the cold wave. Choring and caring for stock about all there is to do.—Z. C. Jones, Jan. 11.

**Johnson County**—Wheat looks pretty good. Unusually large acreage of fall plowing done. Had 5-inch snow early this week. Very little burning to kill bugs has been done. Few silos in use here. All stock wintering well.—L. E. Douglas, Jan. 11.

**Marshall County**—Nearly all wheat covered with about 1 inch of snow. The crop looked good before the snow. Change of weather hard on stock. Not as many hogs as last year. Hogs \$6.75, corn 42 cents, oats 29, potatoes 75, cream 31, eggs 20.—F. G. Stettinisch, Jan. 9.

**Morton County**—Had a 2½-inch snow Jan. 5 and 6. Many Russian thistles have been burned but not on account of chinch bugs. No visible appearance of bugs here in years. Stock doing well. Hogs high and scarce. Dressed hogs selling at 10 cents.—Mrs. Margaret McGee, Jan. 10.

**Clark County**—The light snow will be of some benefit to wheat. Stock on feed and doing well. No reports of bugs or flies and no effort made to exterminate any. No need of farm advisers here. Good steady rains are more needed to insure prosperity.—H. C. Jacobs, Jan. 7.

**Hodgeman County**—Good snow Jan. 6-7 and wheat is all right. Good deal of cane and Kafir threshing still to do. Stock in fine condition with plenty of feed and grain. No bugs burned out but may be tried later. Russian thistles piled high everywhere.—No sick hogs.—E. N. Myler, Jan. 7.

**Elk County**—About 2 inches of snow Jan. 6 with some rain and sleet since. Plowing had been done on afternoons until Jan. 4. The severe weather has caused a shrinkage in milk flow. Uppland farmers are learning more of value of cowpea hay. Cream 30 cents, butter 22 to 25, eggs 18.—O. A. Kellogg, Jan. 11.

**Harvey County**—About 4½ inches of snow the first of the week was good on wheat. Mercury reached 20 below on Wednesday morning. Stock doing fairly well. Not much hog cholera at present. Some grass along lanes and headlands burned to kill out chinch bugs. Wheat 76 cents, corn 40 to 45, potatoes 80, apples \$1 to \$1.50, hogs \$8.75.—H. W. Prouty, Jan. 10.

**Lyon County**—About 4 inches of snow Jan. 6-7 which is good for wheat and will kill grasshoppers and bugs. Some farmers have burned grass where bugs could hide. Shock corn has been too dry to husk be-

fore the snow came. Most farmers had done some plowing before New Year. Corn 47 cents, Kafir 35 to 40 eggs 20, butter 25 to 30.—E. R. Griffith, Jan. 11.

**Logan County**—Not enough snow to do any good and ground is very dry. Coldest weather so far was 11 below. Stock doing fine with plenty of feed. No disease. No feed selling. Cane threshing about over. Have been over county and would like to know where wheat and corn were raised credited to this county. Eggs 20 cents, butter fat 32.—A. O. Brooking, Jan. 10.

**Rush County**—A 5-inch snow Jan. 5-6 drifted badly. All stock taken off wheat pasture. Early sown wheat holding its own. Not many bugs in this county and not much burning done. Stock of all kinds doing exceptionally well and free from disease. Newspaper report of horse epidemic is a fake. Farmers are talking silos and up-to-date barns.—J. F. Smith, Jan. 11.

**Mitchell County**—Weather cold and about 5 inches of snow on ground. Thermometer registered 25 below or coldest morning this week. Wheat in good condition. All stock doing well but some horses and cattle have been lost on stalk fields. Not much burning done to kill bugs as farmers do not have much faith in it. Corn 40 cents, wheat 74.—J. H. DePoy, Jan. 11.

**Atchison County**—Farmers were well prepared for 3-inch snow and zero weather and no much stock suffered. Wholesale slaughter of rabbits in progress since snow. Farmers in this county show very little interest in burning out chinch bugs. Public sales scarce. Stock of all kinds doing well but few for sale. Farmers look for considerable raise in hog prices before spring.—C. H. Feerer, Jan. 10.

**Rice County**—Some corn still to husk. Final yields disappointing. Wheat looked good up to middle of December when it began showing effects of dry weather. All stock in good shape for winter weather which has come at last. Hogs scarce. Usual number of cattle died on cornstalks. Good many horses also died with blind staggers and other troubles.—Henry S. Wilson, Jan. 6.

**Gray County**—Weather the past week has been quite wintry but most farmers were prepared for it. Stock well sheltered generally and feed is plentiful. Most Kafir and cane threshed and corn shelled or cribbed. Snow only about 3 inches deep which did not help wheat much. Corn and Kafir 30 to 35 cents, wheat 67, butter fat 31, eggs 20.—A. B. Alexander, Jan. 11.

**Republic County**—Winter was late in coming but is making up for lost time. Had it 20 below Jan. 8. About 4 inches of snow fell but drifted badly and will not help wheat much. Many farmers have lost horses on cornstalks. A few sales being held and milk cows seem to be most in demand, selling at \$40 to \$80. Corn 40 cents, wheat 74, cream 31.—E. Erickson, Jan. 11.

**Barton County**—Had about 6 inches of snow Jan. 6 and 7 but was not of much

benefit to wheat as it drifted so badly. Wheat is still in need of moisture. Plowed fields are very loose and are going to blow badly unless we have plenty of moisture. Not much burning being done to get rid of chinch bugs. Stock doing well. Wheat 74 cents, corn 45, butter fat 29, eggs 22, hogs \$6.75.—O. M. Lewis, Jan. 10.

**Stanton County**—Some snow and cold weather but until this week we have had fine winter weather. Stock doing pretty well on range yet but some feed being used. No corn for sale. Potatoes \$1.50 per 100 lbs., eggs 15, butter 25.—G. S. Greger, Jan. 11.

### OKLAHOMA.

**Lincoln County**—Fine rains and some winter weather. Good prospects for a good crop year in 1913. Butchering is the order of the day. Stock hogs high and scarce. Milk cows sell high at sales.—J. B. Pomeroy, Jan. 11.

**Kingfisher County**—First real winter weather Jan. 5 and brought an inch of snow. Wheat needing more moisture. Good deal of fall and winter plowing done. Stock doing well and those feeding silage well satisfied with it.—H. A. Reynolds, Jan. 10.

**Lincoln County**—Fine winter weather. Cotton nearly all picked. Stock doing well on stalk fields. Plowing under way but a rain would be acceptable. Miss Esta Beaman of this county raised 95 bushels and 20 pounds of corn on an acre and won \$200 in gold.—J. B. Pomeroy, Jan. 4.

**Garvin County**—Weather warm and good for plowing until Jan. 3 when we had a cold wave lasting to the 8th. Had ¼ inch of snow and thermometer was 5 below. Stock has shrunk somewhat. Prices for farm stock have declined except work teams. Plenty of hay and Kafir.—H. H. Roller, Jan. 11.

**Comanche County**—Very little plowing done so far. Ground too wet at present. Many farmers are burning out chinch bugs. Cotton about all picked. Kafir threshing in progress and is making 20 to 25 bushels per acre. Feed of all kinds plentiful and stock sells high.—Fred E. Wiersig, Jan. 10.

**Caddo County**—Three days of extremely cold weather last week and 1 inch of snow. Wheat looks well but hasn't made much growth on account of dry weather. Corn all gathered. All stock selling high at sales. Stock hogs bringing unheard of prices. Corn 40 cents, Kafir 32, baled hay \$7.—L. Reddington, Jan. 10.

**Kiowa County**—Gov. Cruce issued a "chinch bug" proclamation but cannot say how it was carried out. Cold, windy weather today with sleet and snow. Renters are moving this week as usual as all changes are made in January here. Farmers anticipate another cold winter and are preparing for it.—Mrs. Alice Henderson, Jan. 11.

**Washington County**—First reminder of winter this past week. Light snow was followed by good rain which will benefit wheat. Ground was pretty dry. No organized fight being made on bugs yet. Large amount of plowing was done during the fine fall weather. Stock doing fine with no reports of stalk poisoning. Wheat 70 cents, corn 50, oats 40, eggs 30, hay \$10.—J. M. Brubaker, Jan. 11.

**Grant County**—Light snow Jan. 7 which is still on in spots. Spring crop land nearly all plowed and roadsides burned. All stock doing well as wheat pasture has been good and forage plentiful. Hog cholera nearly stopped but many are still vaccinating. Vaccination has not failed where proper care was given after treatment. Many sales and stock sells well. Alfalfa hay \$10 to \$12, hogs \$6.60, corn 45 cents, Kafir 40.—A. C. Craighead, Jan. 11.

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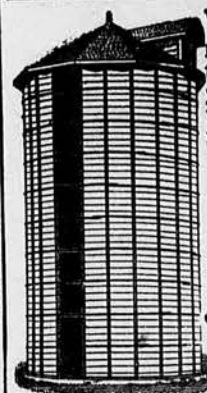


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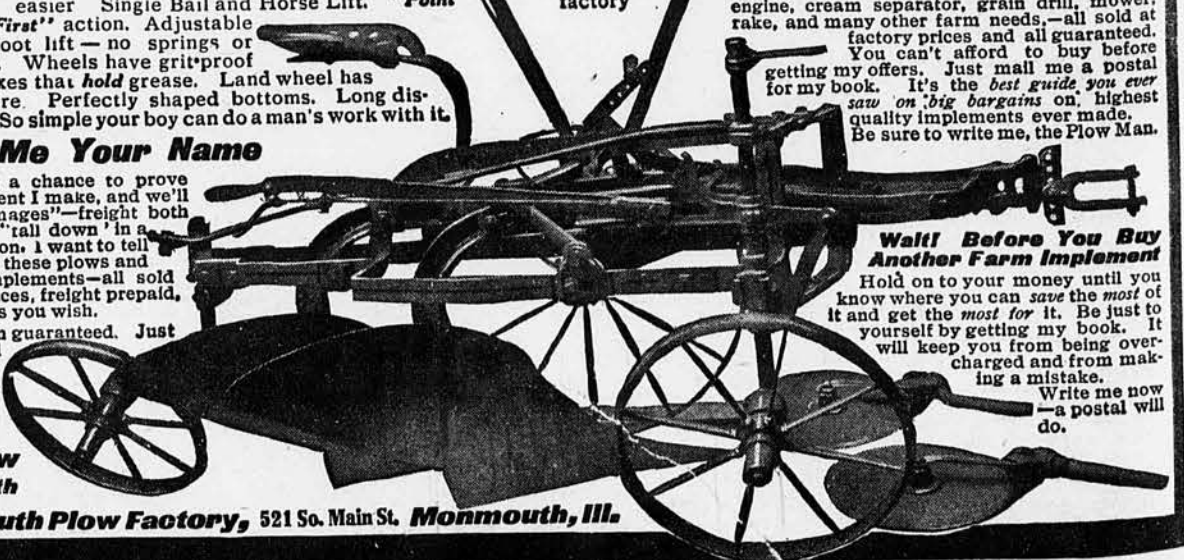
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**SILVER WYANDOTTE** cockerels \$1.00 to \$2.50 each. Any bird may be returned if not as represented. H. A. Dressler, Lebo, Kan.

**FOR SALE**—Pure bred White Wyandotte cockerels \$1.00 each. Pullets \$10.00 doz. Mrs. John Pantle, Wichita, Kan., Route 8.

**GOLDEN WYANDOTTES**—Winners at Dalhart, Texas, Liberal and Pratt, Kansas. Cockerels for sale. F. O. Rindom, Liberal, Kan.

**WHITE** Rose Combed Wyandotte chickens for sale. These are good ones from the Berry strain. Write for prices. Mrs. I. N. Chilcott, Mankato, Kan.

**FOR SALE**—S. C. W. Leghorns and White Orpingtons. Bred for eggs. Satisfaction or no sale. Eggs for hatching in season. Chas. S. Bordner, Circleville, Kan.

**BUFF WYANDOTTES**—Breeding stock in season. A splendid lot of youngsters coming on. The best bargains to those who buy early. Wheeler & Wylie, Manhattan, Kan.

**DUCKS.**

**ENGLISH PENCILED** Indian Runners. White egg strain; \$1.50 each, \$4 trio. Toulouse geese, weight 20 lbs., \$3.50, pr. \$6.50. Frank Fisher, Wilson, Kan.

**Reliable Poultry Breeders****DUCKS.**

**INDIAN RUNNERS.** Some very nice drakes \$1.00 to \$2.00 each. Effie Hill, Achilles, Kan.

**GERTRUDE GEER'S** Gold Nugget strain Buff Orpingtons. Cockerels and pullets. Winfield, Kan.

**INDIAN RUNNER** ducks. Topeka fair winners. Satisfaction guaranteed. Burt White, Burlingame, Kan.

**THOROUGHbred** Fawn and White Indian Runner drakes \$1.25 each. Mrs. Clifford Hutchinson, Wetmore, Kan.

**INDIAN RUNNERS**—American Standard—White egg strain. Drakes at reduced price. No ducks. Going to move; must close out quick. R. J. Shirk, Ramona, Kan.

**LANGSHANS.**

**BLACK AND WHITE LANGSHANS,** beauties, either sex, \$1. M. Lewis, Virgil, Kan.

**PURE BRED** White Langshan cockerels \$1.00 and up. Wm. Wischmeier, Mayetta, Kan.

**BLACK LANGSHAN** cockerels, one to three dollars each. Mary McCaul, Elk City, Kan.

**PURE BRED** White Langshans, hens, pullets, cockerels, eggs. Mrs. Geo. McLain, Lane, Kan.

**BLACK LANGSHANS.** Some good cockerels for sale. Mrs. J. B. Stein, Smith Center, Kan.

**BLACK LANGSHANS**—50 choice chks. and 50 hens for sale at bargain prices. H. M. Palmer, Florence, Kan.

**GOLD MEDAL** Black Langshans. Winners in the best shows. Stock for sale. Mrs. Melvin Gregg, Stanberry, Mo., Route 7.

**SEVERAL VARIETIES.**

**ANCONA** cockerels for sale. Ed Blocker, Seneca, Kan., R. No. 2.

**COCKERELS** \$2.50 to \$5.00. Pullets \$2.00. Housel, Smith Center, Kan.

**ROSE COMB BLACK MINORCA** cockerels. \$1.50 each. Roy Walters, Frizell, Kan.

**ROSE COMB REDS,** Silver Laced Wyandottes \$1.00. Mrs. Ola Elliott, Delphos, Kan.

**LIGHT BRAHMAS,** cocks, cockerels, eggs. Write your wants. Orville King, Bucklin, Kan.

**BEAUTIFUL** Spangled Hamburgs, White Leghorns, both combs. Stella Snider, Piedmont, Kan.

**LARGE, brilliant.** Rose Comb Red cockerels from scored stock \$1.50 to \$2.00. Mrs. G. C. Talbot, R. 4, Onaga, Kan.

**ROSE COMB** Silver Spangled Hamburg cockerels and pullets. J. L. Carmean, Neosho Falls, Kan.

**CHOICE** Single Comb Brown Leghorn and Buff Orpington chks. and hens \$1 to \$5. Mrs. Mattie Story, Cleo, Okla.

**SINGLE COMB BROWN LEGHORNS,** Bronze turkeys. Satisfaction guaranteed. Chas. Lorenz, Hitchcock, Okla.

**INDIAN RUNNER** drakes, Barred Rock and White Cochins Bantam cockerels. Eggs in season. Harry E. Duncan, Humboldt, Kan.

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

**INDIAN RUNNER** ducks. American Standard. Also S. C. W. Leghorn cockerels. For particulars address Geo. E. Martin, Sharon, Kan.

**LIGHT BRAHMAS.** White Wyandottes. Reds, both combs. Bronze and Bourbon turkeys. Stock and eggs. Emma Ahlstedt, Roxbury, Kan.

**BARRED ROCKS,** White Leghorns, Pekin ducks, Embden geese, Bronze turkeys. The great utility birds and all of them. Mrs. John Steele & Son, Chillicothe, Mo.

**SUNNY DELL FARM** Bourbon Red toms \$4.00, hens \$3.00. Single Comb R. I. Red cockerels \$1.00. Extra fine stock. Satisfaction guaranteed. Mrs. T. I. Wooddall, Fall River, Kan.

**FINE LEGHORN** cockerels and young Bronze toms. Also White Orpington cockerels. Leghorns \$1.00. Orpingtons \$2.00. Toms \$5.00. Bred to lay. August Armbruster, Route No. 3, Salina, Kan.

**BARRED ROCK COCKERELS**

Hatched from prize winners and special mated pens. Large, vigorous fellows, splendid markings. Prices \$2 up. Describe wants. C. C. Lindamood, Walton, Harvey Co., Kan.

**TURKEY BARGAINS**

500 M. Bronze, 300 White Holland, 200 Bourbon Red, also several thousand cockerels of Standard Poultry. Write for descriptive circular and prices. Address W. F. HOLCOMB, Mgr., Nebraska Poultry Co., Clay Center, Nebraska.

**An Error Corrected.**

Mr. Editor—I wish to thank you for granting my letter on turkey raising a prize. But I want to correct an error made in publishing the letter. Instead of 73 turkeys bringing \$101.12 it should have read 46 turkeys. W. F. Billings, Alton, Kan.





## Poultry Keeping

CONDUCTED FOR FARMERS MAIL AND BREEZE BY REESE V. HICKS, PREST. AMERICAN POULTRY ASSOCIATION.

We want you to talk chicken with us. Good short letters on poultry matters especially welcome. A year's subscription to Farmers Mail and Breeze is awarded each week for the most helpful bit of poultry experience, and for second and third best contributions subscriptions to other useful publications.

The fancy poultry business pays well, but good judgment must be exercised.

Charcoal is one of the greatest health producers.

A flock built up by natural selection will show double profits.

In whitewash for chicken houses, we add salt, buttermilk, a few drops of carbolic acid and a little bluing. Apply it with a paint brush.—F. Melton, Lawton, Okla.

Even if it is winter, don't fail to burn the material in the nest boxes. Whitewash them, place several thicknesses of paper saturated with coal oil, in the bottom and fill with hay or straw.—F. M.

It seldom pays to doctor a sick chicken, but it does pay to use the most improved methods to prevent disease.

When hens lay soft-shelled eggs it is often a sign they are too fat. Cut down the amount of grain and feed more vegetables and green food.

Alfalfa makes an excellent food for winter. Chopped up with hot water poured over it the hens will eat it readily.

Makes a Specialty of Broilers.  
[Prize Letter.]

Mr. Editor—I have been in the chicken business for 10 years and am now using seven incubators, all different

### The Farmers Mail and Breeze Poultry Special Will Be the Issue of Feb. 1

It is the greatest issue of its kind in the country, and this time it will be finer than ever. It comes right at the opening of the 1913 poultry season, the season marked by the establishment of the Poultry Experiment Farm conducted by Farmers Mail and Breeze. This work will make Kansas a greater poultry state than it has ever been, and will make Farmers Mail and Breeze a better medium for advertising poultry than it has ever been.

#### Some Recent Letters:

I have received better results from Farmers Mail and Breeze than from any other paper.—Herbert Rowland, Hanover, Kan., Oct. 10, 1912.

From an advertisement in Farmers Mail and Breeze for purebred Rose Comb White Leghorn eggs I got very satisfactory results. I sold eggs from my 200 hens as fast as I could get them, until the weather got entirely too warm to set eggs with good results.—Jennie Martin, Frankfort, Kan., Oct. 17, 1912.

My poultry advertising has been more successful in Farmers Mail and Breeze than in any other paper. It has brought me more direct returns than any other paper I ever advertised in.—J. F. Crandall, Barnes, Kan., Oct. 8, 1912.

I have found Farmers Mail and Breeze my best advertising medium.—Mrs. L. O. Housel, Smith Center, Kan., Oct. 3, 1912.

I have sold all my eggs from 65 Light Brahma hens. I owe it all to Farmers Mail and Breeze and will be with you again next year.—Mrs. Frank White, Furlay, Kan., June 3, 1912.

We advertised Indian Runner duck eggs in two papers. Farmers Mail and Breeze did much the most business for us. We were obliged to refuse orders and return money.—R. J. Shirk, Ramona, Kan., Oct. 5, 1912.

Circulation 104,000 Copies Each Issue Positively Guaranteed.

You cannot afford not to run a poultry advertisement in the Poultry Special issue. Last pages close Jan. 27. Write for special low poultry advertising rate to **Farmers Mail and Breeze, Topeka, Kansas**

makes. I have always used incubators except when I have a specially high-priced setting of eggs costing \$5 to \$25. In my first year's experience with incubators I lost all but 4 chicks out of 240. The next year I lost 53 per cent of 790 chicks. The third year I did a little better by not taking everybody's advice and using a little of my own common sense. While the hatch is coming off I keep the thermometer up to 105 to 108 but I open the machine every 15 minutes to take out the chicks and shells. I keep a box lined with cotton on top of the machine and into this I put the chicks. I do not let a chick drop down into the nursery. By following these methods my 1910 hatches proved a little better than 89½ per cent; in 1911, 93½ per cent out of 1,275 chicks hatched, and in 1912, 94 per cent out of 2,300 chicks hatched. In 1912 I lost only 6½ per cent through the year of all chickens hatched.

Last year I sold 900 broilers at Ft. Riley, averaging 1 pound and 2 ounces, at 40 cents each. I have 18 chicken houses with pens 25 feet wide and 125 long. My houses are 8 feet high in front, 5 feet in the back, 6 feet deep, and 10 feet wide. I have wide glass in front which is replaced by wire in summer. I keep my baby chicks in coops, 75 in each and use fireless brooders. My feed for chicks under 30 days is mixed up as follows:

Fine cracked corn..... 1 bushel  
Cracked wheat..... 1 bushel  
Cracked Kafr..... ½ bushel  
Millet..... 4 quarts  
Fine oyster shells..... 4 pounds  
Fine charcoal..... 1 pound

The meal is sifted out of the cracked corn and I also sift the oyster shells in a No. 40 sieve, feeding the fine portion. They have bran before them all the time, also fresh water into which I put a pinch of permanganate of potash. My chicks under 30 days do not get on the ground but are allowed in the runs which have old sacks or canvas spread out and covered with litter. Into this their feed is scattered. I keep soft feed away from them entirely.

After 30 days the chicks get whole grain and twice a week I give each pen of 75 chicks a pound of meat scraps which costs me 3 cents per pound. In 30 days more I cull out the undesirable and put them in little pens 6 feet long, 20 inches wide and 20 inches high, lathed on top. These pens will hold 25 to 30 chicks each. I feed them all the milk they want and each morning they get shorts dampened in milk. In 20 days they will weigh 2 pounds and are ready to sell as broilers. I keep nothing but purebred Black Langshans the year around. W. J. Neff.

#### Packing Eggs in Salt.

[Prize Letter.]

Mr. Editor—I have been a reader of Farmers Mail and Breeze for only six months, but like the paper so well it is hard to wait from one week to another for it. Perhaps some readers would like to know of my method of packing eggs for winter. I take a gallon sirup pail and put a layer of eggs in the bottom, standing them on the small end and leaving enough space between them so as to keep them from touching each other when the salt is put in. Cover over with salt, then put on another layer of eggs, and so on until the pail is full. I then put the lid on tight and every few days turn the pail upside down. By this method I can keep eggs all winter. Mrs. Wm. Coffman.

R. 6, Burlingame, Kan.

#### Capon Markets Close at Hand.

Mr. Editor—Many people have the impression that there is no market for capons, farmers in particular. There are six or eight firms in Kansas City buying capons and I am enclosing a shipping tag from one of them that contains some information on capons. I note that the Kansas State Poultry Show is offering \$50 in prizes for capons this year. Of this, \$25 will be in gold for best display. I am preparing an exhibit of 30 or more capons and will also give demonstrations on live birds during the show. George Beuoy.

Cedar Vale, Kan.

[The shipping tag mentioned by Mr. Beuoy gave market quotations of 15 to 25 cents per pound, dressed, according to quality. From 2 to 3 cents less per pound is paid for live weight. The larger and fatter the birds the more they will bring. This produce dealer says he does not want "slips" but will take them at reduced prices.—Ed.]



Mrs. M. J. Clifton  
of Oklahoma

Mr. F. E. Bennett  
of Ohio

Mrs. Laura J. Clark  
of Illinois

Mr. Geo. W. Black  
of Indiana

Mrs. F. H. Osman  
of Ohio



## Don't Be Satisfied With Anything Less Than Championship Hatches!

Let Jim Rohan and His World's Champions Tell You How To Get Them Every Time



Jim Rohan, Pres.

SEND me your name and address on a postal. I want to mail you my World's Championship Hatching Facts. I want to tell you how you can get championship hatches—how you can beat every other incubator in your neighborhood. I want to tell you how you can make the most money, at least expense, with least effort. I want to tell you how my champions (shown above) get 100 per cent hatches and how they raise their chicks. I will tell you how and why my Belle City won six world's championships against machines costing from two to five times more. And I'll quote you a price that will surprise you—the lowest price you ever heard of, for the incubator that has established an unequalled record for perfect hatching. Won't you write me a postal? The facts, proofs and information I'll send will guide you right in making the wisest selection of an incubator and brooder. My

## World's Champion Belle City The 6-Time Winner

is making big money for 195,720 other folks, under all conditions. I want to send you letters from hundreds of them—tell you the reasons why my customers are my friends. I want to tell you exactly how my World's Champion Belle City is made—how I have embodied in it everything that makes a hatcher successful. I want to tell you about my famous double walled hot-water brooders guaranteed to raise the chicks—all about my manufacturing, selling and shipping plan that makes my remarkably low price possible. I'll show you why you never before could get such sure profit-makers for so little money.

### Write Me a Postal

Just say "Send World's Championship Hatching Facts." It's free. I'll quote you my lowest price, freight prepaid. I'll tell you how you can have 1, 2 or 3 months home test of a World's Championship Belle City at my risk—how I protect you by my personal 10 year guarantee. I'll send you all these sensational facts if you just write me a postal. Do it now. Jim Rohan, Pres.

Belle City Incubator Co., Box 21, Racine, Wis.



## Uncle Sam's Poultry Book

The world's only complete official guide to poultry raising. Written by government experts—every page means money in your pocket. Price 20 cents, worth \$10.00 to you and by our plan you can have 50 cents back. Send us 10 2 cent stamps, or 2 dimes. Edition limited, send quick. Uncle Sam says you should use an incubator and tells how a good one is built. There's no other machine made coming up to the standard but

### The Sure Hatch Incubator

which is built Uncle Sam's way. Heavy, strong, best materials, many modern features not found in others. Complete control of heat and hatches chicks that live. Guaranteed five years. Big book free. Send for it. Get to work at once and put your chicks on the early high-priced market. Poultry and eggs will be higher the coming season than you ever knew them to be.

**SURE HATCH INCUBATOR CO.**

BOX 14, FREMONT, NEBR. Freight Prepaid.



### Our 1913 Poultry Book

IT'S FREE—the most complete and practical guide to money-making poultry raising yet published. Eight new special chapters—worth hundreds of dollars to you. 244 pages actual experiences, illustrations, advice.

### CYPHERS Incubators and Brooders

World's Standard Poultry Equipment. Book tells about Cyphers Company's Free Bulletin and Personal Letter Service. Prepare for America's greatest poultry year—highest prices, low cost production. Send postal for Big Free Book today. Address Cyphers Incubator Co., Dept. 92, Buffalo, N. Y.

### \$1 POULTRY RAISING Book FREE

To Everyone Interested in Incubators and Brooders Book tells how to make money, what to feed chicks, their care, habits, weight, color, etc. Say whether interested in 60, 120, 170, 240 or 300 egg size. I'll also send my Special Low Price Freight Prepaid, introductory offer on my ideal incubators. Write for it. J. W. MILLER CO., Box 368, Rockford, Illinois



EMERSON TYPEWRITER CO., Box 503, Woodstock, Illinois.

### WOULD YOU

Show this wholly visible Typewriter to your friends and let them see wherein it excels any \$100 Typewriter made. If we would send one to you Free of One Cent of cost for you to keep forever as your own? Then on a postal card, or in a letter to us, simply say: Mail particulars.



