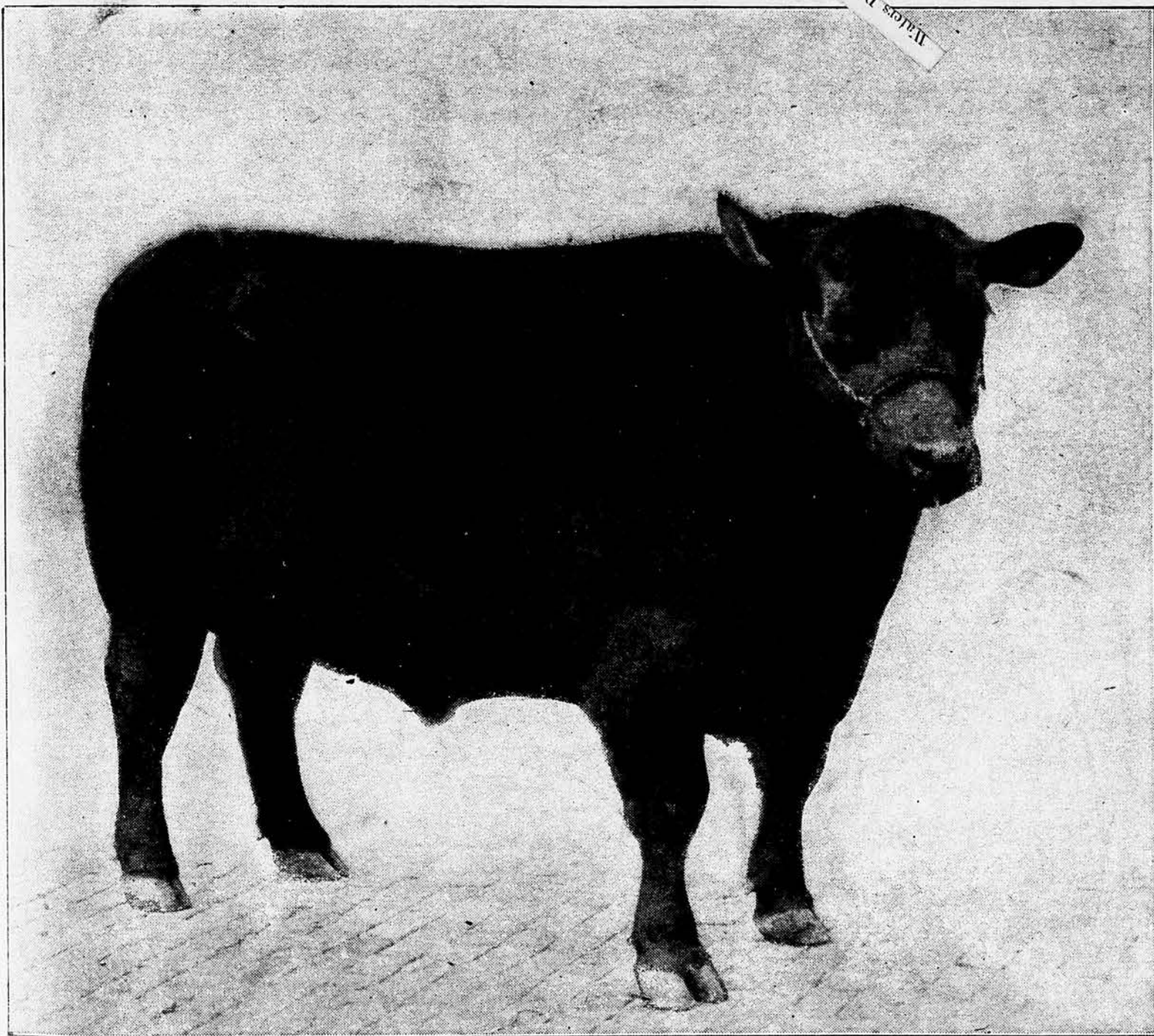


THE FARMERS MAIL AND BREEZE

Volume 42

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Number 49



Kansas Excellence in Beef: The Purebred Angus Steer Insurgent Envoy, Kansas Bred and Fitted. Page 12

READERS of the Mail and Breeze in all parts of Kansas would like an answer to the question, "What kinds of trees are best to plant for shade in my yard?" The answer depends on what part of the state you live in. Charles A. Scott, State Forester, will answer the question for all parts of Kansas in next week's Mail and Breeze, publishing lists of best trees from which you may choose. J. T. Bristow, Nemaha's corn grower, will relate the history of a 10-acre alfalfa field which made good when stands all around it had failed. There will be a page of farm devices and another page of those ways and means letters that interest everybody.

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CHICAGO, KANSAS CITY, FORTWORTH TEXAS.

GARTH
JONES

In the case of personal loans the problem would be somewhat more difficult. I would make the county commissioners supervisors of loans. In the cities there should be a loan commission likewise. Where personal loans were made, that is, short-time loans on personal security, the character of the person getting the loan should be carefully considered. He should be not less than 21 years of age, of good morals and good habits. The purpose for which he wanted the money should be carefully investigated. He should be required to furnish good references as to his character, habits, integrity, honesty and industry. It should be kept steadily in mind that the purpose of the law was not to enable anybody to get something for nothing. There are entirely too many people now who are trying to get something for nothing. The purpose of the law should be to lift some of the burden off the backs of the honest and industrious and help them to help themselves; to furnish work at good wages for all who are willing to work, but who sometimes find it difficult to get employment; to enable men to get homes of their own, farms of their own and the necessary capital to develop their farms or other lines of business.

In regard to the machinery of distribution of this form of government money much can be learned from the experience of other countries where government loans have been and are being made.

In this connection I may say that I am in receipt of a copy of the bill introduced by Congressman Bathrick of the Nineteenth Ohio district on January 4, 1913, entitled "A bill to establish a bureau to institute a system of lending money to farmers upon agricultural lands." The copy of this bill was sent me by S. G. Banks, proprietor of the Buena Vista Stock farm, Eldorado Springs, Mo., and is of such general interest at this time that I copy it in full so that readers of the Mail and Breeze may have an opportunity to study it:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That a bureau is hereby created, to be known as the Bureau of Farm Loans, which is to be conducted under the control and direction of the secretary of the treasury for the purpose of lending money to bona fide tillers of the soil, taking as security for said loans farm mortgages.

The president of the United States shall, by and with the advice and consent of the senate, appoint for a term of four years at a salary of \$6,000 per year a commissioner, who shall have, within the limitations herein stipulated, full charge of the said bureau. The commissioner is hereby authorized to appoint one assistant commissioner at an annual salary of \$4,000 per year, engage other employees and incur other expenses necessary to the establishment, organization and maintenance of the said bureau, but the total preliminary and other expenditures for the fiscal year succeeding the passage of this act shall not exceed the sum appropriated herein.

Sec. 2. That the secretary of the treasury is hereby authorized and directed to prescribe forms, procedure and regulations for the conduct of the business of the bureau of farm loans, to borrow money from time to time on the credit of the United States in whatever sums are required to make the said loans, and to prepare and issue coupon or registered bonds of the United States bearing not in excess of 4 per centum interest payable annually, and redeemable as he may prescribe: Provided, That the total sum due upon said farm loans annually shall bear as close relation as possible to the total sum of the redeemable bonds and interest payable thereon, and that no loans shall be made except to those actually engaged in farming on farm lands which have not at least one-half of the acreage under cultivation.

Sec. 3. That whenever the said commissioner of the bureau of farm loans shall have ascertained that the value of the farm land offered as security is sufficient, and that the applicant or applicants are possessed of a good and sufficient title to the said property and are legally competent to execute a mortgage thereon, he shall, in written form, recommend to the treasurer of the United States that the loan be made to said applicant or applicants and the treasurer shall, upon receipt of the mortgage properly drawn in favor of the treasurer of the United States, out of the funds provided by this act, pay over to the mortgagor the sum specified in the mortgage, but no loan shall be made in excess of 60 per centum of the value of the property, and the rate of interest upon said loans shall not exceed 4 1/2 per centum.

Sec. 4. That said bonds and mortgages and the interest thereon shall be payable in any lawful money of the United States, and the said bonds and mortgages shall be exempt from all taxes and duties of the United States, as well as from taxation in any form by or under state, municipal or local authority.

Sec. 5. That all applicants for loans under the provisions of this act, together with two appraisers which shall be appointed by said commissioner, shall state under oath the true market value of the property offered as security for the loan, and any misstatement of fact respecting said value intending to make it appear greater than it really is shall, at the option of said commissioner, notwithstanding any contract previously entered into, render the principal and interest of the said loan immediately due and payable and subject to all legal processes for collection. The secretary of the treasury by himself or his agents, for and on behalf of the government of the United States, is hereby authorized and empowered to appear in any court of the United States as plaintiff or defendant in any legal process arising from the making of said loans.

Sec. 6. That any person or persons who shall make representations respecting the value or title of any property with the intent thereby to defraud the government by procuring a loan of a greater sum than 60 per centum of the actual value of said property shall be subject to a fine, to be paid into the farm loan fund, of not more than \$5,000, or five years imprisonment at hard labor, or both.

Sec. 7. That the sum of \$100,000 is hereby appropriated from any unexpended balance in the treasury of the United States for the purpose of carrying out the provisions of this act.

I have several objections to this bill. To begin with, it establishes another bulky bureau at Washington, with an army of political parasites on large

salaries who will be loan inspectors for the entire country. There is too much bureau-ocracy at the national capital now.

Second, it means a further bonded indebtedness of the nation which is unnecessary. If the mortgage securities provided for in this bill are good enough to secure the government for the money it will have to borrow they are good enough on which to base currency issued direct by the government.

Third, it only provides for farm loans but offers no relief to the worker in the city and town who wants cheap money with which to buy and improve his home. Local supervisors of loans, such as county commissioners for the counties and commissioners in the cities could supervise the making of loans in their various localities more effectively and with far less expense than the supervision could be done by a lot of political subalterns selected by a bureau chief at Washington. It is almost certain that under the operation of this bill the places would be filled with political place hunters belonging to whatever party might happen to be in power.

There is no need of all the complicated, expensive and necessarily cumbersome machinery that this bill would require. Let bonds be issued by the various municipalities carefully guarded as to amount. Let them be deposited in the treasury of the United States and based on those securities let the currency be issued. Leave the matter of its distribution to the local authorities under proper state laws. The government would hold the municipalities, responsible and the municipalities would hold the individual borrowers responsible.

The interest on the bonds, whatever might be determined upon, would be paid to the government to cover the expense of issuing the currency and whatever might be over would go toward paying the running expenses of the government. The only thing the treasury department would have to do would be

Justice should control the courts of law, and not technicality or precedent.
—ARTHUR CAPPER.

to see that the municipal bonds were properly issued and did not exceed the limits fixed by law, and the printing and distribution of the currency. No great political machine would need to be built up, no cumbersome and expensive bureau at Washington.

THE RECLAMATION SERVICE. Some weeks ago I printed a letter from a subscriber who has a farm in one of the districts being irrigated by the government under the provisions of the Reclamation Act, complaining about the manner in which the government is conducting the business.

Another subscriber, Mr. Hurlbut, of Agra, Kan., sent the printed letter with editorial comment thereon, to F. H. Newell, government director of the Reclamation service at Washington. Mr. Newell replied to Mr. Hurlbut as follows:

Mr. W. W. Hurlbut, Agra, Kan.

Dear Sir: Replying to your letter of January 29, I am always glad to receive any suggested criticisms by which the operations of this service may be improved. With an organization embracing thousands of men carrying on work in many parts of the arid West, it is not always possible to produce the best results immediately, but we are constantly endeavoring to reach the highest degree of efficiency and economy.

The great trouble with most of the criticisms made is that they are extremely general and might be applied to every human undertaking. Wherever we can locate a definite cause of complaint we endeavor to remedy it or explain why, under existing laws or conditions, a remedy cannot be applied.

The statement made in the clipping that "it is generally understood here that they will get even with anyone making complaints" is not true. Every reasonable opportunity is afforded for considering complaints. Of course, in dealing with 15,000 or more individuals, it is recognized that there are persons who habitually make complaints without any good foundation.

If anyone will point out where there are "miles of absolutely worthless ditches," I will welcome the information, and will probably be able to show that these miles of worthless ditches are carrying water to hundreds or thousands of acres of irrigated land.

You will recognize, of course, that it is useless to write about inefficiency of management and extravagance unless examples can be pointed out.

F. H. NEWELL, Director.

Mr. Newell also sent the following letter to me:

Editor Mail and Breeze—A correspondent has sent me a clipping undated, headed, "Complaints of the Reclamation Service," and I have replied to him as shown by the enclosed copy. As stated therein, everyone connected with the service in responsible position is more than desirous of having constructive criticism, following which the methods may be improved. We have at all times a number of men whose business it is to study carefully all of the details and to bring about the highest efficiency, together with the largest attainable economy. That we have been successful to a large degree at least has been attested by the president's commission on efficiency and economy and by statements from competent men who have visited our works and seen their operations.

If "imitation is the sincerest flattery," we have reason to feel that we have not been wholly unsuccessful, because of the fact that our methods are being studied and copied very generally at home and abroad.

There is no human undertaking which cannot be criticised, but most of this criticism is through ignorance of the facts, the same kind of ignorance that is at the foundation of most troubles and mis-

understandings; for example, sometime ago there was very widely circulated a report to the effect that some employes of the Reclamation Service were out duck hunting during the working day. It took a long time and much trouble to locate this story, but it finally was shown that the men were out duck hunting. So far so good—but the man who started the story forgot to state that this particular gang were on the night shift and had every right to spend the remaining 16 hours of the day in any way they saw fit, and that any man who permitted them to work more than this eight hours would be liable to heavy fine.

The anonymous attacks, while excused on the ground of timidity, are found on investigation to be usually due to the cowardice which arises from falsehood. I will give your correspondent every reasonable assurance that his fears will be respected and he will be amply protected, if he will tell the facts.

F. H. NEWELL, Director.

As I have heretofore said, I know nothing personally about the manner in which these projects are being conducted, but here is an invitation to file complaints and the promise of the director that the person complaining will be protected.

WANTS GOVERNMENT BANKS. Editor Mail and Breeze—The Mail and Breeze is the best educator of all of the agricultural papers. We like it

because all of its editors are broad-minded enough to stand for a little well intended criticism. I am a Colorado farmer. Eastern Colorado has a great future for agriculture. We need only one thing more to make the country blossom as the rose. We have plenty of good land, an abundance of horsepower machinery, an abundance of skilled, intelligent, energetic labor, an inexhaustible supply of underflow water for irrigation, yet here we stand with our hands tied for the one thing we lack, and that is a sufficient amount of government currency at a low rate of interest to enable us to set up our low-priced irrigation plants. Why shouldn't the government lend us its credit if we secure it and pay for it?

You say in your issue of January 11 on "Government Loans to Farmers." "Let these associations, or better yet, the municipalities, issue their bonds direct, deposit these bonds in the treasury of the United States and let the government issue the money based on these bonds, just as it now issues money to the national banks."

Well, that would help a lot, but I don't like the idea. It has been declared over and over again that you can't make the farmers hang together, and even if you could get them to hang together upon this proposition, if it is ever tried, you will find that it will be a very much tangled up and unsatisfactory arrangement. If I have to wait until an association of farmers get together to bond themselves for government money, I am going to give up right now and I don't think that getting money through a vote by municipalities will work much better. I think the only way, the only right way, the only way that will give satisfaction, will be to establish government banks so that the individual alone and by himself can obtain his loan from the government. We have government post-offices, by which the individual deals directly with the government through its agent.

David Lubin, in his splendid article, calls attention to the fact that the farmers alone have 40 billion dollars' worth of security and if my memory serves me right other classes have almost as much, and as it has been many times stated all bonds, moneys, debts, government and everything else, is based upon this wealth. There can be no question about government security and why in the world did a man with such deep perceptions as Mr. Lubin recommend us to pattern after a monarchy in arranging for cheap government money?

The more we think of it the more we are convinced that government banks will be the easy way, allowing the individual to borrow upon his own security, paying it back at any time that he no longer needs it, and borrowing it again when he does. This would insure the element of elasticity in the volume of money which I don't think could be regulated so well by collective borrowing, if at all.

I think if you were a farmer you would feel just as I do, that when you wanted to borrow money you wouldn't want to wait upon an election to issue bonds, nor when you wanted to pay it back you wouldn't want to be mixed up with a conglomerated mixture of everybody's.

Well, somehow I feel that when you read this you will say this is a relic of the old sub-treasury idea and Pefferism. Well, maybe so. I voted for Peffer when I was in the Kansas legislature. He is the only United States senator from Kansas that I ever read about that really tried to do something for the common people. God bless his old soul for that.

Yuma, Colo. W. H. INGLE.

It is possible that the distribution of loans might be made easier through government banks, as Mr. Ingle suggests, though it does not appear to me that the municipal bond idea involves the complications he anticipates. I am not however, so particular about the machinery to be employed as I am about the results.

There are two points to be kept in mind always: One is, that the security shall be ample, and the other, that the currency shall be elastic, as Mr. Ingle suggests.

Fables Up-To-Date

A steer that had broken into a field of green clover, filled himself with great satisfaction, but shortly after he commenced to bloat. A cow grazing in the next field looked over the partition fence and remarked, "My son, I presume that you have discovered by this time that what seems like prosperity is sometimes mostly wind."

A hog that had been put in the pen to be fattened, saw a lean razorback swine looking through the cracks of the pen and commenced to make sport of his lean and scraggy appearance.

The lean hog listened for a time in silence and then said, "My fat friend, I will admit that you have me bested when it comes to appearances, but I want to give you this pointer: I will still be rooting round out here in the brush when you have got it where Kattie wore the beads."

Ways=Means=Results

Worked Out by Mail and Breeze Readers

Good Work of Cutaway Harrow

Mr. Editor—The best farm tool that has come out since the lister is the double action cutaway harrow. The front set of disks throws the dirt out and the rear set throws it back, thus leaving the ground in far better condition than would a double disking with a common disk. It does the work of two disk harrows and draws as lightly for four horses as a common 14-disk harrow. It is generally admitted that it pays well to disk ground before it is listed and this tool is the best one for the purpose. It also makes a fine tool for disking alfalfa.

Hollis, Kan.

I. J. Burt.

To Get Barb Wire Off Spools

Mr. Editor—Of the many different schemes used in unrolling new barbed wire I have yet to see one as simple and practical as that of setting the spool on end and putting an iron bar through it, which is then driven into the ground. The spool should be placed near a post and the bar guyed to it. Fasten the end of the wire to the hind axle of the wagon and drive down the line of fence. The friction of the spool on the ground keeps the wire from unwinding too fast, thus preventing kinking and breaking. One man can handle the wire this way.

Aurora, Kan.

W. H. Plumly.

Warms Water For His Hogs

A recent caller at Mail and Breeze headquarters was C. C. Renick of Wathena, Kan. Mr. Renick is a hog raiser and this winter made a discovery that he finds of much value. Like every other good Mail and Breezer he wants to pass the idea along for the good it may do other readers. He has an automatic waterer attached to a barrel from which the hogs may drink whenever they like. Directly under this automatic fountain which is of iron, he has a lighted lamp enclosed by a box for which an excavation was made. The lamp keeps the chill off the water, enough to make it comfortable for the hogs to drink. Mr. Renick says it is surprising how much more the hogs will drink when the water is slightly warmed. On several occasions he has found the water in the barrel lowered several inches from the time of feeding at night until bed time. All this goes to prove that when water is icy cold hogs will not drink anywhere near enough, which means they are not doing as well as they might. A pint of oil in the lamp will last about 24 hours, says Mr. Renick.

It's Best to Sow Oats Early

Mr. Editor—I like good, deep plowing left rough, for oats. Just as soon as the land will work well in the spring I harrow thoroughly to make a good seedbed. Don't disk. I drill in 3 bushels of seed per acre, then give the ground one good finishing stroke with the harrow, the teeth set at quite a slant.

If oats are to be put on cornstalk ground, the stalks are cut and next thing I sow the oats with an endgate seeder. Then I cultivate the ground lengthwise, throwing the ridge out slightly to level the ground. Next I cultivate crosswise and finish with a harrowing crosswise of the last cultivation.