## 25¢ FOR A Whole Year

Send the Kansas Weekly Capital to Your Friends

If you want all the news of Kansas, direct from the state Capitol, together with strong editorial features, special articles, stories and departments of interest to all the family in one paper each week, you should read the KANSAS WEEKLY CAPITAL and you should send it to friends or relatives who are interested in Kansas and the Great West. The Weekly Capital is a KANSAS paper all the way through—it is published in the capital city, just across the street from the State House, and it will keep you in close touch with those movements of greatest interest and value to every citizen of the State. It is the only weekly paper published from which you can get all the Kansas news.

Among its interesting editorial features are Tom McNeal's "Kansas Gossip," Dodd Gaston's "Second Thought" paragraphs, Walt Mason's modern poems of philosophy. And we give you all this—62 big papers each year—for only 25 cents. Why not let us send it regularly to you and to your friends? If you have a friend or relative interested in Kansas nothing would please him more than a year's subscription to the Weekly Capital. Address

**KANSAS WEEKLY CAPITAL**

DEPT. M. B., TOPEKA, KANSAS.



**M. M. Johnson**

There are over 400,000 good reasons for you to read this book. They are the 400,000 Old Trusty customers who we've started to biggest poultry raising success by reading the Johnson books issued in years past.

**Send a Postal** The Old Trusty is a triple cased machine—inner case of high-grade mahogany (not knot in a mile)—then a case of highest-grade asbestos, fire proof insulation and then the outer case covering legs and all of galvanized metal to hand some mottles and all of Johnson's machine is equipped with guaranteed not-to-leak cold-rolled copper tank and direct acting regulator. Price still less than \$10 for 1913, freight prepaid case of Rockies and allowed that far to points beyond. Write postal now.

**JOHNSON, Incubator Man, Clay Center, Nebr.**

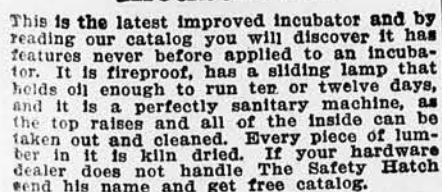


**Less Than \$10**

**Built Exactly Alike for Biggest Average Hatches**

**30 to 90 days Free Trial**

**Freight Paid E. of Rockies**



**One Minute Washer Co., El Reno, Okla.**

**N**OW is the time to get in the money-making poultry business with one of my Successful Incubators—only \$6.75 up. With the "Successful" no experiments or trial hatches are necessary—you can be sure of success every time.

**SUCCESSFUL INCUBATORS**  
(Life Producers)  
**SUCCESSFUL BROODERS**

on the market. Don't buy an incubator that guarantees less than I do. Send your name **now** for catalog, low price proposition, guarantee, and **Free Lessons in Poultry Raising** that insure success.

**DES MOINES INCUBATOR CO.**  
 246 Second St., Des Moines, Ia.  
 NOTE—Book "How to Raise  
 48 out of 50 Chicks", 16c—  
 Catalog is FREE. Get it.

**\$6<sup>75</sup>** and  
 Up

**Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the 1913 model automatic**



**QUEEN**  
**Incubator**  
60 Days of Conscientious

**Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.**  
**P. M. WICKSTRUM, Incubator Man**  
**Box 8, Lincoln, Neb.**

BY T. E. QUISENBERRY.  
Director Missouri Poultry Experiment  
Station.

[Written for Farmers Mail and Breeze.]



**T. E. Quisenberry.**

**IT IS** better to keep 100 hens and make a profit on them than to attempt to keep 1,000 and lose. By having small colony houses substantially built on oak runners, you can pull these out into the orchard, clover or corn field. It is important that the ground be cultivated and either oats, wheat, rye, corn or rape be grown. If poultry is kept upon one piece of ground or in small coops or yards continuously until the ground is bare it becomes contaminated with disease germs.

Cull out all undersized eggs, overly large eggs, thin and rough shells. Cull out all weak or crippled chicks at hatching time. Continue to cull out those which are slow in developing, slow to feather, and cull out weakness and disease wherever shown until the hens enter the breeding pen.

Do not breed from a male or female under 1 year old. Your hens are your most valuable breeders. You can build up an egg-laying strain by breeding from the pullets which lay when they are 5 to 7 months old. Also breed from the hens and pullets which lay during the winter months. When you discover the early laying pullet and the winter layer, mark these in some way so that they may be distinguished from the rest of the flock, and include them in your breeding pen.

## Kill the Diseased Birds.

It seldom pays to doctor poultry unless it be a valuable bird and the disease be in a mild form. The best remedy is the hatchet. So breed, feed, house, and manage your poultry that you may avoid disease. One-third of a teaspoonful of Epsom salts is recommended for each fowl, fed in a moistened mash twice a month. The use of permanganate of potash in the drinking water is also recommended. Dissolve the crystals in a bottle of water and then pour enough into the drinking water until it is turned a rich wine color. Disinfect the drinking vessels and never allow them to become empty. Provide a bountiful supply of pure water and feed well and plenty if you expect a large number of eggs, for the egg is composed largely of water and fat.

A good ration is composed of 2 parts cracked corn, 2 parts wheat, and 1 part oats, fed in straw litter on the floor of the hen house night and morning. Also provide a dry mash in a box or hopper where the hens can get it at all times. This is made as follows:

Corn meal .....	100 pounds
Wheat middlings or shorts.....	100 pounds
Bran .....	50 pounds
Alfalfa meal .....	50 pounds
Oilmeal .....	15 pounds
Dry beef scraps.....	75 pounds
Table salt free from lumps.....	3 pounds

Skimmilk or buttermilk is a valuable meat food and should take the place of dry beet scraps when possible.

Eggs should be graded. They should be marketed while fresh, should be clean and wholesome. It is estimated that about 20 per cent of the eggs from the farm are unfit for food. The cold storage man does not lose this, the egg dealer or buyer does not lose this, for both buy at a price sufficiently low to protect them from loss. The producers are the ones who suffer from careless methods and practices in marketing eggs.

### Free Range for Breeding Stock.

Mr Editor—Some breeders would have you believe that it is not possible to get satisfactory hatches with eggs from yarded poultry. The last four years we have been using the yarded system of keeping breeding stock exclusively and for fertility and strong chicks find that this is far ahead of the free range system. But when I say "yarded" I do not mean to throw a bunch of hens and several roosters into a little pen 10 by 12 yards. Here at our poultry plant we

have large yards in the orchard. At intervals we scatter grain about and plow it under. The gentle, contented dispositions of the R. I. Reds make them especially adapted to stand confinement.

New Albany, Kan. Karl Spellman.

### Cure for Feather Pulling.

What can I do to break the habit of feather pulling among my hens? They stand around and pull feathers from each other, apparently to the enjoyment of both. I have about 100 birds confined to seven town lots and feed corn, wheat and Kafir.—J. O. Haviland, Kan.

The two chief causes of feather pulling are idleness and a craving for some form of meat food. Put all the grain feed in a deep litter of straw and make the birds scratch for all they get. Also give them meat in some form as beef scrap, tankage, or green cut bone.

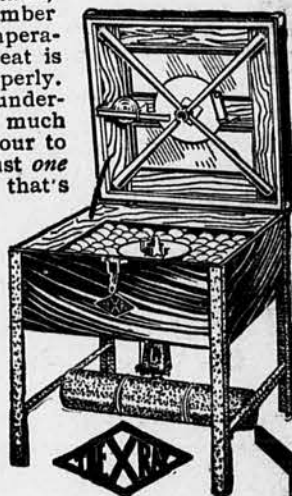
**Requires Only One Filling of the Lamp**

Now shipped *direct* to you from my big X-Ray  
Factory. No agents—no dealers. Guaranteed  
to please you. Orders filled *same day* received.

pay freight anywhere! *Quick Service!*  
Here's the only incubator built on  
the *right* principle with the lamp  
*underneath* — square in the  
center — and *not* on the  
side as with *old-style*  
machines. With the lamp  
underneath on my X-Ray

Incubator an even, regular temperature is kept all the time, *every* part of the egg-chamber is at proper hatching temperature — because the heat is distributed evenly and properly. In placing my oil tank underneath, I am able to use a much *bigger* one—it holds from four to eight quarts of oil—but just *one* gallon (four quarts) are all that's needed for an entire hatch.

*this!* And this big tank just has to be filled *only once*—not every single day as the old-style machines do. Now my *automatic trip*—an exclusive patented X-Ray feature—is the watchdog on your oil bill. It is *really* a most wonderful regulating device, cutting down the flame at the *burner* when the egg-chamber gets too hot—and thus saving you all that excess heat that goes to waste in the *old-style* lamp-on-the-side machines. You never have to touch the regulator on my guaranteed-successful



# XRAY Incubator

***"Built Different From All Other Machines"***

Why? Because it is *automatic* and takes care of itself! The door of my X-Ray Incubator is at the *top*, and has two double-glass panels—so you can see the thermometer at any time by looking through the glass. You don't have to raise the lid and let the chill air in on the eggs. It is not necessary to remove or lift the egg-tray from my X-Ray Incubator during the hatch. Ventilate by simply raising the lid. So you save the time and labor of removing the egg-tray in order to turn or air the eggs. You save the danger of dropping a tray of eggs—because tray is *not* removed. You save getting down on your knees in front of machine and wasting matches trying to read the thermometer through a *side* door. You save *all* uncertainties in automatic regulation. My X-Ray Indicator shows whether heat is right or wrong—my thermometer is the most accurate and most simple to read or any ever placed on an incubator.

**Get My Factory-Direct Price—  
Get My New Free X-Ray Book**

Learn about *both* my machines—my X-Ray Incubator and my X-Ray Brooder. Brooder has same perfect heating system as X-Ray Incubator. It is easiest to clean—has best lighting and ventilating systems. Four windows—all slide—to ventilate. Makes a better home for little chicks than the old hen herself. But first get all facts about my X-Ray Incubator. Please bear in mind that I positively guarantee to save you three-fourths of the oil you would have to use with one of the old-style machines. Please remember also that my X-Ray Incubator is the only one built on the proven principle the lamp *underneath*. The X-Ray is your home means less of handling, less oil, less heat generated, absolutely no waste, no filling of the lamp during the entire hatch, no danger of "cooking eggs"—and an even, regular hatching temperature in the egg-chamber all the time. Instead of wasting the excess heat as all the old-style machines do—the X-Ray controls it.

Free Book No. 47 tells you all about X-Ray Incubators and Brooders. Just drop me a postal or a letter Today and ask me for this valuable book. I'll send it right back to you by return mail—and you'll profit both in dollars and experience by having done so. When you write, please address me personally. Sincerely yours,

**J. H. KATE, President  
X-RAY INCUBATOR CO**



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for this FREE  
Book No. 47**

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Neb.

Date \_\_\_\_\_

**X-RAY INCUBATOR CO.**  
Gentlemen—Please send me \_\_\_\_\_  
on X-Ray incubators and \_\_\_\_\_

Name \_\_\_\_\_

Town \_\_\_\_\_

State \_\_\_\_\_

R. F. D. \_\_\_\_\_

2018



## The WOMEN

Conducted by



## FOLKS

Mabel E. Graves

We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house; or if you have anything to say which would be of interest to another woman, send it to the Home Department editor. Prizes for the three best suggestions received each week will be, respectively, a set of triple-plated teaspoons in the beautiful Narcissus design, a year's subscription to the Household magazine, and a year's subscription to the Poultry Culture magazine.

When the hands are stained from peeling potatoes they can be whitened by rubbing with lemon juice.

A Topeka girl is proud in the possession of a full length coat of leopard skin. But a seal skin would satisfy most women.

Are your New Years resolutions all broken? Never mind; it was worth while making them. It isn't the breaking of them that hurts so much you know, as it is the failing to try again.

American women should thank the good Lord they do not live in the Bulgarian country, where the women, with husbands and sons killed in the war, are compelled to go out these wintry days and do the work of men.

Have you tried the new parcels post yet? One business firm dumped two wagonloads of brick into the mail New Years day, just to see how it went. No, they didn't live in Kansas or they'd have been kinder to the postmaster.

But don't try to send books, papers, photographs, or anything of that sort by parcels post. If you do you'll have the privilege of donating some extra postage to Uncle Sam. All these things are classified as third class matter, and go at the same rate and with the same stamps they always have.

## Graham Gems.

[Prize Recipe.]

Two cups of graham flour and 1 cup of wheat flour, 1 egg, 1 tablespoon sugar, 1 tablespoon lard. Put all together, wet up with sour milk to make a batter not stiff and beat thoroughly, the more the better. Add a teaspoonful of soda last and beat till thoroughly mixed. Drop in gem pans and bake in a hot oven.

E. Barnett. Humboldt, Kan.

## Potato Cakes.

[Prize Recipe.]

An excellent way of using cold mashed potatoes is to beat up 2 eggs very light, and add  $\frac{1}{4}$  cup milk. Put in the potatoes and stir till well mixed, add 1 teaspoon salt. Then mix  $\frac{1}{4}$  teaspoon baking powder with 4 tablespoons flour, sift into the potatoes and mix thoroughly. Form into small cakes, dip in flour, and fry in hot grease to a golden brown.

Irving, Kan. May Cook.

## Scrapple.

Boil the lean part of the hog's head. A few of the back bones or ribs may be added; or beef can be used instead of pork. When very tender remove from the kettle, remove all bones, and chop or grind meat fine. Put back into the soup it was boiled in and add pepper and salt. When it boils again thicken like mush. When well cooked pour out in pans 2 inches thick. When cold slice thin, roll in fine meal and fry in hot lard to a delicate brown. Keep in cool place till it is ready to fry.

Mrs. Charles Corbin.

R. 3, Hartford, Kan.

## Recipes for School Lunch.

[Prize Letter.]

Cup Custard—Beat together 2 eggs and a scant half cup of sugar; when light and creamy stir it into 1 pint of milk. Fill cups with this and grate a little nutmeg over the top of each, place the cups in a pan with a little hot water and bake. Baked custard makes a delicious luncheon dish, and a cup can easily be packed in the lunch box.

Eggless Gingersnaps—Melt  $\frac{1}{2}$  cup of butter, and add to it 1 cup of molasses with 1 teaspoon of ginger, 1 scant teaspoon soda dissolved in a teaspoonful of warm water, and flour enough to roll. Bake quickly.

Peanut Sandwiches—Remove the skins

from roasted peanuts, put them into a meat chopper and grind to a paste. If not moist enough add milk to make the proper consistency, and salt to taste. Spread a thick layer of this on unbuttered bread.

Sandwiches are more tempting if the crust is cut off and the slices cut into triangular shape. They can be cut in this shape by putting two slices together and then cutting. The crust can be saved for dressing for fowl, or for griddle cakes.

Choctaw, Okla.

Ella Warden.

## Nut Salad.

[Prize Recipe.]

Six large apples, 1 cup English walnuts, 1 cup celery; chop all. Make a dressing of 1 cup vinegar,  $\frac{3}{4}$  cup sugar, 2 eggs, 1 heaping teaspoon cornstarch, 1-3 teaspoon mustard, and cream. Put sugar and vinegar together in a granite pan on back of stove. Moisten the starch and mustard with a little cold vinegar. Beat the eggs and add to mustard and starch, then add to the vinegar and sugar and all together. Don't put in the cream until you are ready to use the dressing. It will keep for some time. For half of this quantity,  $\frac{1}{2}$  cup cream will be needed.

Mrs. R. L. Drake.

Dombey, Okla.

## Chicken Pie.

Cover chicken with cold water and let simmer till two-thirds done, then add salt and cook till meat falls from bones. Take out bones and lay the meat in bottom of a baking pan.

For a sauce to pour over the meat take 3 tablespoons melted butter mixed well with 3 tablespoons flour. To this add 5 cups of warm broth from the meat and 1 cup of cream or milk. Let this boil, season with salt and pepper and pour over the chicken, saving out some for gravy. Put this in the oven to keep hot while preparing a crust of 2 cups flour, 2 teaspoons baking powder,  $\frac{1}{2}$  teaspoon salt, 2 tablespoons lard, 1 egg, 1 cup sweet milk. Stir to a batter, pour over the chicken and bake until brown.

Winfield, Kan.

Subscriber.

## Molasses Gingerbread.

[Prize Recipe.]

One cup molasses—syrup can be used—1 level teaspoon soda, 1 egg, 1 large tablespoon shortening (either lard or butter),  $\frac{1}{2}$  cup sweet milk, 1 teaspoon salt, 1 teaspoon ginger, 2 cups flour. First beat the molasses and soda together, then add the other ingredients. If eggs are scarce it is just as good without. This makes a good sized panful. Serve with a sauce made of milk and sugar.

To make the sauce take about 1-3 cup of sweet milk and 1 teaspoon sugar for each person, put on stove and let come to a boil. Cut the gingerbread in pieces and put in saucers or other small dishes and pour the hot milk over it. This makes a delicious dish for breakfast in cold weather. What is left of the gingerbread will be just as good for the next day by using the hot milk and sugar.

Tribbey, Okla.

Mrs. P. M. Robison.

## The Days Gone By.

Few people ever think to save any keepsakes for the children. How dear to the heart of a child is some toy or picture he has had since infancy. A garment that is worn in babyhood will be prized as long as he lives. Pictures of the children should be taken at intervals all through their childhood. How often we hear parents lamenting that they have not even a picture of a lost child. And even if the children live to old age they will value all their lives the pictures their parents had taken of them in childhood. Pictures, toys, little

garments of a lost child are viewed with tear-wet eyes and put away by tender, loving hands; but no less valued are the keepsakes of the grown child who has left the parent nest and gone to a home of her own. Among my collection of keepsakes I have a soft silky curl that was clipped from my first-born's head just before he was put in his little casket. Thirty years have passed since then. It once was a sad reminder, but now it is a sweet treasure. I have pictures and little garments of my other children, but this dear little curl is all I have left that belonged to my one angel child.

Scottsville, Ark.

## Two Designs for Bed Quilts.

[Prize Letter.]

I have just finished cutting items for my scrap book from the last number of Mail and Breeze, and feel a little ashamed to be constantly accepting the good suggestions from others and never giving



EASILY CUT. QUICKLY MADE.

any in return. But it is not too late yet, so I will jot down my plan for patchwork comfort tops. I take several evenings to cut the pieces, then sew them on the machine. I give two of my favorite designs which are easy, quick and attractive. Cut pieces  $2\frac{1}{2}$  inches wide and 5 inches long and join as illustrated. In the diamond patch I use a 3-inch diamond. By sorting colors so certain ones will run the length of the comfort these comfort tops can be made very pretty.

Modoc, Kan.

Mrs. Cary Bundy.

## Something for Women to Do.

Many women are seeking employment out of doors. I find tea and lunch parlors on automobile routes are paying well, also raising Leghorn and guinea squabs. Squabs find ready sale at all good hotels and restaurants.

Mrs. B. R. Buffham.

Roswell, N. M.

## Dressmaking Lessons Free

Complete Illustrated Course of Lessons Given to Women Readers of This Paper For a Short Time Only.

We have just published in one large volume one of the most valuable and most comprehensive courses of instruction in home dressmaking ever written. This course of lessons covers practically every phase of the subject of dressmaking. It tells you how to make most every garment, from the simplest house apron to the most elaborate evening gown.

This valuable book, "Every Woman Her Own Dressmaker," will be found of great assistance to beginners as well as experienced dressmakers. You can turn to this book and find a satisfactory answer to practically every dressmaking question which might come up. It illustrates and fully describes 200 very latest styles for ladies and children. It gives valuable instructions on fitting and finishing—instruction needed by every woman. Here are some of the interesting subjects taught in these lessons:

How to sponge and shrink wool goods.  
How to shrink wash materials.  
How to make a tailored coat at home.  
How to make a plain shirt waist by the newest and easiest method.  
How to make a boned lining.  
How to make stylish suits, skirts, waists, dresses and dressing sacques.  
How to make wrappers, kimonos and underclothes.  
How to make children's coats and school clothes.  
How to make baby clothes, long and short.

We are giving these valuable dressmaking books away absolutely free just to introduce our popular publication. Send us your name and address at once, together with 4 cents in stamps to cover mailing expense, and secure one of these valuable books before the offer is withdrawn. Address ARTHUR CAPPER COMPANY, Dept. DM-11, Topeka, Kansas.

## GOOD LANDS ATTRACTIVE PRICES

Sugar cane and the production of syrups and sugar are attracting great attention in Florida. The highest agricultural authority on record has stated that crops can be remuneratively grown in competition with Cuba. A ten-acre Celery farm soon makes possible a bank account. Oranges, Grape Fruit, Potatoes, Celery, Lettuce, Tomatoes, the earliest Strawberries on the market, are demonstrated successful crops. Combination of soil and climate afford opportunity for succession of crops. Manatee and the Brooksville, Annette, Hammock Area offer splendid land which can be secured at reasonable prices. The six southern states traversed by Seaboard Air Line offer special inducements. Ideal climate, quick transportation to big markets. Beautifully illustrated booklet sent free.

J. A. PRIDE,

Gen. Ind. Agent,

SEABOARD AIR LINE RAILWAY,

Suite 379, NORFOLK, VA.

## This Beautiful 20 Year Watch \$3.75

Magnificently engraved THIN MODEL, GOLD FINISHED double Hunting case, jewel American lever movement, stem wind and stem set. 20 year guarantee sent with each watch. Long gold finished chain for Ladies, fob or vest chain for Gents Free.

3.75  
20 Year Guarantee  
EXAMINATION FREE. Let us send it O.D. to your express office, after you examine it, if you think it is a bargain and equal to any \$16.00 watch, pay the express agent our Special price \$3.75. Mention Ladies' Mail or Boys' Mail HUNTER WATCH CO., DEPT. 179, CHICAGO, ILL.

WATCH RING & CHAIN FREE  
FOR SELLING POST CARDS  
We positively give away a \$25.00 WATCH, RING and CHAIN FREE to the first 500 members of the Capper Kitchen Cabinet Club who send in 50 post cards of beautiful high grade art post cards at 10c a package. Order 50 packages, and when paid, send \$2.50, and we will positively send you the watch, ring and chain.

WATCH, RING &amp; CHAIN. GREAT MFG. CO., DEPT. 105 CHICAGO

## Read This Great Offer!



## GET \$30 KITCHEN CABINET FREE

THIS is a positive, sincere, straightforward offer. YOU may have one of these beautiful Kitchen Cabinets absolutely free of any cost.

I HAVE an easy and most remarkable plan by which one lady in each neighborhood may secure a \$30 "Gold Medal" Golden Oak Kitchen Cabinet without it really costing her a penny—without any work—without any canvassing or soliciting or public work of any kind.

Does that interest YOU? Then be quick with your request for my special free cabinet offer.

I am making an extremely liberal proposition to the first 500 members of the Capper Kitchen Cabinet Club. I want to place one of these "Gold Medal" Kitchen Cabinets in your home. It will save you thousands of steps and hours of time. It is the handiest thing you ever had in the house and as beautiful a piece of furniture as any woman can desire. I have a plan by which you may secure your cabinet absolutely free.

ABSOLUTELY FREE Send Today for

see how easily you can secure one. The Gold Medal Cabinet comes in beautiful Golden Oak finish. Cabinet top 40 x 38 x 12 inches. Sanitary floor bin with glass indicator and dust-proof sifter. Large china closet, spice bin, etc. Base 30 inches high, 40 inches long and 28 inches wide, with nickel top. Large cupboard, three commodious drawers, kneading board, etc. Two-compartment removable metal bread and cake box. Room for everything you need in the kitchen.

I want one lady in each community to take advantage of this offer. Send in your name today. You place yourself under no obligations whatever by asking for full particulars. Let me send you a large illustration and complete description. Write today. Address,

CAPPER KITCHEN CABINET CLUB Dept. 64

Topeka, Kan.



## HOME DRESSMAKING

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



- 6065—Child's Dress, 4 sizes, 4 to 10 yrs.
- 6056—Ladies' Dress, closed in front, 5 sizes, 34 to 42 inches bust measure.
- 6074—Boys' Russian Suit, sizes 2, 4, 6 yrs.
- 6054—Ladies' Skirt, 5 sizes, 22 to 30 inches waist measure.
- 6071—Tailored Waist, 5 sizes, 34 to 42 bust.
- 6086—Infants' set—dress and petticoat, one size.
- 6073—Misses' Coat Suit, sizes 14, 16 and 18 yrs.
- 6786—Five-gore Skirt, 5 sizes, 22 to 30 waist. Size 24 measures 2 3/4 yards around lower edge.
- 6628—Child's Dress, closed in back, sizes 6, 8, 10, 12 yrs.
- 6088—Boys' Blouse Suit, 5 sizes, 4 to 12 yrs.

### USE THIS COUPON FOR PATTERN ORDERS.

Farmers Mail and Breeze, Pattern Department, Topeka, Kan.

Dear Sir—Enclosed find ..... cents, for which send me the following patterns:

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

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

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

Name .....

Postoffice .....

State .....

R. F. D. or St. No. ....

BE SURE TO GIVE NUMBER AND SIZE.

### Double-Purpose Window Seat. [Prize Letter.]

In a home where closet room is scarce a window seat is a great convenience and is easily made. Get a pine box the size you desire. I will give the dimensions of the one I have made: Length of box 47 inches, width 15 inches, height 18 inches not including the lid—this is for a large window. Put hinges on the lid and cover the box with cretonne of some bright color. Put excelsior on the lid of the box and cotton batting over it, then

cover with the cretonne and tack with brass-headed tacks. Make a loop of the cretonne and tack to the front of lid to raise it by. Make a ruffle of cretonne to hang down around the box at top. This box can be used for blankets or quilts, or rolls of goods left from garments, or for clothes of any kind, and you have a comfortable window seat besides.

Erie, Kans. Mrs. D. A. Bryant.

### Why We Need Fresh Air.

Air, water, and food are the three great essentials of life. A man may go for days without food and for hours without water, but deprive him of air for a few minutes and he dies. The state takes care of the food we eat and the water we drink, but we have to take care of the air ourselves. Unfortunately, air laden with the foulest and most poisonous substances can be breathed without our knowing it at the time; but the effects are sure to be seen later in headache and drowsiness. If we make a habit of living in unventilated houses the result will be loss of vigor of mind, and body, and of the power to resist disease.

We reject dirty food for our stomach while using dirty air for our lungs; yet our lungs need more careful consideration than our stomachs if we would have good health and strength. Go into the large majority of living and sleeping rooms, particularly in winter, and you will find a reason for the spread of consumption, the "white plague" which is slaying thousands of people all over the land.

In ordinary breathing a grown person takes from the air 16 cubic feet of oxygen every 24 hours and adds to it 14 cubic feet of poisonous carbonic acid gas. Nearly one-third of the excretions of the body are eliminated through the lungs and another large proportion through the skin. This latter fact shows why we need not only good food and good air but frequent bathing.

To get the needed fresh air we must ventilate our houses by throwing doors and windows wide open several times during the day or leaving a window down a little all the time. At night a window should always be open in each sleeping room. If there is danger of a direct draft on the bed put some kind of a screen in front of the window. Then we must get out doors as much as possible. We cannot breathe too much fresh air. The more pure air we have the more life-giving oxygen is conveyed to all parts of the body; and the better health we have.

Dr. Ella S. Webb.  
North Dakota Agricultural college, Fargo, N. D.

### Try Some Fruit Tapioca.

Tapioca combined with fruit makes a delicious dessert. Soak a teacupful of tapioca in water over night. In the morning add sufficient water to cook, and place in the double boiler. Let cook slowly till transparent, then add the same amount of fruit as you have of cooked tapioca and sugar to moisten and sweeten. This may be made with any kind of fruit, or instead of fruit two or three squares of melted chocolate or a cup of cocoanut may be used.

Pie makes a good dessert, and many kinds may be made without eggs, butter or milk. Most people like pie as well as cake.

A dish of nice fruit served with cream makes a good dessert and is much more easily digested than a piece of rich cake.

Elk City, Kan. Mrs. W. R. Graves.

### SIX SILVER NARCISSUS TEASPOONS FREE.

I have just consummated a most remarkable purchase whereby I secured at a ridiculously low figure 5,000 sets of beautiful Silver Plated Narcissus Spoons made by the famous Oxford Silver Plate Co. many. Each spoon is extra heavy, full standard length, extra deep bowl and with beautifully embossed and engraved handles. I am going to give a set of these handsome spoons absolutely free, postage paid, to all who send just \$1.00 to pay for a year's subscription to my big farm weekly, The Farmers Mail and Breeze. Send your subscription order at once and secure a set of these beautiful and serviceable spoons. State whether you are new or old subscriber. Time will be extended one year if you are already paid in advance. Address Arthur Capper, Publisher Mail and Breeze, Topeka, Kan.

Half the Rubbing taken out of Scrubbing

## Old Dutch Cleanser

Many Uses and Full Directions On Large Sifter-Can 10¢

## Parcels Post Specials

Here are a few bargains offered this week by the leading merchants of Topeka. The prices quoted include delivery to you by parcels post. You can depend upon the absolute reliability of every article.

**CORSET SPECIAL** Comfortable, new, extra long corsets of heavy coutil with six supporters, two hooks below front steels, draw-string at top. The very latest. Regular \$1.50 corsets—great special bargain Parcels post paid in Kansas—for..... **89c**

**KIMONO SPECIAL** Long, warm Kimonos of fleece lined Persian flannellette in pretty, soft tinted patterns. Cut full, made with loose front and belt attached at back, trimmed with plain color. Parcels post paid in Kansas..... **98c**

## The Mills Dry Goods Co., Topeka, Kansas.

**Order by Mail** Men's strictly all wool Presto collar 32 inch long Overcoats in black or gray. Collar up in storms and turned down for nice weather. Overcoats worth \$15. Special \$5

THE PALACE CLOTHING CO., Topeka, Kansas

**LADIES' \$25 SUITS** **\$9.95**  
LADIES' \$15 to \$25 COATS  
Any popular material or color. Write us your needs in ladies' outer apparel.

**OUTLOOK CLOAK & SUIT CO.**

### Women's Shoes

Regular \$3.50 and \$4.00 values  
**Now \$2.65**

They are short lines, plenty of all sizes in the lot which consists of Dressy Patent Colt, Dull Calf, Suede and Kid Leathers.

Money Back if Not Satisfactory

The Payne Shoe Co.  
Topeka, Kansas



We have reserved for Parcel Post Customers a \$2.00 "American Lady" Corset and offer it to them for \$1.00 a pair

Long hip, medium bust—with draw string. Made of fine batiste, trimmed with embroidery, suspender elastic supporters—both skirt and clasp hook.

THE WARREN M. CROSBY CO.

### From our Store to Your Home Parcel Post Prepaid

The Best ALARM CLOCK Value in the United States. This is the genuine American Nickel Alarm Clock which usually retails for \$1.25. Absolutely guaranteed for one year, our price delivered to your home

Only 57c  
Send Order Today

MAHIZER-SPELMAN FURNITURE CO.  
WHOLESALE & RETAIL 517-19 KAN. 518-20 JACKSON.

Dealers in Pianos, Talking Machines, Carpets, Draperies and General House Furnishing Goods. Write for Descriptions and Prices.

## 4 Beautiful Gift Books 10¢

It's all the rage now to mail your friend a beautiful gold embossed gift booklet as a birthday remembrance, or as an expression of friendship, love and esteem at any time. They're more appropriate, more dainty, more desirable than post cards. Each booklet contains 8 pages, artistically decorated, with an appropriate verse and space for your name and name of friend to whom you are sending the booklet. These dainty little gifts are sure to please. To introduce our complete line we will mail a choice assortment of four different designs, covers beautifully embossed, printed in many colors and hand tied with silk cord, all for only 10¢ post-paid, and we will include free a copy of our latest catalog of post cards and gift novelties. Capital Novelty Co., Dept. 11, Topeka, Kan.

## 1913 ART CALENDAR FREE

I will send a handsome 1913 P. C. art calendar in 6 colors and gold, and a big assortment of Easter and other post card novelties for 4¢ postage if you will show my cards to 6 friends, D. O. Fogelsonger, 233 South 6th St., Philadelphia, Pa.

### RING AND BRACELET GIVEN FOR FEW HOUSEWORK

Sell 6 boxes of Smith's Rosebud Salve at 25¢ per box, a great remedy for burns, cuts, sores, piles, eczema, catarrh, colds, croup, etc. When sold return the \$1.50 and we will promptly forward the adjustable bracelet, bright gold finish, and the gold filled wedding ring or choice from our premium list. Send No Money. We trust you. ROSEBUD PERFUME CO., Box 226, Woodboro, Md.



## FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department at the low price of 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. No order taken for less than \$1. This does not mean that a single insertion of your ad must cost \$1, but that your total order must reach \$1. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

### HORSES, CATTLE, HOGS, SHEEP.

FOR SALE—Registered Jersey cows and heifers. Ed Deeds, Lyons, Kan.

SHETLAND ponies, write for prices. Charles Clemmons, Coffeyville, Kan.

DUROC HOGS, Bronze turkeys, Barred P. Rock and Brown Leghorn chickens for sale. J. M. Young, Fall River, Kan.

FOR SALE—Two large Mammoth jacks and one imported Percheron horse. Call on or address Doolin Bros., Harris, Kan.

FOR SALE—Eight Jersey bull calves; some from high producing dams; some ready for use. Chester Thomas, Waterville, Kan.

FOR SALE—One yearling Guernsey bull; two bull calves; registered. Write for description and prices. W. E. Evans, Jewell, Kan.

FOR SALE OR TRADE—French Draft stallion, black, age six, sure, show colts, weight 1,800, fine animal pedigree. Box 101, Hamilton, Kan.

GOOD Kentucky bred, registered jack 6 yrs. old. Black, large bone, meaty points, quick to act. Positively guaranteed in every way. W. H. Mott, Herington, Kan.

FOR SALE—One black Percheron stallion, registered, weight 1,800 lbs., or will trade for good mules or cattle. Address G. W. Hagerman, St. John, Kan., R. R. No. 2, Box 47.

ENTIRE DAIRY HERD—50 head of the best cows—Jerseys, Holsteins and Short-horns. Fresh and springing. Just bought from a retiring dairyman. Jack Hammel, 216 Adams, Topeka, Kan.

FOR SALE—Two registered Shorthorn bulls 10 and 12 mo. old. Good Reds. Price \$40.00 and \$45.00. Also some good registered Poland China boars and gilts ready for service. Price \$15.00, \$20.00. D. F. Middleton, Custer City, Okla., R. 1.

HAMPSHIRE hogs. Coming 2-year-old boar and some young gilts for sale, also Guernsey grade females and a registered yearling bull and bull calf, all high grade class. Write for list. Want to buy a Hampshire Downs yearling buck. R. C. Krueger, Burlington, Kan.

### DOGS.

SCOTCH COLLIES. Western Home Kennels, St. John, Kan.

TRAINED coon hounds for sale. Geo. Rice, Mammoth Spring, Ark.

FOX TERRIERS for sale. Both sexes. Charles Paul, Sterling, Kan.

FOX AND WOLF HUNTERS: Send today for sample copy of "The Red Ranger," a monthly magazine about "hounds." Red Ranger Pub. Co., Rushville, Mo.

FOR SALE—High class hunting, sporting, watch and pet dogs; puppies of all varieties a specialty. On receipt of 10 cents we mail highly descriptive illustrated catalogue, which gives full information of 49 breeds of dogs, several breeds of cattle, sheep, swine, rabbits, ferrets. Price list of poultry and pigeons. C. Landis, Dep't 126, Reading, Pa.

### FOR SALE.

50,000 HEDGE posts for sale in car lots. W. H. Blitts, Melvern, Kan.

BEST table peaches, in syrup, 24 No. 3 cans, \$2.50. The Pines Plantation, Hatfield, Ark.

THREE GREAT PIANOS—Steinway, Steck, Vose. Write for prices. Jenkins Music Co., Kansas City, Mo.

FOR SALE—Ferrets and rabbit hounds, also Japanese Midget Ferrets. Stamp for reply. Chas. Foster, Wellington, Ohio.

FOR SALE—Feed business, building and lot; 9 room resident property strictly modern. Terms. S. W. King, Pratt, Kan.

FOR SALE—Good clean hardware stock in town of 800 population. Stock will invoice about \$4,000.00. Sales will average about \$16,000.00 a year. Good reasons for selling. B., care Mail and Breeze.

FOR SALE—A good business near the State Agricultural college at Manhattan netting \$4,500 a year. Buy this and make money while educating the children. This is a bargain so write now. Address 1114 Fremont St., Manhattan, Kan.

LOUISIANA PURE SUGAR CANE SYRUP. Put up at the mill without any glucose or any Sulphur Dioxide. 6 one gallon pails at \$4.00. 27 gallons 1/2 barrel \$13.00. 54 gallons, whole barrels at \$25.00. Above is freight paid to your railroad station. We pay the freight. Mary & Tuma, Washington, La.

\$12,000 STOCK of hardware and furniture for sale. Doing a good business in a good location and the cleanest stock in the city. It is located in Rocky Ford, Colo., a city of 5,000. 2 other hdw. and furniture stores here. \$40,000 business last year. Will stand the closest inspection. John L. Bass, Rocky Ford, Colo., Box 478.

### SALESMEN WANTED.

SALESMEN wanted everywhere; cash paid each week; outfit free; write today for particulars. Ince Nursery Company, Lawrence, Kan.

### FOR EXCHANGE.

FOR EXCHANGE—General merchandise stock, invoice \$7,000; good town, northern Oklahoma; will take good clear property, up to \$4,000. Address 1149 St. Francis Ave., Wichita, Kan.

KANSAS CITY INCOME proposition. I have an unusual fine proposition in income producing property on time lease. Will exchange for high class farm in Missouri or Kansas. Write with full particulars to Mrs. A. C. Abell, Dwight Building, Kansas City, Mo.

### LANDS.

RANCH FOR RENT. Modoc, Scott Co., Kan. Fred A. Beebe.

FOR SALE—160 acres 3 miles of Sharon by owner. Box 46, Sharon, Kan.

PROPERTY exchanged anywhere. Write M. Pollett, 3330 State St., Chicago.

FLORIDA HOMES and orange groves. Write W. N. Mann, Lakeland, Florida, for bargains.

FOR TRADE for central Kansas land. Harness stock, 2 jacks, half cash. Drenning Bros., Salina, Kan.

FOR SALE—Improved 160 a. farm at \$35.00 per acre. J. H. King, Cawker City, Mitchell Co., Kan.

FOR SALE—Improved 1/4 section. Raises alfalfa, wheat, etc. \$8,000. Box 72, Route No. 3, Harper, Kan.

160 ACRES. Improved. \$5,000. Only \$1,000 down. A snap. And other farms. Fred A. Reed, Salina, Kan.

80 ACRES good wheat and corn land. 70 acres now in wheat. Price \$4,500. Address Box 278, Independence, Kan.

160 ACRES, Scott county, Kansas; \$250 mortgage; our equity, \$4 per acre cash. J. C. Chamberlin, Cherryvale, Kan.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

160 ACRES CORN LAND, 70 acres cult., 4 miles Benkelman, Neb. \$12.50 acre half cash, bal. 10 years 6 per cent. Box 18, Eckley, Colo.

JUST STOP AND THINK. \$11,500 will handle rich irrigated, improved 240 acres in Grande Ronde Valley, Oregon. Sacrifice sale. Y., care Mail and Breeze.

N. E. KAN. good quarter well improved, close to town, only a small payment down. Many other bargains in improved farms. Ask for list. Address C., care Mail and Breeze.

FOR SALE—Sunny Tennessee fertile farms, good water, houses, barns, orchards on each, rural routes, telephones. Sixty-five acres, \$650; 194 acres, \$4,000; forty acres, \$700; 265 acres, \$3,000. Free list. Jenkins & Son, Huntington, Tenn.

FINE modern residence in city and 132 acres bottom land only 1 1/2 miles out. Price \$13,200. Terms. All in corn or clover. Fenced 4 ft. woven. Excellent layout for gentleman farmer, stock buyer or feeder. A. L. Stockwell (owner), Larned, Kan.

FOR SALE—160-acre irrigated fruit, grain and alfalfa ranch; 2 acres produced 1,000 boxes this year; large barn; good house; telephone; city water; 1/4 mile to school; close to town; \$50 per acre. Write owner, L. F. Wade, Cortez, Colo., R. F. D.

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82 ACRES located in Johnson county near Olathe and Kansas City, on interurban survey near Golf club and Ocean Lake Park. 1 1/2 miles from Santa Fe station. It is new land, about two-thirds good mixed tillable land, balance pasture land with good springs. Nearly new five room modern cottage with good cellar, stable, cow shed, chicken sheds, etc. About 500 young bearing fruit trees. Good prospects of a town being built on this farm as soon as interurban is completed. Will sell very reasonable, if sold within thirty days. Owner desires to sell before leasing it again. Imported Percheron stallions, imported Percheron mares, registered and high grade Norman draft mares, Shetland pony stallion and mares. Rhode Island cockerels for sale by C. D. McPherson, owner, Route 2, Topeka, Kan. Telephone 2202N2.

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YOUR opportunity to learn salesmanship quickly. We want ten more good men to act as special representatives in the best territory in Oklahoma and Kansas. Will pay extraordinarily liberal commissions to start. Send one bank reference with application. Address, Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

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# MARKET PROBABILITIES

**Packers on the Alert For Excuse to Break Cattle Prices But Feeders Have Market in Their Hands if Reported Scarcity is Real—Hogs Still Under \$7.50—Sheep Reach New High January Level—Grain Going Up**

[Written Specially for the Farmers Mail and Breeze.]

A big run of live stock in Chicago proved a bear factor in the markets the first of the week though at river markets supplies were moderate. Fat steers were quoted weak to 10 cents lower and butcher cattle steady, and stockers and feeders as high as ever. Killers were not especially anxious for fat steers as too many were available.

Last week's trade in fat steers was more of a mongrel than one of either an advance or decline, though both occurred, and at the close the general position of the market showed no important net change compared with the preceding week. The movement of cattle was rather uncertain. Monday Chicago received more cattle than was expected and Tuesday river markets reported liberal supplies, but in other days of the week receipts were small. The total supply for the week was larger than in the preceding week, but about the same as a year ago. The big Monday supply in Chicago, after a season of exceptional weather for feeding looked as though feeders were going to adopt a selling course to be rid of a fuel bill in rough weather. Later receipts did not bear out this theory, and such weakness as developed early in the week was overcome later. Packers however are in an indolent frame of mind, and they are not going to pay more than they actually have to, so that big receipts at any time would cause a sharp break in prices. On the other hand a well distributed movement though fairly large would attract increasing firmness. If cattle in feed lots are as scarce as country reports indicate, feeders have the power to make their own market. Demand for beef is normal for this season of the year, and the recent advance in prices of mutton should strengthen demand for both beef and pork. The few choice steers coming are selling at \$9 to \$9.50, though the bulk of the native fed steers are selling at \$7.50 to \$8.50. Oklahoma and Texas oil mills have marketed more steers in the past two weeks, than in the same period a year ago. Most of them were in the 950 to 1,100-pound class and sold at \$6.75 to \$7.50. Other than these cattle neither Texas nor Oklahoma have many, and grain fat supplies will have to come from Kansas, Nebraska, Iowa, Missouri and Illinois.

## A Persistent Cow Market.

Buyers are still unable to do anything with the cow market. For the most part they have been paying about as much as salesmen had the nerve to ask, and when such prices were not realized salesmen immediately insisted that the market was lower. As far as can be quoted there was no important change in prices last week. Heifers, bulls and calves likewise maintain a strong position and are in active demand. Receipts have been small, and the scarcity of butcher cattle is of more concern to killers than supplies of fat steers, because in previous years the packers have made money off of butcher cattle when steers yielded them practically no profit. To the producer it is a source of good revenue but decidedly unfavorable for future supplies.

## Buy Thin Cattle Whenever Available.

The stocker and feeder trade of the country is not localized at any particular market. Whenever there are any cattle for sale there are buyers, and to sum up the situation where the same bunch of cattle has sold five or six times in as many weeks is rather difficult. However, there is a good demand, prices are high. As spring comes on demand will be more urgent and cattle scarcer. Feeders are selling at \$6 to \$7.75 and stockers \$5.50 to \$7.25, stock cows \$4 to \$5.50, stock heifers \$4.50 to \$6.25.

## Hog Prices Within Narrow Range.

Hog prices were down about 5 cents the first of the week, the lowest level in the past two months. The top price in St. Louis was \$7.40; in Chicago \$7.35; in Kansas City \$7.30; in Omaha \$7.20 and St. Joseph \$7.15.

No important net change occurred in prices for hogs last week. The middle of the week prices were slightly higher, but the advance was not maintained up to the close. Receipts have been fairly liberal but were considerably below this period a year ago, when scarcity of grain for feeding forced large numbers of underweight hogs to market. Prices are about \$1.25 higher than a year ago. Traders expect January receipts this year to fall 150,000 to 200,000 short of a year ago. The decrease thus far this month is already about 100,000. Farmers, however, are feeding for weight and that condition may cause a heavy month end run. Average weight now is not extremely heavy for this season of the year, but is 20 to 30 pounds heavier than a year ago, when hogs showed the lightest January weight in more than 20 years.

Light weight hogs are selling some better than a short time ago, as weight is uniformly above 20 pounds and the

lighter classes are needed for butcher purposes. All the heavy hogs are selling to packers.

## Record January Sheep Prices.

Last week sheep prices attained the highest level ever known in January, and were about \$2.15 to \$2.25 higher than the top prices in January, 1912, and \$2.90 above the top prices in 1911. Compared with the preceding week the market was quoted up 60 to 75 cents and the high prices fell on Thursday. Friday the market was easier. For some time past sheep men have been expecting a general rise in values. In November with fed grades well started the advance started, and December added additional gains. The rise in the past week was more extreme than in any previous similar period of the season. Lambs made \$9.30, yearlings \$8.20 and wethers \$6.25, the two last named top prices were in Chicago, though at river markets the top on yearlings was \$8 and on wethers \$6. As last week's rise in prices was rather extreme an increase is expected in next week's run and a moderate reaction will follow in prices. Later, though, the advance will be resumed. The highest prices ever paid for lambs were \$10.20 to \$10.75 in March, 1910; but the January prices that year were 60 to 60 cents under the prices paid this week.

## Mutton Requirements Large.

The immensity of the demand for mutton is shown by the fact that in 1912, the 12 principal markets of the West received slightly more than 15 million sheep, the largest number ever marketed in one year in the West and about 1/2 million larger than in 1911. Of this supply 1/2 million fewer were sent back to feed lots in 1912 than in 1911, so that the 1912 slaughter was 1 1/4 millions larger than in 1911. The broad consumption of mutton in the United States was caused by that meat being relatively lower during the winter than either pork or beef, and tire now with the demand broad a period of record breaking prices for sheep seems assured. January prices now are the highest on record by 30 to 50 cents, and computing March prices on the basis of normal advance over the January level lambs in March should be selling at \$10.50 to \$11 a hundred pounds.

In Kansas City last week Kansans topped the January market. F. J. Oliver, of Wichita had one carload of 84-pound lambs that brought \$9.30; also a carload of 92-pound yearlings at \$8. Dickinson Bros. of Peabody, Kas., had one car of 101-pound wethers at \$6 and other Kansans had lambs that brought \$9.10 to \$9.20.

## 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 .....	36,525	58,550	32,950
Chicago .....	63,000	178,000	115,000
Omaha .....	18,000	49,900	61,600
St. Louis .....	19,900	59,800	15,400
St. Joseph .....	9,200	42,800	7,200
Total .....	146,625	389,050	232,150
Preceding week .....	131,900	323,500	201,000
Year ago .....	144,590	486,300	232,200

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, January 13, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City .....	12,000	6,500	10,000
Chicago .....	28,000	55,000	40,000
Omaha .....	5,500	6,000	24,000
St. Louis .....	5,500	7,500	4,500
St. Joseph .....	2,800	5,600	1,500
Totals .....	53,800	80,600	80,000
A week ago .....	56,500	80,500	58,000
A year ago .....	40,200	80,900	37,800

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

	Cattle	Hogs	Sheep
	1913	1912	1912
Chicago..	\$9.35	\$8.60	\$7.35
Kan. City	9.00	8.25	7.50

## Increased Receipts of Horses.

Since the first of the year receipts of horses and mules were large, showing a material increase of the same period in 1912. Dealers say there is an active demand for all kinds, most of it is coming from the South, where mules are being assembled preparatory to the spring distribution among planters. Other demand reported was from the East and for a heavy class of drafters. The farm demand has not started, and dealers say the prospect is for a good trade in the next few months.

## Grain Prices Higher; Grain Steady.

Weather conditions this past week turned prices of grain up and there was more active demand than for some time

past. Soft wheat sold above \$1.05 and hard wheat well into the 90s. Fear that the cold weather, together with the lack of moisture, would damage the growing crop caused the improved demand. The snow, which was general, relieved much of the crop anxiety and the market closed easier. Corn is selling at 45 to 50 cents and oats are unchanged. Hay prices were quoted firm for the top grades and low grades weak.

The following prices prevail for grain in Kansas City and St. Louis:

	Kansas City	St. Louis
Wheat—		
Hard No. 2....	\$.90 @ .91	\$.90 1/2 @ .94
Soft No. 2....	1.07 @ 1.08 1/2	1.11 @ 1.14
Corn—		
White No. 2...	.49 @ .50 1/2	.50 @ .51
Mixed corn...	.47 @ .48	.48 @ .48 1/2
Oats—		
No. 2 white...	.34 1/2 @ .35	.35 @ .35 1/2
No. 2 mixed...	.33 1/2 @ .34	.33 @ .34

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
	1913	1912	1912
Chicago...	\$1.15	\$1.10	51 1/2
Kan. City..	1.10 1/2	1.08	49 1/2

## Kansas City Hay Quotations.

Prairie, choice .....	\$12.00 @ 12.50
Prairie, No. 1 .....	10.00 @ 11.50
Prairie, No. 2 .....	8.00 @ 9.50
Prairie, No. 3 .....	6.50 @ 8.00
Timothy, choice .....	13.00 @ 13.50
Timothy, No. 1 .....	11.50 @ 12.50
Timothy, No. 2 .....	8.50 @ 11.00
Timothy, No. 3 .....	5.50 @ 8.00
Clover mixed, choice .....	12.50 @ 13.00
Clover mixed, No. 1 .....	11.00 @ 12.00
Clover mixed, No. 2 .....	9.00 @ 10.50
Clover, choice .....	12.50 @ 13.00
Clover, No. 1 .....	11.50 @ 12.00
Clover, No. 2 .....	10.00 @ 11.00
Alfalfa, choice .....	16.00 @ 17.00
Alfalfa, No. 1 .....	14.50 @ 15.50
Alfalfa, No. 2 .....	11.50 @ 13.50
Alfalfa, No. 3 .....	8.00 @ 10.50
Straw .....	4.50 @ 5.00
Packing hay .....	5.00 @ 5.50

## Seeds.

Kafir corn, No. 2 white, 86c a cwt.; No. 3 white, 85c a cwt.; alfalfa, \$9@12 a cwt.; flaxseed, \$1.05 a bushel; timothy, \$1.50@1.75 a bushel; cane seed, 90c@1.00; millet seed, 85c@1.15.

## Livestock Quotations in St. Louis.

Cattle prices last week were 10 to 15 cents lower, though late in the week they were an active demand. Native beef steers are quoted at \$5.50 to \$9.50; cows and heifers, \$4.50 to \$8; stockers and feeders, \$5.25 to \$7; Texas and Indian steers, \$4.50 to \$7; cows and heifers, \$3.55 to \$6; calves, \$3 to \$10.50. Most of the cattle coming are short fed native and meal fed Texas and Oklahoma steers. Average quality is fairly good.

The middle of the week hog prices were

up 5 to 10 cents, but the advance was last Saturday. The top price Saturday was \$7.50 and bulk of sales \$7.25 to \$7.45. Good heavy hogs have been rather scarce.

The sheep market last week scored the biggest advance of the season and prices were the highest ever known in January. Choice lambs are quoted at \$8.75 to \$9.40, wethers \$5.25 to \$6.25 and ewes \$5 to \$5.50.

The following table shows receipts of cattle, hogs and sheep in St. Louis thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle .....	23,911	20,872	3,039	.....
Hogs .....	70,487	92,046	.....	21,559
Sheep .....	23,626	23,951	.....	525
H. & M. ....	5,878	4,747	1,131	.....
Cars .....	1,247	1,553	.....	306

## Five Market Days in a Week.

Chicago is trying to establish five market days in a week. In other words, they want the week's supply of livestock distributed throughout five days, instead of bunched on two days, Monday and Wednesday, as is the case now and has been for years past. Chicago is more of a two-day market than any other point, though Kansas City is showing a three-day limit pretty strongly. If shippers could devise some means of distributing supplies evenly throughout the week the general market would be afforded greater stability. Railroads and buyers know about what to expect from day to day, and can govern themselves accordingly, and if the shipper could invent some means of finding out probable supplies with some certainty they would be greatly benefited.

## Broom Corn Quotations Unchanged.

No new feature entered into the broom-corn market this past week. Weather conditions were unfavorable for moving the brush, but few buyers were in the field and prices were nominally steady. Little choice corn is said to be available and asking prices on that kind are strong. Choice green, selfworking corn is quoted at \$90 to \$100 a ton; fair to good, \$45 to \$85 a ton; common to fair, \$15 to \$40 a ton.

## Butter, Eggs and Poultry.

Elgin, Jan. 13.—Butter this week is firm at 33 1/2 cents.  
Kansas City, Jan. 13.—Prices this week on produce are:  
Butter—Creamery, 33c; firsts, 31c; seconds, 29c; packing, 21c.  
Eggs—Extras, 26 1/2 c; firsts, 25 @ 25 1/2 c; seconds, 15c.  
Poultry—Hens, 12 @ 12 1/2 c; roosters, 8c; young turkeys, 18c; ducks, 13 @ 14c.

## Produce Prices Now and One Year Ago.

	Butter	Eggs	Hens
	1913	1912	1912
Chicago...	33 1/2	38	26
Kan. City..	33	36	26 1/2

# Big Orange and Big Sensation Big Type Bred Sow Sale

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30 LARGE GILTS

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Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kan.  
H. W. Graham, E. Iowa and Illinois, Chillicothe, Mo.  
E. R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kan.

### 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.

### Combination Horse Sale.

Feb. 12-13-14—L. E. Wooderson, Mgr., Caldwell, Kan.  
Feb. 22—Mitchell County Breeders' Association, Beloit, Kan.

### Percheron Horses.

Feb. 19—J. P. Hershberger, Harper, Kan.  
Feb. 30—The Knuckles Co., (Neb.) Horse Breeders' Assn., Percy Baird, Sec., at Lincoln.  
Mar. 5—J. C. Robison, Towanda, Kan., and Willard R. Brown, Minneapolis, Kan., at K. C. Mo., Stock Yards.  
March 12th—L. H. Luckhardt, Manager, Tarkio, Missouri.

### Percherons and Jacks.

March 6—S. J. Miller, Kirksville, Mo.  
Jacks and Jennets.  
Feb. 4—Platte Co. Jack Sale Co., J. B. Dillingham Mgr., Platte City, Mo.  
Feb. 25—Hutchins & Hineman, Sterling, Kan.  
Feb. 6—Limerick & Bradford, Columbia, Mo.

### Poland China Hogs.

Jan. 29—F. P. Robinson, Maryville, Mo.  
Jan. 30—B. T. Wray, A. O. Stanley, V. O. Hunt in combination sale at Sheridan, Mo.  
Feb. 1—Podendorf & Rainier, Logan, Ia.  
Feb. 5—J. L. Griffiths, Riley, Kan.  
Feb. 5—Williams Bros., Villisca, Iowa.  
Feb. 6—H. Fesenmeyer, Clarinda, Ia.  
Feb. 7—J. O. James, Braddyville, Ia.  
Feb. 12—T. J. Meisner, Sabetha, Kan.  
Feb. 14—H. B. Walter, Effingham, Kan.  
Feb. 14—C. M. Prater, Oxford, Kan.  
Feb. 15—Thos. F. Walker & Son, Alexandria, Neb.  
Feb. 18—J. H. Harter, Westmoreland, Kan.  
Feb. 13—Bert Harriman, Pilot Grove, Mo.  
Feb. 19—W. B. Wallace, Bunceton, Mo.  
Feb. 21—R. W. Halford, Manning, Ia.  
Feb. 22—C. C. Ingram, Bloomington, Neb.  
Feb. 25—Deming Ranch, Oswego, Kan.  
Feb. 26—J. W. Pfander & Sons, Clarinda, Ia.  
Feb. 26—J. J. Hartman, Elmo, Kan.  
Feb. 26—L. R. McClarnon, Braddyville, Ia.  
Feb. 27—Olivier & Sons, Danville, Kans.  
Mar. 7—L. E. Knox, South Haven, Kan.