In putting oats on spring plowing I plow to a medium depth, never deep, then harrow thoroughly to settle the ground and drill deep. A finishing stroke with the harrow will also improve this seeding. If seed is sown broadcast, I harrow once after plowing, sow, and harrow thoroughly afterwards. This will not drag out the oats.

Oats are native to a cold climate and must get a good start before hot weather comes. I consider early sowing the most important factor in getting a good crop of oats. I have had them freeze out to a thin stand and yet had a good crop. They stood more

when thin. The heaviest crop I ever raised was sown broadcast on stalk ground and had three good snows before I could cover the seed. I then cultivated once with the rows and harrowed once crosswise. The seed had sprouts 1/2-inch long then and I thought my chances for a crop were slim, but they turned out the best ever without a weed in them. The secret was early sowing. I formerly lived in northeastern Kansas.

T. O. Newson.

R. 1, Norton, Kan.

Feeding For Breakfast Bacon

Mr. Editor—A hog grown and fattened in small quarters and fed corn, with probably some swill in addition, will often make a fair quantity of lard but the bacon will be of poor quality. On August 27 last I bought four purebred Duroc pigs, farrowed March 14, that averaged 106 pounds. They were in smooth stock hog condition and had had plenty of range after harvest on an 80-acre field of wheat stubble. I put them in an 8-acre orchard where they had oat pasture until frost killed it the first week in January. For the first month they had Kafir and the remainder of the time ear corn, with a small allowance of skim milk each day. Three of the hogs were slaughtered on January 16

thinking, and that is in June, from about the 10th to the last of the month. Cut the first crop and put it up for hay, then let the second crop get about 10 inches high and plow it under from 4 to 6 inches deep. Let the ground lie as it is four or five weeks, then give it two or three diskings. If wheat is to be sown plow again about August 10 to 30 an inch deeper than the first plowing. Then disk and harrow as much as you like, the more the better. Sow your wheat and I guarantee you will have a crop the next harvest other conditions being equal.

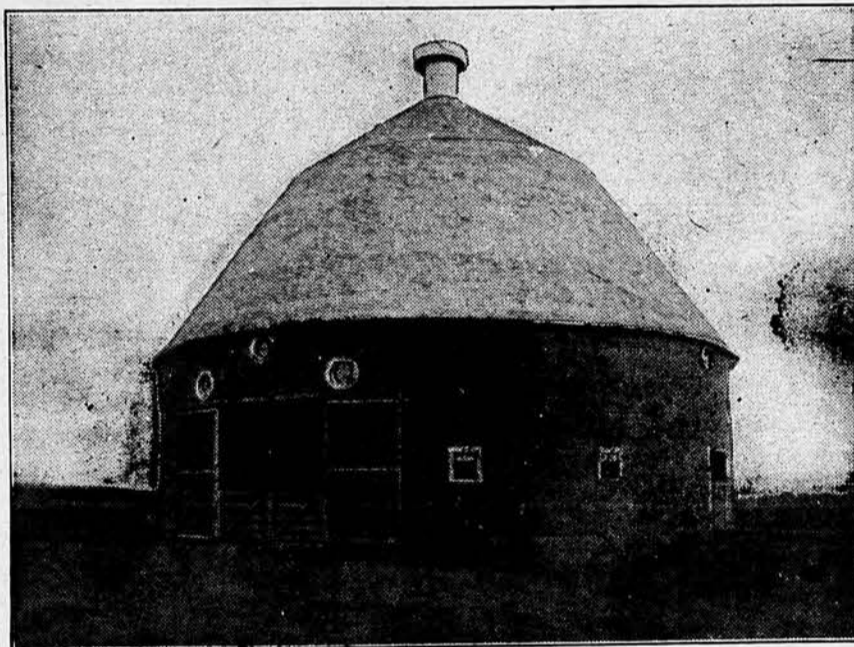
If the alfalfa sod is to be planted to corn treat it as before except that you can do the second plowing a little later. Then list your corn the next spring. Alfalfa sod plowed under any other time than in late spring will not give the roots a chance to rot well and they lie in the ground, keeping it open, and letting the moisture out. Not packing well, the soil dries out and that is when you may expect a poor crop on alfalfa sod. In June the sap is mostly in the top of the plants. The roots are also more tender at that time and will cut more easily in plowing.

Henry H. Elniff, Sr.

Randall, Kan.

When Corn Follows Alfalfa

Mr. Editor—Early in the spring of 1902 I bought a quarter of land adjoining this town that was supposed to be so poor as not to be worth farming. The year 1902



Circular horse barn on the farm of C. J. Creighton, 7 miles northwest of Washington, Kan. It is 60 feet in diameter, 52 feet to cone, and accommodates 10 horses. It has a large central feed room and two bins. The barn is fitted with a Louden hay outfit and litter carrier.

and the fourth, which my neighbors agreed was the smallest of the four, was sold to a shipper. It weighed 375 pounds. The meat from the hogs killed has the largest per cent of lean in middlings that I ever handled and will make the finest of breakfast bacon. I hope our family will not need to eat packing house meat this summer.

Do Mail and Breeze readers think this was a fair gain for 142 days' feeding? I think I could have fed so as to have produced more pounds but it was fine meat I was after more than the pounds.

A. F. Rusmisl.

Drummond, Okla.

Ways of Cropping Alfalfa Sod

Mr. Editor—I read Mr. Hatch's remarks in the Mail and Breeze of January 4 in regard to the question of poorer crops of corn from alfalfa land than from other ground that had been in grain. I think a good deal depends on the time of year the alfalfa is broken up. Also how the ground is handled after breaking. We all know that alfalfa has an enormous root system. The roots are both thick and long. It takes time for them to rot and become incorporated with the soil and that is why it is well to let the ground lie idle for a time. There is only one right time to break up alfalfa sod, according to my way of

acre per year, while the clover and timothy produced about half that value.

In order to get the best results with corn, the alfalfa or clover ground should be plowed in the fall or early winter. I am sure the renewing power of alfalfa is fully equal to that of Red clover and the crop is much more profitable. I write this letter in reply to Mr. Hatch's request in a recent Mail and Breeze, asking for experiences showing the effect of alfalfa sod on the corn crop following.

F. C. Brackney.

Burlingame, Kan.

To Have Electric Lights Next

Mr. Editor—I have an Olds 4 1/2-horsepower gas engine with which I run a cream separator, grinder, washing machine, and milking machine, all at the same time if desired. I have my engine in a building 24 by 18 feet which also serves as a workshop, and houses my auto and buggies. The milk house is built on the east side. A line shaft runs through the milk house from the engine which connects with the cream separator, washing machine, and the vacuum pump for milking. A 1 1/2-inch gas pipe laid underground from the vacuum pump to the barn 150 feet away, furnishes the suction for the milking machine.

A room on the south side of the building in which the engine is located, holds 300 bushels of corn besides leaving room for my grinder and ground feed. I have a belt wheel on either side of my engine, one to drive the grinder direct and the other to run the line shaft. I have a well on one side of the milk house and a cistern on the other, with both pumps inside the milk house. These provide plenty of water for washing, etc.

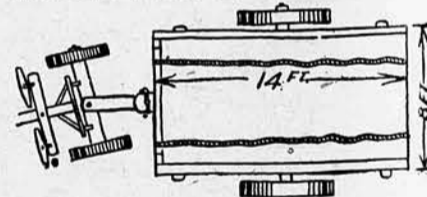
The engine is mounted and may be taken out for use elsewhere, such as grinding, shelling corn, etc. I have had the engine three years and during that time have used it an average of two hours a day, besides the outside work done with it. It has given me very little trouble. I expect to install a dynamo and storage batteries in the near future to furnish electric light for the house and barn.

Roy Clark.

R. 1, Roxbury, Kan.

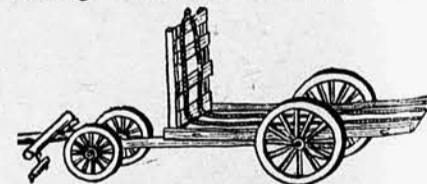
Handy Way of Hauling Feed

Mr. Editor—The best wagon for hauling feed we have ever used is the one shown in the sketches. Our feed-



How the Wagon Looks From Above.

lots are on a south slope with the feed racks all along the north side. On the north side of the racks we have four rows of hedge for a windbreak. Unloading feed from such a wagon may



Ready to Load With Feed.

be done in a fraction of the time it usually takes to do it by hand. It also leaves the hay or corn fodder in better shape. In hauling a large amount of feed we keep an extra



Taking Off the Load.

team at the lots to unload, thus saving time in taking the team off the wagon for unloading. We feed 200 cattle in this way.

Delphos, Kan.

D. D. Ballou.

We have just one fault to find with Mr. Ballou's feeding operations. He is letting a lot of good fertility get away from him by feeding on sloping ground.—Ed.

Studebaker

How Studebaker Automobiles are Made A Heart-to-Heart Story. No. 2

In our Feb. 1 issue we sketched the story of Studebaker steels and how we treat them. We tried to convey some slight idea of 40 drop forges, each with a touch now delicate, now tremendous. We told our readers something of our 40 heat-treating ovens, where steel is baked until the metal is harder than steel-armor and with a grain as fine as silk.

Today we shall move on from the great opening channels of Studebaker automobile manufacture into the shops, with their thousands of automatic machines and myriads of workmen. We do



Inspecting a finished piston with dial-faced gauge that measures to the thousandth part of an inch.

this in order that you may clearly understand the wonderful thoroughness and care with which every Studebaker car is built and so that at the end of these brief talks you can honestly say: "I believe in Studebaker cars. They are built as I would wish my own car to be built." If only we can describe clearly a little of this wonderful manufacturing organization we shall be satisfied.

First, a further word about automobile manufacture in general. We spoke last time of the difference between an "assembler" of automobiles and a real manufacturer, and the advantage every genuine manufacturer offers to a buyer. Bear this in mind as we go on.

The quality of any automobile depends first, on the engineers' designs; second, on the steels of which the parts are made, and third, upon the workmanship which builds the car.

It is of this third point of which we shall now speak.

From the forge shop, the foundry, the heat-treating rooms, the steel mill, the rough parts enter the machine shops.

In machinery for building Studebaker cars we have invested millions of dollars. Why? Because that kind of manufacture is the best, and it is a prime Studebaker principle that the best is always the cheapest. No machine remains in our plants after a better one for its purpose can be secured. That is why Studebaker is always among the leaders. And because we build 50,000 cars per year it is cheaper for us to do this, although to a smaller manufacturer a similar investment is impossible.

There are 40 acres of floor space used in the manufacture of Studebaker cars, and fully half of this floor space is covered by the best machinery known to the art of steel manufacture. Some ma-



Inspecting a finished gear wheel by testing the shape of the gear to the thousandth part of an inch.

chines alone cost as much as \$10,000. We buy them because thereby we build better cars at lower cost.

The other morning the writer stood beside an automatic machine which was slowly drawing into its mechanism a two-inch bar of the finest special cone steel. In four automatic operations this bar of steel was being converted into

ball cups for the ball bearing of the Studebaker "25" front wheels. The cup was completely shaped by this machine in two minutes, and it was accurate to within two thousandths of an inch. After being ground perfectly accurate in a special machine and heat treated for tool-steel hardness and toughness, it is ready to assemble in the front wheel of the sturdy Studebaker "25."

Farmers see every Springtime the miracle of the growing seed; the unfolding and development of life. Here, perhaps, is a miracle of man's ingenuity almost as marvelous. The cold bar steel enters and the finished bearing comes out. No man can see the wonders of modern automobile manufacture without being struck with admiration.

In the room with this same machine there are 100 other machines, and each machine cost over \$2,000. The room is 300 feet long and 60 feet wide, and there are three automatic machine rooms of this size in the Studebaker plants. There are 206 automatic machines of similar type in the Studebaker automobile plants. Most of the small steel parts in Studebaker cars are made in these machines; always with the same marvelous accuracy and rapidity. It seems colossal, but remember that we are building 50,000 cars this year, and only in this way can they be built so good and so cheap.

One man can operate several of these machines and it is only by reducing labor cost in this way that we are able to pay excellent wages and at the same time produce, for example, the \$1,200 Studebaker "35" which has no superior under \$2,000.

There are, of course, various parts too large to be manufactured by an automatic machine, and these must be ground under the supervision of an expert mechanic.

Take the Studebaker cam shaft, which raises and lowers the valves. It goes



Boring and reaming valve seats in four motors at a time. The motors are locked in cast steel arms which hold them absolutely true. Consider the economy and accuracy of such manufacture.

through two drop forges and is aged for several weeks before it is ready for the 24 remaining operations in its manufacture.

In the first operation it is cut to length; it is then put on special lathes and rough ground. It must go through several of these lathes—one to machine the shaft proper, another to "shoulder" the cams and bearings, another to machine the cams, a fourth to machine the end bearings, a fifth to machine the center bearings.

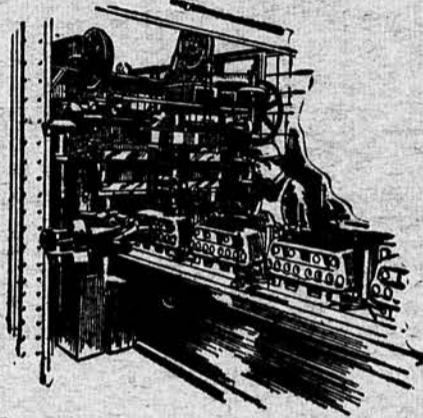
Then a heat-treatment tempers the core of the steel and a case-hardening oven bakes carbon into its surface until all the bearing surfaces are glass hard. It finally comes back to the machine rooms, where a vitrified emery wheel, turning over 1,500 revolutions per minute, cuts it within one thousandth of an inch true.

When the last grinding operation is finished the cam shaft is handed over to a final inspector, who puts it on an absolutely true cast steel base and turns it under a dial-faced gauge which tests it to the last shade of accuracy. This inspector is provided with an India oil stone as fine as a razor hone, and when he is done with the cam shaft it is absolutely perfect.

Notice here that every cam shaft we

build is identical to the last fraction of fineness with every other similar cam shaft and any shaft could be changed from car to car and give perfect results. A rifle barrel which shoots to hit and kill at a mile range is not as true as a Studebaker cam shaft.

Consider a Studebaker piston for a moment. It is cast from clean, pure



A very expensive milling machine which faces three sides of the cylinder at once, four cylinders at a time. Each cylinder is locked in a steel "pig" which holds it rigidly accurate to the grinding tools.

grey iron. Its head is mirror polished to make it too slippery for carbon to adhere to it. It is slowly ground around its diameter of 3 1/2 or 4 1/8 inches until it is absolutely true and its upper surface a few thousandths smaller than its lower surface in order that the expansion under the greater heat at the top may be compensated for.

The boring for the wrist pin bearings which hold the piston to the connecting rods, must be perfect, or the piston will not run evenly in its motor. Grooves must be cut for the piston rings; another very delicate operation, and when the piston is done it must equal, within a small fraction of an ounce, the weight of every other similar piston.

This is done so carefully in order that every Studebaker owner may get from his car service equal to that of the highest-priced cars built. The Studebaker organization has been doing business for 60 years, and it looks to the future confident, not so much in its reputation for square dealing as in its knowledge that every piece of work which leaves the Studebaker factories is creditable to the finest ideals of business skill and responsibility. We are selling not only cars which look surpassingly good, but cars that down to the last hidden detail are built to deserve every man's confidence.

Turning to the crank shaft for further illustration of Studebaker manufacture, we could fill this entire page in describing the machinery and operations necessary to make it. It is one of the most difficult parts of an automobile to make. There are no less than 12 standard tests through which a Studebaker crank shaft must pass before it can be used in a motor. These tests limit in accuracy to one thousandth part of an inch and to the smallest fractional part of an ounce in weight. In other words, a Studebaker crank shaft must be perfectly sized and balanced.

Another very important matter in the operation and durability of a motor car is the way the gear wheels are cut. From our last story you know something of the fine materials which enter the construction of all parts of Studebaker cars. A Studebaker gear is first drop-forged, as we have described, in what is known as a "blank." That is the gear at first has no teeth. It is then milled for perfect roundness and perfect center on its axis. Then it is ground for perfect width.

After it is made into a perfect "blank," the teeth are roughed out and it is ready for the cutting machine—one of the most remarkable machines ever made and, incidentally, a machine developed by a woman. This grinder cuts the finished tooth and the job is a mighty particular one. The unique teeth on Studebaker gears represent perfect efficiency curves, which means that a tooth in a Studebaker gear is in perfect contact from the moment it engages with another tooth until it disengages from that tooth.

Finally when the gear has completed its long journey through the shop it arrives at the inspector's table. He has an expensive machine, which is equipped with a master gear. The new gear is clamped into this testing machine and is rotated with the master gear in both directions under various pressures and at various speeds. If it is not perfect

it will be noisy, and if it is noisy it is discarded.

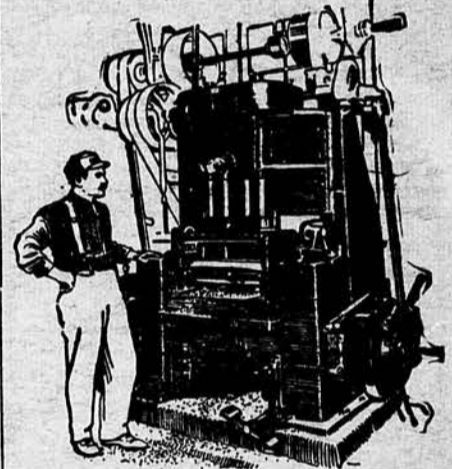
Thus we might go on describing part by part the manufacture of Studebaker cars. We shall close, however, with a final paragraph which we want you to consider deeply and carefully.

Quality in an automobile, as we have already said, depends upon the workmanship. The workman must depend to a certain extent upon his tools. If we were building a \$5,000 car we could not buy more expensive or better machinery. We could not employ more skillful labor than we do. We could not require higher standards for accuracy. In fact we do not know how we could improve any of the vital parts of our cars. If we did, we would do so. We have an immense factory which covers near forty acres. Our sixty years in the manufacturing business has given us—first, unquestioned manufacturing experience; second, financial resources sufficient to enable us to provide every mechanical facility known to the art of building quality motor cars.

It is for these sane and convincing reasons that Studebaker cars are such wonderful values. Believe in them, because from top to tires they are skillfully and honestly built. On these grounds we expect to interest you.

Naturally, we can understand why some cars cost more than others, for we ourselves manufacture one car at \$885 and another at \$1,550. But in the vital parts of each car we use exactly the same material, exactly the same expert workmanship. Studebaker standards of accuracy are just as high for the cheaper car as they are for the higher priced car. In fact, these two cars are almost identical in design. The difference is merely a question of size. Just as watches are made in different sizes, so Studebaker automobiles are made in different sizes. In each case you get a full jeweled car.

A further description of Studebaker automobiles will appear in the March 1st



Boring a cylinder for the pistons, four at a time. One of the most particular operations in the manufacture of an automobile.

issue, taking up the advanced stages of Studebaker manufacture. We trust that you will be looking for the coming story.

We regret that we could not go more into detail of manufacture in this story, but we are glad to invite you to send for our "Proof Book," which describes more fully some of the processes of manufacture and which tells the story more clearly by copious illustrations. You are welcome to it and upon your request we shall be glad to send it to you, together with our catalogue. Tear off the coupon below.

THREE GREAT CARS

Studebaker "25" Touring Car, \$885

5 passenger—Gas starter

Studebaker "35" Touring Car, \$1290

6 passenger—Electric lights, electric self-starter

Studebaker "Six" Touring Car, \$1550

6 passenger—Electric lights, electric self-starter

All prices; completely equipped f.o.b. Detroit

The Studebaker Corporation, Detroit, Mich.

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 Please send me Studebaker
 I am interested.
 Proof Book.
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 Address

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 reasonable 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.

Before the snow, plowing had been going on in this locality for a week or more and those who did the work said the ground plowed nicely there being enough moisture to make it turn over well.

Should there be lots of rain or even an average amount next spring, this winter plowing will produce well. Should the spring be very dry it may not do as well as spring plowing. We are so well up with the plowing on this farm that we shall do no more until spring even if the weather is favorable.

Out of a bunch of 35 hogs which we are feeding there is not one which is not ready for sale right now. They are mostly last May pigs and it is rare with us to have a bunch of this size and not have some of them smaller than the others. We usually sell most of our hogs at this time of the year but have always had about a load to hold back on account of size. This year all came to the front together.