### Duroc-Jersey Hogs.

Jan. 22—H. E. Fisher, Danville, Kan.  
Jan. 22—Thompson Bros., Garrison, Kan.  
Jan. 24—John Higgins, Abilene, Kan.  
Jan. 29—W. E. Monasmith, Formoso, Kan.  
Jan. 30—Leon Carter, Asherville, Kan.  
Jan. 31—W. H. Seddon, Persia, Ia.  
Feb. 1—Geo. P. Philippi, Lebanon, Kan., at Esbon, Kan.  
Feb. 3—R. J. Harding, Macedonia, Ia.  
Feb. 4—J. O. Hunt, Marysville, Kan.  
Feb. 6—Mosier & Fitzwater, Goff, Kan.  
Feb. 6—Samuelson Bros., Cleburne, Kan.  
Feb. 6—Samuelson Bros., Blaine, Kan.  
Feb. 7—Agricultural College, Manhattan, Kan.  
Feb. 7—A. T. Cross, Guide Rock, Neb.  
Feb. 8—Geo. E. Garrett, Bloomington, Neb.  
Feb. 11—H. H. Shaw, Hebron, Neb.  
Feb. 19—J. P. Hershberger, Harper, Kan.  
Feb. 19—E. M. Myers, Burr Oak, Kan.  
Feb. 19—Geo. W. Schwab, Clay Center, Neb.  
Feb. 20—Rinehart & Son, Smith Center, Kan.  
Feb. 20—Chas. Smith, Eureka, Kan.  
Feb. 21—W. C. Whitney, Agra, Kan.  
Mar. 6—Sam'l Drybread, Elk City, Kan.  
Mar. 6—Marshall Bros., Burden, Kan.  
Mar. 7—W. W. Otey & Sons, Winfield, Kan.

### Berkshire Hogs.

Feb. 7—Agricultural College, Manhattan, Kan.

### O. I. C. Swine.

Feb. 6—H. L. Bode, Friend, Neb.  
Feb. 7—Chas. H. Murray, Friend, Neb.

### Holsteins.

Feb. 4—Rock Brook Farm, Omaha, Neb.

### Herefords.

Feb. 26—Warren T. McCray, Kentland, Ind.  
March 4-5—Funkhouser, Gabbert & Others at Kansas City. R. T. Thornton, Mgr., 1317 East 15th St., Kansas City, Mo.

### Shorthorns.

Feb. 19—J. P. Hershberger, Harper, Kan.  
Feb. 24—C. G. Cochran & Sons, Plainville, Kan., at Lamer's sale barn, Salina, Kan.

## Kansas and Oklahoma.

BY A. B. HUNTER.

If you want to buy a sow or gilt that will farrow you a good boar or some prize winners, send your name early to Chas. Smith, Eureka, Kan. He will sell 40 sows and gilts February 20th, nearly all safe in pig to Model Duroc, whose pigs are nearly all showing wonderful size and quality. Model Duroc's half brother, Beattie's Babe, was grand champion at Hutchinson, 1911.

### Olivier & Sons Change Sale Date.

Olivier & Sons, Danville, Kan., who have been claiming Feb. 7th for their Poland

China sale date have decided to sell on February 27 instead. They are giving every animal to be sold in the sale the serum and vaccine treatment so they will be able to guarantee them immune. Remember the date—Thursday, February 27, and send your name early for a catalogue.

### Harry Hoak's Poland Chinas.

Harry Hoak, Attica, Kan., will be glad to give you farmer's prices on a few large type early boars, and if you want a bred sow or gilt of the fashionable large type blood lines Harry is sure to send you only the kind you will be pleased to have. If you want the large, smooth kind write today describing your wants. Please mention Farmers Mail and Breeze.

### Hershberger's Combination Sale.

J. P. Hershberger, Harper, Kan., will sell Wednesday, February 19, 30 head of horses, 30 head of cattle and 30 head of Duroc-Jersey hogs. About one half of the horses are registered, purebred Percherons, both imported and home bred and as good as those of the best breeders to be found. From one-half to two-thirds of the cattle will be registered Shorthorns and Double Standard Polled Durhams. The hog will consist of 30 Duroc bred sows and gilts all eligible to registry, splendid individuals and fashionable breeding. Write today for catalogue stating which breed desired. Please mention Farmers Mail and Breeze.

### Williams's Percheron Sale.

A. W. Williams & Son, Neal, Kansas, will sell at auction Saturday, February 15th, 35 head of pure bred and high grade Percherons, also several jacks together with their entire breeding plant, consisting of



One of the good things that goes in John Higgins's Duroc-Jersey bred sow sale at Abilene, Kan., next Friday, Jan. 24.

house, barn and 21 lots in Neal, Kansas, on the Pacific railroad 12 miles east of Eureka, the county seat of Greenwood county, Kan. Among the Percherons are both imported and home bred stallions and mares one team of imported mares will sell, the two weighing over two tons, two colts out of these mares sell, one a weanling weighing over 1000 lbs. They are by the imported Percheron stallion, Tatius, who weighs over a ton and sells in this sale. 25 head of high grade Percheron mares, most of them in foal to imported sires, will also be sold. Write today for catalog.

### Phil Walker's Jacks.

Phil Walker, Moline, Kansas, is offering some good big jacks at prices that will be of interest to jack purchasers. He is an old time breeder and reliable dealer in high class jacks and jennets. Mr. Walker has a wide range of customers, having been in the jack business for years. For the last eight years he has served as county commissioner of his home county. If you are on the market for a good jack just write your wants to Mr. Walker or call and look them over; his barns are only two miles from Moline, Elk County, Kan. Please mention this paper.

### Lookabaugh's Shorthorn Offer.

H. C. Lookabaugh, Watonga, Okla., still has a choice lot of all kinds of Shorthorn breeding stock which he will sell at a reasonable figure to make room for his this year's crop of calves. Mr. Lookabaugh will have at least a crop of 75 calves from cows of as choice breeding as can be found anywhere in the west. If your credit is good Mr. Lookabaugh will sell you on time. He don't need the money. You better call and look over this great herd of choice bred Shorthorns. If you are interested in the good kind it will be a treat to you. In calling please mention that you saw his ad in the Farmers Mail and Breeze.

### Last Call Fisher's Sale.

H. E. Fisher, Danville, Kan., will sell Wednesday, January 22, 60 head of purebred Duroc-Jersey hogs, consisting of 25 sows bred to the famous Graduate Col. 15 of which are his best tried herd sows. Included also will be summer and fall gilts. The offering will be unusually high class. Mr. Fisher's herd is strong in the Col. and Ohio Chief blood, and these good sows mated with the famous Graduate Col. should be of much interest to the breeders of the Southwest. Here is the place to buy you a sow and raise you a Graduate Col. boar. Mr. Fisher sells at auction his home farm on the day of the sale. On the following day, Thursday, January 23, will be sold all the farm implements, and machinery together with a number of purebred and high grade Percherons, all of which are minutely described in a display ad of this issue. These purebred Percherons will likely be sold for much less than their real worth. They are

nearly all closely related to the champion Casino. For further particulars and catalogue write H. E. Fisher, Danville, Kan., mentioning Farmers Mail and Breeze.

### 300 Draft Horses at Auction.

The annual breeders' sale at Bloomington, Ill., January 28-31, 1913, will be held in large Coliseum building, heated and comfortable, even if at zero weather. Over 100 consignors from the very best breeders and importers of the country have listed horses. Fifty trotting-bred and Coach horses and 60 Shetland and Welsh ponies are listed for Friday, January 31. All of the very best breeding from the very best breeders. Among the larger consignors are the following: Ben Bolander & Son, 10 imported Percheron stallions and mares; Jas. Loonan & Son, 11 imported and home bred Percherons; D. Augustine & Son, Percherons; Wm. Richardson, 7 Percherons; W. C. Baughman, 8 Percherons; John Wilt, 8 Percherons and Belgians; D. S. Forest & Son, 8 Percherons; W. H. Ritter, imported Percherons and Belgians; A. V. Hodgson, Percherons; John H. Weaver, Percherons; Leigh Bros., Percherons; Wouff Bros., 10 imported Percherons and Belgians; Turnipseed & Stewart, Percheron stallions and mares; McClain & Son, from Ohio, 10 imported Percherons; Ed Miller, Percherons; W. W. Down, imported Percherons and Belgians; J. R. Pendergrast, Percherons; Al. Phillips, imported Percherons and 60 other Percheron consignors. In Shires and Clydesdales the list embraces the best lot ever consigned to this sale. Among the consignors are: J. K. Jones & O'Neill with 8 imported Shire mares; Rowe Bros., with Shires and Percherons; L. F. Boyle, Shires and Percherons; J. W. Otto, Shires; Chas. Miller, Shires; Ray Dorn, Shires; F. W. & C. H. Challand, Shires; A. L. Bryan, Shires; S. L. Good and others. There are not as many consigned as usual on account of lack of room for stabling so large a number as stalls in stables formerly occupied have been converted into garages, but this gave a chance for selecting only the top offerings for this sale. Mr. Hurt, the manager, says that on this account they are going into this sale with the very best bunch of horses that they ever offered. The catalog is

held in that part of the country this winter. In fact there will only be four or five Poland China sales in north central Kansas this winter. There will probably be 50 sows in this sale and it will be one of the best sales of strictly big type Polands to be held this season. Full particulars will be given in Farmers Mail and Breeze about the offering later on. Remember it is one of the real classy offerings of big type Polands. Mr. Hartman is an experienced breeder and this offering will be presented in the right form to do the purchasers good. Catalogs ready about Feb. 10.

### Bred Sows—Poland Chinas.

Lambert Bros., Smith Center, Kan., are proprietors of one of the top herds of strictly big type breeding in north central Kansas. Those who saw their Polands exhibited at Topeka last fall will readily agree to this we think. Their principal herd boar is Waechter's Referee, by Refereendum. He is a boar of great bone and scale. They also have two younger herd boars that are equally attractive. King Hadley by Smith's Big Hadley, and Bogartus 2nd by Bogartus. Among their herd sows is Helene, 3rd in class at Topeka, 1911, and 1st in class at Topeka 1912, first and sweepstakes over all breeds at Smith county fair, 1912, and the largest hog shown at Smith Center. At the present time they are offering some choice summer and fall pigs and bred sows. If you want choice bred sows don't fail to write Lambert Bros., Smith Center, Kan. Priced to sell. Mention Farmers Mail and Breeze.

### From One of the Best Herds.

Geo. P. Philippi, Lebanon, Kan., will sell Duroc-Jersey bred sows at Esbon, Kan., Saturday, Feb. 1. His advertisement appears in this issue. He is selling 34 head, 8 are tried sows that he is putting in to make up an attractive offering and the balance are fall and spring gilts. The offering represents some of the leading herds of northern Kansas and southern Nebraska and will be found well conditioned and in the best possible breeding form. A number of the tried sows are by Red Raven, a profitable sire owned by Mr. Philippi for a while. One of them is by Red Royal, he by Kansas Wonder. She has six spring gilts in the sale sired by Red Ruler and they are bred to a son of Model Hero, by Golden Model. There will be three fine gilts by Kansas Challenger. The spring gilts are by Queen's Perfection, Model B, Lengthy I, and other boars. Everything is bred to Mr. Philippi's herd boars for early spring farrow. The offering will be presented in good condition to do the purchaser good. Those who can't possibly attend may send their bids to J. W. Johnson in care of Geo. Philippi at Esbon, Kan., and the same will be carefully looked after. Ask for the catalog tonight.

### A Carefully Prepared Offering.

W. E. Monasmith, of Formoso, Kan., is one of the best known, as well as most successful breeders of Duroc-Jerseys in Northern Kansas. He always holds annual bred sow sales and the date of his coming bred sow sale is Jan. 29. It is advertised in this issue of Farmers Mail and Breeze and if you are interested in Duroc-Jerseys at all it will pay you to look up his advertisement and write for his catalog at once and make arrangements to attend this sale. 10 fall yearlings, 20 spring gilts and five tried sows make up the offering which is one of real merit and one which should be appreciated and undoubtedly will be on sale day. The five tried sows are by Expansion and Kant's Echo. Expansion is one of the great herd boars at the head of Ward Bros.' herd at Republic, Kan. He has immense scale and is a splendid breeder. The fall gilts are by Valley Chief Again. Mankato Col., a G. C. Col. bred boar and they are bred to Kansas Special, the herd boar you have been hearing about and will hear more about. He was sired by Valley Chief, by Ohio Chief and has proven a splendid breeder and is deservedly popular with the breeders over northern Kansas in particular. 15 of the spring gilts are by Bancroft's Wonder, by Bonney K, the boar so long in Mr. Monasmith's herd and that he recently sold to Col. N. B. Price of Mankato. There will be a few choice gilts in the sale sired by A. C. Cross's herd boar, Prince Wonder 2nd, that are extra good. They will be bred to Kansas Special. One will be by old Model H owned by H. B. Miner, and whose get sold so well in Miner's fall sale. Catalogs ready now. Those who cannot attend may send bids to J. W. Johnson in care of W. E. Monasmith, Formoso, Kan.

### Samuelson Bros.' Two Sales.

February 5 and 6 are the dates of Samuelson Bros.' big two days sale of 95 Duroc-Jersey bred sows at Cleburne, Kan., and Blaine, Kan. They are of the opinion that the Cleburne sale will contain more sows that will attract breeders than the one the day following and would prefer the breeders attend the Cleburne sale sure and the one the day following if possible. Transportation will be free from their sale at Cleburne to the one at Blaine. One of the best offerings that will be made anywhere this season of fall gilts will be found in their sale at Cleburne. The spring gilts are likewise very choice. The sale at Cleburne will contain 10 tried sows, 22 yearling gilts and 23 spring gilts. The tried sows are selected from 50 good, tried sows and are everyone of them good producers. There will not be offered at auction this winter an offering of fall and spring gilts with more size or better individuals than will be found in Samuelson Bros.' sale at Cleburne on the 5th of February. The gilts were sired by White House King, Belle's Chief 2nd, Worthy Chief, Shepard 1910 Top, Col. C. G. M.'s Carl Col., Rollin J. Chief, Martial, Tatarax Again, Chief Orion. All are bred for March and early April farrow. They are bred to Worthy Chief by Belle's Chief 2nd, Chief Martial by Rose Chief, and Gold King by Golden Chief. As an attraction they have arranged to give away two five month's old pigs in a guessing contest. Their offering on

## Kansas and Nebraska.

BY J. W. JOHNSON.

In this issue F. C. Gookin, Russell, Kan., breeder of O. I. C. swine, is offering July gilts at \$20 each or will hold them and breed them at \$25. He is also offering pigs at eight weeks old for \$10 and they are eligible to register and he will prepay the express on them. Mr. Gookin is one of the well known breeders of O. I. C. hogs and is reliable. Write him for further particulars.

### Last Call Dawson-Wiley Sale.

This is the last call for Phil Dawson and W. E. Wiley's sale of big type Poland China bred sows at the live stock sale pavilion South St. Joe, Saturday afternoon, January 25th. Their advertising appears in this issue. Look it up and write them for their catalogue immediately. There will be some young herd boars in this sale in addition to the choice sows they are selling. The offering is one of unusual merit, and comes from two of the best known big type herds in Nebraska. If you are in the market for something good you will appreciate this offering.

### Forty Head of Good Durocs.

This is the last call for the John Higgins's sale of Duroc-Jersey bred sows and gilts at Abilene, Kan., Friday, January 24. If you have not already done so look up his advertisement in this issue and arrange to attend this sale next Friday. If you are interested in Durocs and the best of breeding and individuals you will be glad that you attended. Your presence is desired whether you are in the market or not, if you are interested. The offering numbers 40 head and they are a grand, good lot of young sows that will add strength and quality to any herd. Catalogs are ready to mail and your name and address brings one by return mail. Write tonight for the catalog. Come if you possibly can, but if you can't you can send your bids to J. W. Johnson of this paper with full confidence that you will be treated right. Such letters should be sent in care of John Higgins, Abilene, Kan.

### Hartman Sells Feb. 26.

J. J. Hartman, Elmo, Kan., has claimed Feb. 26 as the date of his Poland China bred sow sale which will be held at the farm, south of Abilene, Dickinson county, and about five miles north of Elmo, on the Missouri Pacific. The farm can be reached either from Abilene or Elmo. He is going to sell a choice lot of sows and it will be the only Poland China bred sow sale to be

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I would like February 25 as a date for bred sow sale. Please let me know at once if that date suits; if not, when would you suggest? Please don't discontinue your advertisement as I am nearly sold out on good ones. Please have ad stopped at once as I want those inquiries to quit till I have something to sell. Yours truly,  
W. R. HUSTON,  
Breeder of Duroc-Jerseys.



this occasion is far superior to anything they have ever made and will prove one of the best made in Kansas this season. It is an offering that any breeder has a right to be very proud of. Those who cannot attend may send bids to J. W. Johnson in care of Samuelson Bros., Cleburne, Kan.

#### A Good Duroc-Jersey Sale.

Munsell & Isenberg's sale of Duroc-Jersey bred sows at Herington, Kan., last Wednesday was held in the first storm of the season. Conditions were not good for drawing a big crowd, but there was a fair attendance of farmers and breeders who appreciated the firm's efforts and offering. Everything was sold and there were seven young boars that brought fair prices. The young sows were real bargains but brought an average of around \$36. The gilts while young were of the very highest quality and a credit to the men who were responsible for them. The writer has attended a good many sales in the last nine years, but this was the best conducted sale of fine stock of any kind we ever attended. Everything was ready and when Col. Brady took the block everything went off like clock work. The sale was made in a big tent which had been procured and comfortably seated with baled straw. There was a roaring fire in a stove in their hog house which was close by and Mrs. Munsell made every one welcome at their nice home. This firm made themselves many friends on this occasion. Some of the principal purchases were:

3-Henry Schrupp, Herington, Kan. ....	\$41
5-J. H. Dick, Woodbine, Kan. ....	31
6-Frank Johnson, Lyons, Kan. ....	40
7-C. Spangler, Dwight, Kan. ....	33
8-Jas. Schrupp, Herington, Kan. ....	35
9-Dr. Mott, Herington, Kan. ....	45
10-Jas. B. Haley, Hope, Kan. ....	35
11-Bruce Clark, Alta Vista, Kan. ....	38
12-John Comp, White City, Kan. ....	32
13-C. L. Fry, White City, Kan. ....	32
14-Samuel Stone, Leonardville, Kan. ....	31
15-Wm. Taylor, Pearl, Kan. ....	24

#### Cochran's Shorthorn Sale.

One of the most attractive offerings of Shorthorn cattle ever made in the north central part of Kansas at least is the draft sale of 70 head that C. G. Cochran & Sons of Plainville, Kan., is making from their herd at that place. The sale will be held February 24 at Lamer's sale pavilion, John Higgins' Duroc-Jersey bred sow sale at Sallina, Kan., in order to better accommodate their patrons. The railroad facilities are good at that point and C. W. Lamer's sale pavilion one of the best in the west besides good hotel accommodations. The draft is selected from a strong working herd of over 500 head, which is without doubt one of the largest herds of registered cattle in the west. They have selected for this sale a classy lot of young cows and heifers and 15 young bulls of serviceable ages that will prove one of the strongest offerings of Shorthorns made in Kansas in a good while. The Cochrans have always found a ready sale for their cattle and this sale is ready made because they do not have a ready demand for everything they raise, but because they have a desire to try out the public sale system and because they would like to show a sample draft from their herd to the breeders and farmers of Kansas. Anyway they are picking an offering from this great herd that will look mighty good to the breeder who desires to strengthen his herd with a few choice animals this spring. Every cow will drop a calf early and is bred to one of the great bulls of the breed. In future issues we will have more to tell you about this offering in respect to breeding and individual merit. The catalogues will be ready to mail by Feb. 10 at least and you better write them tonight to book you for one as soon as they are out.

#### Carter's Duroc Bred Sows.

In this issue will be found the advertisement of Leon Carter's annual bred sow sale. In this sale Mr. Carter is putting 30 fall yearling gilts that have been reserved and bred for this sale. Also five tried sows and five spring gilts with a few fall boars and gilts. For the breeder who needs new blood in his herd this offering should be attractive indeed. This herd is one of the best known herds in central Kansas and is the outstanding herd in Mitchell county at the present time. About three years ago Mr. Carter decided to add new breeding to his herd and was a good buyer from eastern herds. One of his best purchases was that of Dreamland Col., by Waveland Col., the only boar that ever defeated B. & C's Col. for championship honors. The dam of Dreamland Col. was sired by Tip Top Notcher, the World's Fair champion and noted sire. About the same time he bought L. C's Defender, sired by old Defender, the grand champion at the International two years in succession. Most of the young sows are by one or the other of these great sires and bred to them to the best advantage. Others represent Golden Rule, Buddy K. 4th, B. & C's Col., Muncie Chief, River Bend Col. and others. Leon Carter is one of the careful, painstaking breeders that everyone likes to patronize. Every sow has been bred and handled exactly like she would be if Mr. Carter intended to keep her. Bred sows from this herd have always been noted for their "make good" ability and the offering he is making on the 30th of this month is one that you ought to see if you are in the market. The sale will be held at the farm which joins Asherville. A nice dinner will be served as usual and you can make the best of train connections from Beloit either east or west. Look up the ad which appears in this issue.

#### Kansas, Missouri and Iowa.

BY C. H. WALKER.

L. R. McLarnon, Braddyville, Iowa, will hold his annual sale of big type Poland China sows on February 28. Features of this offering include a string of yearling sows and gilts sired by Colossal, also a bunch of fine sows by the well known sire Big Orange and bred to Colossal. Look for announcements in a future paper.

#### Limerick & Bradford Jack Sale.

A. E. Limerick & Son and W. E. Bradford of Columbia, Mo., will hold a closing out sale of Jacks and Jennets at the E. G. Davis & Son's barn in Columbia, Mo., on Thursday, February 6. Forty head have been listed for this dispersion, including 25 Jacks of serviceable age and 15 Jennets. Every animal is registered. The Jacks are from 15 to 16 hands high, 2 to 6 years old,

and in good condition. These Jacks are the tops of three states. They were bought at weaning time and several of them cost over \$500 a head at 5 months old. The number includes herd headers and show stock. As it is a closing out sale everything will be sold without reserve. "You will find more Jacks in this sale with nine to 9½ inch bone than you ever saw in a sale of this size," is the way Messrs. Limerick & Bradford write of the offering. The catalogs are ready and will be sent upon application by mentioning this paper. Write for one today.

#### The Wray-Stanley-Hunt Sale.

B. T. Wray of Hopkins, Mo., A. O. Stanley of Sheridan, Mo., and B. O. Hunt, Ravenwood, Mo., three of Missouri's foremost breeders of big type Poland Chinas, have joined forces and will hold one of the season's most important bred sow sales. The sale will be held at Sheridan, Mo., on Thursday, January 30. Sterling Prince, Chief Price's Wonder, Panorama, Bell Prince and Dude's Jumbo are a quintette of boars that are well known as the heads of these herds. An offering such as these of breeders can put into a sale, and when that offering is bred to such top boars as those above mentioned, it means that breeders who attend this sale will have an opportunity to make selections from among the best the breed affords. Mr. Wray is the heaviest contributor, consigning 15 matured sows and yearlings and 15 spring gilts. Three daughters of the great Peter Sterling will sell bred to Chief Price Wonder. Three corks good gilts by Mabel's Wonder, the first prize boar at the Des Moines fair last year, and daughters of Longfellow King, Bell Metal, Sterling Prince and Bell Prince give an idea of the class of breeding stock Mr. Wray has selected. Eight head are contributed by Mr. Stanley which include daughters of Big Bone Mow, Giantess Boy, Prince of Giants and Pawnee Prince. These are all bred to Mr. Stanley's great show boar, Panorama. Miss Bell, a litter sister to Bell Prince, is also included. These sows have all raised fall litters of from 7 to 10 pigs and are right in every way. Mr. Hunt is also contributing eight head, five of which are daughters of his good boar, Bell Prince. These are bred to Dude's Jumbo, a son of Columbia Dude. The rest are bred to Bell Prince and include Wray's Best, the dam of Sterling Prince. The 46 head from these three well known herds constitute an offering that will be hard to equal. Each breeder has made a special effort to select his very best. Mr. Wray is the sale manager and catalog requests should be addressed to him at Hopkins. Write for one today and kindly mention this paper.

#### Robinson's Guaranteed Sale.

"If an animal is bought for you on mail bid and on receiving it you are for any reason not satisfied after letting the hog rest for four days you may return it to me express prepaid and upon receipt of hog I will at once refund to you the purchase price." This is the guarantee which F. P. Robinson of Maryville, Mo., will make on all hogs bought in his coming sale on mail order. His guarantee pertaining to the usual conditions of sale is just as liberal. Mr. Robinson has been making this strong guarantee on all the hogs he has sold at private treaty during the last three years and has yet to have the first one returned. His more than square deal by methods of doing business backed up by producing a whole lot better than the average class of big type Poland Chinas are the main reasons why the Robinson herd is considered one of the best in the country. On Wednesday, January 29, Mr. Robinson will sell 50 head of his mammoth Poland Chinas, the best lot ever offered from his herd. Pawnee Pete, weighing over the half ton mark at 3 years of age, a prize winner himself and a sire of winners, is the impetus of this sale. The offering includes 21 tried sows, 29 spring offering includes 21 tried sows, 29 spring and fall yearlings, the two herd boars, Prince Tom and Pete's Best, and 20 head of fall pigs, both sexes. Of this offering Mr. Robinson writes: "This offering has not been bought up for the purpose of making a sale but with the exception of four of them were all bred and raised by me. I also bred the sires of most of them, the dams of all but six, the granddams of about 75 per cent of them, and the great-granddams of fully half, and being, therefore, familiar with both the combination of blood and the individuals back of these animals, I assure you with full confidence

that they are the prolific big kind that have big litters of strong pigs with feeding qualities as good as any hogs on earth. I have been breeding Poland Chinas continuously for over 20 years with the object of getting them a little bigger and a little better than anyone else and I now claim that my herd has more size and weight combined with strong feeding qualities and show-ring finish than any herd in existence." To make individual mention of the many star attractions in this offering would either take up too much space or do an injustice to some meritorious animal. The offering is uniformly good throughout. They all have been vaccinated which should make them immune. This class of breeding stock sold with so liberal and broad a guarantee makes this sale one of the very best buying propositions of the year. Write Mr. Robinson today for his catalog. Please mention this paper when writing.

#### Kansas and Missouri

GEO. W. BERRY.

Searle and Cottle, Berryton, Kans., report that they are receiving many inquiries for their Duroc-Jesays. They can spare a few extra bred gilts, and are prepared to fill orders for fall pigs that are strictly choice individuals. Breeders or farmers wanting fancy pigs of either sex or pair not closely related, can order with confidence from this firm. Searle & Cottle are among the oldest and most successful breeders of Duroc-Jesays. They have one of the best equipped breeding establishments in the country, and their pigs receive good care and are well grown. Visitors will be met and are well grown. Visitors will be met at Topeka or Berryton if notice is received in time. Write them, addressing Searle & Cottle, Berryton, Kans., for further information.

#### Holstein Sale.

The dissolution sale of the Rock Brook Farm of Holstein cattle announced by Henry Glissman of Omaha, Neb., is one of the most important sales of this popular dairy breed for some time. The Rock Brook herd was established over 30 years ago by Mr. Glissman's father, and is one of the oldest and best known herds in the West. The sale of Holsteins from this good herd should attract the universal attention of dairy cattle breeders, especially at this time when this great breed of heavy milking cows is growing rapidly in popular favor. This sale which will be held at Omaha on February 4 is a splendid opportunity for breeders and farmers to purchase choice cows and heifers and herd headers richly bred and from a great producing herd.

#### Lavelock's Hampshire Sale.

Attention is directed to the sale of Hampshire hogs announced by T. W. Lavelock at Ottawa, Kans., of January 23. The large offering of sows are bred to such good boars as Widow's Model and Kansas Model. The sows that will be sold represent the best line of breeding and such noted sires as Prairie King one of the greatest boars of the Hampshire breed, the great show boar Widow's Model, one of the best large boars and other good ones. The offering has been carefully selected and reserved from one of the largest and oldest herds in the West. This breed is growing rapidly in popularity, and of late years has been a prominent factor in the large stock shows. If interested in this thrifty breed, do not neglect the opportunity offered by Mr. Lavelock at Ottawa on Jan. 23.