With a farm sale advertised for each day of the week for the next month with in fair driving distance of this locality one would think that farm property would finally sell lower but it does not seem to. Probably for each man who moves out there is another to come in, so that supply and demand keep pretty well balanced.

For the last 5 years we have thought farmers were raising more horses than they ever had before but it seems they have not raised enough to take the keen edge off the demand. Never since we have attended public sales have we seen prices for horses so good and competition so keen. Horses with weight sell very high while the lighter ones bring all they are worth.

Shivery Mornings

You can have a taste of the summer sunshine of the corn fields by serving a dish of

Post Toasties

These crisp flavoured bits of toasted white corn make an appetizing dish at any time of year.

Try them in February and taste the delicate true maize flavour.

A dish of Toasties served either with cream or milk, or fruit, is surprisingly good.

"The Memory Lingers"

Grocers—everywhere sell Toasties.

Postum Cereal Co., Ltd.
Battle Creek, Mich.

Corn also sells at most of the sales for more than it would bring if hauled to any nearby market. Those who buy it figure that if they bought next spring they would have to haul from town so they pay more rather than go to that trouble. The man who has the corn for sale does not complain, you may be sure, for it also saves him the haul to market and he gets pay for the haul besides. However, all parties seem to be satisfied.

A friend writes from Oklahoma asking where he can find the seed of Rice corn. He says it is a North African product whereas Kafir is from South Africa. This Rice corn he says is much earlier than Kafir and as he is going to move to Colorado where earliness in ripening is necessary he would like to find seed of this Rice corn. We have never seen any of it grown and think there is none in this section. We should advise him to write to the State Experiment station, Stillwater, Okla. It is likely they can tell him where to find it. If they could not perhaps the Experiment station at Manhattan, Kan., could give him the information.

From a reader at Belleville, Kan., comes an inquiry in regard to the use of re-liners in automobile casings. We have used them quite extensively for the last two years and find them the best thing on the market to help out weak casings. However they have their faults and we are much inclined to think in summer they heat and rot the inner tubes. It is just a question as to whether the extra wear they give on the outer casings balances the damage they do to the all-rubber inner tubes. In the winter they are not likely to do much damage. So far, we have yet to find anything better than a good outer casing and a good inner tube used alone. They give better riding qualities than when anything else is put inside.

We have, in the last two years, given many things a trial that were supposed to help give better service to worn auto casings and to protect new ones. We have found nothing that did not cost, in some form or other, more than straight casings and inner tubes. The so-called fillers which make a solid inner tube are a nuisance and a costly one at that. They not only make the car ride much harder but they wear out the casing much faster than a tube filled with air. They are made of some substance that looks like the stuff printers' rollers used to be made of and cost much more than they should even if they gave good service. Outer protectors are all right to use in winter when the ground is frozen and sharp but in warm weather by all means keep them off. They will rot the rubber so that it will shed off the casing. In addition they cost nearly as much as a new casing. So that, taking it all around, there is nothing so good and nothing cheaper than straight casings and tubes.

From a reader at Reece, Kan., comes a letter with a number of inquiries. Most of them we have answered before but we answer these again as no doubt there are many who have not read what we have said before. He asks if we have found cowpeas a profitable crop. If it is profitable to raise clover and alfalfa to feed out on the farm it certainly is profitable to raise cowpeas. It might easily be possible to raise on good ground a crop of grain that would sell for more money if put on the market but we can't figure on this basis if we keep up our farms. A crop of cowpeas not only makes hay equal to alfalfa but it puts the land in good condition to raise a grain crop. It rests and changes it. Cowpeas can be used on poor ground for a short rotation and this cannot be done with alfalfa. Cowpeas have their place

and in that place it pays mighty well to raise them.

If cowpeas are sown broadcast at the rate of 3 to 4 pecks per acre they will make more hay than if planted in rows and cultivated. When planted in rows the regular width they take about 1 peck per acre. Planted this way they make less hay but more seed. Cowpea hay well seeded is the richest hay known and is practically hay and grain combined. It should be fed with care or stock may get too much. The peas are said to be about as rich as oil meal, pound for pound, and are of somewhat the same nature, being very rich in protein. Cowpea hay should be well cured when put in barn or stack. It is best to let it cure one day in the swath and then cock it up until it is ready to stack which in drying weather will be in two or three days. Sow the New Era variety as they grow more upright and make less bother in cutting. Some of the later varieties run on the ground like sweet potato vines. These can hardly be cut with a mower.

He also asks about rape, how, when and where it should be sown. Rape will grow most anywhere and at any time but for hog pasture it gives the best results if sown on pretty good ground. An old hog lot will grow an immense amount of pasture if sown to rape in the spring. We should sow it just after out-sowing time and pasture could then be expected in about six weeks if the land is rich. We have always sown it broadcast at the rate of 5 pounds per acre, having first put the land in about the same shape as if we were intending to sow clover or alfalfa. The seed can be bought of any dealer, the price ranging from 7 to 8 cents per pound. It is the cheapest seed there is to sow for hog pasture as the cost is hardly ever more than 40 cents per acre.

If rape is not pastured too heavily it will live through a pretty dry summer and will take a new start when cool weather comes in the fall and furnish pasture until well up into the winter. At this writing, February 1, there are still many live rape plants in our pasture and the hogs go down every nice day and eat enough so they come back smelling strongly of rape. What gets away with rape is to pasture it heavily during a wet season. The hogs tread it into the ground and it does not survive the later dry weather. We have a 3-acre field in rape which has furnished plenty of pasture for 45 head of pigs and hogs since May 20, 1912. When rape lives over winter, as it sometimes does, it runs up to seed the same as cabbage. It has the good quality of keeping a hog in good condition and there will be no cases of constipation where the hog has the run of a rape pasture. Probably alfalfa or clover may make a better pasture but we can't get them on short notice and on such soils as we can rape.

Stockyards Manure \$2 a Ton

The Kansas City Stockyards company is selling its accumulation of manure at \$2 per car and the railroads are making a rate on hauling it which makes it possible for farmers within 200 to 300 miles of Kansas City to get this fertilizer at a nominal figure. For more definite information write to W. H. Weeks of the Kansas City Stockyards company, Kansas City, Mo.

Four Big Papers For \$1.10

The Mail and Breeze is enabled to make the biggest clubbing offer it has ever had, and for only \$1.10 will send all four of the following papers for one year each:

THE MAIL AND BREEZE of which nothing need be told our own subscribers or those reading this copy of the paper. It speaks for itself.

THE HOUSEHOLD, a large family magazine, containing the choicest stories and departments of particular interest to lady readers.

THE KANSAS WEEKLY CAPITAL, the oldest and best weekly newspaper in the entire Southwest.

THE MISSOURI VALLEY FARMER, a big monthly farm and agricultural paper which should be read by every farmer. No liquor advertising is printed in any of these papers.

Remember, all four of these big papers will be sent to one address or to four different addresses if so desired for only \$1.10. If you are a subscriber to any one of these papers your time will be advanced another year. You will be supplied with the best class of reading matter for a full year. Don't fail to mention the names of these papers in sending in your order. Send your order to the
MAIL AND BREEZE, TOPEKA, KANSAS.



Remove One Nut and Share is Off

Off or on quick—that's the new feature. That's what you want. It's the biggest plow improvement in years.

When you see how it works you'll know the advantage of the

JOHN DEERE



SHARE

For New Deere Sulkeys and Gangs

"Q-D"—means quick detachable. Also quick attachable. You take the share off by removing one nut. Put it back and fasten it by replacing and tightening nut.

And this one nut is in a handy place—just glance at above picture. Could anything be easier? It "stays put" too. Locking lug on landside holds share perfectly tight and rigid.

Our book, mailed free, tells all about this new improvement in plows. Write for free "Q-D" Book No. QD12.

John Deere Plow Co., Moline, Ill.



Help the Horse Help You



Give him ideal working conditions. Protect his neck and shoulders with Ventiplex Collar Pads. Then see him throw his weight in the collar—then watch him pull. Then see how gladly he'll help you.

Ventiplex Pads

are made of our patent, porous, Ventiplex fabric. It's full of little air passages, allowing a free circulation of air. Absorbs moisture like a blotter. Draws it right through to the outside from whence it quickly evaporates. Easily washed. They keep the horse's neck and shoulders clean, dry and free from sores, chills, etc.

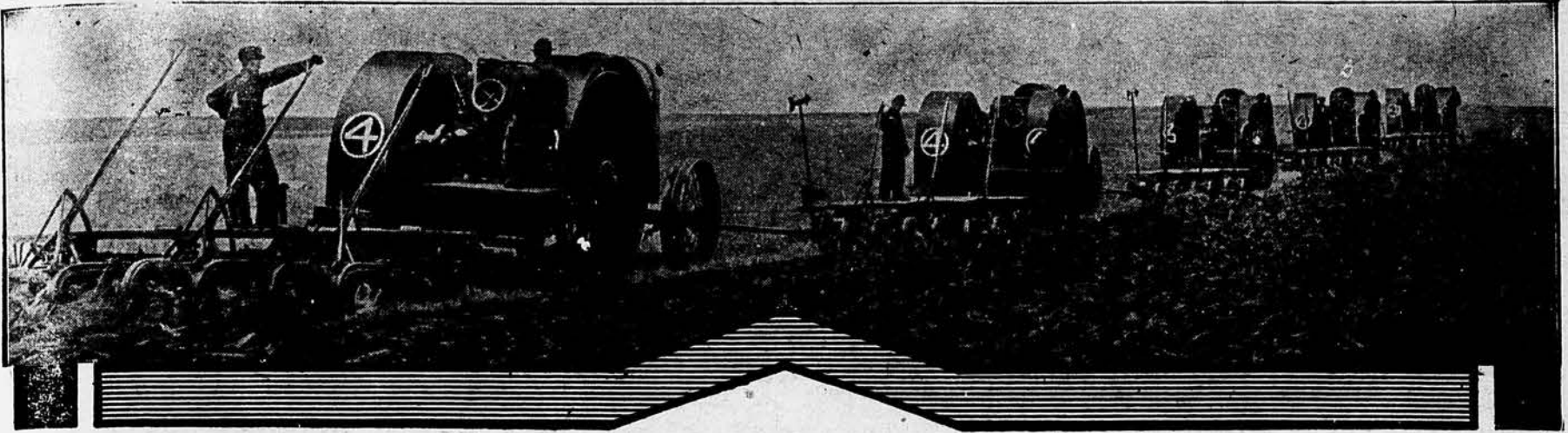
Your dealer should have them in stock. If he hasn't, write us. Tell us his name and address.
BURLINGTON BLANKET COMPANY
Makers of the famous "Stay-on" Blanket
Dept. 26, Burlington, Wis.
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Test These FREE Wheels

30-DAY TEST WILL PROVE that you can't 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 wagon. 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.



Why the BIG FOUR is Sold On Approval

Frank Woods, Bowbells, N. D., plowed an equivalent of 3365 acres of stubble plowing, and had a threshing run of 35 1/2 days.
 Murle Perry, Frankport, S. D., has broken 500 acres, plowed 1500, disced 3200 and harvested 1000 acres.

GOOD MATERIAL — CAREFUL STUDY — FINE WORKMANSHIP—Has Made Possible Our One Aim—To Build a Farm Tractor So Good That It Could Be SOLD ON APPROVAL

Lyman & Gould, Arnaud, Man., broke 2000 acres, plowed 300 and disced 2000. This with the light traction work that they have done amounted to an equivalent of 3450 acres of stubble plowing for their two engines.

Here are a few 1912 Records that we are proud of. They represent the most remarkable work ever performed by a farm tractor. Actual records like these sell BIG FOURS.

The selection of a farm tractor demands careful consideration. The investment involved suggests the wisdom of taking plenty of time for investigation and comparisons.

Investigate the BIG FOUR and you will find these prominent points of *superiority*—and many others.

Four Cylinders—Continuous, steady, enormous power. The BIG FOUR is the first four-cylinder tractor. Requires *less fuel* per developed horse power than one and two-cylinder engines.

Frame—Simple in design, of great strength—it has withstood the test of time. Guaranteed for 5 years.

Large Drive Wheels

—96 inches in diameter. They hold up the BIG FOUR on soft ground where other engines are helpless. Power is applied to *rim* of drive wheels—less waste. Patented features make the BIG FOUR Drive Wheels different from and better than others.

Light Weight—Simplicity of design, few working parts, steel construction, make the BIG FOUR lighter—yet *stronger*—than other tractors of equal power. Requires *less* power to move the engine, leaving *more* power for the load.

Perfect Cooling System—Absolutely necessary for perfect work on hot summer days.

Nels, Olsgard, Walcott, N. D., plowed 2000 acres and threshed 40 days with a 36 x 60 Separator.

Geo. Oldis, Sentinel Butte, N. D., with a Big Four Engine, plowed 1600 acres, broke 160, harvested 900 and threshed 12 days.

Transmission and Differential—Simple, strong, practical. The hardened cut steel bevel gears are guaranteed for five years.

Self-Steering Device—The BIG FOUR "30" self-steering device easily adds \$1000 to the engine's worth, yet does not cost you one cent extra. In breaking or plowing it automatically guides the engine in a course absolutely parallel with the last furrow turned, so that one man can operate both engine and plow.

time, grief and money in the end. Thousands of BIG FOUR owners will tell you the same thing.

But you do not have to take our word for it or theirs. The BIG FOUR is

Sold Absolutely On Approval

It was the *first* tractor sold this way. It is the *only* way to buy a tractor. We will send it to *your* farm at our risk. *You* will be the judge. It *must* make good.

Every BIG FOUR now in use has been *sold on approval!* Only manufacturers who know what they are putting out can afford to do this.

Big Four "30" Farm Tractor

is strictly *up-to-date*. It has *more recent improvements than all other tractors put together.*

Fuel Consumption—The BIG FOUR uses kerosene or gasoline with unequalled efficiency and economy and delivers *more power* to the drawbar *per gallon* of fuel than other tractors. The BIG FOUR is fully guaranteed for one year against defect in material and workmanship.

If you will bear in mind the above facts in deciding your choice of tractor you cannot go wrong. It will save you

REDUCES COSTS INCREASES PROFITS

The BIG FOUR "30" makes your work easier, reduces its cost and increases your profits. It plows at a cost of 30 to 50 cents an acre.

You can work the BIG FOUR 24 hours a day whenever necessary to take advantage of weather or crop conditions. It needs no rest. Always ready when most needed—the most important feature of all.

Write For FREE Catalog—TODAY

Don't wait. Even if you don't intend to buy a tractor this year *write us today* anyway. Take time NOW to investigate and post yourself. *You* ought to know *why* and *how* other farmers are *making more money* with the BIG FOUR than they ever did with horses or other engines. Drop us a postal card—but do it TODAY. Please address

Emerson-Brantingham Implement Company

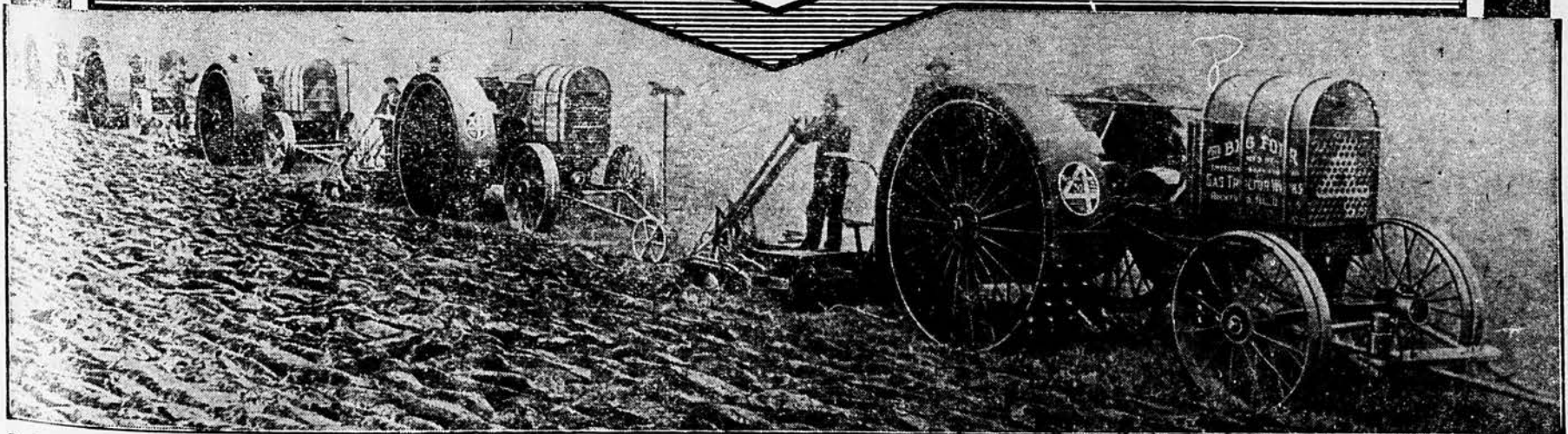
391 Iron Street Incorporated Rockford, Illinois

Plows, Harrows, Pulverizers, Spreaders, Drills, Listers, Planters, Cultivators, Stalk Cutters, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Clover Hullers, Road Rollers, Saw Mills, Wagons and Vehicles.

Kruckeberg Bros., Moccasin, Mont., broke 300 acres, plowed 500, disced and drilled 3200 and harvested with a 16-foot combine, 1200 acres.

R. E. Shepard & Co., Billings, Mont., have broken 2200 acres and plowed 800.

30666



School of Gas Tractioneering fourth term opens February 17th—fifth term March 10th at Minneapolis. Write Big Four Tractor Works—Minneapolis, for particulars

Co-operation in Selling

BY HENRY JACKSON WATERS
President of Kansas Agricultural College.

IV. CONCLUSION.

IT WOULD be very beneficial if a large proportion of our farmers produced purebred livestock and grain. The greatest single obstacle to this accomplishment is the uncertainty and the difficulty in finding a suitable market for the produce at a price that will justify the extra labor and expense incurred. At present only the largest breeders with much stock to sell, can afford the expense of extensive advertising and of exhibiting at the fairs to attract buyers from a distance. The small breeder has only the immediate neighborhood for a market. The general farmer when in need of a sire or of seed does not know where to turn except to the man who advertises or exhibits. This means that the small breeder sells to poor advantage and the more extensive breeder is required to make a large outlay to get customers for his output. It would be a comparatively simple matter to bring the buyer and the breeder together, greatly to the benefit of both and to the benefit of the stock and crops of the country.

The Agricultural College could keep a list of the available purebred cattle, horses, sheep and hogs for sale, just as it now keeps a list of the purebred wheat, corn, milo, etc., for sale. The college authorities could inspect the animals at nominal cost to the breeder and give to the prospective buyer first hand and expert information in regard to the merit of the animal and the quality of its pedigree. This would enable the buyer in any part of the state to purchase good animals at a reasonable price, and yet leave a satisfactory profit for the breeder. Another way in which the breeders might co-operate to great profit would be to lay aside their prejudices and breed but one class of stock in a community. If this were done there would be enough Shorthorn cattle, for example, produced in a community to establish a reputation for that community throughout the state and country as a Shorthorn center, and buyers would be attracted without a large outlay for advertising or showing.

A source of great loss in animal breeding is the sacrifice of sires before their value is known. Even if the value is known to be very great, the breeder usually is unable to dispose of the sire at a fair price. Every year hundreds

A DIFFERENCE

It Paid This Man to Change Food.

"What is called 'good living' eventually brought me to a condition quite the reverse of good health," writes a N. Y. merchant.

"Improper eating told on me till my stomach became so weak that food nauseated me, even the lightest and simplest lunch, and I was much depressed after a night of uneasy slumber, unfitting me for business.

"This condition was discouraging, as I could find no way to improve it. Then I saw the advertisement of Grape-Nuts food, and decided to try it, and became delighted with the result.

"For the past three years I have used Grape-Nuts and nothing else for my breakfast and for lunch before retiring. It speedily set my stomach right and I congratulate myself that I have regained my health. There is no greater comfort for a tired man than a lunch of Grape-Nuts. It insures restful sleep, and an awakening in the morning with a feeling of buoyant courage and hopefulness.

"Grape-Nuts has been a boon to my whole family. It has made of our 2-year-old boy, who used to be unable to digest much of anything, a robust, healthy little rascal weighing 32 pounds. Mankind certainly owes a debt of gratitude to the expert who invented this perfect food." Name given by Postum Co., Battle Creek, Mich. "There's a reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

of sires of great value are slaughtered at the packing houses long before their usefulness is ended and young and untried sires take their places as the heads of our herds. By such a co-operative arrangement as is suggested above, the breeder having an impressive sire could notify the college authorities and a member of the staff could visit the farm, inspect the animal and record him for sale on his actual merits. In other words, the agricultural college of each state should become a central agricultural clearing house to help farmers sell their products and buy what they need. To illustrate the value of such help: This fall Kansas had a large apple crop and it was certain that many of our farmers would have difficulty in selling these apples to advantage. A member of the college extension staff is an experienced apple merchant as well as a successful orchardist. It was made his business to find buyers for Kansas apples. More than 400 carloads were sold through this man. In the main, these sales were for the small grower and naturally the man who is inexperienced in selling this crop.

One morning a letter came to the college from a man in Leavenworth county requesting a buyer for a car of Jonathans. That same forenoon a telegram was received from a merchant in the farmer's town inquiring where he could buy a car of Jonathans. The two were brought together, and sale made, and the apples and money both were kept at home.

The college has been urging the farmers of western Kansas to grow milo and Kafir instead of corn. They have heeded the advice and now find a difficulty in selling all their surplus chiefly because it is a new crop and has not become well established in the market. The college has made a number of lists of the feeding value of this grain as compared with corn and now is negotiating with the sheep feeders of Colorado with a view of inducing them to buy western Kansas milo and Kafir instead of shipping and buying corn farther East. It is certain that such an arrangement would prove profitable to them as well as to our milo and Kafir growers.

Another example: Mexican beans are proving to be a very profitable crop for the extreme western part of the state provided the beans can be sold at anything like their value and on the basis of other kinds of beans. The college is making experiments and demonstrations as to the protein value and palatability of these beans and endeavoring to find a market for the state's surplus.

Not Raising Enough Beans

Beans of one variety or another can be grown in every state, yet the ports of New York and New Orleans are crowded with imports of beans from all parts of the world. Last year the three states of Michigan, Wisconsin and New York produced 20,000 carloads of beans, or 800 million pounds.

It seems more people are eating beans and that the demand for them is steadily growing. The canneries of this country through advertising have created a new demand for this old time article of diet. Simple white navy beans are the favorite in the market and are quoted above \$2.50 per bushel. Iowa is growing an increasing quantity.

Old land is better than new for bean culture. An inverted clover bed brings a full harvest. Bean seed needs warm ground. The most successful bean growers of the Northern states plant about the middle of June. Experts agree the plowing should be at least 6 inches deep.

In Motor Terms.

Little Majorie was motoring with her father when she suddenly screamed:

"Oh, look, papa!"

The father looked at the object she was pointing to, a dachshund.

"Just see, papa, what a long wheel base that dog's got."—Power and Efficiency.



LIGHT DRAFT PLOWS

THE draft of a plow depends nearly altogether upon the construction of the bottom, the shape of the share, the curve of the mold, and the position of the side plate. These necessary details must be worked out on a scientific basis, the secrets of which can only be discovered by actual experiments in the field. As the soil differs, so also must the shape of the plow. The greater the variety of soils the greater the number of plows necessary to meet the conditions.



P&O Gang Plow.

P&O Light Draft Plows have been on the market since 1842, and all the experimental work in designing plow bottoms was accomplished years and years ago. Today there is a P. & O. plow for every kind of soil, for every condition of these soils, in all standard sizes—walking, riding and engine gang, with every kind of attachment.

P&O Light Draft Plows are standard and supreme—made so by the use of the highest priced material, and our advanced methods of manufacture.

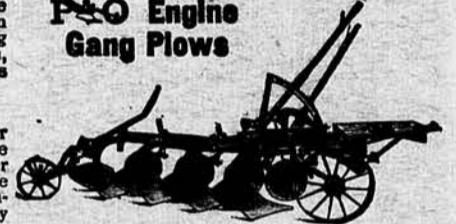
WE make no tools in which we take a greater pride than in the P. & O. Engine Gang Plows, made in several styles, both Mold and Disc, and in sizes from four to twelve furrows.

The P&O Mogul

Is made with an individual lever for controlling each bottom. The levers all point to the center of the platform. This and five other patented features are exclusive, and cannot be found on any other make. The Mogul is made from five to twelve bottoms.

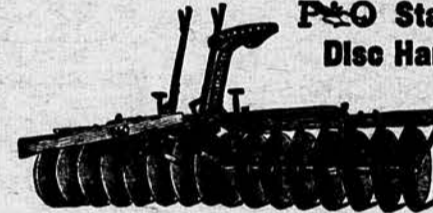
The P. & O. Junior Engine Gang Plow is made for three furrows with a fourth bottom as an attachment. All bottoms are controlled with one lever. One man can operate both engine and plow. The P. & O. Disc Engine Gang is made with four or six discs, and with a platform for the operator.

P&O Engine Gang Plows



P&O Junior Engine Gang.

P&O Stalk Cutters, Cultivators Disc Harrows, Corn Planters and Potato Diggers



We make a complete line of tillage implements, suitable for all soils and conditions. Remember that P. & O. implements have been used by three generations of American farmers, and that everything we make is

Backed by an Unqualified Guarantee.

ASK YOUR LOCAL DEALER for P&O implements and then insist on getting them. When you are ready to invest in farm implements, buy the best—the P&O line. We will gladly send P&O catalogs and other literature to any address. Write us your wants.

Parlin & Orendorff Co., Canton, Illinois

And A-G-A-I-N The Saginaw WINS!



Nobody who has been watching the Silo business was at all surprised when the news came out a few days ago that the Saginaw Silo won another big victory in adopting the Patented Angle Steel Rib. Wasn't it the Saginaw that made the All-Steel Door Frame famous? And was ever anything invented to compare with the Saginaw Base Anchor or the Saginaw Inner Anchor? No, sir! For seven years every single practical Silo improvement has first appeared on the Saginaw.

This year's Saginaw is simply a wonder! Strong as a City Skyscraper. Never a chance of the most terrific storm even budging it. It cannot blow down, nor twist, nor warp, nor collapse, nor cave in, nor tilt. Even when empty, it stands as immovable and strong as the great Rock of Gibraltar. And so scientifically is the Saginaw made that your Silo is always bright and clean clear to the edges, next to the wall. Five mammoth factories are now kept busy day and night making Saginaw Silos. The Saginaw is four times more popular than any other. Last season, in one day 687 Saginaws were sold.

Write! Rush a postal to us at once and you will soon have before your eyes the fascinating story of the World's Greatest Silo. No Dairyman or Stockman can afford to miss such a treat. Mail just a postal now, saying you want the new Saginaw Silo Book No. 61, and it will be sent you by return mail.

The McClure Company (formerly Farmers Handy Wagon Co.)
Saginaw, Mich. Des Moines, Iowa Minnesota Transfer, Minn.
Cairo, Ill. Ft. Worth, Texas

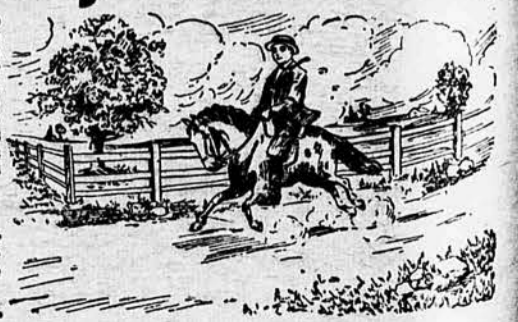
Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 619 Poplar Bldg, Des Moines, Ia.



An Idea For County Towns In the Weekly Markets of Europe

By ALFRED DOCKING, Riley County
Written for Farmers Mail and Breeze

Editor's Note—This is the first of a series of articles based on a last summer's visit to the old country by a live and observing Kansas farmer, preacher and writer. Mr. Docking is all this and more, but he is devoting himself at the present time chiefly to the first of the three. In advocating the English Weekly market for adoption by Kansas county seat towns he has a plan, which if carried out, will not only improve trade relations between town and country and bring more people to town than a street fair, but will be of the greatest benefit. In his next article he will describe the co-operative store of an English country village.

NO ONE will deny that it is a long trail from the producer of farm products to the consumer. And, no one will deny that with the present high prices of meat all the stimulus possible ought to be given to the livestock business.



A. Docking.

Europe is ahead of us in the weekly cattle markets, and in the market at certain times for other products. Each county seat or large town has its market. Suppose, for instance, it is on Monday—the livestock market. Farmers, butchers and buyers from a city like London, gather at the market square; stock is brought in, either driven over the road or hauled, and the auction begins.

Perhaps at the same time a lively sale will be going on in three or four parts of the yards, in hogs and sheep as well as cattle, the different auctioneers employed for that service by the company which controls the yards, doing the business.

The Man With a Half-Dozen Pigs.

The man with a half-dozen pigs or sheep, or with three or four cattle is able to sell his stock as readily as the man who has many. Many a farmer upon a small scale has brought in some fat stock to sell, and he then turns and buys a few pigs, or some calves or yearlings to take home. It is a general clearing house for ideas upon prices, qualities, etc.

I have before me the market returns for a week in December, 1912, compiled from actual sales, and issued by the British board of agriculture. Let me quote:

Gloucester, (Dec. 9).—At this Christmas market 570 fat cattle were offered, the majority being Shorthorns with a few Herefords, and one lot of West Highland cattle. The cattle generally may be described as very useful butchers' beasts, with no overfed heavy wasteful cattle, such as formerly were seen at Christmas time. Bullocks made up to £30 (about \$146.00), and heifers to £22-15s (about \$156), the latter being the high price of the market; trade fairly good especially for animals of the very best quality, which made 7½d (or 15 cents) per pound.

The report continues with cattle and then sheep and pigs. It covers the various markets of England and Scotland, giving besides the livestock prices, dressed beef imports, bacon, butter, vegetables, poultry, grain, in fact, all that the farms supply.

It Insures Competition.

But, to return to the advantages of such a market system, it is the opportunity of the small farmer, and to him we must look in the future to increase the supply of meat animals. At the present time if he has raised several calves from his milk cows, and carried them until they are 2 years old his only chance is to sell them to some local speculative buyer who will put them in his lots until he can gather up some more and sell as a carload. Yet, the small farmer is feeding some hogs, shoveling corn to them, has plenty of water, a good shed, and it would hardly make any increase in his work to feed the three or four steers. His problem is in selling them when he has them fat, and he is afraid to risk it.

Now, with such a weekly or even a bi-weekly market, he could drive them in and sell as well as his neighbor who

has a carload. There would be competition in the buying of such cattle, in many cases shippers buying to make up a carload or more to ship down to Kansas City or some other market.

There Is Direct Selling.

To a city like Topeka, it ought not to be a very hard problem to establish and operate such a market in a county like Shawnee and its surroundings.

Fruit, potatoes, grain, etc., are handled in these Old World markets, but usually upon another day.

There, again, the man in town can get right to the producer, and if for instance he wants so many bushels of potatoes to stock him up for the winter, he can buy them and have delivery made to his cellar or storeroom. In the stimulus to certain forms of production that directly influence the high cost of living this would be a great benefit, and it would bring a considerable amount of money into local circulation for home trade.

In the United Kingdom, there are eight of these markets that are co-operative projects. The eighth, Newmarket, was organized on the first day of January, 1913. Its capital is £7000, (about \$34,000) issued in £1 shares (\$4.86). Five of these markets pay 10 per cent per annum, and two 15 per cent. The new one will pay 15 per cent from the start, it is estimated. The North Yorkshire Farmers' Stock Mart Company, Limited, according to its last balance sheet, paid 10 per cent, and its undivided profits amount to nearly as much as the paid-up capital. Its sales were \$515,000. Newmarket is just 14 miles from each of four other market towns, and farmers and butchers feel that it is a matter of local necessity to have this market established at once.

A Chance for County Seat Towns.

The near-by market has been a great factor in the progress of farming in several countries. Ask the Irishman to part with it, and he would think you crazy. Having been right in the markets this past summer and fall, I can say it is no dream, but an actual economic necessity. What is needed now is for some county seat or other large town in Kansas to lead in starting such a plan here in the West. Business men hasten to foster a street fair in order to bring a lot of people into town, but this would be a far better magnet to draw the people, and a continuous one, either weekly or twice a month. Many a man of very average means instead of having \$35 for that stock steer, in his pocket, would have \$75 to \$80 for it fattened. That money would be at home to spend. Better to use a little energy boosting some plan to help the farmer get the most out of his corn and cattle than to wear the nerves out whining about mail order houses. If he sells that steer in the town market, he will spend that money for what he and his family need there.

Wanted—Better methods of getting producer and consumer together, to shorten the road from field and feed trough to the pantry and cellar, to lessen the high cost of living. The weekly market, similar to Europe's, will do it.

Behind Us in Some Things.

While I have made comparisons of the advantages of co-operation, etc., over seas, I might have added it would "hurry" them to compete with our livestock operations in some other lines. For instance I reached Kansas City at 6 o'clock this morning. The cattle were unloaded and driven into commission firm's pens at 8 exactly. They began to drink and eat. They were sold at about 8:25, satisfactorily, weighed at 8:30, and I left the yards for home. Only one thing better than that, a weekly county market.

But our old country cousins are way behind us in some things. Think of a farm employing 19 men and hauling out a greater percentage of manure per acre than we do, yet does not own a manure spreader and never has used one.

Not a bad time to fix up the grape vine trellis, now while you think of it.

Save the Price of a Horse



(Return Apron)

By Buying the Moline Low Down Spreader

How do You figure the Cost of your farm machinery—the price of the machine alone, or what it takes to run it?

This splendid Low Down Spreader is not only easy to load, being but 42 inches in height at the rear wheels, but it is also

"The Lightest Draft Low Down Spreader Ever Built."

We have seen the large size Moline Spreader in use in a field with other makes, under exactly the same conditions, when it required one horse less to operate the Moline Spreader than was necessary to operate the others.

In figuring the cost, then, there is a saving in buying the **Moline Spreader** equal to the price of one horse.

Correct Mechanical Construction—Steel Frame—Steel Wheels—Steel Beater—Chain Drive—Roller Bearings.

The Moline is easy on the Man and Easy on the Team.

Our Handsome Spreader Booklet Free.

Also 1913 Flying Dutchman Almanac.

Write today.

MOLINE PLOW CO.

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MOLINE, ILLINOIS



Lewis' Lye

The Standard for Half a Century
for Softening Water



Get the genuine—the can with the Quaker label.

It makes no difference what your present method of softening water or general house cleaning may be—you can always depend upon Lewis' Lye to lessen your future labors and help you accomplish more.

The uniform purity and strength of genuine Lewis' Lye is guaranteed by ourselves and your grocer.

It is the only lye made and marketed by manufacturing chemists and is absolutely the best and most economical for—

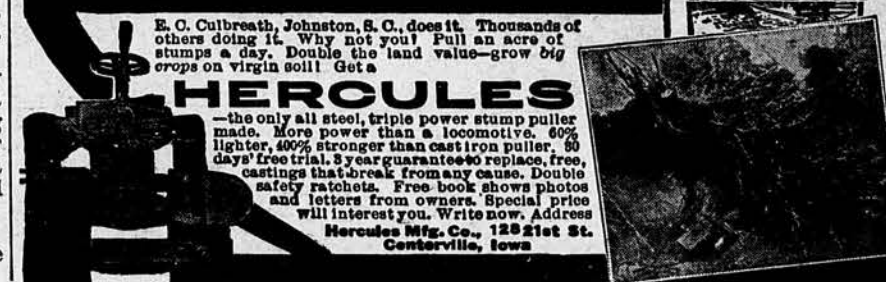
Making Soap—Softening Water—Household Cleaning—Disinfecting Purposes—Preventing Hog Cholera and Worms—Destroying Vermin—Spraying Trees, etc.

Valuable book of suggestions on the many uses of Lewis' Lye mailed free on request. Simply address:

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Manufacturing Chemists
PHILADELPHIA

Biggest Stumps Pulled For 4c Each—In 5 Minutes!

Free Book



E. C. Culbreath, Johnston, S. C., does it. Thousands of others doing it. Why not you? Pull an acre of stumps a day. Double the land value—grow big crops on virgin soil! Get a

HERCULES

—the only all steel, triple power stump puller made. More power than a locomotive. 60% lighter, 400% stronger than cast iron puller. 60 days' free trial. 3 year guarantee to replace, free, castings that break from any cause. Double safety catches. Free book shows photos and letters from owners. Special price will interest you. Write now. Address Hercules Mfg. Co., 128 21st St. Centerville, Iowa

Power For Every Job

This spring, if you have the "old reliable"

Hart-Parr Oil Tractor

to back you up, you can do all your plowing, discing and seeding in quick succession without delay. Do it all in half the time it takes you with horses. Easily save 50c to \$1.00 an acre.

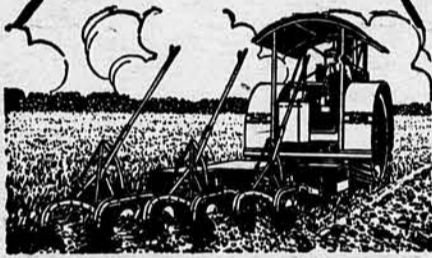
As soon as spring opens up, you start your steel muscled Hart-Parr and work it at full speed. Finish several weeks ahead of your neighbor, who must first round his horses into shape to stand the heavy strain.

There is almost no limit to the time saving and money making ability of a Hart-Parr Tractor. You can harvest and thresh with it. Grind feed, shell corn, husk, fill silos, haul crops to market, make good roads; in fact, do countless farm jobs that require big, dependable power.

One man easily operates and cares for the tractor. It uses **cheapest kerosene** at all loads. Costs little for up-keep. Has record for fewest repairs. Many other important features are fully explained in our new 1913 catalog.

Write for a copy and also get our literature on power farming costs.

HART-PARR COMPANY
234 Lawler St. Charles City, Iowa



Protect your stock and grain with a durable weather-proof roof

Certain-teed

(Quality Certified—Durability Guaranteed)
Roofing in Rolls and Shingles



It's the best you can buy. Look for the **Certain-teed** label of quality and 15-year wear guarantee on every roll and crate of shingles. Ask your dealer for prices—he can save you money.

General Roofing
The World's largest manufacturer of Roofing and Building Papers

Get Our New Book—

"Modern Building Ideas and Plans"—It would ordinarily sell for \$1, but as it shows the various uses of **Certain-teed** Roofing, we will send it to you for 25c—or you can get it FREE from your lumber, hardware or building material dealer.

General Roofing Mfg. Co.
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Old Reliable Four-Burr Mills

No Gearing
No Friction



Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 2-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the Famous **lowa No. 2 mill** for \$12.50. Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

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88 8th St., Waterloo, Iowa

You Be the Judge

Use a "Bull Dog" ten days free. If it doesn't grind feed faster, finer, cheaper than any other mill you ever saw—send it back at our expense.

Bull Dog Burr-less Feed Mill

Try It Ten Days Free
Cob or grain—wet, dry or oily—all the same to this mill. High speed, light draft rollers grind 5,000 bu. before dulling. Force feed—can't clog. Write for details, stating H. P. of engine. Letz Mfg. Co., 255 East Road, Crown Point, Ind.

Good Pasture Crops For Hogs

BY HENRY J. WATERS,
President Kansas Agricultural College.

Except where alfalfa is an assured success, it is not safe or even desirable to rely upon a single crop to furnish hog pasture throughout the entire season. It is better to arrange for a succession of pastures from the beginning of the season until the hogs are ready for market, making the feed richer and more concentrated toward the close of the season as we approach the finishing or fattening period. For this purpose, Red clover or alfalfa, cowpeas, and soybeans are recommended.

To provide a crop of cowpeas in the best condition for hogs, select some very early maturing sort and sow rather earlier than advised for a general crop. For this purpose the New Era, Sherman's Northern Prolific or Warren's Extra Early, are best. These are to be sown about the middle of corn planting time in rows about 30 inches apart. Cultivate shallow and level as often as necessary to hold weeds in check.

Make Two Plantings of Cowpeas.