#### King the Col. Duroc Sale.

The sale of Duroc-Jersey bred sows announced by O. S. Larson & Sons at Logan, Iowa, January 30, is one of the most important hog sales that will be held during the year. The offering represents one of the very best herds of Durocs that the writer ever had the privilege of seeing during several years of visiting the good herds of the breed. The genuine success met by O. S. Larson as a breeder places him in the front rank of the swine breeders of America. His achievement as the breeder of the sensational boar Col. Gano, alone created a national reputation. The purchase of King the Colonel, one of the very great Duroc sires, from S. E. Morton, was a master stroke by Mr. Larson and added fame to his herd. Every admirer of Durocs would feel proud of the breed on seeing the Larson herd of brood sows which are unsurpassed for size, smooth-

ness, finish and correctness of type. The sale of King the Col. at a record price is remembered and the re-purchase of a half interest in this boar by Mr. Larson occurred recently. King the Col. is now owned jointly by Mr. Larson and C. W. Huff. Liberty Chief, pronounced by good judges to be the best living son of the celebrated Ohio Chief, was bought lately and added to the herd. He combines immense size with an arch of back, hams, bone, feet, pasterns, style and evenness of lines that cannot be criticised. The very best results are confidently expected from

#### LIVESTOCK AUCTIONEERS.

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Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write for dates.

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Col. N. B. PRICE, Mankato, Kan. LIVESTOCK Auctioneer. Phone or write for dates. Bonney K. heads my Duroc-Jersey herd.

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#### ABERDEEN-ANGUS.

Angus Bulls For Sale  
sired by Rutger Heatherson 3d 118104, Presto 2d 133774 and Professor Kurtz 135693. Ready for service including two choice Blackbirds. Priced right. Satisfaction guaranteed.  
W. G. DENTON, DENTON, KANSAS.

#### ANGUS CATTLE

Bulls and females for sale; singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

#### SHEEP.

BRED EWES FOR SALE.  
Having sold our ranch we will sell our flock of purebred SHROPSHIRE ewes bred to lamb in March. Have 300 head; will sell one or carload. Here is a chance to make 100% on your investment the first season. Call or address  
R. A. LOUGH, OSBORNE, KANSAS.

#### SHEEP FOR SALE!

125 fine, large, blackfaced Shropshire Ewes, all bred for early March lambs, by large Shropshire rams. Ages 1 to 5 years. Well woolled, thrifty and big money makers. A car load. Come at once. Address, MT. PLEASANT STOCK FARM, Washington, Kansas.



OTT'S BIG ORANGE

Ott's Big Orange 63128, a masterpiece of big type Poland China breeding. Bred and owned by J. O. James, Braddyville, Iowa. Sired by Big Orange. Dam, Ott's Choice by Pawnee Lad. Ott's Big Orange has been pronounced by good judges one of the most promising young boars of the breed. With wonderful size, weighing over 500 pounds at 12 months, he combines quality, smoothness, style and finish and correctness of type and the masculine qualities of a great sire. By Big Orange, the well known sire of so many high class boars, and out of a daughter of Pawnee Lad, a boar that proved a prominent factor in big type breeding, Ott's Orange is bred close up, not remote, to the great sires that have made recent Poland China his-

tory. Breeding an outstanding sire is an achievement of which any breeder may be proud. The production of an animal that shows an improvement or at least retains the excellence of the parents entitles the breeder to distinction. Ott's Big Orange is not an accident. The mating of the matronly daughter of Pawnee Lad to Big Orange was a piece of constructive breeding by J. O. James. Those who attend the sale to be held by Mr. James on February 7 at Braddyville, Iowa, will have the opportunity to purchase some very choice sows bred to Ott's Choice, and others bred to his noted sire Big Orange, and others bred to Big Sensation. Read the advertisement elsewhere in this paper and send for the sale catalog, addressing J. O. James, Braddyville, Iowa.



## DAIRY CATTLE.

**HOLSTEINS FOR SALE**—30 head of registered heifers and males, also 13 head of fine bred heifers and young cows, \$35.50 and up. Come and see them. **M. F. KNUDSEN, CONCORDIA, KANSAS.**

**BALDWIN DAIRY.** 25 gallon route. Address owner or phone 194. **ADDISON AULT, Baldwin, Kansas.**

**Public Sale** Holstein Cows and heifers, Jan. 22, 1913. Also heavy draft mares, and 1 grade stallion. Sale at farm 2 mi. south of Holton, Kan. Col. H. F. Erdley, Auct. **G. F. Mitchell.**

**BANKS' FARM JERSEYS** Quality with milk and butter records. One of the best sons of **CHAMPION FLYING FOX**, imported, at head of herd. Stock for sale. **W. N. BANKS, Independence, Kan.**

**LINSCOTT JERSEYS** Only registered herd of merit in Kansas. A grand son of Golden Fern's Lad—bred for butter—and 20 cows and heifers for sale at moderate prices. **R. J. LINSCOTT, HOLTON, KANSAS**

**OAK HILL HOLSTEINS** Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. E. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. **BEN SCHNEIDER, NORTONVILLE, KAN.**

**HOLSTEINS**—CHOICE **BULL CALVES** **H. B. COWLES, TOPEKA, KANSAS.**

**HOLSTEINS FOR SALE** Bred yearling heifers; 2-year-olds, fresh this winter; a few young cows, milkers and springers; also bulls, high-grade and registered, up to 18 months of age. **IRA ROMIG, Sta. B., TOPEKA, KANSAS.**

**Holstein-Friesian Bulls** For sale—choice young bulls, sired by Pierterje Hangerveld Nannette, first prize bull 3 state fairs, 1911, from producing cows. Exceptionally fine markings. **W. C. Jones, Rural 2, Topeka, Kan.**

**Holsteins!**

I will sell the following high grade Holsteins, many of them practically full bloods, and in good condition: 50 yearling heifers and 50 1½-year-olds heifers just being bred to a son of a 24 lb. dam; 100 2 to 2½-year-old heifers and 100 2½ to 3-year-old heifers bred to a high class registered bull, to freshen from Dec. 1st, 1912, to March 1st, 1913. 100 matured cows, very heavy producers, springing up ready to freshen soon, most of them in calf from registered bulls. A number of high colored registered bulls, ranging in age from 6 months up, out of heavy producing dams, and selected especially to head choice herds. Can fill any order from one animal up. Have a small surplus of excellent registered cows and heifers. I will dispose of. Also have 100 head of high grade Guernsey cows and heifers from yearlings up. Write me regarding your wants. **JAMES DORSEY, Gilberts, Illinois**

## GALLOWAYS.

**G. E. CLARK, W. W. DUNHAM, CAPITAL VIEW GALLOWAYS.** 15 Miles West of Topeka. Can furnish car of good bulls ranging in ages from calves to 2-yr-olds. Can suit your wants. Write **CAPITAL VIEW RANCH, Silver Lake, Kan.**

**Fort Larned Herd**

40 REGISTERED BULLS. 20 GALLOWAYS and 20 RED POLLS, 10 to 20 months old. Priced to sell. **E. E. FRIZELL, LARNED, KANSAS**

## HEREFORDS.

**BLUE GRASS STOCK FARM** Herefords Cows, Heifers and young bulls for sale. 160 head in herd. Breeding matrons by Millant, Lampighter, Shadeland, Dean 22d, Gentry Briton 6th, Hesiod 2d and Wilton Almo 6th. Visitors Welcome. **W. T. WRIGHT, Route 8, Mt. Pleasant, Iowa.**

**Klaus Bros.' Herefords!** We offer 16 head of strong, rugged bulls, herd header material, ready for service, sired by Fullfiller 3rd, Fullfiller 25th and Beau Onward. Priced right and worth the money. **KLAUS BROS., BENDENA, KANSAS.**

**Mathews' Registered Herefords**

For sale. 36 bulls, 9 to 21 months old and 20 early spring heifer calves. The kind that will make you money. **FRED MATHEWS & SONS, Kinsley, Kan.**

**Star Breeding Farm**

**HEREFORDS** Headed by Topphon 4th. 30 Bulls, 14 to 30 mos. Single or carloads. Can spare a few females in lots to suit buyer. **DUROCS** Of most fashionable breeding headed by Model Top 77405. Choice individuals of both sexes for sale at all times. **Sam'l Drybread, Elk City, Kansas**

**Modern Herefords**

**ROBT. H. HAZLETT** Hazford Place **Eldorado, Kansas**

the use of Liberty Chief in the Larson herd. The sale on January 30 includes 13 sows bred to King the Col., and the balance to Select Chief, Golden Model 2d and Liberty Chief. There are nine tried sows and yearlings of unusual size and quality, and 31 fall and spring gilts of superior size, extreme finish and correct type. Their equals of like number and quality have not been seen for some time, and it is safe to say that no other offering of such growth, uniformity and truthness of type will pass through an auction ring during the year. The catalog will be mailed upon application to O. S. Larson, Logan, Iowa.

**C. W. Huff's Duroc-Jerseys.** The writer enjoyed the privilege recently of a visit to the farm of C. W. Huff, Mondamin, Iowa, breeder of Duroc-Jerseys, and owner of half interest in the noted boar, King the Col. Mr. Huff has decided to offer his bred sows at private treaty instead of holding a public sale. He has 25 extra sows, about half of which are bred to the great King the Col., and the other half to Col. Willetta the Junior champion Duroc boar at Des Moines, 1910. King the Col. is owned jointly by Mr. Huff and O. S. Larson. We saw this boar at Mr. Huff's place, and do not regret the time and trip to see this famous Duroc sire. A high estimate of King the Col. was raised higher upon seeing his splendid son, Col. Gano, at the breeding establishment of Mr. Seddon. The sows offered for sale by Mr. Huff, safely bred to a sire of the demonstrated merit of King the Col. should be met with ready buyers. Col. Willetta is a boar of the most popular Duroc type, combining size, thickness, lowness to the ground, style and finish, and carries a wonderful, strong, wide level back. If interested in high class Durocs write C. W. Huff, Mondamin, Iowa, for descriptions and prices.

**Galloway Bulls.** G. E. Clark, proprietor of Capital View Stock Ranch, Topeka, Kan., advertises registered Galloway bulls of most all ages. Mr. Clark is the owner of one of the largest herds of this breed. He has always used the best sires obtainable regardless of distance and expense. Among the great bulls that were used in this herd may be mentioned the \$2,000 imported Campfollower, the splendid show bull Meadow Lawn Medallist, and Starlight 2nd of Tarbrooch, the latter having been used with marked results by the late Mr. G. M. Kellam. The present herd bulls are Meadow Lawn Medallist; Master of Capital View, a bull of wonderful individuality, bred by Mr. Clark; and Eve's Campfollower, Coza's Campfollower and Adelaide's Campfollower, a trio of well bred ones, by Imp. Campfollower. The cow herd shows most careful breeding and, it is safe to say, is one of the best producing herds among the best breeds. While the herd is one of the largest among the numerous large herds of this breed, Mr. Clark does not care to sell any more females at present, preferring to keep his farm of 1,400 acres well stocked with cows for the production of the better class of bulls for which there seems to be a growing demand.

**Buster Black Berkshires.**

C. G. Nash reports his herd of Berkshires in winter quarters and doing well. In a letter received at this office Mr. Nash states that he is receiving many inquiries for Berkshires. Among recent transactions may be mentioned the sale of a herd of Legal Again, to F. E. Dutton of Penola, Kan. Mr. Nash writes that he has on hand a bunch of choice young boars including four of one litter, six months old, that are the best he ever bred or owned. These were sired by Progressive Duke a splendid son of the noted Berryton Duke, Jr., and tracing a number of times to Black Robinhood a famous Berkshire sire. A few extra gilts can be spared. These are from the fine, large matrons for which the Nash herd is justly noted. Buster Black, one of the boars in service is one of the largest and heaviest boned boars of his age that has been shown on the state fair circuit in late years. The sows bred to Buster Black or Progressive Duke should make profitable investments. Many of young things in the herd are from sows sired by Master's Longfellow a great show boar and one of the best sons of the celebrated Masterpiece. Individually they are the kind with the size and substance required by farmers and they have the breeding demanded by the most exacting breeders.

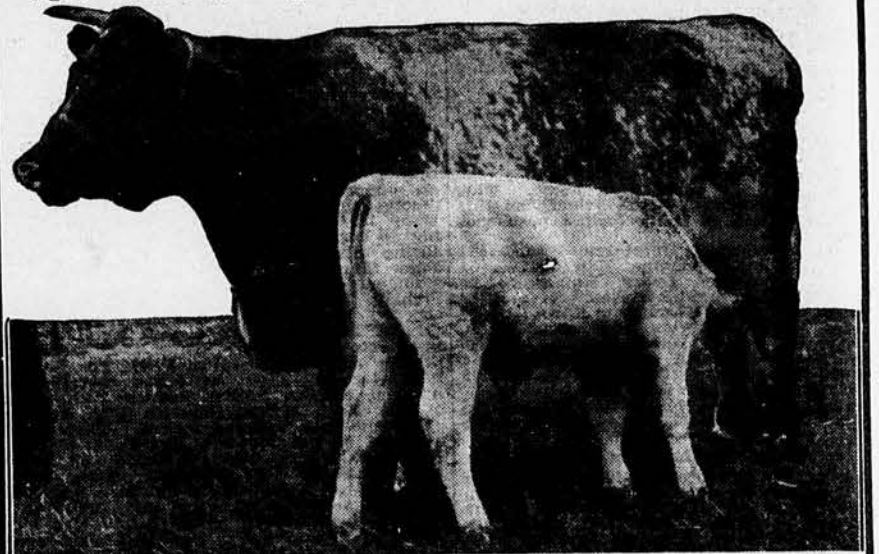
**Largest Strain of Poland Chinas.**

Breeders and farmers who are readers of this paper will be interested in the announcement by Podendorf & Rainier who hold a sale of the largest strain of Poland Chinas, at Logan, Iowa, on February 1. The character of the offering on this occasion should attract the universal attention of Poland China breeders. More than half of the offering consists of sows that were bred by or of sows bred to, the noted boar Chief Price Again, one of the largest and smoothest hogs in the world, weighing a half ton, and the sire of sons and daughters of 800 to 1,000 pounds and winners at the big shows, including Chief Again Price, grand champion at Nebraska State Fair, also a bunch of futurity winners at Iowa State Fair. Chief Price Again was shown at the Iowa fair in 1910, creating a sensation. Since then his reputation show ever held. Since then his reputation as a sire has eclipsed that of any other on account of the extraordinary size and smoothness and show yard quality of his get. Chief Price Again is owned jointly by A. J. Podendorf and Frank Rainier, who will make a combined offering of 50 head, including 48 bred sows and two fall boar pigs. Among the attractions contributed by Mr. Podendorf may be named Logan Surprise 3d, a big, smooth sow, weighing 650 pounds, bred to Chief Price Again. Her sire is Big Orange, and her dam is Logan Surprise, one of the greatest sows of the breed we have ever seen. Another daughter of Logan Surprise sired by High Price will be sold. Chief Princess 1st, a show sow that can win in the best company, was sired by Chief Price Again and her dam is a double granddaughter of Big Orange, and she is bred to Long Nelson, a hog with few equals and no superior of the big type. Sows by Fessenden's A Wonder, and others by Ellersbrook's A Wonder, and bred to Long Nelson or Chief Price Again, are among the attractions that are cataloged. The splendid offering made by Mr. Rainier includes Beauty Surprise and Logan's Surprise 7th.

**Lookabaugh's Shorthorns****Sold on Time at Private Treaty**

Six or nine months if desired. What we want is your trial order. We don't need the money. We want you to come and buy. We want regular customers and shall try hard to please you.

Young Heifers and Bulls at \$50, \$75 and \$100 each. Two Heifers and a Bull, not related, \$200 for the three. Herd Header Material is Scarce. We have a few. They are priced right. Come early and get first choice.

**Over 200 Head From Which to Select**

A great variety of prize winners and prize winning blood. Breeding stock of both sexes and all ages. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

**Cows with Calf at Foot and Re-bred.**  
**Richly Bred Young Things, Show Prospects.**  
**Handsome Young Bulls, Herd Header Material.**  
**Rugged Young Bulls, the Farmer and Stockman Kind.**  
In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address **H. C. Lookabaugh, Watonga, Okla.**

**Herd Established Over 25 Years Evergreen Crest Galloways**

Twenty cows and heifers for sale, either registered or high grades. All two years old and over are bred to Flagstaff 29235 and Sally's Othello 33696. Anyone desiring a herd of breeding cows should inspect this offering. Also two yearling bulls for sale. **J. & W. R. CLELAND, NEW HAMPTON, MISSOURI.**

**Holstein Cows and Heifers at Bargain Prices!**

On account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a carload. All tuberculin tested and bred to registered bulls. Also a few registered bulls ready for service. **ROCK BROOK FARM, STA. B, OMAHA, NEB.**

## SHORTHORNS.

**SHORTHORN CATTLE** POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. **Thos. B. Murphy & Sons, Corbin, Kas.**

**SHORTHORNS**

8 bulls from 12 to 18 months. Roans and reds. Scotch Tops. Address, **L. M. NOFFSINGER, OSBORNE, KAN.**

**Scotch and Scotch Tops**

A pure Scotch two-year-old bull and young bulls, Scotch and Scotch topped, of serviceable ages. Also a few good cows and heifers. **S. B. AMCOATS, CLAY CENTER, KANSAS.**

**Pearl Herd of Shorthorns**

I have a select bunch of young bulls from six to 20 months old, well bred, well grown and the making of good useful animals. They are both reds and roans. Can ship via C. R. I. & P., A. T. & S. F., U. P., and Mo. Pac. Address **C. W. TAYLOR ABILENE : : KANSAS**

## POLLED DURHAMS.

**Polled Durham Bulls**

Six well bred young bulls and a limited number of cows and heifers for sale. **C. M. HOWARD, HAMMOND, KANSAS.**

**Woods Polled Durhams**

Roan Hero Bulls and Heifers for Sale. Three bulls from 12 to 22 months old, a Mina, a Brawith Bud and a Necklace, two roans and a white of top quality and ready for service. Also a few choice yearling and two-year-old heifers. These will be priced right for quick sale. Come and see or write **C. J. WOODS, CHILES, KANSAS.**

## RED POLLED CATTLE.

**Foster's Red Polls**

Write for prices on breeding stock. **C. E. FOSTER, R. R. 4, Eldorado, Kansas.**

**RED POLLED BULLS**

and heifers by Actor 7781 and Launfal 18221. Cows large, plenty quality, represent best milking families. Also large type **POLAND CHINAS.** Pigs. Write or come. **CHAS. MORRISON & SON, Phillipsburg, Kan.**

## O. I. C. SWINE.

**EDGEWOOD O. I. C's.** Tried sows and nice lot of fall pigs. **HENRY MURR, TONGANOXIE, KANSAS.**

**40 Choice O. I. C. Pigs**

**STAR HERD O. I. C's.** Breeding stock of various ages, either sex. Best breeding r. sented in this herd. Write your wants. **ANDREW KOSAR, GLASCO, KANSAS.**

**JULY GILTS AT \$20** or will hold and breed at \$25. Pigs 8 weeks old at \$10, express prepaid. Breeding certificate with every pig. **F. C. Gookin, Russell, Kan.**

**O. I. C. 125 HEAD**

**HOGS** Pigs in pairs, Bred Sows and Service Boars **W. H. Lynch, Reading, Kansas.**

**Kent's Iowa Herd** 200 good lengthy heavy boned bred sows for sale from my great State Fair prize winning herd bred for March and April farrow. It will pay you to write me today for prices and the way I will ship these hogs before paying for them. **Thos. F. Kent, Walnut, Ia.**

**Neef's Cholera Proof O. I. C's.**

Boars of all ages from 8 weeks to yearlings. Also prize sows bred and gilts bred or open. Can furnish pairs or trios, no kin. Herd headed by O. K. Perfection, by O. K. Winner, and Neef's Oak, by White Oak. All stock priced worth the money. **Riverside Farms. JOHN H. NEEF, Prop. Boonville, Mo.**



**MULE FOOT HOGS.**

**Mule Foot Hogs** More premiums won in 1912, than any herd in the U. S. Bred sows, some extra spring farrow boars and pigs in pairs not related. Pedigrees furnished. **ZENE G. HADLEY, R. F. D. 5, WILMINGTON, OHIO.**

**HAMPSHIRE.**

**Pure Bred Hampshires** Inspect our herd or write for prices. Our motto is to please. **ALVIN LONG, Lyons, Kansas.**



**WRITE J. F. PRICE,**  
Medora, Kans.  
For prices on Pedigreed  
Hampshire Hogs

**REGISTERED HAMPSHIRE HOGS**

of various ages not akin; two registered and one grade Dutch Belt bulls, also 1 spotted Arab stallion. **C. W. WEISENBAUM, ALPAMONT, KAN.**

**Try The White Belts**

Special prices on boars. Sale of bred sows and gilts. **January 23, 1913**  
**T. W. Lavelock, Princeton, Kas.**

**DUROC-JERSEYS.****15 Duroc Sows and Gilts**

Kant Be Beat, Crimson Wonder, and Col-nel breeding, and bred to a splendid boar sired by King the Col. Priced reasonable and guaranteed as represented. **ARTHUR A. PATTERSON, Ellsworth, Kan.**

**Bonnie View Farm**

**Duroc-Jerseys: Boars and gilts.**  
**Plymouth Rocks: 100 cockerels.**  
**Searle & Cottle, Berryton, Ks.**

**Deep Creek Herd Durocs**

Extra choice early fall pigs now ready to ship from dams sired by State Fair Champion boars. Satisfaction guaranteed. **C. O. ANDERSON, MANHATTAN, KANSAS**

**BIG TYPE DUROC-JERSEYS**

Spring males at \$25; summer pigs \$10, trios \$25; fall boars, good ones at \$30 to \$40; yearling sows, open or bred. Every hog shipped on approval. Satisfied customers in 22 states. Red Polled cattle, cheap. **GEO. W. SCHWAB, CLAY CENTER, NEB.**

**TATARRAX HERD DUROCS**

The finest lot of Fall pigs we ever offered, either sex. Most of them by the Grand Champion Tatar-rax. Bred sows and gilts priced for quick sale. **HAMMOND & BUSKIRK, Newton, Kansas**

**College Hill Durocs**

Bred sows and gilts for spring farrow for sale. Popular breeding. Farm adjoins agricultural college. Prices right. **W. W. BALES & SONS, MANHATTAN, KAN.**

**FALL BOARS BY DREXEL'S PRIDE**

the sire of my show hogs. Spring pigs by him and Queen's Wonder 112317, a sensational Crimson Wonder Again yearling. All choice and priced right. **W. T. HUTCHISON, CLEVELAND, MO.**

**FISHER'S DUROCS**

"A chance of a life time." My entire spring crop sired by Old Graduate Col. and Crimson Prince at \$15 to \$25 each. Closing out. Don't delay. Write today. **H. E. FISHER, Danville, Harper Co., Kan.**

**Leon Carter, Asherville, Kan.**

Duroc-Jerseys. Oldest herd in Mitchell county. Plenty of new breeding in my bred sow sale Thursday, Jan. 30. 45 head. Write for catalog.

**Good E Nuff Again King 35203**

The great Duroc boar of the West heads our herd. 25 gilts and 20 boars sired by him. 8 tried sows and 12 fancy gilts bred to him for sale. Herd boars and show prospects a specialty. Prices right. **W. W. OTEY & SONS, WINFIELD, KAN.**  
"The Men with the Guarantee."

**Bancroft's Durocs**

We hold no public sales. Nothing but the best offered as breeding stock. Tried sows and fall yearlings bred. Spring gilts bred or open. Fall pigs, either sex. Pairs or trios not akin. Prices right. Customers in 6 states satisfied. Describe what you want. We have it. **D. O. BANCROFT, OSBORNE, KANSAS.**

**Stith's Durocs**

200 head from which to select. Fashionable blood lines. Strong in blood of prize winners. Let me supply you with show yard type or the farmer's kind. Sows and gilts bred to my herd header, Model Duroc, and other good sires. Fall pigs, pairs or trios, priced for quick sale. Write today stating your wants. **CHAS. STITH, EUREKA, KAN.**

**Duroc Bred Sows**

At private sale, bred to King the Col., a 1,000 lb. boar, Col. Willetta by Prince of Cois. and Col. Gold, a line bred Col. The big kind with lots of quality; bred for March and April litters. **C. W. HUFF, MONDAMIN, IOWA.**

two daughters of the great brood sow Logan Surprise and sired by Big Chief. They combine extraordinary size and smoothness. Mr. Rainier has cataloged 14 sows bred to the peerless Chief Price Again and 16 others bred to Big Wonder, an outstanding son of Ellersbrook's A Wonder. The two boars that will be sold consist of a fall pig, that is a herd header; and an October 10 pig sired by Long Nelson and from Logan Surprise, a prospective show herd boar. Breeders are urged to write for catalog and plan to attend this sale. The writer has seen the herds and can say that the offering merits the patronage of the most exacting breeders.

**Buy High Class Sires.**

Under date of January 6 Truman's Pioneer Stud Farm, Bushnell, Ill., reports sales as follows: "Last week we had the pleasure of selling to Mr. William Sampson of Will county, Illinois, the great Shire stallion 'Lilleshall Forester.' He is a grey, 4-years-old, one of the wide-as-a-wagon kind, standing on the very best of feet and joints, tremendous knees and hocks and good pasterns. It will be remembered by your readers that this horse was purchased by us at the Peterboro (England) Shire horse sale for 340 gs. He is perhaps the only son of the noted Lockinge Forest King that has been imported to this country. Mr. Sampson has been breeding Shire horses for many years and was at the International on the lookout for a horse good enough to stand at the head of his stud and decided that Lilleshall Forester was the only horse at the show that pleased him. He is an Englishman and knows what a good horse is. Arthur Bass of Box Butte county, Nebraska, has also purchased an outstanding imported Shire horse in Bury Skipper, 5 years old, weighing considerably over the ton, with extraordinary style and action and his conformation certainly entitles him to rank among the very best draft horses in his state." The Truman Pioneer Stud Farm catalog for 1913 is now ready for distribution and any of our readers who are interested in strictly high class horses—stallions or mares—should write for one. Please mention Farmers Mail and Breeze.

**Seddon's Col. Gano Duroc Sale.**

No doubt Duroc breeders will be interested in the sale announcement by W. H. Seddon of Persia, Iowa. His sale which will be held on January 31 includes 45 head, over half of which are sows sired by or sows bred to Col. Gano 103963, besides several that are bred to Grand Col., a son of Col. Gano. There are 27 head of choice sows, 16 of which are daughters of Col. Gano, bred to Model Select. Col. Gano combines the elements of greatness in a sire: Extraordinary size, quality and extreme finish. He is the smoothest and best finished big boar, weighing over 1,000 pounds, we have ever seen of the breed. He has an ideal head, broad and smooth between eyes, and a back that for arch and strength is marvelous, and fullness and width of loins, and breadth and depth of hams that cannot be criticised; and with all his great weight stands on the neatest and stoutest pasterns and nicely upon his toes. The young boar selected by Mr. Seddon to assist Col. Gano is Model Select, the best under year boar the writer has seen. His top, from crest to tail setting, is a model in smoothness and evenness, his side lines are faultless, and he stands upon feet and legs that are models of strength and elegance. To a beautiful head and ear is attached a body of great length without a crease or sign of a wrinkle. He is a son of Chief Select, considered one of the great boars in Iowa, and his dam was by Model Chief, a celebrated Duroc sire. Notwithstanding the fact that Model Select has done heavy service, he is at this time in splendid form, and should be fitted will be a formidable contender for the highest honors in the fall shows. Breeders who attend this sale will not regret the opportunity of seeing the two boars, Col. Gano and Model Select. Among the attractions may be mentioned "O. R.'s Fine Sow" by Advancer No. 1 by Old Advancer. The bunch of gilts should be seen to be appreciated. They are exceedingly uniform, are large for age, with lots of finish, and true to type. There are some outstanding gilts by Col. Gano, sisters and half sisters to the top boar of last year's sale. Another attraction, Queen Select, is a half sister to the young boar Model Select. Mr. Seddon takes excellent care of his hogs, and we found the herd in the very best condition. If interested in really high class Durocs, do not fail to secure the catalog, and attend the sale if possible.

**Missouri, Kansas and Iowa.**

BY ED. R. DORSEY.

We wish to call the reader's attention to the advertisement of W. Z. Baker of Rich Hill, Mo., breeder of prize winning Poland Chinas of the large type. Mr. Baker though young in years is one of the breeders that Missouri is proud of. Last fall he fitted up a few and went over to the state fair and to the American Royal and was exceedingly successful, winning among the old showmen that have followed the business for years. On February 21 he will sell 35 bred sows and four extra nice summer males and give buyers a chance to get some of this good prize winning breeding that is by Big Hadley and other prominent prize producers of the upper class. Mr. Baker is breeding 20 great big, smooth, tried herd sows for his own use and will book orders for early farrow and deliver at weaning time at one-half of the price of spring pigs sold in October. While the profits will not be so great, the sales will be quicker and besides it will save much express. Write Mr. Baker for his catalog of the February 21 sale as this is all that will be said about it in this paper.

**The Great A Wonder.**

February 6 is the great Fessenmeyer A Wonder brood sow sale at Clarinda, Iowa. No hog in hog history has the reputation of A Wonder. It is possible that he has made his owner more money than any one living hog. The owner says in the last three years A Wonder has earned him in money already loaned out \$5,000 besides the living for eight in family; besides he has done this with an average of 10 sows a year. In service fees alone

**DUROC-JERSEYS.**

**DUROC-JERSEY BOARS AT \$25.**  
I am making special prices now on spring boars sired by my state fair winners. Also a choice line of gilts bred to my prize winning herd boars. **CHAS. L. TAYLOR, OLEAN, MISSOURI.**

**BEAVER VALLEY HERD DUROCS.**

Boars and gilts sired by Grand Master Col. II 94903 (Grand Champion and sire of Col. II 94903 (Grand Champion and sire of winners at Oklahoma State Fair, 1911), Defender's Col. 112297, Autocrat 94765 and Muncie Col. 113779. Satisfaction guaranteed. **W. A. WILLIAMS, MARLOW, OKLAHOMA.**

**Duroc Pigs, \$9.00** **R. W. BALDWIN, Conway, Kansas.**

**Pleasant View Durocs.** Choice March and April boars. Write for prices. **T. P. TEAGARDEN, WAYNE, KAN.**

**FALL YEARLING BOARS** A few very choice ones: and fall and summer pigs at bargains. Bred sow sale February 8th. **P. C. GARRETT & SON, Bloomington, Nebraska.**

**A Fine Offering Bred Sows and Gilts** Also open gilts and summer pigs. Best of breeding. **R. C. WATSON, ALTOONA, KANSAS.**

**BIG TYPE DUROCS** Herd rich in blood of Col. Wonder, Buddy and Monarch families. 45 head tried sows and gilts in our bred sow sale, February 8. Stock all in fine, healthy condition. **MOSER & FITZWATER, GOFF, KANSAS.**

**Clover Dale Durocs**

Choice lot of sows bred to King of Cois. 3d. Boars ready for service and fancy bunch of fall pigs. Stock all in fine, healthy condition. **L. T. SPELLMAN, PAOLA, KANSAS.**

**ROYAL SCION FARM DUROCS**

Fashionably Bred Durocs, spring boars and bred gilts, by the great Graduate Col. Also sows and gilts bred to him. **G. C. Norman, Prop., Winfield, Kan.**

**MEADOW BROOK BERKSHIRES AT BURLINGTON, KANS.**

200 bred sows, all bred to Premier Longfellow, King's 2d Masterpiece, True Type, King's 4th Masterpiece, King's X Masterpiece (the greatest yearling we ever raised), Forrest Count, etc. One hundred open sows and twenty extra nice males. Two extra good herd boars for sale (every one deep in breeding and rich in blood). **E. D. KING, BURLINGTON, KANSAS.**

**POLAND CHINAS.**

**QUALITY and SIZE** Big, Smooth Polands, bred sows and summer pigs for sale. **LAMBERT BROS., SMITH CENTER, KANSAS.**

**BIG TYPE POLANDS**

Summer and fall pigs both sex, strong in the blood of Big Hadley and A Wonder. Sows and gilts, the big, smooth kind, bred for early litters. Description guaranteed. Call or write **A. R. ENOS, Ramona, Kas.**

**Schneider's Poland Chinas**

Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and Goldust Hadley. Also 10 head of yearling sows bred to these boars. **JOE SCHNEIDER, Nortonville, Kansas.**

**HARRY HOAK'S POLAND CHINAS**

A few large, Big Type boars, also some good sows and gilts bred for early litters. Fashionable Big Type breeding and priced right to buy. Call or write today. **HARRY HOAK, Attica, Kansas**

**Dean's Mastodon Polands**

Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Bred sows all sold. Will sell a few boars of serviceable age, also choice fall pigs, either sex. All

**Immunized by Double Treatment**

Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Address **CLARENCE DEAN, WESTON, MISSOURI**

**POLAND CHINAS!**

Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomer, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. **JOSEPH M. BAER, ELMO, KANSAS.**

**DUROC-JERSEYS.****SPECIAL OFFERING!**

40 head of Duroc-Jersey Sows at public auction, Friday, January 24, 1913. Write for Catalogue. **JOHN T. HIGGINS, Abilene, Kan.**

**Perfection Stock Farm**

Nov. boars and gilts, also 80 choice spring pigs, by State Fair grand and reserve champions. Pairs and trios not related. Ship on approval. Prices right. Write your wants. **Geo. M. Clasen, Union City, Okla.**

**BERKSHIRES.****Hazlewood's Berkshires!**

Choice spring boars and gilts priced to sell. Write today. **W. O. Hazlewood, R. 8, Wichita, Kansas**

**WAITE'S BERKSHIRES.**

Choice young Boars and Gilts, also tried sows. Best famous Redhead Blood. We guarantee satisfaction. Call or write **LEON A. WAITE, WINFIELD, KAN.**

**GOOD SOWS BRED**

to champions and grand champions. I also have some splendid fall pigs that I will sell single or in pairs no kin.

**C. G. NASH, Eskridge, Kan.**

**BERKSHIRES, SHORT-HORNS and JERSEYS**

FOR SALE—25 boars by Robinhood Premier 2nd or Rival's Lord Premier, and out of sows representing such sires as Imported Baron Compton, Berryton Duke and Premier Longfellow. Also a choice Shorthorn bull calf by Silk Goods and out of a show cow.

**W. J. GRIST, :: OZAWKIE, KANSAS**

**POLAND CHINAS.**

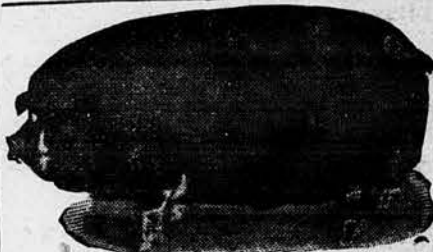
**PUBLIC SALE** of 40 high-class Poland China Sows to be held at Rich Hill, Mo., February 21st by **W. Z. BAKER.** Send for Catalog.

**Mammoth Poland Chinas**

My herd boars weigh from 800 to 1,000 lbs. Am now ready to ship 200 of the big, easy feeding, quick maturing kind. Tried boars and sows, last fall boars and sows, and spring pigs of both sexes. My terms are: If you are not satisfied return the hog, and I return your money. **F. P. ROBINSON, MARYVILLE, MISSOURI**

**WALBRIDGE'S****Poland Chinas**

If you are looking for bred sows I think so well of my bunch that I am willing to stand part of your expense to come and look them over. **L. C. WALBRIDGE, RUSSELL, KANSAS.**



A few fall males by Defender. Bred sow sale, Saturday, Jan. 25th, 1913. **PHIL DAWSON, SO. ST. JOE, MO.**

**Big Type Bred Sow Sale**

**Live Stock Pavilion, So. St. Joe**

**Saturday Afternoon, Jan. 25, 1913**

**25 Bred Sows and Gilts. 5 Young Herd Header Boars**

Sows are bred to such boars as Defender 54201, Skylark, the 1st prize yearling and champion of three state fairs, also winner of Kansas City Royal, Pan Defender and sows of equal breeding. One sow by "Old Expansion" in pig early March farrow. Several granddaughters of Old Expansion and many of the sows immune. The young boars are toppy big types and good enough to head good herds. For full particulars or bids write to

**PHIL DAWSON, Endicott, Neb.**  
**W. E. WILLEY, Steele City, Neb.**

**Col. Z. S. Branson, Lincoln, Nebr.** **Thos. E. Deem, Cameron, Mo.**  
**Chas. J. Foster, Severance, Kan.**



he has collected \$3,000. The thousands of dollars worth of pigs sold each year by Henry Fessenmeyer are raised on six acres of land and the residence, small orchard, garden and hog houses and his horse barn are on the six acre farm. If A. Wonder can do so much for his owner and his breeding is in such demand, then why not get more of it? Less than a year and a half ago we saw two litters of pigs sell for J. D. Gates of Ravenwood, Mo., by A. Wonder for \$1,300 and not only that but they were such a drawing that many came to buy the sons and daughters of the old hero and it helped Mr. Gates's entire sale. On the day before Mr. Fessenmeyer's sale is that of Williams Brothers at Villisca in the same county and the following day is J. O. James of Braddyville in the same county, and G. W. Seffrit's fine herd on the same railroad at Chariton, Iowa, giving prospective buyers a great opportunity in securing some of Iowa's largest and most popular breeding. The four herds are first class in every respect. Clarinda is in southeastern Iowa.

#### The Iowa Poland Circuit.

Pawnee Nelson 53478 by the greatest breeding boar in Iowa, Pawnee Lad by Klever's Best and out of Anna Price 2nd 14264 by Black Prince will in time have the breeding record of his enviable old sire. He weighs 925 pounds in just good strong breeding flesh, great length of body, broad hams, broad back and a broad head, short stout legs with a strong flinty bone of the right sort, straight smooth side lines, soft thin drooping ears with a smooth finished coat of velvety hair. His breeding means much to the breeding public as the foundation back of him is of the most noted great champions of both East and West. His owners, Williams Brothers of Villisca, Iowa, are the proud owners of this one of the leading Poland China boars of America and they have a right to appreciate him. On the 6th day of February this firm will sell sixty head of sows much like Pawnee Nelson in makeup as these men love this type and can please any body looking for the easy feeding kind that returns money readily and get big as all out doors too. It is our opinion they will sell the largest litter of sows both for number and size that will be sold in some time to come. Since the Williams sale is the opening of one of the most noted sale circuits of many years (followed next day by the big A. Wonder Sale in Clarinda, Ia.) we would advise all interested in a really first class money making, sensible kind to head in at the Williams Brothers Sale and if you have not received a copy of his Sale Catalog for the 6th of February just drop them a line for one now as that date will soon be here. No one will regret the trip to this Sale Circuit, you will be pleased with the offering and get to meet a nice bunch of breeders of the highest order.

#### They Sire the Winners.

On February 4 the Platte County Jack Sale Company, under the management of J. B. Dillingham of Platte City, Mo., will sell 50 jacks and 30 jennets. Platte county is one of the leading jack and mule counties of the world and has been for ages. At the great World's Fair at St. Louis in 1904 mules bred in Platte county and all sired by Platte county jacks won the following prizes, namely: first and third on mules 4 years old and over; first on pair of mules 16 hands and over; first and third on single mules 16 hands high and over; second on pair 16 hands and over; first on 3-year-old; first on three mules abreast to wagon; first on a four-mule team; first on a six-mule team to wagon; winning \$2,307 at this one show by Platte county mules. We state this to give the readers an idea of the kind of jacks that they may expect at this sale. We might add that one of the jacks to be sold in this sale, owned by Mr. Ben Moore, sired the first and third prize mules of the weanling class at the American Royal last year and also the first prize 2-year-old mule and the jack is now 2 years old. Others in this sale have sired state and county winners. The information can be had by sending to J. B. Dillingham for a catalog. Mr. Dillingham knows what a jack is. His old grandfather now over 80 years old is still a breeder and up to date. Mr. Dillingham is in every way a business man. He is advertising this sale in nine of the largest papers in the West representing nearly 1 million circulation and he is expecting visitors from nearly every state in the Union. Platte county is one of the richest in the state and for years has been a leader in jacks, saddle horses, cattle and hogs. If interested write Mr. Dillingham for catalog.

#### Iowa and Illinois.

BY H. W. GRAHAM.

Oakland Stock Farm was started some 10 or 12 years ago by Mr. Scott J. Miller, of Chillicothe, Mo., for the purpose of experimental breeding, starting with a line of jacks and jennets and foundation stock the best that could be bought. He bought all large, heavy boned, smooth black jennets with mealy noses and crossed them with jacks of superior quality. He now has his third herd jack, his second jack being Taxpayer out of a son of Imported Taxpayer, a very large jack. The present jack is 15-1, with a breast on him like a Percheron horse, weight about 1,200 pounds, standing square built with a high head, massive frame and long extended ears. Mr. Miller has his barns full of jacks, ranging from yearlings to 3-year-olds; some 10 head of 3-year-olds and an equal number of good 2-year-olds that he is offering for sale. They are the best blood that can be had; large, massive, smooth, high acting, good individuals, each of them representing different types of breeding; all broke and all gentle. It is hard to find as much good stuff on any one breeder's farm as is found in the barns on Oakland Stock Farm. The dams and sires are there; the buyer can see the coat, see what it is from and figure on what the outcome will be. He sells direct to the farmer and to the man who uses the jack and prices his stuff more than reasonably. A jack can be bought from \$400 to \$1,500. He can suit the man who wants the best, or the man of moderate means. This farm produces from 15 to 20 jacks each year, and any man can be suited. It would pay a man who desires to select his own jack to go to Mr. Miller's breeding farm. He prices jacks as a breeder and not as a broker. He invites inspection and



**Big Grace**  
700 lb. daughter of  
Pawnee Pete

## Robinson's Mammoth Poland Chinas

The home of the 1000 pound boars—700 pound sows—big Polands that are big—actual weight no guess work—the long, deep, heavy boned, easy feeding, quick maturing kind—extreme size plus extreme quality—I will sell 50 head of this kind at

**Maryville, Missouri, Wednesday, January 29, 1913**

The greatest lot of Mammoth Polands combining show ring quality ever offered—everyone carrying the biggest and best blood of the breed—everyone a great individual—50 head—21 tried sows—29 spring and fall yearlings sired by Pawnee Pete, Prince Ito, Big Pete, Prince Tom, Giant Dick, Sterling Prince, Spotted King and bred to Pawnee Prince, Prince Tom, Spotted King, Monticello Boy and Tom's Model—sows averaging 600 pounds, yearlings and gilts up to 500 pounds. Will also sell my herd boars, Prince Tom and Pete's Best, full brother to Pawnee Pete.

I know my hogs will suit the most critical. I believe it so strongly I have made a broad, liberal and ironclad guarantee that they suit or your money back. Read the field notes. Get my illustrated catalogue and read my guarantee also full and complete description of this great offering. Address, mentioning this paper

**F. P. ROBINSON, C. H. WALKER, Fieldman.**  
**R. P. HOSMER, Auctioneer. Maryville, Mo.**

#### POLAND CHINAS.

**LARGE WITH PLENTY OF QUALITY.**  
Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock.  
**OLIVER & SONS, DANVILLE, KANSAS.**

**A REGISTERED POLAND CHINA** male wanted, which has been used as herd boar, by a standard, well known breeder, who is obliged to change account breeding herd boar's gilts. Animal must be first class and not aged.  
**W. E. BROWN, OKLAHOMA CITY, OKLA.**

**80 Acres OF GOOD LAND** to exchange for a good herd of Registered Poland Chinas or Duroc hogs. **L. R. KERSHAW, Muskogee, Okla.**

**ROY JOHNSTON of South Mound, Ks.,**  
Sells Sixty Bred Sows, Jan. 20. Write for catalog.

**NEBRASKA TYPE.** A fine lot of summer and fall pigs by Hyden's Big Hadley 2nd, Pan Wonder and Neb. Chief. Bargains in the best. **C. C. Ingram, Bloomington, Neb.**

**POLAND CHINAS** Select young boars. Gilts, bred or open. Prices right. Call or Address **H. L. BROOKS, LARNED, KANSAS**

**HARTMAN'S BIG-TYPE POLANDS**  
Spring boars and gilts. Gilts bred or open. No fall sale. Three fall boars. Everything guaranteed.  
**J. J. HARTMAN, ELMO, KANSAS.**

#### Becker's Poland Chinas

Good spring boars. Fall yearling gilts, bred for early spring litters. Some nice spring gilts bred or open. Special prices on summer and fall pigs, either sex. **J. H. BECKER, NEWTON, KANSAS**

#### Polands—Barred Rocks

Summer and fall pigs by Referendum and J. C. Metal and out of choice sows. Priced to sell. Also 50 Barred Rock Cockerels.  
**A. N. Waechter & Son, Riverton, Neb.**

#### Fall and Summer Pigs For Sale

Sired by my Iowa boar. Extra good and out of my mature sows. Everything immune. Also Rhode Island Red cockerels for sale.  
**L. E. KLEIN, ZEANDALE, KANSAS.**

#### Big Type Poland China

**BRED SOW SALE JAN. 25.**  
45 head. Every one a good one. 35 head bred to the 1,000-pound Columbus.  
Send today for catalog.  
**R. B. BAIRD, CENTRAL CITY, NEB.**

#### Big Boned Bred Sows

March and February gilts sired by Gold Mine, bred to Pan Look and Wide Awake; also, tried sows bred to Gold Mine.  
**Dietrich & Spaulding, Richmond, Kansas.**

#### ALBRIGHT'S BRED SOWS AND GILTS

20 gilts bred to one of the good sons of Big Tom and Sensation; 8 tried sows bred to Cavett's Mastiff by King Mastiff. One extra good sow bred Oct. 16th.  
**A. L. ALBRIGHT, WATERVILLE, KAN.**

## 48 Big Type Bred Sows 48

The Largest Strain of POLAND CHINAS

**Logan, Ia. Feb. 1**

In new Sale Pavilion

#### A. J. PODENDORF

Will sell 14 Sows, 1 Boar, including 11 Sows sired by Chief Price Again and bred to LONG NELSON.

#### FRANK RAINIER

Will sell 32 Sows, 1 Boar, including 14 Sows bred to Chief Price Again, 16 sows bred to Big Wonder.



A. J. Podendorf.



Frank Rainier.

The offering comprises sows of extraordinary size, heavy bone and exceptional quality, with good heads and ears and style, the kind that Chief Price Again, one of the biggest, smoothest boars in the world, always sires. Half the offering were sired by, or are bred to Chief Price Again, the half ton boar and the sire of the 862 lb. yearling Chief Price Again, the Nebraska grand champion. The catalog will interest you. Write for it.

**A. J. Podendorf or Frank Rainier, Logan, Iowa.**

Geo. W. Berry, Fieldman.

Col. H. S. Duncan, Auctioneer.

**B. T. WRAY,**  
Hopkins, Mo.

**A. O. STANLEY,**  
Sheridan, Mo.

**V. O. HUNT,**  
Ravenwood, Mo.

Three of Missouri's Leading

## Big Type Poland China

breeders and whose herds are recognized as such, join forces in a bred sow sale to be held at

**Sheridan, Mo., Thurs., Jan. 30**

**STERLING PRINCE—CHIEF PRICE'S WONDER—PANORAMA—BELL PRINCE—DUDE'S JUMBO.**

A quintette of great boars to which this offering is bred—the get of these boars that have helped make these herds occupy the prominence they do will be found in this sale in their matured daughters and in the embryonic litters, which for the most part are due early. These boars, carrying as they do, the best blood of the breed and their known individual records as sires, insures buyers of the best. Aside from the well known boars mentioned above there will be daughters of Peter Sterling, Longfellow King, Bell Metal, Mabel's Wonder, Big Bone Mow, Pawnee Prince, Bell Prince, Pawnee Giant, etc. The catalogues are ready for mailing and will be sent upon request by mentioning the Farmers Mail and Breeze to

**B. T. WRAY, Hopkins, Missouri.**

H. S. DUNCAN, Auctioneer,

C. H. WALKER, Fieldman.



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**Oldenburg German Coach Horses**

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River. Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and mares of serviceable ages for sale. Write us. **JOS. WEAR & SON, BARNARD, KAN**

**PIONEER STOCK FARM**

We have on hands at all times Percheron, Belgian, Shire and German Coach stallions and mares from weanlings to 6 years old. Imported and home bred stallions and mares weighing up to a ton or better. They are priced to sell; am selling all the time. Can show you. Come and see.

**JOHN W. WADDILL & SON, (Adair County), BRASHEAR, MO.**

**50 - PERCHERON STALLIONS - 50**

Bishop Brothers have 50 big boned stallions that weigh 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business. We have them to sell. Write us. **BISHOP BROTHERS, Box A, TOWANDA KANSAS.**

**Imported Percheron Stallions, Jacks and Jennets**

FOR SALE: 5 Imported Percheron stallions 4 to 6 yrs. old and all tried and regular breeders. Can show colts. Weight 1800 to 2200 lbs., one Morgan stallion 7 yrs. old. Ten head large black jacks, one to seven yrs. old. All broke. Good performers. Can show colts and mares in foal. 10 head big black jennets all bred to our imported jack. Prices reasonable. Our horses and jacks were shown at the Hutchinson State Fair this year in six different classes and won in every class. Write or come to farm 4 miles from Raymond or Chase.

**J. P. & M. H. MALONE, CHASE, KANSAS**

**Bergner & Sons' Coach Horses**

**65 Head German Coach Horses, with Size, Beauty and Action**

A general purpose horse that fits the farmer's need. Write for further particulars. We are offering stallions at prices you will be able to pay for with proceeds of one season's stand. Also mares either single or in matched teams. Write or call soon.

**J. O. BERGNER & SONS, "Waldock Rancho," Pratt, Kan.**

**Imported Stallions: Percheron, Shire, Belgian**

Each year we show our New Importation the same Month they land. Each year they win more than all other Exhibitors combined. At the American Royal this year, we won 2nd on 4-year-old Percheron, 1st, 3rd and 4th on 3-year-old, 1st and 3rd on 2-year-old, and 1st and Champion Group of Five Stallions. Our Horses are Handsome and the best to buy; Our Guarantee and Insurance the very best.

**PERCHERON IMPORTING CO., Chas. R. Kirk, South St. Joseph, Mo.**

**ROBISON'S Percherons**

One hundred and fifty Registered Percherons — Stallions, Mares and Colts. Fifty imported. All for sale.

**J. C. Robison, Towanda, Kan.**

**Mammoth Jacks, Percheron Stallions****33 Head of Jacks and Percherons**

The Jacks are 3 to 6 years old and from 15 to 16 hands high.

Percherons are from 2 to 6 years old and weigh from 1800 to 2000 lbs.

**We have the kind that will please you.**

Write for prices before you buy. Farm and sale barn on 21st Street, 1 mile east of Wichita Union Stock Yards. Write today.

**J. C. KERR, Wichita, Kansas**

**W. H. Bayless-Dero & Co. Blue Mound, Kansas**

**Importers of Belgian and Percheron Stallions and Mares of all ages and Prize Winners in both Europe and America**

**We Have Fifty Head**

The last importation arrived December 28, 1912

The fifty head is as good as can be found on either side of the water. We have a buying partner in Europe who has a large breeding farm and many of our best horses are bred on this farm. He also buys in the dull season, and buys everything young and sound. We can sell a better horse for less money than those not favored with this advantage, as we are the only ones who are connected with a breeding farm in Europe. Any one wanting either Stallion or Mare will find it to their advantage to visit our stables. We price them to sell, not to invoice. A good guarantee goes with every sale. Reference, any Bank in Linn County.

**W. H. Bayless-Dero & Co., Blue Valley Stock Farm, Blue Mound, Linn Co., Kan.**

(Two Railroads, eight trains per day.)

**LAMER'S Percheron Stallions and Mares****75 Head**

of Imported and Home-Grown Percheron Stallions and Mares, at "let live" prices.

Two-year-olds that weigh a ton.



**C. W. LAMER & CO. Salina, Kansas**

**The West's Largest Importing and Breeding Establishment. Importers and Breeders of**

**Percherons, Belgians and Shire Stallions and Mares**

**120 Head to Select from**

Our Stallions and mares are strong and massive, with great quality, style and conformation, with splendid color and dispositions. They are selected with an eye single to the wants of the most critical American buyers, and we can sell them for less money than any one in the business, quality considered. The stallions will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Let us know your wants. We can suit you in both price and quality.

**L. R. WILEY, Emporia, Kan.**

**DON'T PUT IT OFF ANY LONGER, BUT COME AT ONCE AND PICK A**

**Percheron or Royal Belgian Stallion or Mare**

We have them to suit you if you are ever so discriminating. Our entries won 22 prizes at the late Nebraska State Fair; 3 champions, 8 firsts, 7 seconds, 2 thirds and 2 fourths. Prices are right. Photos from life on application.

**WOLF BROS.**

**Importers and Breeders**

**ALBION, Boone County, NEBRASKA.**

**They Are So Different!**

All Imported, both PERCHERONS and BELGIANS. Last importation arrived Sept. 1st. The selects of both countries. I buy my own horses. All sound, big, flat boned. Ages, two and three years. Prices reasonable. Perfect guarantee goes with each horse and for two years at that.

**W. H. RICHARDS, V. S., (Stables in the City) Emporia, Kansas**



## The Great Iowa Poland China Sale

OF THE WIDE AS A WAGON KIND

Villisca, Iowa, Wed. Feb. 5

**60 Head**

Of High Class Bred Sows of  
the Most Popular Breeding

**60 Head**

TWENTY-FIVE beautiful big high backed, heavy boned fall sows.  
TWENTY-FIVE handsome early spring gilts of same conformation.  
TEN of our private herd sows.

Bred to (PAWNEE NELSON 53478 (by Pawnee Lad out of Anna Price 2nd). BIG SAMPSON 58095 (by Sampson 53261 out of Big Standard 111322). IOWA KING 45837 (by M's Hadley out of Miss Clarinda by Long King). WONDERS BIG PROSPECT (by Pawnee Wonder and out of Long Mollie Hadley). Out of sows sired by W's Major 45324; Young Look 47722; Longfellow H 34522, Pawnee Price 47721, Chief Tec. 4th, 41880.

SEE THE BIG SAMPSON SISTERS (8)—Eight fall yearling sisters that weigh two tons.

Remarks: For a number of years we have been holding, as the public knows, the very best breeding and as good as can be found anywhere. Early in the spring our hogs had the swine plague and now they are immune forever. By being in pig by hogs that are immunized it is a positive guarantee that the offspring will never have the disease.

VILLISCA is on the main line of the Burlington R. R. Write for catalog, come to the sale, spend a day or two in Iowa among the breeders and be our guest.

**WILLIAMS BROS., Villisca, Iowa.**

H. S. Duncan, Auctioneer. E. R. Dorsey, Fieldman.

P. S. Next day is the A WONDER brood sow sale at Clarinda.

## Sixth Annual Sale Duroc-Jersey Bred Sows and Gilts

GOLDEN RULE STOCK FARM  
Ashville, Kan., Thurs. Jan. 30

The offering will consist of 10 tried sows, 30 fall yearlings, 5 spring gilts, 5 fall gilts and 5 fall boars of the leading strains of blood. All are good individuals and the fall yearlings are very even and well grown out, the spring gilts are not large but are nice and smooth, while the fall gilts and boars are extra nice with plenty of size and quality. The sows and gilts are sired by a number of the good boars of the breed and are bred for early farrow, to Dreamland Col., L. C.'s Defender and River Bend Col., three as good boars as can be found in the West. Some of the sows are show prospects and if you are looking for something nice don't overlook this sale. These hogs have been fully immunized so there is no danger of cholera ever killing any of them, which makes them a safe investment. Don't overlook this fact. Write for catalog and plan to attend this sale. If you cannot attend send bids to J. W. Johnson in my care and they will be fairly handled. Dinner at 12 o'clock. Sale will begin promptly at 1 p. m.

**LEON CARTER, Proprietor.**

Col. John Brennen, Col. Will Myers, Col. N. B. Price,  
Auctioneers.