For best results the hogs should not be turned on peas until the first pods are turning yellow. The peas will, however, make good pasture before this time, and if the hogs are needing pasture it is not advised to wait until that stage of maturity. About the end of corn planting time a larger area of cowpeas should be sown. For this purpose the Whipcorwill is recommended, or a second sowing of New Era may be made. These may be sown broadcast or what is better, sown with a grain drill letting all hoes run. Use from 1 to 1½ bushels of seed per acre. They will require no subsequent cultivation and will come on about the time the earlier varieties mentioned have been eaten down. It is considered still better and more economical of seed to sow in rows and cultivate as above suggested.

As a grain crop to use in connection with corn for crowding the spring crop of pigs to market, the soybean is very valuable. It is a grain plant, very rich in protein, and while the hogs are running on soybeans they should have access to corn to balance the ration. The soybean matures about the same time as a medium early corn, like Reid's Yellow Dent. The two crops should therefore be grown in the same field and the hogs could have access to both without further labor.

Soybean Best for Finishing.

Choose the early yellow variety. Sow in drills about 30 or 40 inches apart. Use about 3 pecks to the acre and cultivate shallow until the plants completely shade the ground. The hogs should be turned in when the first pods begin to ripen. The soybean is regarded as somewhat better for finishing a bunch of hogs than the cowpea but if one does not care to bother with so many different crops the cowpea may be used instead, with satisfactory results. It is always well to give brood sows access to early sown wheat or rye in winter or early spring. Also let them have a limited amount of nicely cured clover, alfalfa or cowpea hay by way of a variety of feed. Sorghum stalks grown as is customary for the production of sirup make an excellent addition to the ration. The main thing to be avoided in carrying hogs of this sort through the winter is a straight corn diet. The greater the variety of cheap materials like these the better the sows will do.

Banish Grade Sires Entirely

Mr. Editor—I read the article by Mr. Lamer on "Kansas Can Lead in Horses." Of course it can lead, but as long as some grade sires we have in Kansas are allowed to stand for public service, the Kansas horse will improve very slowly. As long as the law allows such sires to stand, there will be a certain class of windjammers who will keep these grade horses around and will blow about what good colts they get. They boast about the colts but forget about the kind of horses they grow into. Any horse can get a good looking colt.

There will be more registered horses standing for service and they should be worked in the harness every day. That would mean more colts and a good deal better ones. Why cannot grade stallions be eliminated entirely? What are scien-

tific methods good for if they do not eliminate the inferior stallions? If all real horse breeders in the state would put in a fight for registered sires only, we would soon see a vast improvement in the Kansas horse. I hope that all horsemen and farmers that believe in registered sires, will be heard from through the Mail and Breeze.

Mare owners have a part to do too. They should take better care of mares at breeding time. Have the mare gaining in flesh instead of losing at the time you breed. Don't work her for at least a day before and three or four days after breeding, if possible. What does a little work amount to compared to getting the mare in foal in good condition?

Kincaid, Kan. E. E. Hall.

Kansas Excellence in Beef

A fine likeness of the purebred Angus steer Insurgent Envoy is shown on the cover page. He was bred and reared by Parker Parrish, Hudson, Stafford county, Kansas, and was exhibited last fall at the big shows by Kansas Agricultural college. The college bought the steer of Mr. Parrish when he was a yearling and immediately began to fit him for the show ring. Last fall, as a 2-year-old, Insurgent won first in his class, and was champion Angus steer at the American Royal show in Kansas City; first in his class, champion Angus steer, and reserve champion 2-year-old over all breeds and grades at the International Livestock Exposition in Chicago. In the Clay-Robison specials at the same show this steer won first in his class and was champion steer of any age. Insurgent was sold at auction after the show for 13¼ cents a pound. He weighed 1,670 pounds, so the price received by the college was \$229.62.

Almost No Cattle for Europe

The rapid disappearance of meats and breadstuffs from the exports of the United States is sharply illustrated by the figures of the calendar year 1912, just completed. They show an exportation of but 33,000 cattle in 1912, against 164,000 in 1911, 277,000 in 1908, 494,000 in 1906, and 590,000 in 1904.

The exportations of meat also show a marked falling off, especially those of fresh beef. The exports were but 9 million pounds, against 29 million in 1911, 156 million in 1908, 270 million in 1906, and 354 million in 1901, the fresh beef exports of 1912 being less than 3 per cent of those of 1901. In other meats there is a marked decline.

The total value of meat and dairy products exported approximated 145 million dollars, against 181 million dollars in 1908 and 209 million dollars in 1906.

Breadstuffs exported in 1912, while showing a larger total than in 1911, are far below those of earlier years.

Are Purebred Colts Hardy?

Whether or not it costs more to raise a purebred colt than a grade, is to be decided by an experiment now under way at Kansas Agricultural college. W. A. Cochel has selected 20 colts, 10 of them purebred Clydesdales, Percherons, Belgians, and 10 grades of the same breeds. One lot is to receive oats, alfalfa hay and corn fodder. The other lot will be fed in such a way as to receive the same food nutrients as if oats had been included. The lot receiving oats and alfalfa hay will get its corn fodder while running in the pasture.

All the colts are fed in an open shed and during the day are kept outside in the pasture. Their coats are heavy and they are in the best of condition. The lots are divided into five purebred and five grades, five fillies and five horses. The question to be answered is: Has a purebred the same opportunity to develop as the grade, or is it as much a matter of feeding as of breeding?

Speaking of the Mail and Breeze.

The Mail and Breeze is too good a paper to ever think or forgetting to renew, so I hope if I ever do forget you will remind me in a hurry.

S. E. Richardson.

R. 1, Marion, Kan.

Green feed of some kind is a winter egg requirement. Cut alfalfa hay, sprouted oats, cabbages, roots, etc., will all answer the purpose.



Small Fields Too

Tractors aren't meant for big farms and large fields only—a



15-30 h.p.

will plow fenced fields of 8 to 10 acres profitably. Some farmers use the Oil Pull on three-acre patches.

It's all in laying out the land and planning the work.

Our Plow Data-Book, No. 338, has all the information you need for laying out fields and caring for them.

What can be done with a tractor is explained in our Oil Pull Data-Book, No. 352. Write for both books.

Ask for the name of our nearest dealer.



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LATCH STRING

Is Out for You at GALLOWAY'S



You owe yourself a visit to Waterloo, Iowa. A little vacation right now will do you a world of good. Come! The moment you get off the car at Galloway Station, you're Galloway's personal guest—no expense free entertainment—put up at our \$50,000 Agricultural Club and enjoy every comfort and luxury. Remember, this Club was built for my farmer friends and their families.

Bargains—If You Want Them!

Go through my factories. See how Galloway Spreaders, Engines, Separators, Harrow Carts, are made. Satisfy yourself about quality—they are made. If you like save big money on anything you need. I'll give you lowest, direct factory prices and a special 5% discount if you cut out and bring this "ad."

No Obligation to Buy

Look around. Have a good time. Get posted on real values. They, buy if you want to—if not, all right! There are other factories in Waterloo. I'll put you in touch with my competitors so that you can get all the facts. Isn't that square? That's the Galloway idea. Everything fair and square at every turn of the road.

Write Me That You Are Coming
Wm. Galloway, Pres., WM. GALLOWAY CO.
208 Galloway Station, Waterloo, Iowa 277

\$2842.00 Profit In 70 Days on Ensilage Fed from Champion Silos

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These stories bound in portfolios are free with catalog to silo prospects. They are interesting and instructive. They show how others do it, how you should do it, why it is safest and best to get a Champion Silo with solid steel interlocking door frame with malleable lugs, combination latch and ladder, steel anchors, etc. Get full particulars free today. Learn how to make silo profits like this. Address:

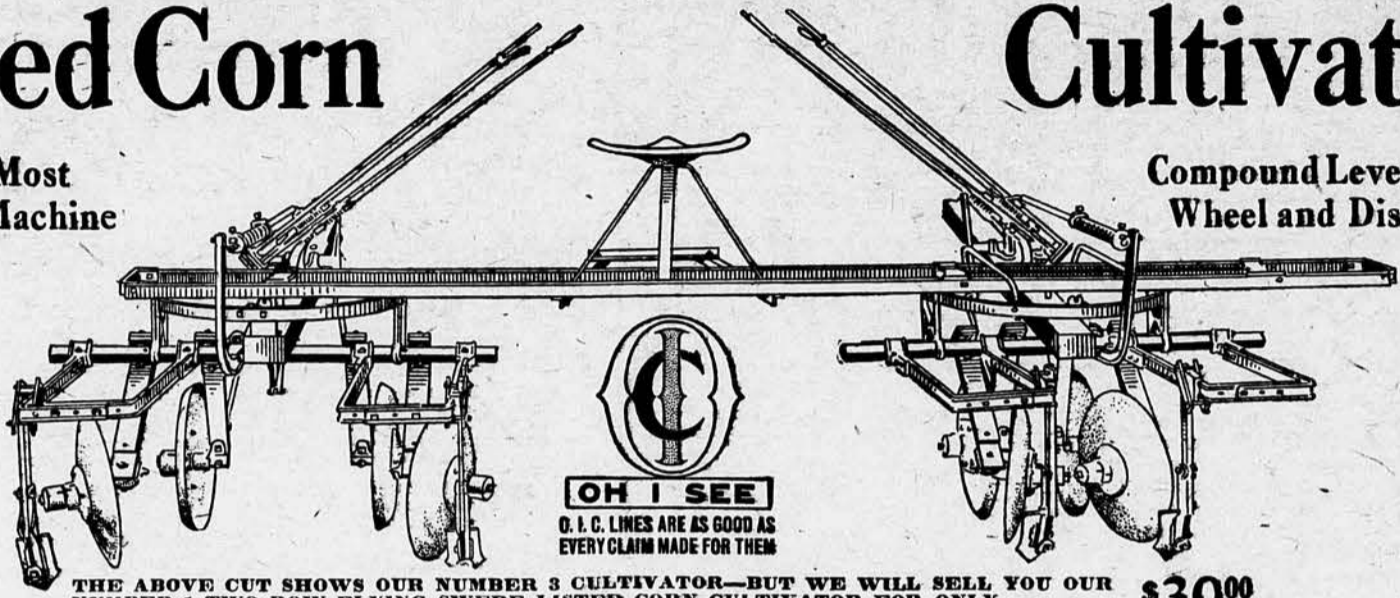
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The Flying Swede

Listed Corn Cultivator

Latest and Most Improved Machine

Compound Levers Steel Wheel and Disc Arms



OH I SEE
O. I. C. LINES ARE AS GOOD AS EVERY CLAIM MADE FOR THEM

THE ABOVE CUT SHOWS OUR NUMBER 3 CULTIVATOR—BUT WE WILL SELL YOU OUR NUMBER 1 TWO-ROW FLYING SWEDE LISTED CORN CULTIVATOR FOR ONLY\$30.00

The Flying Swede was the first successful Lister Cultivator sold in the States of Kansas, Oklahoma, Nebraska and adjoining states. I say it is the best on the market today. Thousands of the Flying Swede Lister Cultivators are giving the best of satisfaction to thousands of farmers—perhaps you are one of them, if not, you will have no trouble to find a neighbor who will testify to the superior merit of the Flying Swede Cultivators.

The trust manufacturers have brought about a condition on the kinds of implements upon which they control the principal portion of the trade which makes the farmer pay from 10 to 30 per cent more than he should were the prices based upon the cost of production. Now I cannot afford to pay for space in this publication to tell you the real reason why, but when I will sell you a Two-row Flying Swede Listed Corn Cultivator for \$30.00, I am selling it on a base such that if I manufactured a full line of farm implements and added the same percentage of profit to the shop cost that I have added to the Flying Swede Cultivator, I would be able to sell you—

- | | | | | | |
|--------------------------------|---|---------|------------------------------------|---|---------|
| A first class Corn Planter for | - | \$32.00 | A 5-foot cut Mower for | - | \$40.00 |
| A 14-inch Gang Plow for | - | 40.00 | A high grade Lewis Hay Stacker for | - | 36.00 |

If you don't believe it, just ask me for descriptions and prices on some of these implements I have mentioned

Now the trust manufacturers charge exorbitant prices for the lines that they have the principal trade on and I think the Association dealers are to blame for handling their goods, for they perpetually say "stick to the old lines and be loyal to the manufacturer". (And they appear to act accordingly, regardless of price and ignore the welfare of the farmer).

Now let me tell you the facts. I own my factory and there are no stocks, bonds or mortgages on record against it. I have a large water wheel to supply the power to generate electricity to propel the machinery—all of which helps to build high grade Flying Swede Cultivators and other farm tools at a low first cost. But regardless of the cost of production just think of the exceptional opportunity you have to get one of these Two-row Flying Swede Cultivators for \$30.00; a One-row for \$22.00, free on board cars either Kansas City, Wichita, Council Bluffs or Topeka and you don't pay one cent to me for it until October 1, 1913. Order the Cultivator now, cultivate your corn, thresh your small grain, then pay me October 1st.

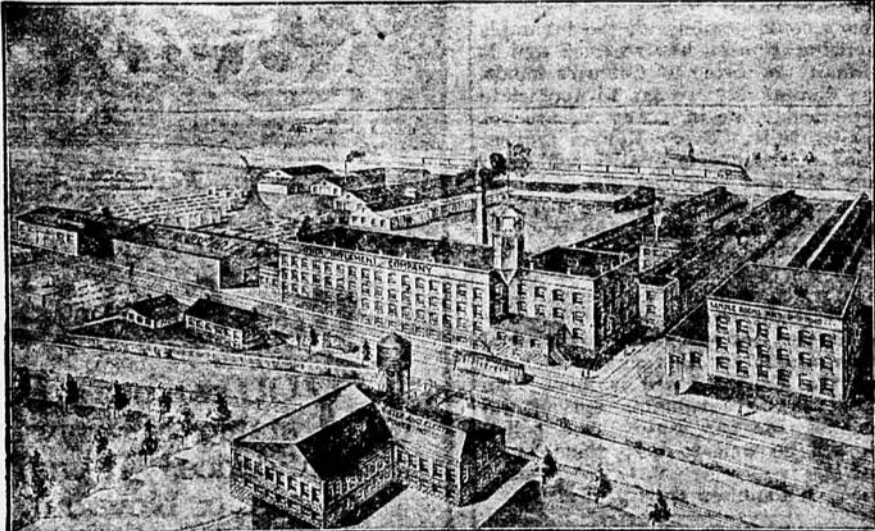
I guarantee the Flying Swede to do the work intended for it and you know, when you buy it on time so long that you can harvest a crop before paying for it, that my guarantee is as good as if I was worth ONE HUNDRED MILLION DOLLARS.

If you need a new machine or repairs for an old one, you best write us today ordering the goods.

Now don't be led astray by anyone who tells you that the Gang Plow which he asks \$55.00 to \$70.00 for, costs more to build than a Flying Swede Two-row Cultivator, for it doesn't. I will pay \$100.00 in gold to any trust manufacturer in the United State who can show that the raw material and shop labor, exclusive of over-head and figure-head expense, costs them \$1.00 more to build a 14-inch Gang Plow, ready for shipment, than what it costs to build a Two-row Flying Swede Lister Cultivator, providing they use as good material as we actually do put into the Flying Swede.

Now I am presenting the facts to you as I see them, free from exaggeration and if you western farmers will give me cooperation, I will bring about a condition that will save you millions of dollars per year. Besides, where else can you buy a Lister Cultivator as good as a Flying Swede, regardless of cost, with the original rocker movement; four levers placed in the most convenient position ready to obey the slightest touch of the operator; with dust-proof wheel bearings; long-lived hard maple boiled in oil disc bearings; rosette disc adjustments, so that the discs can be set to meet any required adjustment; a perfect working rigid steel board to connect the Gangs. In short, remember it is easy to imitate, but the Flying Swede is emblematic of all that has been tried and has been proven true, found to be practicable, durable and fully meeting the demands of the farmer, while the price is only \$30.00. You can order today and pay October 1, 1913.

SHOWING CUT OF OUR FACTORY AT MARSEILLES, ILLINOIS. LOCATED BETWEEN THE ILLINOIS RIVER AND THE ILLINOIS AND MICHIGAN CANAL, AND ON THE CHICAGO, ROCK ISLAND AND PACIFIC RY. AND THE CHICAGO, OTTAWA AND PEORIA INTER-URBAN RY. THUS AFFORDING US EXTRA GOOD FACILITIES FOR SHIPPING. ANOTHER ADVANTAGE OF OUR LOCATION IS THAT THE POWER FOR OPERATING OUR FACTORY IS SECURED FROM THE ILLINOIS RIVER. A LARGE DAM IN THE RIVER TURNS PART OF THE STREAM INTO A MILL RACE, FROM WHICH IT PASSES THROUGH A LARGE WATER WHEEL IN THE POWER HOUSE. THIS WHEEL TURNS THE PULLEYS OPERATING THE GENERATOR WHICH SUPPLIES ELECTRICITY FOR POWER AND LIGHT. WE EXTEND A CORDIAL INVITATION TO ANY WHO MAY BE INTERESTED TO VISIT OUR FACTORY AT ANY TIME IT MAY SUIT THEIR CONVENIENCE. WE WILL TAKE GREAT PLEASURE IN SHOWING YOU JUST HOW AGRICULTURAL IMPLEMENTS ARE MADE.



I WILL MAKE A PRESENT of a Swede Terror Cultivator

to the first farmer who can show as a fact that he can get as high a grade machine from the same small first cost from any other manufacturer in the United States as I will give to you during the next 30 days, so write today ordering or stating what you want, and get our large catalog, No. 2.

O'NEIL IMPLEMENT COMPANY
 Flying Swede Factory at Marseilles, Illinois
La Salle, Illinois

Horse Disease Facts Wanted

Can You Answer These Questions?

THE help of the Mail and Breeze and its readers has been asked to bring an important inquiry in regard to the recent horse plague to a conclusion that it is believed will settle all dispute as to the cause of the disease and probably do much to prevent a recurrence of the epidemic in future.

This request has come from one of the investigators who has been conducting a research ever since the outbreak last fall. He wishes his name withheld at the present time.

There is still much the same difference of opinion among the experts who studied the outbreak, as existed during the epidemic. So far as any general agreement among them is concerned, the cause of the disease is still not definitely known. There is probably not a man in all Kansas, and especially not one in the territory that was visited by the mysterious "horse plague" who would not do everything he could to help find out the true cause, and thereby come nearer preventing the return of the disease.

If every farmer in the stricken districts who reads the Mail and Breeze, whether he had the disease on his place or not, will answer the following questions while his experience with or observation of the disease is still fresh in his mind, this investigator says most valuable information will be obtained.

To this end the Mail and Breeze will be glad to have you answer the questions, as given, by number, and return the answers for compilation. Afterward the result of the inquiry will be published with comment.

Here Are the Questions

- 1—Did you find it extremely hard to keep your horses fat and in condition during the winter of 1911-12 and last spring?
- 2—Did you have plenty of feed for them?
- 3—Did your horses have good shelter?
- 4—Did your horses have voracious appetites?
- 5—Did you buy any greater quantity of condition powders than usual?
- 6—Did you give your horses any worm medicines?
- 7—If you did, did you note any inch to 2-inch darning needle like worms?
- 8—Did your horses do better after the worm medicine?
- 9—Did your horses do better after the green grass came and their bowels loosened up?
- 10—Did you notice how hot the weather was in July and August or was it unusual?
- 11—Was there a heavier rain than usual in August in your locality?

12—How many inches fell? On what date?

13—Was it extremely hot and therefore muggy and humid for several days after this?

14—Was there less wind than usual to carry away the moisture?

15—Did you harvest? When? After harvest did you turn your horses in pasture? When?

16—Did you lose any horses? How many?

17—What date did the first one die? The last? When did the first horse become sick on your place, or within 10 miles of you?

18—What ages? Did you take your horses off of the pasture? How many died afterwards and how soon? What drugs and doses of each and how many doses did you give and when for each?

19—Did your mares abort during or after the horse plague? Have you had any cases of colic among your horses since the horse plague? Do any of your horses have raw skin wounds that will not heal? Do any of your horses that recovered act any differently than they did before the disease?

20—Will you let each of your horses have a tablespoonful of the following mixture in a bran mash before feeding every morning for two weeks, beginning Tuesday, February 18?

- 1 pound.....Iron sulfate
- 1 pound.....Copper sulfate
- 1 pound.....Glauber salts
- 4 pounds.....Epsom salts
- 1/2 pound.....Tartar emetic
- 1 ounce.....White arsenic
- 10 pounds.....Common salt

21—On Tuesday, March 4, will you give a bran and linseed mash?

22—On Wednesday, March 5, will you fast your horses?

23—On Thursday, March 6, will you have your veterinarian give the following bolus or pill to each 1,000 pound of horse or one he thinks as good?

- 3 dramsAloin
- 2 dramsCalomel
- 1/2 dramBeechwood creosote
- 1/2 dramSantonin
- 1 dramGinger

Do not give this pill to pregnant mares because purges might cause abortion.

24—On Friday, March 7, and for a few days, will you watch the manure carefully, and send us two or three samples of each kind of a worm from each horse? Package should be sent to the Mail and Breeze and be marked "Worm Specimens." It should also give sender's name and address.

25—Will you write us later as to whether your horses were easier to keep in good condition after March 7?

26—What do you think caused the horse plague?

27—Remarks.

Mail your answer to these questions, or as many of them as you can answer, as soon as possible to Farmers Mail and Breeze, Topeka, Kan., marking one corner of the envelope "Horse Plague Inquiry."

Politicians and Coburn

THE people of Kansas will not look kindly upon an effort to make the important post of secretary of agriculture a political job for a nonentity, as it now is in so many other states where the office and the man who holds it are both light-weight, obscure and useless.

In a change of administration there is always danger of destructive work along with the constructive. The people do not look with disfavor on a change in the offices which are considered legitimate political rewards, but they draw the line when it comes to tearing down efficient and useful institutions that have been the development of years, or of weakening or impairing them in any way, however adroitly it may be done or attempted.

If the present legislature should permit its purely political contingent to tamper with Kansas' most famous and widely known institution, its agricultural department, it is not only certain to be reckoned with at home but will, together with the state and people, meet with the most unenviable criticism throughout the United States.

When Coburn became secretary of agriculture, Kansas was the butt and jest of the nation agriculturally as well as in every other way. And loath as we are to admit it, there are other states in the neighboring West which, all things considered, might properly be said to overshadow us good and plenty. It is due to the genius and ability of Coburn and to the good business sense

of the Kansas people who have kept him where he is, that the good name and fame of Kansas with that of the publications of its state board of agriculture are nation wide.

Money could not buy all the favorable advertising Kansas has received and is continually receiving at Coburn's hands. At no distant day we are to appreciate its practical value in a way we are yet to realize fully. Every Kansas product of good merchantable quality will ultimately bring a premium either in demand or price in the country's markets, simply because Kansas is the best advertised state agriculturally in the Union. There is no western commonwealth which understands the value of this advertising but would gladly welcome the services of a Coburn if it could get one simply for this service alone.

But the Kansas board is more than that, it is an invaluable agricultural pacemaker for the state. The politicians will do well to keep their hands off of it.

Alma, Wabaunsee county, Kansas.

The Mail and Breeze "Splendid."

We think the Mail and Breeze is a splendid paper and would not like to be without it.

R. I. Stafford, Kan.

It is a pretty safe investment to put money into a good dairy calf or heifer at any time, provided of course you can give her the right kind of care.



Don't Buy a Car On Appearance Only

"Handsome is as handsome does."
Many automobile buyers overlook power, endurance and economy and choose a car mostly on appearance. Of course you want an attractive car. But even more important is the question "How long will it stay attractive?" A more beautiful car than the

Apperson "Jack Rabbit"
The Car With the Powerful Engine

—no man can ask. In design, in finish, in comfort, in equipment, it leaves nothing to be desired. Apperson cars are especially clean.

Back of its beauty is the strongest frame and longest record of satisfaction. The "Jack Rabbit" is the direct descendant of the first American Automobile—built by the Apperson Brothers in 1893. It is proved by 20 years of service. It is the refined successor of cars 17, 18 and 19 years old that are still doing duty.

Of the 17,000 Appersons now in use, the average age is 8 years. Take no chances with unproven cars. The "Jack Rabbit" will last you a lifetime—it is most economical in upkeep. It has dozens of exclusive points of advantage over all other cars. Write for booklet today and get posted on all these points.

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Save the Pigs This Year A Noted Swine Breeder's Suggestions

By C. F. DIETRICH, Richmond, Kan.
Written for Farmers Mail and Breeze.

THERE is no part of stock breeding for which time is better spent or paid for, than in giving personal care to the "old sow" at farrowing time. If she kills or otherwise loses half her pigs because she has not had this care you are the bigger loser. In this case, should she happen to be a young sow she will not be an even suckler for the next litter and there you will lose again. If, fellow breeder, you have never given the sows your personal attention at this time, try it this year and see how big your wages will be for these few extra hours.

February and March are important months to the hog raiser, and especially the hog breeder. Many sows are due to farrow in these months, the weather is cold and unless proper precautions are taken a big loss by chilling and freezing is certain. Early pigs are the good sellers with the breeder of purebreds and a few suggestions at the present time may help some one to save a valuable litter.

From four days to a week before farrowing time separate your sow from the hog she has been running with and put her in the pen in which she is to farrow, so she will become accustomed to the new quarters. Treat her kindly, so she will allow you to be about her when she is farrowing.

Before putting the sow in the stall she is to farrow in, have fenders placed about 7 to 8 inches from floor and about the same distance from the wall, extending around the inside of the hog house, or stall, that she may not lie on her pigs and kill them. I find a 2 by 4 scuttling is good, but a nice pole 3 to 3 1/2 inches in diameter is just as good. Secure the fenders firmly by bolts or big nails, as sows are often quite rough while getting ready to farrow.

If you have no means of heating the farrowing house, you can use a Perfection oil stove for this purpose if the house is small. These stoves are not very expensive. Place the stove in a corner and box it off so the sow cannot get to it or get straw in next to heater and cause a fire.

Four or five days before farrowing I feed sows largely on slop of 1/2 shorts and 1/2 bran. If the sow has been largely on a corn diet I would still give her a small amount of corn.

After farrowing give only water for first day, a light feed of bran slop for second day and gradually increase by mixing shorts with bran until the sow is on full feed. This will depend, of course, upon size of her litter.

Keep the sow supplied with fresh bedding, but not too much of it. They only require a reasonable amount. Watch when she begins to make her bed. Have a barrel with some straw in the bottom

of it. Place a gallon jug containing some hot water in the center of the barrel, but have the jug well wrapped with a sack and another sack handy to cover the pigs when they come. Here is where the hog house with stove in it will be appreciated, for you can keep comfortable as well as the sow and pigs. If you have to depend upon a little single hog house, or shed, you can help it very much by putting up some rough hurdles about 8 to 10 inches from outside walls, and filling in the space with waste straw or hay. Then hang two lanterns up inside of the shed and keep the door closed while the sow is farrowing and for the days following if the weather is cold.

A small convenient farrowing house of cheap construction is made 7 or 8 feet by 16 feet with shed roof. In the center of this shed make two partitions, leaving the aisle 3 to 3 1/2 feet wide. In this aisle you can put a small stove and use a galvanized roof jack to run pipe through. This way you have two nice farrowing pens and a place for yourself while looking after the sows. Later this aisle can be used for a "creep" for feeding the pigs.

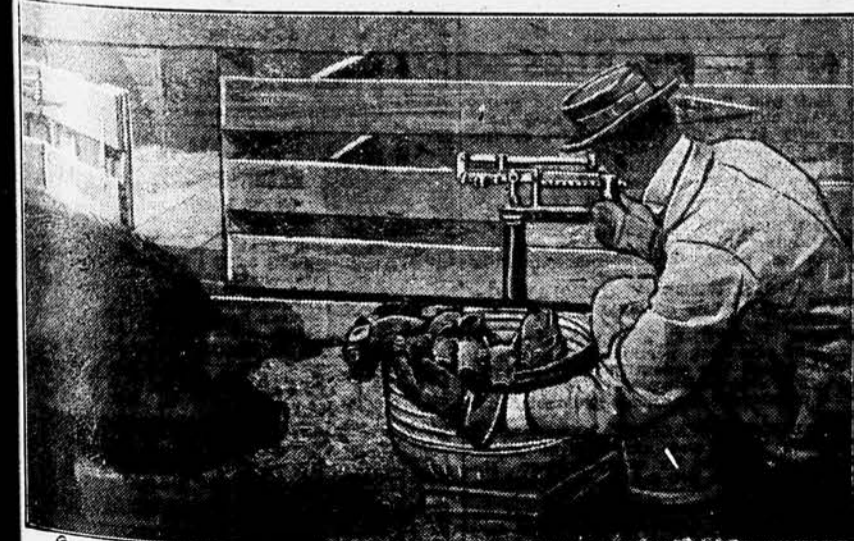
When you notice a sow is getting ready to farrow make haste and get your work done so you can stay with her. Then as fast as the pigs come take them and put them in the barrel containing the hot water jug and cover the top of barrel, leaving a little ventilation. After they have been in there a few minutes the pigs snuggle up to this jug just as they would to the mother sow.

When sow is through farrowing put the pigs back with her, let them suckle and then replace them in the barrel. Let them suckle every two hours, and after doing this three or four times they will be good and strong. If the mother seems to be quiet you can then leave them with her safely. If you know your sow is careless it pays to keep the pigs away from her for 36 to 48 hours before giving her the care of them.

It pays always to have a good farrowing house, even if a small one which compels you to move the sows afterward to separate sheds or houses to make room for new sows.

Cleaning Engine Cylinders

The use of kerosene for cleaning out carbon from the cylinders of a motor is a good thing; but if carried to excess, more or less trouble is apt to follow. Too much kerosene will cut out all the lubrication, considerably impair compression, and the oil left in the cylinders will mix with the gasoline and may tend to make ignition difficult and starting very hard. Further, the burning kerosene is likely to produce deposits of carbon, leaving the engine almost as bad, perhaps, as it was before the treatment was applied. A tablespoonful or two to each cylinder, according to the size of the motor, should be plenty, and it should, of course, be put in when the motor is hot, just after a run.—Motor World.



There is no part of stock breeding for which time is better spent than in giving personal care to the "old sow" at farrowing time. If she kills half her pigs for want of this care you are a big loser. In this case, should she happen to be a young sow, she will not be an even suckler for the next litter.

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OUR FAITH is such that we can afford to GUARANTEE MACK'S THOUSAND DOLLAR SPAVIN REMEDY and furnish with every bottle a \$1000 WARRANTY BOND, which insures to you the return of your money if the results from its use are not entirely satisfactory, and if it does not overcome all forms of lameness, from whatever cause.

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Dear Sir:—I wish to advise that I have entirely cured the Curb on my driver in less than three weeks with your Mack's Thousand Dollar Spavin Remedy. It is all you claim it to be, and is the best remedy I have ever used.

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Per: Jos. G. Meyer, Supt.

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THE SMOOTHEST TOBACCO

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Full 2-ounce 10¢ Tins

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Its penetrating, soothing and healing for all Sores or Wounds, Felons, Exterior Cancers, Burns, Boils, Carbuncles and all Swellings where an outward application is required. CAUSTIC BALSAM HAS NO EQUAL. Removes the soreness—strengthens the muscles. Price \$1.50 per bottle. Sold by druggists or sent by us express prepaid. Write for Booklet L.

The LAWRENCE-WILLIAMS COMPANY, Cleveland, O.

RHEUMATISM

Soreness Across Back and Loins, Stiffness, Sweeney, etc., can be overcome by sweating in

ABSORBINE

under blanket wrung out of hot water, dry one over it. No blister, no hair gone, and horse can be used. Removes bunches, swellings, bog spavin, thoroughpin; cures sprains, lameness; heals cuts, lacerations. \$2.00 bottle at dealers or delivered. Book 5 H tells how. W.F. YOUNG, P.D.F., 209 Temple St., Springfield, Mass.

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Largest and Best Equipped School in the World. (Conducted by CLIFF HOGAN.) 2102 East Fifteenth Street, KANSAS CITY, MO.

Sheep Help on Many Farms

Mr. Editor—It would add to the revenue of many farms if a flock of sheep were kept. Besides being profitable they are great weed eaters. They will eat five out of every six of our known weeds, where a cow or horse will eat only one out of every six.

Any of the commission firms at the stockyards will be able to fill orders for range bred sheep if given considerable time to fill the orders. Range bred sheep are the right kind for the average farmer to buy. Such sheep will be grade Merinos and if they carry a cross of Shropshire, Lincoln or other mutton blood, so much the better. It would not be advisable to buy Mexican sheep or low grade sheep of any other kind.

The ewes purchased for the foundation flock should be good, large animals from 1 to 4 years old, and weighing more than 100 pounds. Where possible it would seldom be practical to start with less than 50 ewes, and a larger number would be better still. A flock of a dozen would require almost as much care as 50 or 100. These range bred grade Merinos should be bred to a Dorset ram if possible.

The reason we recommend buying range bred grade Merino ewes is that thousands of these are available while Dorsets are not to be had in large numbers.

To insure profit with sheep, fall or winter lambs must be raised. The ewes must be bred about June or earlier. Dorset sheep breed at this time more readily than any other kind. Merino sheep come second. Shropshire and most other breeds cannot in general be induced to mate before September.

These fall or early winter lambs, by good feeding and care can be made to weigh 90 to 100 pounds by May 1, when they will find a ready market and will always be in demand. Such lambs should bring from \$5 upward.

By raising fall lambs and selling them in the spring, the greatest profit can be made with minimum losses, since the lambs may be disposed of before the summer season when young lambs are always liable to contract parasitic diseases which often have fatal results.

W. A. Linklater,
Oklahoma Experiment Station.

A New Head For the Royal

H. C. Duncan of Osborn, Mo., was chosen last week at a meeting of the American Royal's directors to succeed R. H. Hazlett of Eldorado, Kan., as president of the show. Mr. Duncan has served as treasurer of the association for several years. He is owner of the Maple Hill Farm, comprising some 1,200 acres of Clinton county land, and his herd of Shorthorns contains some of the finest cattle in the world. He is also president of the Bank of Osborn, having acted in that capacity for the last 35 years.

Other officers chosen by the directors are J. C. Ewing, Youngstown, O., vice-president; T. J. Wornall, Liberty, Mo., secretary; R. H. Hazlett, Eldorado, Kan., treasurer. Mr. Wornall succeeds A. M. Thompson, Nashua, Mo., who has been the Royal's secretary for five years. The new secretary is a director in the newly organized Stockyards company, a fact considered advantageous to the show.

Wintering the Growing Colt

Mr. Editor—Many colts are stunted at this time of year, through neglect and carelessness. Some farmers, otherwise thrifty and careful, will let a growing colt shift for himself at this vital period in his life. Such colts are forced to gather what food they can find in stalk fields and feedlots, which is generally of poor quality. They receive little or no grain and nutritious roughage and in the spring the owner has a poor, weak, broken-spirited animal with little increase in growth.

I let my colts have a little grain, such as bran, oats and a little corn just as soon as they will nibble at them. Each has a little trough of its own and besides feeding them at the regular feeding times they get small feeds in the middle of the forenoon and afternoon, while their mothers are at work. What they need is a nutritious, easily digested food, given a little at a time but often. With care of this kind the colts will be strong and healthy at weaning time and

their mothers' milk is hardly missed. Follow this treatment up with intelligent care through the fall and winter and you will have the foundation for a sound, valuable farm horse.

For want of a little care of the growing foot, many otherwise promising colts are ruined. Often, the colt standing in an accumulation of manure in the stable, develops thrushy and sore feet and the future strength and conformation of feet and ankles is impaired. A wellbred, well-raised colt should be useful for 20 years or more. Is it not worth while to get him well started?

Alma, Kan. B. O. Williams.

Put the Coyote Out of Business

A STIFF BOUNTY CHEAPER

Editor's Note.—Sending a boy to do a man's work is what Kansas has long been doing with its dollar per head bounty for wolves. The wolves have steadily increased and so have bounty payments. Meanwhile the annual loss of young farm stock and poultry is greater than either. This is now a statewide issue. A state bounty of \$5 per head would soon end the trouble at less expense for the reasons given by this correspondent.

Mr. Editor—The following bill in substance has or will be introduced into the legislature:

Be it enacted by the legislature of the state of Kansas that a bounty of \$5 be paid for the killing of a full grown female wolf or coyote, and \$2.50 for the killing of a female pup of either coyote or wolf, and that the present bounty of \$1 per head be retained for the killing of male coyotes or wolves, and that the bounties be paid by the state.

No doubt some people will go into convulsions when they hear this bounty law proposed. But just such a law would save at least 50 per cent of the money paid out by counties, that is now thrown away. Under the present law the wolves are getting more plentiful each year. There are plenty of hunters who will not kill a full grown wolf for the simple reason there is more profit in letting them raise pups. A coyote has two litters a year, averaging about five pups each. This gives a hunter \$10 a year for each she coyote he lets live and all he has to do is to dig the pups out of the den. If he could get \$5 for the old wolf he would very likely prefer the cash to waiting for pups.

Also the state should pay the bounty instead of the county. This would distribute the expense equally over the state. It would then cost no more per county under the proposed law than at present and it would get rid of the wolves.

Coyotes have become one of the worst pests in the state and the legislature could pass few laws that would be of greater benefit to farmers.

Hill City, Kan. A. J. Rice.

Cast Iron Can Be Bent.

"Few mechanics know that cast iron can be bent or straightened," says Popular Mechanics, "as the case may be. For example, take a piece of flat cast-iron, place it on a level, solid surface and strike it lightly with a ballpeen hammer. If this simple experiment is tried, it will be found, to the surprise of the experimenter, that metal of this kind readily yields to the light blows of a hammer. Do not strike hard enough to break or crack the casting."

All Five For \$1.25

The Mail and Breeze is enabled to make the biggest clubbing offer it has ever had, and for only \$1.25 will send all five of the following papers for one year each:

THE MAIL AND BREEZE of which nothing need be told our own subscribers or those reading this copy of the paper. It speaks for itself.

THE HOUSEHOLD, a large family magazine, containing the choicest stories and departments of particular interest to lady readers.

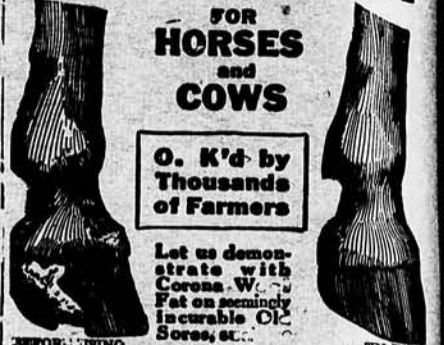
THE KANSAS WEEKLY CAPITAL, the oldest and best weekly newspaper in the entire Southwest.

POULTRY CULTURE, a "chicken magazine" full of practical, pertinent, timely and terse talk about the scientific money-making side of poultry raising. Edited by Reese V. Hicks, considered America's greatest poultry expert.

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Remember, all five of these big papers will be sent to one address or to five different addresses if so desired for only \$1.25. If you are a subscriber to any one of these papers your time will be advanced another year. You will be supplied with the best class of reading matter for a full year. Don't fail to mention the names of these papers in sending in your order. Send your order to the MAIL AND BREEZE, TOPEKA, KANSAS.

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WOOL FAT is extracted from the wool of the sheep and does not differ from the secretions in the skin of other animals. Wool Fat will penetrate the hoof, and will positively grow a new hoof. Let us show you by shipping you a can of

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At your request we will send you a 2 lb. can of Corona Wool Fat. Use it 20 days and if it gives satisfactory results send us \$1.00; if not, simply say so and you will owe us nothing. You take no risk. Write today for the FREE TRIAL—do it now!

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ALBERTA

The Price of Beef

is High and so is the Price of Cattle. For years the Province of ALBERTA, (Western Canada), was the Big Ranching Country. Many of these ranches today are immense grain fields, and the cattle have given place to the cultivation of wheat, oats, barley and flax, the change has made many thousands of Americans, settled on these plains, wealthy, but has increased the price of live stock. There is splendid opportunity now to get a FREE HOMESTEAD OF 160 ACRES (and another as a pre-emption) in the newer districts and produce either cattle or grain. The crops are always good, the climate is excellent, schools and churches are convenient and market is splendid in Manitoba, Saskatchewan or Alberta. Send at once for literature, the latest information, railway rates, etc., to

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FITS YOUR OLD LAMP.
100 Candle Power Incandescent Pure white light from kerosene coal oil. Burns either gas or electricity. COSTS ONLY 1 CENT FOR 6 HOURS.