J. W. Johnson, Fieldman.

## MONASMITH'S Annual Sale Duroc-Jersey Bred Sows FORMOSO, KANSAS, Wednesday, Jan. 29th

Ten choice Fall yearlings, 20 picked Spring gilts, 5 proven brood sows. Five of the Fall gilts are by Valley Chief Again and bred to Kansas Special. Four are by Mankato Col. and bred to Kansas Special. Fifteen of the Spring gilts are by Bancroft's Wonder, by Bonney K and are bred to Col. Gene 2d by B. & C.'s Col.. Also a few choice Spring gilts, by Prince Wonder 2nd and bred to Col. Gene. 2nd, by Climax 2nd, one by Model H and bred to Kansas Special.

### Everything Immunized With State Serum

The above offering is one that has been carefully handled by an experienced breeder and will be sold in perfect breeding condition. The breeding is good and plenty of variety. Catalogs ready to mail now. Ask for one at once. Address,

**W. E. MONASMITH,  
Formoso, Kansas.**

Auctioneers: John Brennen, Esbon; N. B. Price, Mankato; C. A. Landreth, Republic; J. W. Johnson, Fieldman.

## 80 HEAD OF Jacks and Jennets



TO BE SOLD BY THE  
Platte County Jack Sale Company

Platte City, Mo., Tues. Feb. 4

FIFTY JACKS from 14½ to 16 hands high, ages from YEARLINGS to MATURITY, (some of the best Jacks on earth to be sold in this offering.)

THIRTY JENNETS, all ages. A few to be sold with Jack Colts at foot.

THIS SALE REPRESENTS STATE FAIR AND AMERICAN ROYAL WINNERS and Sires of the AMERICAN ROYAL winners:

Lovers of High Class Jacks and Jennets will appreciate this offering. Not only PLATTE COUNTY will appreciate this good lot but the entire state and other states that have contributed will be proud of it.

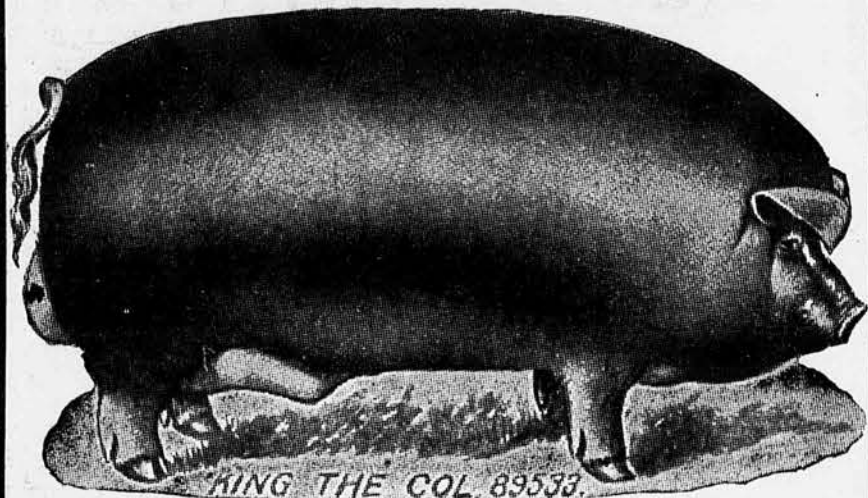
Remarks: Each contributor will give his personal guarantee. Each animal sold subject to inspection. Prospective buyers are invited to come the day before.

Catalogs: The catalogs are now ready for distribution. The Manager has no list, just drop him a card if interested. The Sales Manager, J. B. DILLINGHAM of Platte City, Mo., will give you any information by writing him.

DILLINGHAM SELLS ONE HUNDRED POLAND CHINA SOWS FEBRUARY 15TH.



## O. S. LARSON & SONS'



### Duroc Bred Sow Sale!

In New Sale Pavilion.

**LOGAN, IOWA, Thurs., Jan. 30**

**40—Tried Sows and Fall and Spring Gilts—40**

Sired by KING THE COL., B. & C's Col., Grand Master Col., GOLDEN MODEL 11th., COL. WILLETTA, COL. GANO—all of national reputation.

Dams:—CRIMSON LADY, TOPNOTCHER PET, CRIMSON BELLE, LUCILLE, MODEL ADVANCE, CRIMSON LADY II—all famous brood sows.

The offering includes 18 sows bred to the great KING THE COL. 1, 14 sows bred to Select Chief, a splendid son of CHIEF SELECT, 3 sows bred to Golden Model 11th, the Nebraska State Fair winner; 3 sows bred to LIBERTY CHIEF, the great 1000-pound son of OHIO CHIEF. A rare selection of high-class sows combining great size, quality, style, finish and breed character, exceptionally uniform and true to type. Descriptive catalogue with full information will be sent upon application. Write for it.

**O. S. Larson & Sons, Logan, Iowa.**

AUCTIONEER, COL. N. G. KRASCHEL. FIELDMAN, GEO. W. BERRY.

## EXTRAORDINARY TWO DAYS SALE Duroc-Jersey Sale Danville, Kansas Wednesday, January 22

70 HEAD—20 tried sows, 5 spring gilts, 20 summer and fall gilts, 25 spring, summer and fall boars. Most of these sows and gilts are bred to the famous

**GRADUATE COL.**

and most of the young boars and gilts are by him. Think of it! Fifteen head of tried herd sows as good as can be found anywhere. They are built on a foundation of Ohio Chief and Col. blood, and are all immune and safe in pig to Graduate Col.

**THE HOME FARM SELLS AT AUCTION.**

160 acres well improved, good, deep, rich soil, running water, natural shade and all in a high state of cultivation except the tame pastures.

**THE HORSES AND FARM MACHINERY SELL  
THURSDAY, JANUARY 23.**

Four Purebred Percherons and 10 high grade Percherons, also four good drivers. One span of big 6-year-old purebred Percheron mares bred to a good son of Casino. One good 2-year-old purebred Percheron filly and a 5-year-old son of the Champion Casino.

**IMPLEMENTS ALL SELL.**

One Minneapolis Gas Tractor, new July, 1911.

One John Deere Engine Plow, 6 14-inch bottoms.

One 32-inch Case Steel Separator, new this season.

One Ely Power Hay Press, nearly new.

One O. S. Kelley Duplicate Feed Grinder with alfalfa hay attachment. For Catalog and full particulars write

**H. E. FISHER, Danville, Harper Co., Kan.**

All parties from distance stop at Argonia, Kan.

A. B. HUNTER, Fieldman.

## A Wonder BROOD SOW SALE!

**Clarinda, Iowa,  
February 6, 1913.**

**30 Sows Bred to  
A WONDER  
The Best Known Big  
Type Boar Living**

**10 Sows Sired by  
A WONDER  
and Bred to BIG JOE, a Boar  
of Great Size and Finish**

This offering comprises the choicest selection of tried sows and gilts I have ever sold. The sale includes a fine bunch of spring gilts, sired by Big Joe, a boar combining great scale, fine quality and extreme finish, the World's largest yearling.

The gilts are beauties, will average near 375 lbs. and are bred to the peerless big type boar, A Wonder, the most widely known boar of the breed. The tried sows are sensational in size and quality, and will be admired and make attractions wherever they are purchased. Write for catalogue.

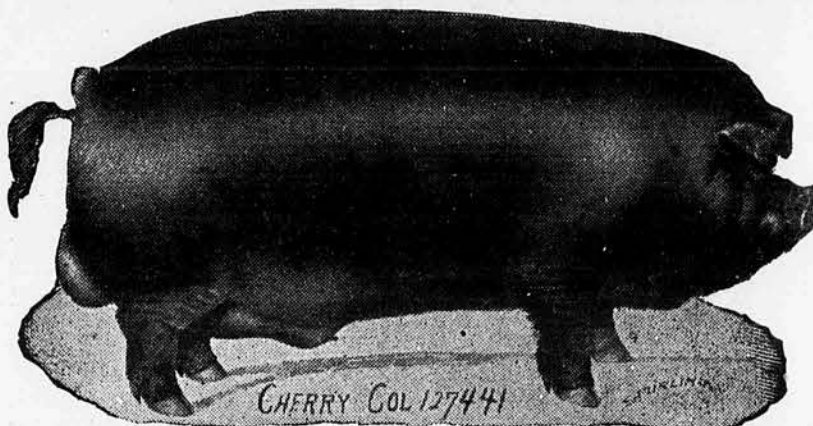
**HENRY FESSENMEYER,  
Clarinda, Iowa.**

COL. H. S. DUNCAN, AUCTIONEER.  
G. W. BERRY and E. R. DORSEY, FIELDMEN.

## HIGGINS' Great Brood Sow Sale

**Abilene, Kansas, Friday, Jan. 24**

**40 head choicely bred sows and gilts 40**



**10 tried sows and 30 fall and spring gilts**

They are sired by such boars as the Professor, Good Enuff Again, King the Col., Crimson Wonder Again, Valley King, and other prize winners. They are bred to Cherry Col and Good Enuff Model 2nd, two of the best high priced young boars sold the past season. Send at once for our illustrated Catalogue, describing the offering. Sale held in heated building, on Fair Grounds. Free Hotel accommodations.

**JOHN T. HIGGINS, Abilene, Kans.**

COLS. REPPERT & BURTON, AUCTIONEERS.  
J. W. JOHNSON, FIELDMAN.



## 95 High Class DUROC SOWS

**Samuelson Bros. Annual 2-Day Sale**

**Cleburne, Kans.  
Feb. 5**

**55 HEAD**

Consisting of 10 tried sows, 22 yearling gilts and 23 spring gilts, sired by White House King, Bell's Chief 2nd, Worthy Chief, Shepherd's 1910 Top, Colonel C., G. M.'s Carl Col., Rollin J., Chief Martial, Tattarrax Again and Chief Orion. All bred for March and early April farrow to Worthy Chief, by Bell's Chief 2nd; Chief Martial, by Rose Chief, and Gold King, by Golden Chief.

**Blaine, Kansas.  
Feb. 6**

**40 HEAD**

Consisting of 15 tried sows and yearling gilts and 25 spring gilts. Sired by Clyde, Chief Boy, New Model; White Mouse Martial and T. B.'s Col. Bred for March and April farrow to White House Martial, by White House King; Valley Col. by Blue Valley Chief and S. B.'s Col., a grandson of G. C.'s Col.

The tried sows are selected from our herd of over 50 producing sows and are in their prime, and will go on producing for years to come. The yearling gilts are a carefully selected lot and with not a cull among them, and are as good a bunch as we ever raised, and we think there will be none better pass through a sale ring this season. The spring gilts are a fine, well grown-out lot, and the fieldmen tell us they are above the average in size and quality.

**Our herd is noted for prolificness, good color, heavy bone, good heads, backs and feet, and this offering is no exception.**

Sale will be held at farm, three miles south of town, and free conveyance will be furnished to and from sale. The best attractions are in the Cleburne sale and a special invitation is issued to breeders to attend this sale. Free transportation will be furnished from the Cleburne to the Blaine sale.

As an attraction, two 5-months-old pigs will be given away in a free guessing contest. Full particulars in Catalogue.

Sales will be held under cover; no postponement on account of weather.

Auctioneers—Col. L. R. Brady, Manhattan, Kan.; Col. J. A. Howell, Herkimer, Kan.; Col. J. L. Hoover, Westmoreland, Kan.  
J. W. Johnson, Fieldman.

## W. H. SEDDON'S COL. GANO Duroc Bred Sow Sale Persia, Ia., January 31



**45 HEAD**

**32 Sensational Gilts and  
13 Tried and Yearling Sows**

16 Sows bred to and 7 Sows sired by COL. GANO 103963.

The most sensational Duroc boar living, combining extraordinary size, absolute smoothness and extreme finish, weighing over 1000 lbs., with an ideal head and ear, fine style and imposing carriage.

27 Sows bred to MODEL SELECT.

A young boar of outstanding individuality, combining extreme finish, style, symmetry, great size, bone and substance, and pronounced by good judges to be the greatest product of last year in Duroc breeding.

32 Gilts of Superior Size and unexcelled in uniformity of type, fine style, extreme finish, quality of bone and substance and richness of blood lines. 7 head bred to Grand Col., a son of the great Col. Gano.

The sows are the large, useful kind, representing such noted sires as Col. Gano, Junior Special, Crimson Chief Again, Freed's Col., O. F. Pilot's Wonder, Ohio Chief, Jr., and King the Col.

Sale will be held in heated pavilion. You are cordially invited to be present. If you cannot conveniently attend, mail your bids to auctioneer or fieldman.

**W. H. SEDDON, Persia, Iowa.**

Auctioneers: N. G. Kraschel, W. M. Putman, Fieldman, Geo. W. Berry.

## Duroc-Jersey Bred Sows at Auction

**A Draft from Geo. P. Philippi's  
Herd at Lebanon, Kansas**

**Esbon, Kansas,  
Saturday, February 1st**

The sale will be held in comfortable quarters in Esbon, Kan. The offering numbers 34 head and consists of 8 tried sows, 13 Fall gilts and 13 Spring gilts. Most of the tried sows are by Red Raven but one is by Red Royal, by Kansas Wonder. She will have six gilts in the sale by Red Ruler and bred to a son of Model Hero, by Golden Model. The balance of the offering is well bred and in the best of breeding form. While my offering is not a large one I am not putting in an animal that is not right in every particular. The gilts, both Fall and Spring are out of sows that have proven good producers for me and their top gilts are going in this sale. The 8 tried sows are good producers in their prime. I cordially invite you to attend my sale at Esbon on the above date. Catalogs ready now. Your name on a postal will bring one by return mail. Address

**GEO. P. PHILIPPI,  
Lebanon, Kansas.**

John Brennen, Auctioneer. J. W. Johnson, Fieldman.

## Rock Brook Farms

**DISSOLUTION SALE**

**Registered and High Grade  
Holstein-Friesian Cattle**

**So. Omaha, Neb.  
Tues. and Wed.  
Feb. 4 and 5, '13**



**125 Cattle of All Ages 125**

70 of these will be registered and the balance all pure bred but unregistered cattle.

75 cows, all of good age, and bred to either a son of King of the Pontiacs, King Segis, or De Kol 2nds, Butter Boy 3rd.

25 heifers 1½ to 3 years all bred to above bulls, some to calve soon.

25 heifers and heifer calves, all of the best of breeding.

12 bulls all about ready for service, 1 to 2 years old, all out of A. R. O. Dams.

The best lot of bulls ever offered in the West.

Every animal over 6 months will be tuberculin tested.

**ROCK BROOK FARMS**

H. C. GLISSMAN & SON, Props. Station B, Omaha, Nebr.



# BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

**WRITE J. M. McCown, Emporia, Kansas,** special bargain list, farms and ranches.

320 A. improved corn, wheat and alfalfa land \$15.00 per a. Terms. Other snaps. L. E. Pendleton, Dodge City, Kansas.

**SUMNER CO.**—80 a. imp. \$4,200, 1/2 cash. 160 a. imp., 70 wheat, \$8,200, 1/2 cash. Sure bargains. Roth & Martin, Milton, Kan.

**BARGAIN.** Improved 80 a. mile out, \$3,600. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

**FOR SALE.** 160 a., 80 in cult., 40 creek bottom, 20 alf., good improv., correspondence solicited. Geo. R. Rinebarger Elmdale, Kan.

**AGENTS WANTED,** to sell Neosho Valley corn and alfalfa lands. \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

320 A. smooth mixed land, 100 in cult., not far from the new Santa Fe R. R., \$10 per a. Other bargains. Moore & Falls, Liberal, Kan.

370 CHOICE bottom, alfalfa and corn farm improved, near town; \$50 for quick sale, worth \$75. E. J. VOTAW, owner, Wichita, Ks.

**LOOK HERE!** 80 acres good land nicely improved, 5 miles town, gas well, \$50 per a. Easy terms. Other bargains. Kraushaar & Belding, Pleasanton, Kansas.

**HUTCHINSON, Kan.:** Choice city property to trade for good farm. Describe fully with price. Buy our 1,760 bargain at \$12.50 per acre. Haines Realty Co., Hutchinson, Kan.

**MUST SELL. SACRIFICE.** 160 Sumner county, highly improved, close to town; 40 acres alfalfa, 60 pasture, excellent farm. Information, Lock Box 285, Wellington, Kan.

**BARGAIN** in ranch lands. 30,000 a. fine grass, abundant water, considerable farm land, \$12.50 a., 1/2 cash, bal. 10 yrs. Can divide. No trades. Taylor & Bratcher, Coldwater, Kan.

**WRITE** for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holtsman, Concordia, Kan. (Pioneer Kan. farmers.)

**FORD** and adjoining counties; wheat, corn and alfalfa land, low prices. Values are rapidly advancing. Now is the time to buy. Agents wanted. L. E. Wait, Dodge City, Ks.

## See Kansas Land Bargains

Write today for special land list. FOSTER BROS., Independence, Kan.

## 320 ACRE SNAP

320 acres, black sandy loam soil, 180 acres wheat, improved, 25 miles Wichita; \$60 per acre; easy terms. R. M. MILLS, 1003 Schweitzer Bldg., Wichita, Kan.

## \$175. Per Month

for 10 months buys a guaranteed level, well located lot in Plains, Kansas. No "ifs" nor "ands," no favors shown, but a gilt edge proposition for those who act promptly. Only a few to be sold at this price. Send \$1.75 as first payment or write for complete list. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

## 400 ACRES FOR SALE

Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil), 200 a. in wheat, 80 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

## 80 ACRES

One mile from Morehead and high school, all nice smooth land; all can be cultivated. 15 acres hog tight in bluegrass and clover, 10 acres timothy meadow, 15 acres prairie meadow, 6 acres pasture, balance in cultivation. 2 room house with old kitchen; good cement cave, cistern, drilled well, fair barn, young orchard. Price \$3,200. Reason for selling, I am a driller and do not have time to attend to farm. A. H. CLEMENS, Morehead, Kan.

## Sedgwick County Farm Bargains

280 A. first bottom farm, fair improvements. One mile of R. road town, \$50 per a., \$2,000 cash, will suit you, 101 A. bottom farm one mile of city 8,000 people. Fine improvements, great bargain \$110 per acre, \$1,000 cash. 320 farm, fair improvements raised 28 bushels wheat per a. this year, \$75 per a. Terms. 80 farm, improved, good land, near city, \$80 per a. 21 A. farm, well improved, suburbs of Wichita \$6,500. Call on or write. H. E. OSBURN, 227 E. Douglass Ave., Wichita, Kansas.

## 30 Minutes

From Wichita Union Stock Yards, just the place for a farmer and stockman. 120 acres in cultivation, 120 acres in grass, conveniently fenced into fields and lots. Some hog tight. A good 5 room house, barn, sheds, etc. Shallow water, all smooth and tillable; will grow good alfalfa; a deep rich loam soil. Just think of it! 240 acres all told for \$65 per acre and easy terms. This must be sold. THE LEACH REALTY CO., Wichita Kan.

## R. U. A. RENTER

Three 80s, improved, \$1,000 cash, 6% interest on balance. Two 160s, improved, \$1,000 cash, long time on balance. 225 acres improved, \$200 cash; good hog farm; easy terms. Time is getting short, write or phone at once. Phone No. 140. T. J. RYAN & CO., St. Marys, Kansas.

## ALFALFA LANDS \$40 to \$50 ACRE

**EAST END OF HODGEMAN COUNTY**  
Very best bottom land, with running water, some timber. Excellent wheat land at \$20 to \$30 per acre. Come and see or write for list. M. W. PETERSON, Hanston, Kan.

**GREATEST** cash bargains in Jefferson Co. 60 a. at \$50; 120 a. at \$50, 200 a. at \$45; 160 a. at \$65, all tillable, well imp., on easy terms. J. A. DECKER, Valley Falls, Kan.

**EIGHTY-FIVE** miles southwest of Kansas City you can find us with a nice list of eastern Kansas farms; reasonable prices; exchanges. Rice-Daniel Land Co., Garnett, Kan.

**CENTRAL** Southern Kan. alfalfa lands. 320 a. valley land, 200 suitable for alfalfa, \$8,000. 160 a. in valley, 120 in cult., \$4,800. For free list write P. H. THORNTON, Coldwater, Kan.

80 A. located 5 mi. of Ottawa, Kansas. 20 a. bluegrass pasture, 5 a. timber, 55 a. corn land, 7 room house, barn, price \$55.00 per a. Terms to suit. Mansfield, Ottawa, Kan.

**ATCHISON** county bargain. 120 acre farm 3 mi. from town with county high school, all tillable; good 5 room house; young orchard. Price \$65.00 per acre. Terms reasonable. JOHN E. SULLIVAN, Effingham, Kan.

**ASHLEY** county land; 5,000 acres, all tillable, no rocks or hills; for sale in small farms; \$2.00 per acre cash, balance in 10 yearly payments. Steady employment for buyers. MALONE & COMPANY, Hamburg, Ark.

**BLK CO.** Bargains in well impr. farms, close to schools, and town. Cattle ranches close to shipping point, fine stock country. Land \$20 to \$50 a. Send for description and terms. F. D. GREENE, Longton, Kan.

155 A. located in Franklin Co., Kansas. 70 acres in cultivation, 3 a. tame grass, 50 a. native grass, 30 a. meadow, 2 a. orchard, 6 room house, good barn, good outbuildings, close to railroad town. Price \$60 per acre. Terms to suit. Mansfield, Ottawa, Kan.

**A BIG BARGAIN**—100 a. 3 mi. town, second bottom, 75 a. in cult., bal. pasture and meadow, 5 r. house, good barn, granary, hen house, etc. Lots of fruit, good water, sandy loam, good producer. A nice home and a bargain at \$5,000; easy terms. A nice little improved 80 four mi. town, \$3,200. We have other good ones; come or write. J. F. Hoskins Land Co., Bennington, Ottawa Co., Kan.

**CITY** and suburban properties—a good selection to choose from close to the State Agricultural college. Write your wants. L. D. ARNOLD, Manhattan, Kan.

**CASH BARGAIN.** 240 a. well improved, bottom land close to town. No waste. Part time. Price \$84. Exchanges. Write JESSE SIMPSON, Scandia, Kan.

80 ACRE home farm, 3 1/2 miles from town, half in cultivation, pasture, alfalfa, good water, four room house, barn, orchard. Price \$3,600.00. No trades. Write for free list. V. E. NIQUETTE, Salina, Kan.

**FARMS** bought at right prices are a good investment. Send for our booklet containing choice bargains in the corn and alfalfa belt of southeast Kansas. Farms, prices and terms are right. Write for it today. MILLER & SON, Petrolia, Kan.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 160, 240, 320, 408, 620, all above farms are good prices from \$30 up to \$55 per a. WM. GODBY, Arkansas City, Kan.

1,600 A. imp. ranch in corn belt; 400 acres good bottom land, 270 a. cult., 160 a. fine wheat; 35 a. alfalfa, bal. pasture; 7 mi. to R. R. town, 1/2 mi. school, R. R. and phone. Price \$20 a. Part trade. Terms. Give full description 1st letter. I. R. ELDRED, Phillipsburg, Kan.

**COFFEY COUNTY, EASTERN KANSAS.** Good homes and investments. Corn, tame grass and ranch lands, \$30 to \$60 per a. List free. LANE & KENT, Burlington, Kan.

**FOR SALE OR TRADE.** 100 farms, Western, Central, Eastern areas in tested counties. Crop failures unknown. List free. THOS. DARCEY, Offerle, Kansas.

**EASTERN KANSAS RANCHES** 1,000 acres, \$25 per acre. 1,730 acres, \$19 per acre. 1,871 acres, \$26 per acre. T. B. GODSEY, Emporia, Kan.

**BEST BOTTOM FARM IN KANSAS.** 300 a. finely improved, 1/2 mi. town, 60 a. alfalfa, 60 a. pasture, 75 a. in wheat; price \$65 a. Gile & Bonsall, South Haven, Sumner Co., Kan.

**EASTERN KANSAS FARM BARGAIN.** 120 a. 3 1/2 mi. town, 100 a. cult., 2 a. orchard, bal. meadow, fair bldgs., windmill and tank; R. F. D. and phone. Price \$45 a. J. C. RAPP & CO., Osage City, Kan.

**FOR SALE.** 320 acres level wheat land \$9.00 per acre. Carry 1/2 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

**MONEY-MAKERS AND GOOD HOMES.** Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mdse. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

**MR. LAND AGENT.** We have the land that is selling. Show your customers the new country that is opening up in southwest Kansas. Write us. CLAY McKIBBEN LAND CO., Dodge City, Kansas.

## LOOK BEFORE YOU LEAP.

Come to northeast Kansas, (Marshall and Washington Co.) 75 farms for sale. New list ready and free showing land \$11 to \$125 per acre. Pralle Bros. Realty Co., Bremen, Kan.

## COMANCHE COUNTY BARGAIN.

480 a. improved, 9 miles from Coldwater. 173 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

## ALFALFA AND WHEAT LANDS

at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

## LINN AND BOURBON CO. FARMS.

Biggest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$80. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illus. folder free. EBY-CADY REALTY CO., Pleasanton and Ft. Scott, Kan.

## THE GRASS THAT FATTENS.

I have a fine list of small ranches, from 320 to 1,600 acres in the great livestock county of Butler, Kansas; famous for its wealth in alfalfa, Kafir corn and native grass limestone pastures. V. A. OSBURN, Eldorado, Kansas.

## FOR SALE.

A good grain and coal business, elevator 14,000 bushels capacity and is well built and covered with galvanized iron and was erected July, 1911. Have shipped this season 58 cars of grain up to date. If interested address J. H. WOLF, Macksville, Kan.

## FOR SALE.

240 a., 2 1/2 miles county seat town, 130 a. fine bottom farm land, bal. pasture, creek and timber. This is a partnership affair and must be sold to settle affairs. Can be had very cheap. Write for full description and price. LOCK BOX 27, Severy, Kan.

## THINK OF IT.

We will sell you 160 or 320 acres of the best unimproved corn and wheat land in Wallace county, Kansas, for \$10 an acre. \$1 an acre down, balance in nine equal payments 8 per cent.

**THE WARD-SCOTT INVESTMENT CO.,** Sharon Springs, Kansas.

## A SACRIFICE.

76 acres, 9 1/2 miles from Topeka. 11 acres alfalfa bottom; 19 a. in fine meadow; 14 a. pasture; 7 a. timber; balance tillable; all fenced and cross fenced; running water in pasture; 3 wells; small house, stone barn, arch cave, corn crib, chicken house, wagon shed, good corral. Will sell at bargain to immediate purchaser. R. V. HICKS, care Mail and Breeze, Topeka, Kan.

## A CHANCE FOR A GOOD HOME.

160 acres of good land, 100 acres under plow, balance orchard, meadow and pasture, fenced with four wires and hedge posts. 5 room house, granary, corn crib, cow shed and shed barn; two miles south of Linn, Kan., and same distance east of Palmer, Kan. 1/2 mi. to school. Price \$12,000.00 with 20% cash, give time on balance on easy terms at 6% interest. Write me for further information. E. C. PREBLE, Cuba, Kan.

## TEXAS

**FREE.** Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

**Free Paper** about Mid-coast Texas. "THE LAND BROKERS COMPANY" helps you to BUY DIRECT FROM THE OWNER." Palacios (City by the Sea), Texas.

## HALF THE PRICE

You pay in the North, or less, will purchase prairie land, 160 acres up. Will yield 40 bushels corn per acre, only \$40 per acre. Plenty rain, fine climate. Have some exchanges. See or write JNO. C. PENN LAND COMPANY, Houston, Tex.

**PROFITS IN GULF COAST LAND.** Wonderful production, large increase in value, an attractive home. Get our Free Booklets, "The Road to Prosperity" and "A Pointer on Where to Buy Land." Will send you free "The Gulf Coast Bulletin" for 6 mo. Write THE ALLISON RICHIEY LAND CO., 2nd Floor Carter Bldg., Houston, Tex.

**TEXAS ACREAGE—TRUCK FARMS—HOMESITES.** 25 minutes from Houston's business center, fastest growing city in Southwest. Rich soil, ideal climate. Convenient transportation by Interurban, steam or finest shell boulevard in Harris county. 5 a., \$10 down, \$10 month, nom. int., no taxes. SOUTH TEXAS MORTGAGE COMPANY, Houston, Texas.