We want one person in each locality to whom we can refer new customers. Take advantage of our Special Offer to secure a Beacon FREE. Write today. AGENTS WANTED.

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POST CARDS FREE AND ALBUM

To quickly introduce our up-to-date weekly paper and our line of post cards we will send samples of our choice high-grade, artistic, souvenir post cards, and this handsome post card album with fancy colored cover, blank leaves and our illustrated paper three whole months, all for only 10 cents, silver or stamps. If you answer this ad immediately, address, Kansas Weekly Capital, 19 Capital Bldg., Topeka, Kansas.

PARCELS POST

THE GREATEST EVENT OF THE CENTURY

New Nation-Wide Parcels Post System Opened for Business January 1, 1913

What Do You Know About It?

Do you know that you are able to mail anything from a bird cage to a pitchfork? Do you know that you are able to mail anything from an egg to a dressed chicken? Every family in the United States is in need of a Parcels Post Zone Map! And it is important that you secure only the BEST and OFFICIAL Map.

We Have Arranged to Furnish It

We are now prepared to offer our friends and readers the most complete chart ever issued. It consists of six Large Pictorial Pages—28 by 36 inches—with map of the World and the Panama Canal, Parcels Post map of the United States complete and a separate Parcels Post map showing Distance and Zone Scale, which will enable you at a glance to know the distance and rate from your town to any other point in the United States. It has the Universal Guide or Zone Finder adapted for use in any town. It is the largest, clearest map of the United States for Parcel Post reference.

Desiring to give our pa-

Facts About the New Parcels Post

The new parcels post went into operation January 1, 1913.

Perishable articles, such as butter, lard, fruits, berries and dressed fowls may be sent short distances.

Eggs for local delivery when packed in containers may be sent. When packed separately they may be sent any distance.

Fresh meats may be sent only in the first zone (50 miles).

The following may not be sent: intoxicating liquors, poisons, matches, explosives, firearms and live poultry.

Books and printed matter are included in third class and may not be sent.

The weight limit will be 11 pounds.

To find the size limit: Take a piece of string 72 inches long and wind it once completely around the parcel and then across the top lengthways. If the ends of the string reach the sides of the parcel it comes under the limit.

The country is divided into eight zones and each zone into units. From any unit parcels may be sent to any office in the first zone, or up to 50 miles in any direction, for 5 cents for the first pound and 3 cents for each additional pound up to 11.

The second zone includes postoffices from 50 to 150 miles. The rate is 6 cents for the first pound and 4 cents for each additional pound.

The third zone is from 150 to 300 miles; rate, 7 cents and 5 additional.

The fourth zone is from 300 to 600 miles; rate, 7 cents and 5 additional.

The fifth zone is from 600 to 1,000 miles; rate, 9 cents and 7 additional.

The sixth zone is from 1,000 to 1,400 miles; rate, 10 cents and 9 additional.

The seventh zone is from 1,400 to 1,800 miles; rate, 11 cents and 10 additional.

The eighth zone is all over 1,800 miles; rate, 12 cents and 9 cents for every additional pound.

trons more for their money than they ever received before, we are including with the Parcels Post map our new and wonderful HORSE CHART.

This wonderful ANATOMICAL CHART is fully illustrated in colors. The various internal organs are shown as well as the effect different diseases have on them, and then, best of all, the remedy for the disease is given. If you have this chart and your horse becomes sick, you can tell what the trouble is and what the remedy is.

When you think that thousands of horses, valued at millions of dollars died in Kansas and adjoining states last year you will understand why we are anxious to place this wonderful chart in the hands of all our readers.

This Great Combination Chart Cannot Be Bought

FARMERS MAIL AND BREEZE will give it to you FREE OF CHARGE. Send Two Dollars to pay for a THREE-YEARS' SUBSCRIPTION (New or Renewal) to FARMERS MAIL AND BREEZE and the Chart will be sent you Free of Charge. Send coupon and remittance to

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Enclosed find \$2.00 for a 3-year subscription to the Farmers Mail and Breeze and your big Parcels Post and Anatomical Chart.

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Dairy Farming

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

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.

Abuse and fright do not increase the milk flow.

A pair of milk scales and a Babcock tester will tell no tales.

Feeding musty hay to milk cows is not economy. Better let the young stock have it.

The cow that gives the most milk when fresh is not always the best milker in a year's time.

It is hard to say which is the worst condition in the cow barn—cold winds or no ventilation at all.

One way of increasing profits in dairy farming is to cut down the herd to the actual profit makers.

There is no season of the year that bran cannot be made a profitable part of the milk cow's ration.

There is little danger of overfeeding a cow so long as she readily consumes all the feed given her.—N. J. Shepherd.

Boiling frosted turnips or beets is said to make them palatable and safe to feed to cows. Feeding frozen roots is likely to cause trouble.

This year our dairy and silo number will appear March 8. A bit of your experience in dairying or siloing or both, will help make this the best number of its kind ever published.

The best way to clean gummed separator bearings is to use kerosene on them. Then put on lubricating oil and let it work in well before using the machine.

Separator Soon Paid for Itself.

Mr. Editor—A great many people think the cost of a cream separator will eat up all the profits that the cows can make. Now I know by actual test that with six cows, a separator will in one year produce enough extra profit over either the water separator or hand skimming, to buy a \$75 machine.
Holton, Kan. E. E. Hobbs.

Rearing the Future Cow.

[Prize Letter.]

Mr. Editor—In my own experience with cows I find it pays well to spend a little time with the calf and heifer to get them used to being handled when the time comes to milk them. Some people may think it sounds silly to say that a cow brought up this way will give more milk than her sister not so treated, but I than her sister not so treated, but I have found it to be a fact. The nervous, easily frightened cow, is short on milk flow, as many of you know, when compared with the quiet, unafraid animal.

Obedience is the first lesson but whatever is done in training a calf or heifer, one must be patient, and never resort to abuse. They should early be accustomed to the halter, and to lead quietly inside or outside the stables. A little petting when they come in from pasture helps more than we think. Try this way of raising your heifer calves and when the time comes to milk them they will know you as a friend and not an enemy. It counts in the milk flow.
Florence A. Richardson.
Perry, Okla.

Winter Calf Feed and Care.

[Prize Letter.]

Mr. Editor—I like to take the calf from the cow at once as it is easier to teach them to drink then. I give each calf about 2 quarts of whole milk three times a day until several days old when they get two feeds a day. I give them whole milk for about a week then grad-

ually change to skimmilk. On changing to skimmilk I give them oilmeal to take the place of the fat in the whole milk. I put a heaping tablespoonful in a vessel and pour scalding water over it, and mix this in the milk. This quantity is enough for one calf. The calves do fine on this feed.

If hay is placed where the calves can get to it they will soon learn to eat it, and the same is true of shelled corn. For scours I give each calf about a pint of strong coffee in the milk. Two or three treatments are usually sufficient.
A. H. Calfee.

R. 2, Norton, Kan.

[We disagree with Mr. Calfee in one particular. It has been found that when ground grain is given in the milk, much of the value of the feed is lost and indigestion may result. Nature decrees that all dry food be chewed and acted upon by the saliva before it goes into the stomach. Given in the milk, the meal is gulped down, and impaired digestion and loss of feed result. We can't improve on nature.—Ed.]

Making a Start With Cows.

Mr. Editor—If a man out here were to tell his neighbors he was going to buy some purebred Holstein cows at \$150 to \$200 they would say he was crazy. They believe such cows will not give any more milk than the common cow. I read the accounts in the Mail and Breeze about the experiment stations getting big results with cows, of how they sell butter at 40 cents, and milk at 8 to 10 cents per quart. The farmer has to sell his butter for 30 cents and probably peddle it at that. If he sells cream he will not get a big price for it. He must raise his own feed for he cannot afford to buy fancy feed and make a profit on it. This is what the experiment stations need not be afraid of. So what is a man who wants to start in the dairy business going to do?
Goodland, Kan. Fred Kohler, Jr.

[In the first place we should not take the advice of neighbors too seriously, especially those who have had no experience with purebred dairy stock. We do not recall that in any of the experiment station records published, butter was quoted at 40 cents a pound and milk as high as 10 cents per quart. But if this was true, let us pass it up, for the time being and consider only the records made by actual farmers, one or more of which is published each week on this page. They raise their own feed, sell butter or cream, and are making money at it. To get a start, high priced purebreds are not necessary, especially in western Kansas. Start with the best cows you have and breed up by getting a good male. Keep records, save only the best helpers, and in a few years a herd can be built up at small expense, that for milk production will be practically as profitable as a herd of purebreds.—Ed.]

Good Country Butter in Demand.

[Prize Letter.]

Mr. Editor—We have a standard make of separator and after separating the milk always allow the cream to cool before adding it to the rest. Then it is all well stirred up, this being repeated at intervals until time for churning. We keep the cream at a moderate temperature in cold weather and when it comes time to churn it is gradually warmed up. I have a colander through which all cream is strained before putting it in the churn, to keep out any curd that may be in it.

I do not wash the butter after it is churned but work and salt it. When churned in the morning I work the butter again at night, and a third time the next morning when it is molded into 1-pound bricks. I wrap each pound in parchment butter paper with our name and the name of the farm stamped on it. The butter is delivered at the store on Saturday morning and there is a greater demand for it than we can fill. We do not make butter in summer except for our own use.

Last winter from November 1 to April 1 we sold 540 pounds of butter for which we received 30 cents per pound. This was 27 pounds a week for market and we used 3 pounds each week for the table besides some cream. The cows we have are not a milk breed but rather beef stock. We feed them corn and bran and all the alfalfa they want.
"Mistress, of Meadow Brook Farm."
Fredonia, Kan.

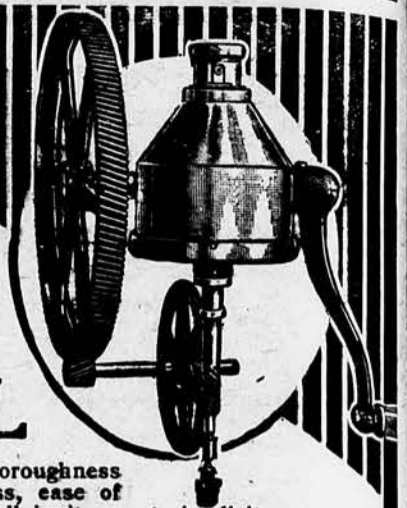
[We would all have been glad to know how many cows there were in the herd that made this butter record. The author failed to include that fact.—Ed.]

One of the Best Farm Papers.

You will find enclosed money order for the renewal of my subscription for the Mail and Breeze. I think it is one of the best farm papers that I ever read.
Sam. L. Smith.

R. 1, Byars, Okla.

The Simplest CREAM SEPARATOR Ever Built — DE LAVAL



EXCELS ALL OTHERS not only in thoroughness of separation, sanitary cleanliness, ease of running and durability, but as well in its great simplicity.

THERE IS NOTHING ABOUT THE OPERATION, CLEANING, adjustment or repair of a modern De Laval Cream Separator which requires expert knowledge or special tools.

NOR ARE THERE ANY PARTS WHICH REQUIRE FREQUENT adjustment in order to maintain good running or to conform to varying conditions in the every-day use of a cream separator.



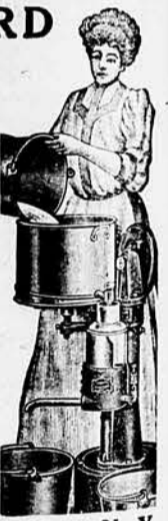
Combination Wrench, furnished with each De Laval machine, which is the only tool required in setting up, taking down or using the De Laval, the simplest cream separator ever built.

THERE IS NOTHING ABOUT THE MACHINE THAT CANNOT be taken apart, removed or replaced by any one who can use a wrench or screw driver. In fact, the only tool which is needed in the use or the operation of a De Laval Cream Separator is the combination wrench and screw driver illustrated above, which is furnished free with every machine. Visit the local De Laval agent and see for yourself its simplicity of construction.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

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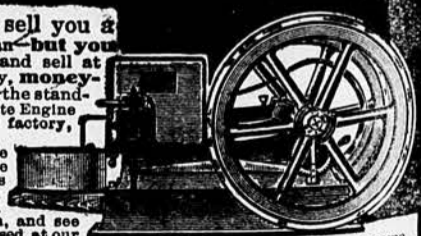
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Columbian Silos



Buy a permanent silo. The best is the cheapest in the long run. Columbian Steel Silos are permanent. Will last practically a life time.

They will not crack, burst nor fall to staves. The round all-steel hinged doors will not warp, sag, bind nor swell, always in position and closes tight easily. Heavy reinforced joint construction.

Big 1913 Silo Catalog telling all about the Columbian Silo sent free. Write for copy at once.

Columbian Steel Tank Company
Department A, Kansas City, Missouri

Cheapening the Cows' Ration

BY H. E. DVORACHEK,
Colorado Experiment Station.

Mr. Editor—It was when wheat bran climbed to \$1.50 to \$1.60 per 100 pounds last winter, that I decided to experiment with alfalfa meal as a substitute. It is generally conceded good alfalfa approaches wheat bran very closely in nutrient content and for this reason from an economical standpoint they should not be fed together, especially when alfalfa is generally so much cheaper pound for pound.

I was feeding a herd of over 100 cows on a grain ration consisting of 3 parts corn chop and 1 part bran by weight. I replaced the bran by an equal amount of alfalfa meal by weight, and fed this ration to the cows in exactly the same amounts per head as when the bran was used. The meal was bought at 85 cents per 100 pounds. It lightened up the chop far better than the same weight of bran. When fed to the herd for one month, no appreciable decrease or increase in milk flow, or variation in fat content of the milk was noticeable. At the end of a month's feeding of the meal, I returned to bran for another month with scarcely any change in quantity or quality of milk produced.

A Larger Proportion Failed.

I next tried feeding larger quantities of the meal by mixing 3 parts of chop with 2 parts of meal. The cows were fed alfalfa hay at racks out of doors and so did not relish their grain ration in such a bulky form. I did not use this mixture more than 10 or 12 days as I could notice a falling off in milk flow. I reduced the proportion of meal to 1 part to 3 of chop and continued to feed in this way.

Corn chop had soared to \$1.75 per 100 pounds, and so it was high time to search for some cheaper substitute. Barley was equally high priced so I turned to dried beet pulp which could be bought at \$1.30 per 100 pounds. I replaced 1 part of corn with the pulp, making the mixture 2 parts chop, 1 part pulp, and 1 part meal. The pulp was thoroughly mixed with the chop and meal and the mixture fed dry. The results were gratifying. The cows relished the ration, and a slight rise in milk flow could be noticed after feeding it for some time. I could detect no undesirable flavor in the milk, nor did the bacteria in it increase.

I believe that a good quality of alfalfa meal will readily replace bran if fed in small proportion with other concentrates, say 1 to 3 parts. I am also convinced that dried beet pulp can be classed as a valuable carbonaceous feed which ranks well with corn and can be used to replace it even in our certified dairies if sanitary methods are employed.

Ft. Collins, Colo.

Straws for Milking Tubes.

Mr. Editor—When my cows have sore teats so they cannot be milked in the regular way I have found straws inserted in the opening help get the milk out. I cut the straws in lengths of about 3 inches being careful not to split them up. With the teat in the left hand I carefully work the straw into the opening until the milk begins to run out. After the milk stops running I knead the udder with my hands until all the milk is out. I use fresh straws at each milking or clean the old ones. I once milked a cow quite a while with one of these straws in each teat.

Bird City, Kan. Mrs. L.

[There is considerable risk in the use of this method as an infection may be easily carried up into the udder with these straws. Scalding the straws might help. The tender inside lining of the teat is also easily injured.—Ed.]

Keeping Track of the Cows.

Where a large milking herd is kept, as on the larger dairy farms, it is often a problem to mark the cows so one may be distinguished from another. Before records of the cows can be kept some reliable method must be devised to keep track of the individuals. Branding cannot be recommended as in the case of the beef steer, for this treatment often means a considerable loss in milk flow, and a lasting injury to the cow's nervous temperament. Nothing gives more general satisfaction than a strap about the cow's neck to which a metal numbered plate is riveted. Put on properly, the strap will not be lost and it does not injure the cow in any way.

"STANDARD" Cream Separators

700 lb. Capacity \$56.50 Spot Cash



Think of it! The dairyman with spot cash in his pocket can now go to his dealer and buy as high grade a cream separator as is made for little more than half the usual retail price. The "STANDARD" needs no introduction. It is a *high-quality machine* of well-known manufacture. There are over 30,000 now in actual use. Made for years in our own factory. Guaranteed to last as long and skim as close as any hand machine made.

Mail Order Price But Not a Mail Order Product

500-550 lb. Cap., \$47.50. Reg. Price \$ 75
700-750 lb. Cap., \$56.50. Reg. Price \$ 90
900-950 lb. Cap., \$63.50. Reg. Price \$100

These prices are unheard of for any high grade separator sold through reliable dealers.

Sold Only Through Dealers

We enable our dealer to meet mail order competition by making and selling a large output of machines at *cash with order prices*. Our manufacturing cost is low; we get our money promptly and save the expense of having salesmen. The dealer in turn sells for spot cash at a low margin of profit. For these reasons he can meet mail order prices (capacity and quality considered), and still give his customer dealer service, a chance to see the machine before he buys it, and in addition

A Liberal Free Trial

If the "STANDARD" does not hold its own with any *high priced* machine on the market, you can return it to the dealer and get your money back without a quibble. You won't have to argue. We see to it that he refunds your full purchase price.

Write us for catalogue fully describing the "STANDARD", and for *money-back Guarantee*, and give us the name of your dealer. We'll do the rest—without in the least obligating you to buy, unless you want to.

NOTE: For herds of more than ten cows we recommend using the self-powered "AUTOMATIC." It requires no cranking; is driven by a self-contained gasoline engine of remarkable efficiency. Bowl spins at high, even speed, without a trace of vibration. A great labor saver. Used by thousands of up-to-date dairymen in this country. Write for our "AUTOMATIC" catalogue and testimonial letters. They will surprise you. If you are milking but six or eight cows, buy the hand-driven "STANDARD" at mail order price now, then trade it in later for an "AUTOMATIC" when your herd becomes larger. We will make you a liberal allowance through your dealer.

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I entertained them at our \$60,000 Agricultural Club built for farmers and their families. I want every farmer who possibly can to come to Waterloo. The moment you step off the car at Galloway Station you are my guest—and you see everything at my expense. Come!

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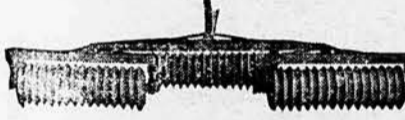
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YEAR after year, more and more farmers are realizing that the *highest quality* separator pays the *biggest dividends for the longest time*. The experience of men who bought only on a low price basis has served as a warning against buying "cheap" machines. Men who have purchased *Great Western Separators* are actual living proof that it is the *best economy* to pay a fair honest price for *quality*. Be fair to yourself. Get a separator that skims close for a *lifetime*. Get a separator that is *always* easy to turn. Get a separator that is *easy* to clean as long as it lasts. Get a

Great Western

If you want the most a separator can be—the best separator investment you can make. The Great Western is the only separator with a skimming system that follows nature's laws—the milk sinks, the cream rises. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming cold milk. It is self-draining and self-flushing; there are no long tubes, no minute slots, corners, crevices, or ragged edges to hold milk and collect dirt. The Great Western is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50 to 100% harder than balls others use. The ball races in the Great Western are tempered so hard that you cannot cut them with a file. Low swinging tank and low gears with high crank, mean greatest convenience, least vibration, velvety cream and longest wear without repairs. We will arrange to give you

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on the size Great Western that best meets your needs, no matter what number of cows you own. Test the Great Western side by side with any other separator. Try them both on any kind of milk—warm, cold or stale. See how much better the Great Western is in every way. See how much finer the Great Western is made—note how much stronger the materials are—how much easier it runs, how easy it is to clean and *keep* clean and sweet. Then decide. We know that the Great Western beats them all. Comparison will prove it to you.

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Drop us a card today and we will send you without any expense or obligation our beautiful art catalogue showing the Great Western in natural colors and also our million-dollar 5-year surety bond. Shows best methods of separating, gives results of extensive experiments and information on separating not found elsewhere. Proves Great Western superiority. Mail postal today.