**649 Acres Texas Land** all in one body. 6 miles northeast of Chaning, county seat of Hartley Co. All level, smooth land except about 70 acres. 500 acres first class wheat land. Will grow maize, Kafir corn, broomcorn and all kinds of small grain. Price \$15.00 per acre. R. S. SEWELL, R. R. 1, Rio Vista, Tex.

**All About General Farming in the Mid-Coast Country of Texas** Write for our illustrated booklet.

**Mid-Coast Colonization Company** A. A. Highbarger, Mgr., Bay City, Texas.

## TEXAS

160 A. improved, \$35. 40 a. improved \$45. Easy terms. Close in, black soil. Artesian water. J. H. Cope, Palacios, Tex.

**WRITE FOR FREE** literature describing choice lands in the Eagle Lake district. Send your name today. Fidelity Immigration Co., Eagle Lake, Tex.

**FOR SALE.** Cheap Texas land 8 miles south S. P. R. R. in Brewster county. Buy a section and hold for investment; 50 cents per acre cash, balance easy terms; 60% tillable. Title perfect. W. Willeford, Flatonia, Tex.

**THE BEST** cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

**LISTEN!** Tarrant county, Texas, has more railroads, more inducements for homeseekers in good lands, plowed roads, good markets, health record, schools, churches, etc., all things considered, than any county in the Southwest. Ask for special list of farms, ranches and dairy propositions, close to this great city. KITCHEN-VAUGHN-SEEVER CO., Fort Worth, Texas.

20 A., price \$1,000. Trade for residence. 7 1/2 a. Bay front, 3 room house, \$1,000. 170 a. \$45 per a. Take some trade if good. D. W. GRANT, Palacios, Texas.

**BUY COAST FARM LANDS.** We make a specialty of locating the best for the money for the homeseeker and investor. For list and free information write C. H. Stancliff Land Co., Houston, Tex.

## CANADA

**OWN YOUR HOME IN CANADA.** Buy a farm in Sunny Southern Alberta, any size, easy terms. Climate ideal, soil unequalled, no crop failures, no personal tax. Write today. LYNN W. BARRETT, Aldersyde, Alberta.

## IOWA

**ALFALFA SEED** \$6. Timothy and clover mixed \$4.50. Farms for sale and rent on crop payments. J. MULHALL, Sioux City, Ia.

## LOUISIANA

**DON'T** be a renter; we sell finest improved corn land in North Louisiana on 15 years' time. Write HUGO JACOBSON, Salina, Kansas, immigration agent.

## Ruston, Louisiana

is the best place for a tenant farmer that only has a little money to own a farm. Rich fertile soil—Ample rainfall.

## Healthy Climate

Two crops a year—Good markets. \$10.00 to \$25.00 an acre, easy terms. No floods, mosquitoes or swamps. Write for illustrated literature. NORTH LOUISIANA REALTY & INV. CO. RUSTON, LOUISIANA.

## Highest Elevation in State

**NO MOSQUITOES, NO MALARIA.** Good water, fine alfalfa and corn land, ample rainfall, 11 railroads, 100 miles from overflow district. Iowa, Missouri, Kansas, Nebraska and Oklahoma people living here and all satisfied. Shreveport, best town in state, center of oil and gas belt, by far the best lands in the South. \$10 to \$50 an acre. Improved and unimproved. Buy your ticket to Shreveport, the key of the South.

**Louisiana Farm Lands Company** W. A. Jones, Sec'y, Shreveport, Louisiana.

**There is Lots of Louisiana Land That Will Produce Three Times Its Cost Every Year**

Louisiana is in a class by itself. For rich land, big crops, low prices. It makes no difference if you are rich or poor, an owner or tenant, where you live, or what you are interested in, Louisiana offers you more opportunities, more show to get ahead, bigger returns for your work and investment, than any other section on the North American continent, barring none.

We have soil here that is so rich it could be used to fertilize your northern farm. We can raise the biggest kind of crops of corn and alfalfa; fatten hogs and cattle for half the money. It costs in North or Middle West, and this land can be bought from \$10.00 to \$25.00 per acre.

We have issued a nice illustrated booklet with a number of fine photo engravings showing the splendid growing crops of this country. It tells FACTS in big letters about this section in a simple and a plain way. It is free to you just for the asking. Every farmer should read this book for the information undoubtedly will prove to be of great value to you; It probably will give you the opportunity of making an investment, the best you ever made in all your life. Farm for yourself; farm in Louisiana and particularly farm in Alexandria district. Sit right down now and write us a letter for full information about this most wonderful section of the country.

**COOK-ALEXANDER LAND CO.,** Alexandria, Louisiana.



## MISSOURI.

25 OZARK bottom farms. List free. Write J. H. Wright, Marshfield, Mo.

WRITE Morris & Walker for list of south Missouri farms, Mountain View, Mo.

160 A. farm, \$1,800, imp. Write for picture. Box 594, Mountain View, Mo.

STOP! Listen! 40 a. farm \$350. Terms. Other farms. McGrath, Mountain View, Mo.

STOP today. Write King & Coon for book, Polk Co. land. King & Coon, Flemington, Polk Co., Mo.

FARMS for sale in Northwest Missouri. Write Booher & Williams, Savannah, Mo., for list. No trades.

200 A. 4 mi. R. R. town. Unimpr. Running water. 25 a. bottom, good grass, good timber. \$2,000. Baker Realty Co., Mountain Grove, Mo.

MO. lands, impr. and unimpr., low prices, easy terms; booklet "Why Not Missouri?" free. Exchs. made. C. L. Beach & Co., Mansfield, Mo.

WELL imp. 160 acre farm, 6 1/2 miles out; \$4,500, on easy terms. Write for particulars. DeMotte Realty Co., Mountain Grove, Mo.

FREE "The Ozark Region." Contains new list cheap lands, and valuable information. Durnell & McKinney, Cabool, Mo.

SEDALIA, Pettis Co. Finest agri., livestock and bluegrass sec. in state. Farms for sale. Morris Bro. R. E. & Loan Co., Sedalia, Mo.

WELL improved 156 1/2 acres, 4 mi. from Bucyrus, will sell at a bargain if taken at once. L. O. SMITH, Rural Route No. 1, Jamesport, Missouri.

WRITE for list improved farms in heart of Corn Belt (Northwest part of State). H. J. Hughes, Trenton, Missouri. Seller of Missouri Black Dirt.

MISSOURI agriculture and grazing land \$15 to \$50 per acre. Finest climate, best water and grass. Some tracts to trade. R. W. Hedrick, Cole Camp, Mo.

8,050 A. stock ranch at bargain; I am the owner of this ranch and am anxious to make quick sale. Also have listed for sale farms and ranches any size, from 40 a. up. Write me what you want. A. J. JOHNSTON, Merchants Natl. Bank Bldg., Springfield, Mo.

160 A., 1/2 mi. Parma, 110 cleared, 50 cut over timber. Price \$70 per acre. Easy terms. For full description write R. W. FOWLKES, Parma, Mo.

HIGH CLASS farms of various sizes in Missouri or Kansas. 20 to 40 miles south of Kansas City. Send for list. L. W. KIRCHER, Cleveland, Mo.

\$5 DOWN, \$5 MONTHLY, buys 40 acres near town southern Missouri. Price only \$200. Write for list of cheap lands. Box 372, Carthage, Mo.

LOOK HERE. For sale only; smooth 120 a. farm, well improved; large house, new barn, near school; not far from Warrensburg, town 6,000, county seat; lays good; bargain for 30 days, \$57.50 per acre. Terms good. Look this up if you want land. Write O. J. TAPP, Warrensburg, Mo.

OZARK LANDS FOR SALE. 40 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 5 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

SPECIAL BARGAIN MUST SELL QUICK. 284 acre farm, highly improved and most conveniently located. In Pettis county, Mo. Must be sold by February 15th, 1913. Has 160 acres of good bottom land. An ideal stock farm. Price \$45 per a. Small payments and easy terms. No trade. J. H. FREDERICH, Cole Camp, Mo.

ONE OF THE BEST. Howell Co., Mo., 240 acre farm, 200 a. in cultivation, all well fenced. Abundance of fruit, fine water, well, cistern and tank, large barn, 6 room house, near town, R. F. D. and phone line, school 1 mile. Price \$35 per a., no trade. Other good farms. A. P. COTTELL LAND CO., Pomona, Howell Co., Missouri.

AMERICAN FARMER. We are constructing a three million dollar ditch, which with its laterals is opening up for cultivation, 500 thousand acres wonderful corn, wheat, alfalfa and truck land. Southeast Missouri is the Nile of America and we want 5,000 settlers. These lands will increase in value millions of dollars each year. Write for literature and buy now. Address EDWARDS BROS. REALTY CO., Madrid, Mo.

OZARK LANDS. Improved 80, eight mi. out, part valley, 2 acres bearing orchard, good; 2 fine springs, Price \$1,500. Improved 40, 4 miles out, part valley, pretty spring branch across the land, price \$1,200. Improved 207 acre Indian Creek valley farm, 4 mi. out, 170 acres valley; finest farm in McDonald Co. Price \$11,000. Improved 120, 5 miles out, part valley, extra nice home place. Price \$2,000. For particulars and terms address, ANDERSON REAL ESTATE CO., Anderson, Missouri.

POLK COUNTY FARMS For Sale or Exchange Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Bolivar, Mo.

A Remarkable Bargain 320 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tie timber. 180 fenced, wire and rail; 9 room house, good well at house; barn 70x76; food well at barn; smoke house, other outbuildings; house in house; handy to school and church; 6 mi. to North View on Frisco R. R. 5 mi. to Fairgrove; 8 mi. to Co. seat, Marshallfield; price \$17,000. Incumbrance \$5,000, 5 per cent, due 6 years; will exchange for good Kansas farm. Will assume as much as \$9,000. What have you to offer? See or write PURDY & COMPANY, Springfield, Mo.

NEW YORK MUST SELL AT ONCE sixteen farms for estate which must be settled at once, farms ranging from ten acres to over 200. From \$1,000 to \$6,000. Buildings good. Many with stock and tools. Easy terms, 1/2 to 1/3 cash. Balance mortgage long time at 5 per cent interest; also hundreds of other farms at bargain prices. We protect buyers. Square dealing our only motto. HALL'S FARM AGENCY, Owego, Tioga Co., N. Y.

OKLAHOMA N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

600 FARMS and other prop. for sale or ex. Blackwell Real Estate Co., Blackwell, Okla.

BARGAINS in Tex. Co. farms. Some exs. Write for list. Harvey Cox, Hooker, Okla.

EASTERN Okla. corn, alfalfa, wheat and fruit farms, \$10 to \$50 per a. Write Ebey & Harrison Bros., Ada, Okla.

KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.

FARM FOR SALE cheap. 160 a. improved farm in central Oklahoma, 3 mi. from good town. Write A. W. Jones, Quinton, Okla.

WHY NOT come to Bryan county, Oklahoma, where you can raise anything that grows? For information write JOHNSON & MARSHALL, Durant, Oklahoma.

SNAP FOR TOWN SITE PROMOTERS. 160 a. improved farm in western Oklahoma for sale cheap. Railroad station located on this farm. Write A. W. Jones, Quinton, Okla.

WRITE for list farms in E. Okla. Soil as productive as E. Kansas. Raise much corn, wheat or alfalfa per a. Have more rainfall. Imp. farms \$15 to \$30 a. Prairie grass pasture lands \$6 to \$12 a. Any size tract. SOUTHERN REALTY CO., McAlester, Okla.

SEVERAL FINE FARMS FOR SALE in the best corn and cotton belt of Eastern Oklahoma; 80 to 600 acre tracts, \$25 to \$60 per acre. R. B. HUTCHINSON, Checotah, Okla.

POCKET MAP OF OKLAHOMA for five names of persons intending to change. Caddo county corn and alfalfa land. BALDWIN & GIBBS CO., Anadarko, Okla.

FOR SALE. 160 a. 1 mi. of small R. R. town, fair improvements, 1/2 of 140 acres wheat. Price \$500.00 per acre, will guarantee investor \$500.00 rent. T. H. FUSS, Medford, Okla.

RENTERS, OWN YOUR OWN FARM. I have some good Oklahoma land that can sell for one-fifth down and ten years on balance at 5%; just like rent. If you are a young man, wanting a start this is your chance. Own your own home; don't pay rent. Write me now. W. J. FINCH, El Reno, Okla.

Oklahoma Wants You 500 choice farms for sale. Titles good. Easy terms. Soil and climate excellent. Write for list. Roberts Realty Co., Nowata, Okla.

Eastern Oklahoma Land \$3.00 to \$25.00 per a. Prices are steadily advancing—now is the time to buy. If you want a good, cheap home, or a money making investment, write to or call on W. T. HARDY, McAlester, Okla.

MAKE MONEY by buying this tract of land in Roger Mills Co., Okla. 320 a., 40 a. broke out, 140 a. fine, rich land in body, balance good grass land well watered, 40 a. bottom land fenced but no house. Fine proposition for home or investment. Improved quarters are selling from \$7,000 to \$10,000 here in these flats. Price \$6,000 cash if for investment, same price for home but terms to suit purchaser. Price stands for one month only. Write J. A. YARBROUGH, Elk City, Okla.

ARKANSAS GOOD fruit and farm land, cheap; terms. S. L. Consalus, Mammoth Spring, Ark.

GOOD fruit, berry and truck land. Prices right. Boatright & Weaver, Van Buren, Ark.

80 ACRES partly improved \$600. Other lands. F. E. Jones, Mammoth Springs, Ark.

FREE information about Ark. general farming, fruit or stock raising land, at low prices. Virgil J. May, Booneville, Ark.

ARKANSAS RIVER BOTTOM plantations, virgin timber lands, small farms. Send for list. Dumas Realty Co., Dumas, Ark.

RED RIVER corn and alfalfa farms, \$20 to \$50 per acre; income \$50 to \$60 per acre. List free. L. A. JUSTUS, Foreman, Ark.

400 ACRES, 125 cleared, \$17.50 acre. 160 acres, fine bottom, \$10 acre. 50 acres, 30 cleared, \$12.00 acre. J. T. CARLTON, DeQueen, Arkansas.

520 ACRE FARM, one-third cultivation. 6 room house, nice soil and productive. Price \$8 per a. Terms. Polk Real Estate Co., Little Rock, Ark.

DO YOU want a farm in Arkansas? If so, write for my illustrated book. Imp. and unimp. prairie, timber and rice lands. Write me today. Olaf H. Kyster, Stuttgart, Ark.

430 ACRES rich dark loam land; 120 cultivation; bal. timbered; level, no rocks; 1 mi. R. R. \$12 acre, 1/2 down. ROBERT SESSIONS, Winthrop, Ark.

274 A. dark and red loam. 200 a. in cultivation, 6 room residence, 4 renter houses, barns, outhouses, wells, springs, orchard and pastures, on gravelled road, railway and phone line. 1 mile from town. \$8,000.00, easy terms. H. M. McIVER, Texarkana, Ark.

A REMARKABLE BARGAIN. 623 ACRES; good 8 room residence; two tenant houses; 130 a. cultivation. 2 mi. railroad town. No wash land. Price \$10 per a. Other lands. R. C. THOMAS, Magnolia, Ark.

For Sale in Southwest Arkansas 80 improved farms at a price ranging from \$15.00 to \$40.00 per acre. Write for literature. SOUTHERN REALTY & TRUST COMPANY, Ashdown, Arkansas.

620 A. Bottom Land or any part thereof at \$15 per acre, within two miles of two railroads, no overflow, level, fine grass land, good hunting and fishing. We don't care for all cash. 1/4 section of timbered land, about 20 acres cleared, level, no rocks, at \$15.00 per. Also a few improved farms. Write us, we will take care of you. M. & B. TIMBER CO., Farm Department, Malvern, Ark.

ARKANSAS FARMS and fruit lands. All sizes and prices. T. A. Bayley, Ft. Smith, Ark.

CORN, FRUIT, ranch and wheat lands; sandy loam soil; \$10 to \$25 per a. On good terms. Write for new list, mailed free upon request. Mansfield Realty Co., Mansfield, Ark.

17,000 ACRES, all tillable, no rocks, hills or swamps, for sale in small farms in Grant Co. Your own terms, 20 years 6% if desired. Can give employment to purchasers. E. T. TETER & COMPANY, Opposite the Union Station, Little Rock, Ark.

40 ACRES of fine laying land in the celebrated Vaughan Valley, 1/2 mile from school, P. O., store and shop, price \$1,500. 1/2 cash, balance to suit, no trade. JOHN W. REDMAN, Hindsville, Ark.

COLORADO BEAUTIFUL Irr. farms, fruit, sugar beets, grain, alfalfa. Ordway Land Co., Ordway, Colo.

160 ACRES near Denver, \$1,600. House, barn, well, all fenced and cultivated. Fine soil. L. A. COBB INV. CO., 242 Century Bldg., Denver, Colo.

SAN LUIS VALLEY, Colorado, 160 a. 3 mi. good R. R. town; lays fine; plenty of water; partly cleared and ready for plow; 4 room house; small stable; only \$40 a. Worth \$60; small cash payment; bal. long time 6%. Write owner. E. G. BYLANDER, Sedalia, Mo.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, aims-receiving Kansas" become the wealthiest state per capita? Only a few hours' west of Salina, no finer soil on earth; 50 schools, 4 banks, churches, best of Colorado. Now. Pamphlet. R. T. CLINE, Towner, Colo.

EASTERN COLORADO. Rich, level, corn, wheat and alfalfa land \$10 to \$30 per a. Write to or call on G. W. DINGMAN, Stratton, Colo.

SNAP 320 acres rich fertile land 1 1/2 miles from store and country postoffice, 18 miles from county seat. Price \$1,000. Fine proposition. Investigate. CHAS. PURDY, Box 359, Akron, Colo.

FOR SALE OR EXCHANGE LAND WANTED. If you have Kansas land to exchange for Kansas City income prop., write us with full description of land. E. G. SUTTON REALTY COMPANY, 709 Victor Bldg., Kansas City, Mo.

FOR SALE OR TRADE. \$3,500 stock groceries, about \$500 fixtures, \$30,000 yearly business. Want to give attention to other business. For particulars write LOCK BOX 27, Severy, Kan.

GOOD BARGAINS IN MISSOURI LANDS. Now's the time to buy, while lands are cheap. Howell Co. products won 1st prize at Missouri State Fair. We sell, we trade; what have you to exchange? "Write Kirwan & Laird about it." West Plains, Mo.

FARM BARGAINS. Farms, ranches, city property and merchandise; for sale or exchange, any size, any price, anywhere. Write for large free list. SEWELL LAND CO., Garnett, Kan.

FIRST CLASS HOTEL FOR SALE. 20 rooms in the best small new town in south Florida. New and modern, completely furnished, good water connections in house. A rare opportunity for a hustler. FLORIDA DEVELOPMENT COMPANY, Davenport, Fla.

WANT TO RETIRE. Will sell my 1,640 acre ranch all stocked, everything in first class shape, 320 irrigated, (house modern). Would accept small place as part payment and one half the crops and one-half increase of stock until paid for. State what you have to buy with, enclose stamp. C. F. FAX, Haigler, Dundey Co., Neb.

FINEST FARM IN NEOSHO COUNTY. 160 a. 2 mi. from Kimball, all level black land, 7 room house, 2 fine barns, good fences, well watered. In a fine neighborhood. Price \$12,000. Will accept half in smaller farm or other good property. If you want a fine home this is it. IOLA LAND COMPANY, Iola, Kan.

FOR EXCHANGE. Improved 160 acres, bottom land in Allen Co., Kansas, worth \$12,000.00, will exchange for mdse. or hdw. in North Missouri, Ill., or East Iowa. Also good 200 acres and 80 acres at a bargain for cash, easy terms, good homes and fine land. Write for fuller description if interested. WILSON & RESSEL, Colony, Kan.

Buy or Trade with us—Exchange book free. Borsie Agency, Eldorado, Ks.

Want For Trade All kinds of property; quick deals made. Address Investment Co. Exchange, Gas City, Kan.

Big Exchange List Free Our motto, "No inflated prices." FOSTER BROS., Independence, Kan.

For Sale or Exchange Land in the great corn belt of Missouri, Kansas and Nebraska. Also Ranches. If you wish to make an exchange address M. E. NOBLE & SON, 507 Corby-Forsce Bldg., St. Joseph, Mo.

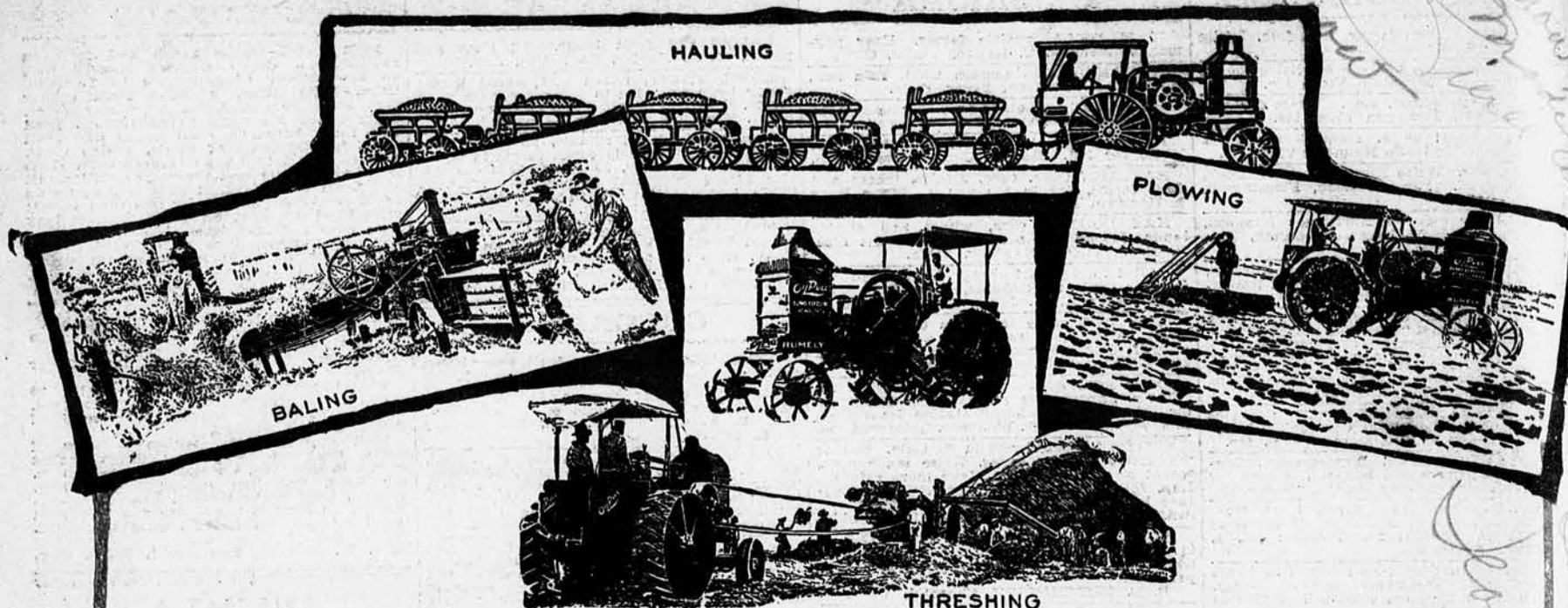
Investor Do you want to purchase or trade for land that grows big corn and 7 crops of alfalfa per annum? If you do, call on or write W. E. WILSON, Walters, Okla.

For Sale or Exchange 13 lots in St. Joseph, Mo., South 22nd St., between Oak and Cedar, 8 room modern dwelling, 4 room cottage, brick cave, barn, cistern, shade, good location and repair. Price \$14,000.00. Incumbrance \$6,200.00. Two lots Maysville, Mo., small improvements, \$2,200.00. Incumbrance \$500.00. Also \$4,200.00 1st mortgage, \$13 acres in St. Clair Co., Mo., 2 yrs. 6% Equity in all or part for equal value in land or merchandise. Submit your offer. W. L. BOWMAN REALTY CO., King City, Mo.

COLORADO—UNCOMPARE VALLEY. Ideal climate. On D. & R. G. R. R. (The Scenic Line of the World). Specials:—Irrigated farms, fine water rights. Well improved dairy forty, in alfalfa, 30 cows, teams, wagon, harness, supplies, feed, worth \$450.00 per month. One mile of Delta. Price \$12,000.00. Well improved 160, within 2 miles of Delta, the best town in Delta, the best county in Colorado, 6 teams, 5 cows, 40 hogs, 100 hens, full line implements, harness, wagons, 1,000 bushels grain, immediate possession. (7 head of the 12 are fine Percheron brood mares.) De Laval Separator No. 12. All for \$125.00 per acre. GEO. W. BRUCE, Sole Agent, Delta, Colo.

NEVADA "HOMESTEADS." Do you or your friends want a 160 or 320-acre homestead? Here in Nevada you may take 320-acre homesteads, and under the new homestead law you are entitled to five months off each year. I have a "NEW VALLEY," where water is obtained from 10 to 20 feet and good land has been tested and found very satisfactory; railway close. "LOCATION FEES REASONABLE," all work guaranteed; good people wanted. These lands will produce all kinds of crops except citrus fruits. IF YOU MEAN BUSINESS and want good lands answer this at once. L. C. DOLLEY, Box 179, RENO, NEVADA.





## AN ALL-WORK TRACTOR

Man did his first plowing with a wooden stick. If you plow with horses, this looks queer to you. But the farmer with a tractor looks upon working horses as queer too—except for small jobs—to him it means waste.

### Get these Tractor Facts in your mind

One man's work on a farm with one horse is limited to 25 acres—one man with a tractor handles 400 acres. You can't afford to plow and till as deeply with horses—nor as well. It costs too much to keep a lot of horses standing idle most of the time.

A tractor will save \$1 an acre in plowing—besides it will harrow, haul, thresh, bale, saw, etc.—pull any machine or drive it with a belt. A horse eats 10,000 pounds of food a year. One acre out of every five under cultivation goes to feed farm horses.

A tractor works 24 hours a day if necessary—a horse 10 hours at best. Horses get sick—tractors don't. A plague struck Kansas last year—20,000 horses died in six weeks. To plow an acre is a day's work for a man and one horse—30 minutes' work for a man with a tractor. The tractor is as far ahead of the horse as the railroad is ahead of the stage coach.

Here is the whole tractor argument: LESS WORK—BETTER CROPS—MORE PROFIT!

### It makes a Difference what Tractor you have

Some prove costly—some cheap. We build a tractor the right way. For simplicity, power and adaptability, it is the equal of any tractor. For strength and cheapness of operation, it has no equal. It really costs less because it lasts longer.

*For all-round tractor ability pick the*

It is the only tractor that burns kerosene successfully under all conditions of climate and load. It is built with the right idea—to use cheap, abundant fuel—and make it give the same results as gasoline.

Think of the saving in fuel cost—\$1.50—\$3.00 every day you use it.

### Here are some OilPull Facts

**FUEL**—The OilPull burns any liquid fuel. It will burn kerosene in any climate—at any load. **ENGINE**—The O.P. 30-60 h.p. is a four-cycle engine with two cylinders of ten-inch diameter and twelve-inch stroke. O.P. 15-30 h.p., a single-cylinder engine with same diameter cylinder and same stroke. **CYLINDERS**—The cylinders are singly cast and have individual heads. **CARBURETER**—The Secor-Higgins Carbureter is used—which regulates the supply of fuel under all conditions. There are no springs nor internal mechanism within the carbureter. **IGNITION SYSTEM**—Low tension make-and-break ignition with standard magneto.



**LUBRICATION**—A combination forced and splash system of lubrication is used. **GOVERNOR**—The governor is actuated by bevel gears which are driven by reduction shaft within the crank case, affording perfect speed regulation without stopping to readjust carbureter or governor.

**GENERAL**—The material and design of the gearing, crank shaft, crank case, valves, axles, etc., is of the best. All working parts are accessible and still thoroughly protected. The OilPull combines endurance, dependability, simplicity, and low running cost with the fullest capacity for self-regulation.

OilPull is made in two sizes—30 tractive h.p., 60 brake h.p., and 15 tractive h.p., 30 brake h.p.

The Dreadnought Steering guide, which makes the tractor self-steering, is furnished with every OilPull.

We are also able to furnish a complete line of power-farming machinery—gang-plows, threshing outfits, automatic balers, saw mills, etc.

*Write for data-book on the OilPull*



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