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CAPPER BOYS CORN CLUB

Founded 1907



by Arthur Capper

Three Contests This Year For the Girls

A tomato growing competition. Size of plot 33 feet each way. Each contestant keeps a record of the weight of all tomatoes picked and at the end of the contest reports the total weight in pounds. Cash prizes for heaviest yields \$25, \$15, \$10. See particulars and entry blanks on this page.

For the Boys

The annual corn-growing contest with cash prizes in each of four states, namely, in Kansas, in Oklahoma, in Nebraska and Missouri. For best acre yield in each state \$50; for champion single ear in each state \$25; for best ear in each state from seed of a boy's own raising \$25. See particulars and entry blank on this page.

And the Pig-Feeding Contest

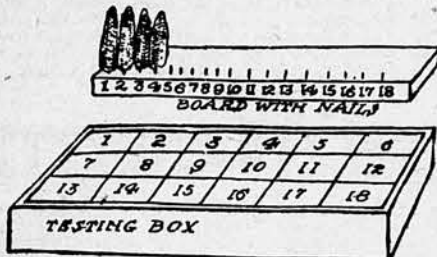
Get a purebred pig, farrowed on the home place after March 1, and feed him till State Fair time. Cash prizes for three best pigs \$15, \$10, \$5. See particulars and entry blank on this page.

JAMES D. KELSEY, 19 years old, of Richmond, Kan., was the first boy to enter the sixth annual corn growing contest of the Capper Boys' Corn Club. Other entrance blanks filled out were mailed on the same day, but young Kelsey's was the first to reach the desk of the corn club's secretary. Since then entries have been coming in every mail and it looks as if the most promising year in the history of the club had opened. While corn planting time is still a long way off, there is some advantage in an early start and good preparation. Otherwise, the last boy in will have just as good a chance to win a prize as the one who got his name in first.

You will find the entrance blank on this page. Simply fill it out, mail as directed, and you are a member of the club in good standing and can take your own time in getting good, strong seed and preparing your land. Though work in the field will be out of the question for several weeks, it is not too soon to be testing your seed and so be ready to plant when the time comes! And while you are at it, why not do the testing for dad?

Homemade Testing Outfit.

The drawing shows a testing outfit that any boy can make. Take a shallow box and stretch wires across it both



MAKE BOX ANY SIZE.

ways, fastening them with staples or nails on top of the sides of the box. This will divide the box into squares. Fill with earth level full and number the squares. Through a plank drive as many nails as there are squares in the

box, turn the plank over and number the nails corresponding with the squares. Take 4 to 6 grains from different parts of each ear and plant in the squares, putting the ears on the corresponding nails in the plank. A good place for the box is behind the kitchen stove or in the living room window. Keep the soil warm and moist and in 5 to 7 days the sprouted grains will show which ears are worth planting and which are not.

Aivin Dean, Jr., of Macksville, Kan., has written in for a description of a perfect ear of corn to help him in choosing his seed ears. The information has been sent him, but since there may be other boys who may be in the same boat with Alvin, we publish the description for the benefit of all:

How to Tell a Good Seed Ear.

A good ear should be round like a cylinder or nearly so. It should be full and strong in the middle portion, and the circumference should be about three-fourths of its length. The rows of kernels should be straight, and not less than 16 nor more than 22 in number. The ear should be from 8 1/2 to 10 inches long.

The grain should be of one color, true to the variety even in shade, and free from mixture. White corn should have white cobs; yellow corn, red cobs.

The tip should not be too tapering. It should be well covered with straight rows of regular kernels of uniform size and shape.

Open, swelled, expanded, flattened and pinched butts are objectionable. The rows of kernels should extend in regular order over the end of the cob, leaving a depression when the shank is removed.

The tips of the kernels should be full and strong, leaving no space between them near the cob. Toward the crowns, the edges of the kernels should be so shaped as to leave merely enough space between the rows to facilitate drying. Shrunken or pointed tips and badly rounded crowns are objectionable. The crowns of the kernels should be rather deeply dented, but not pinched or chaffy. The dent should extend evenly across

the kernel. There should be no pointed or sharp margins. The kernels should be about 5-16 of an inch wide by 1/8 of an inch long, and 6 to the inch in the row.

The ears should be well matured, firm and sound. The germs should be uninjured, large, bright, fresh and vigorous looking.

Capper Winners in State Show.

The Capper Boys' Contest is not the only one in which Mr. Capper is interested. For several years he has been contributing to the premium fund of the boys' state corn show at Manhattan. This year \$25 was divided between the two boys who won in the single ear contest, in the eastern and western divisions of the state. Secretary E. G. Schafer of the state show has written that the boys entitled to this money for the 1912 show were Charles Werner of Troy for eastern Kansas, and Milton Schrepel of Ellinwood for western Kansas. A check for \$12.50 has been sent to each of these boys.

Capper Girls' Tomato Club

Now that the girls are to have a contest all their own there can no longer be any complaint from that side of the house that the boys are being favored. It is now up to the girls to show the boys what they can do. As a matter of fact, we expect to see the girl that wins get as good returns from her tomato patch as the boy who gets the best acre yield of corn. That would not be impossible at all. Best of all, there is nothing to lose for the girl that goes into this contest, and everything to win. For if she should not win a prize, there is the money to be had by selling her product, and if she does not care to market it she may have the satisfaction of supplying the family with fresh ripe tomatoes all summer, as well as canned tomatoes, marmalade, chowchow, chili sauce and other good stuff like that for winter use.

Grow or Buy the Plants.

The first thing to do, girls, if you want to enter this contest, is to fill out the blank on this page, put it in an envelope, and mail it in or pasting the blank on the back of a postal card will do just as well. The next thing will be to get ready to grow some early plants. Get a shallow box, fill with rich earth in which some sand has been mixed, and plant your seed in little drills in this box. Keep the box in the living room window on cold days, where the sun will strike it, and see that the earth is kept warm and moist. When the plants are about 2 or 3 inches high, they should be set out in a hotbed, giving them room enough so they may grow stocky and become thrifty. By that time the weather will be warmer, but you will still need to look out for frosty nights, when the bed should be covered. The thing to strive for is to have the plants large enough to set out in the open just as soon as it is safe to do so in the spring. Then by watering the plot and keeping down weeds, you can keep the vines bearing until frost comes. If you can find an old window sash it will be no trouble at all to make a hotbed. Muslin may be tacked over the sash if you haven't glass for it. If this is too much bother you can obtain plants ready grown. As they are usually set at least 2 feet apart in the row it won't take a great many. Following are the rules of the contest:

CONTEST RULES.

Any Kansas girl 10 years old and no more than 18 may become a member of the Capper Girls' Tomato club and contest for the prizes.

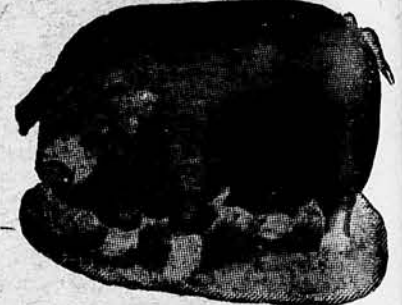
Each member is to plant and tend a plot 33 feet each way. The men folks may plow and harrow the patch to prepare it for plants or seed, but the rest of the work must be done by the contestant.

Each member must keep a record of the weight of all tomatoes picked and report the total number of pounds of the entire yield at the end of the contest. Also how the crop was disposed of—both canned and sold—or for home use.

The contest will end December 10, 1913. A blank form of report will be sent to each contestant at the end of the contest. The member growing the greatest number of pounds of tomatoes on her plot will be awarded first prize, \$25 in gold. The one getting the next largest yield will receive a cash prize of \$15. The third prize is \$10. To insure fairness to all contestants the winning reports will be verified.

Capper Boys' Swine Club

To take part in the corn contest will not disqualify a boy from getting into the pig-feeding competition. Any boy is entitled to win a prize in each contest if he is able to do it. The same entrance blank that you will find on this



Try to Make Him Look Like This.

page will admit you to one or both. Simply cross out the line or lines on the blank, naming the contest in which you do not wish to take part. Then sign your name and mail it either in an envelope or stuck to the back of a postal card. Here are the rules of the contest:

CONTEST RULES.

To be eligible to enter the Capper Boys' Pig Contest at the Kansas State Fair (Topeka or Hutchinson) a boy must be 20 years of age or under March 1, 1913. He must own and feed his pig. The pig must be purebred, eligible to record, the sire and dam being recorded in the proper record association, and be of one of the following breeds: Poland China, Berkshire, Duroc-Jersey, O. I. C. (Chester White), or Hampshire, and farrowed after March 1, 1913, on the home place or land.

The prize will be \$30 in cash—\$15 going to first award, \$10 to the second award and \$5 to third award.

All four of the breeds will compete and the entry may be either a boar pig or a sow pig.

The prizes will be awarded by the regular swine judge or judges of the fair. Pigs shown in the regular classes at the fairs will be eligible to this class.

To join the Capper Boys' Swine club and to enter the contest all you have to do is to fill out and mail the entrance blank on this page as directed and you are ready to begin when you get your pig.

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THE COAT is the latest 2-button sack style, with outside breast pocket and two lower pockets. It is 31-inch—the regular length for spring. Trimmings are of the best, and the body lining is Italian cloth—the strongest lining made. Buttonholes are silk-stitched. Vest and Trousers are cut in latest style. Workmanship is first-class. Fit guaranteed. THE FREE TROUSERS are of good quality dark gray cashmere. THE FREE SUSPENDERS are of 1 1/2-in. web, silk-covered, cord-back; very elastic and adjustable. THE FREE NECKTIE we can furnish in any style you choose; any color; either silk or satin.

These outfits are selling fast, and to make sure of securing one for yourself, send order at once—now without a moment's delay. Just send \$4.95, with your correct size, and outfit will go forward to you at once. Can furnish all sizes from 34 to 44-in. breast and 30 to 48-in. waist; trousers 30 to 35-in. inseam. (Shipping weight of outfit 6 1/2 lbs.)

Order Direct from this Advertisement, by No. 13A703—Price \$4.95; or we will ship C. O. D. Send \$1.00 as a deposit, and we will find it as here represented, pay balance due—\$3.95—and express charge. If you don't think it the biggest bargain in clothing you ever bought for \$4.95, send it back, and we will return your money. SEND for our Men's and Boys' Free Clothing Catalog, which contains several hundred styles of suits, made, and all prices quite as low as wholesale. Send for this catalog today.

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Entrance Blank

ARTHUR CAPPER, 800 JACKSON STREET, TOPEKA, KAN.

Please enter me in the Boys' Corn Growing contest.

Boys' Swine contest.

Girls' Tomato Growing contest.

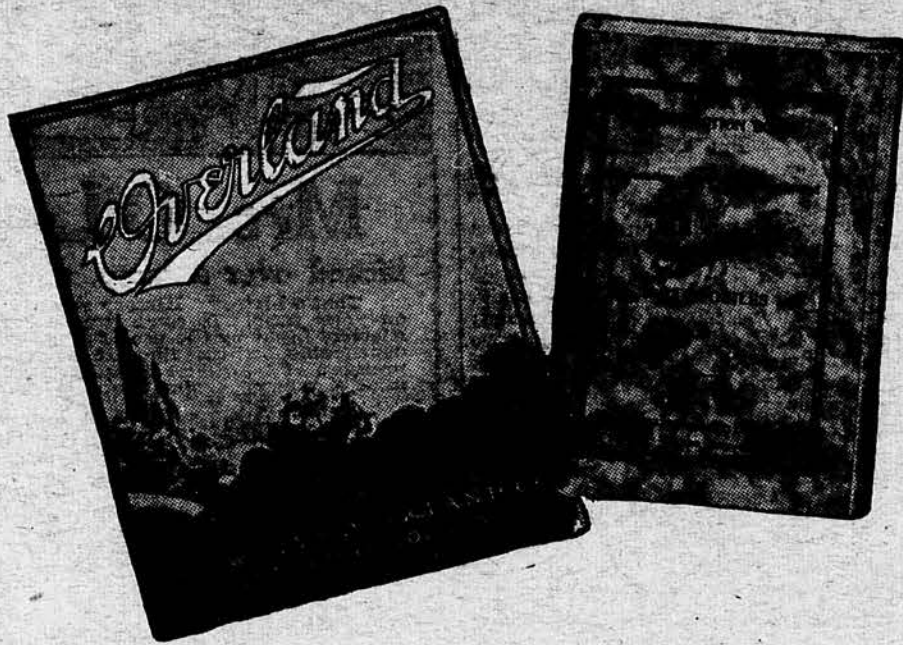
(Draw a line through the contest you do not wish to enter.)

My name is.....

P. O. or R. F. D.....

My age is.....

Properly filled and mailed as directed, this blank entitles the signer to the full benefits of the club and contest, without further notice or formality.



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For in the Overland you get more real car for less money than from any other manufacturer in the world.

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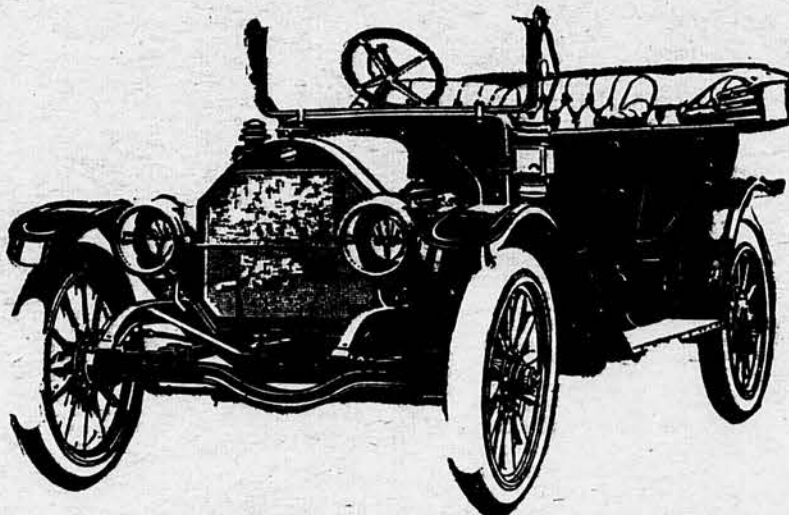
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Conducted for Farmers Mail and Breeze
BY DR. F. S. SCHOENLEBER,
Professor of Veterinary Science
Kansas Agricultural College.

Our readers are invited to consult Dr. Schoenleber in an advisory way in case of trouble with livestock. Be sure to state the history of the case, location of the disease and the conditions under which animal has been kept. If a horse state weight. Also write across the top of your letter to be answered in Farmers Mail and Breeze and always sign name in full. Unsigned inquiries will not be answered. Answers will be published in turn.

Bleeding Nostrils.

I have some hogs 11 months old that bleed from the nostrils. They bleed as often as every other day. I feed them corn and skim milk. What can be done for them?—W. S., Spearville, Kan.

Bleeding from the nostrils may be due to parasites or it may be due to a weakened condition of the blood vessels. I would suggest that you give a teaspoonful of copperas to every four hogs once daily in their feed and let up a little on corn.

Poll Evil Treatment.

Can you give me a good remedy for poll evil? I have a 3-year-old mare that has had one for three months and can find nothing that will help it.—L. C., Macks-ville, Kan.

The best way to treat poll evil is to dissect the diseased tissue out. You should consult a good graduate veterinarian who would be able to do this work for you. It is usually a waste of time and money to treat this disease by the application of drugs.

Bone Enlargement.

I have three shoats in a bunch of 20 that have swellings just below the hock joint of the hind leg, that make them lame. The swellings seem to be enlargements of the bones. These pigs weigh about 75 pounds and have good appetites.—W. B. C., Syracuse, Kan.

I should suspect that your hogs had either rheumatism or some disease of the bone. I would suggest that you give a little bone meal once daily and a tablespoonful of tincture of colchicum once daily for a few days to every six hogs.

Sprained Stifle.

I have a 7-year-old mare that sprained her stifle last June. I blistered the joint and in about three weeks she was all right. About a month ago she came in with the stifle sprained again and again I cured her by blistering. Will she ever be all right in that joint or will this trouble keep recurring? The mare weighs 1,500 pounds. Can I do anything to strengthen the joint?—H. S., Hope, Kan.

I do not know of anything that you can do to strengthen your mare's stifle except the application of an occasional blister, as this seems to help overcome the trouble. I would suggest that you apply a mild blister every two or three months for two or three applications.

Defective Teeth.

I have a mare 13 years old that weighs 1,200 pounds when in fair shape. She was sick with distemper last June but only ran at the nose and did not break out under the jaw. She still runs at one nostril, does not cough, but stands around a good deal of the time. She does not care for roughness but relishes grain. She chews up cane or hay and spits it out in wads. I bred her three times last spring but she is not in foal. She has not been worked since June. What is your advice?—H. L. N., Eldorado, Kan.

It is possible that your mare has a bad tooth. The spitting out of wads of hay would indicate this. I would suggest that you have your veterinarian examine the horse and think he will find that a diseased tooth is the cause of the trouble.

Teeth Troubles.

I had a tooth removed from a 6-year-old mare by making an opening in her jaw. It left a running sore and would like to know what can be done for it.—J. W. G., Hill City, Kan.

You do not say when this tooth was extracted. Possibly there has not been time for it to heal. If it has been out a year or more and there still is a discharge I should suspect that a piece of the tooth or a piece of loose bone still remains and it will be necessary for this to be removed before healing takes place. Sometimes this piece of tooth or bone may slough out and healing follows.

Oilmeal for Mares in Foal.

Is oilmeal a risky feed for mares in foal? If not, how much may I feed a 1,400-pound mare that is getting prairie hay, corn, bran and oats? Have fed a handful twice per

day per head and it seemed to cause mild colic. People tell me it will kill the colt.—C. W. W., Richland, Kan.

Oilmeal is not considered an injurious feed for pregnant mares if given in proper quantities. I should think a handful twice a day would be safe to give. Some animals are more susceptible to certain feeds than other animals and if you think that the quantity that you are giving is the cause of colicky pains you had better stop giving it.

Pin Worms.

I have a mare that has pin worms and would like to know how to get rid of them.—J. H. R., Solomon, Kan.

For your mare with pin worms give a tablespoonful twice daily of the following mixture: Pulverized wormwood, ¼ pound; copperas, ¼ pound; charcoal, ¼ pound; pulverized licorice, ¼ pound; salt, ½ pound. Give this treatment two weeks, giving the animal 1½ pints of raw linseed oil and 2 tablespoonful of turpentine at one time as a drench. Rectal injections of 2 gallons of warm water to which ½ ounce of creolin has been added may also be given.

Sow Out of Condition.

I weaned the pigs from one of my sows and am now trying to fatten the sow, but she will not eat well and does not fatten. Have changed her feed several times but with no results. She does not seem well. What would you suggest?—L. N. C., Jester, Okla.

It is rather difficult to state just what the trouble is with your sow. As you have tried the change of feed without any benefit, I would suggest that you give her enough epsom salts in her swill to cause the bowels to be fairly loose, say 8 to 10 tablespoonful depending upon the size of the animal. Then give her a teaspoonful twice daily of the following mixture: Charcoal, 2 ounces; copperas, 2 ounces; nux vomica, 1 ounce; common salt, 2 ounces; sulphur, 1 ounce. Give this in the feed.

Bloody Milk.

What can I do for a heifer that is giving bloody milk? She calved in July and is still giving a good flow of milk, but about a week ago the milk from one teat became bloody.—P. L. S., Weir, Kan.

An injury to a portion of the udder may be the cause of this bloody milk, or it may be some trouble with the constitution of the cow. If there is no fever in the udder, the following treatment very frequently clears up this condition: Take 1 pound of epsom salts dissolved in a little water. Add to this solution about 2 ounces of powdered ginger, shake thoroughly and give in two doses about 1 hour apart. Give this about two or three times, four or five days apart and give 1 teaspoonful of powdered nitrate of potash in a little feed once per day.

Wire Cuts.

(1) I have a horse colt coming 2 years old that was cut in the wire when 4 months old. The cut was on the right hind leg and went to the bone, tearing the skin down. It healed but left a big hard knot. Would blistering cause it to go down?

(2) I have another colt of the same age that was cut to the bone in the left front foot just under the fetlock. This happened last June and in August he was cut again in the same place. This is not healing so well and would like to have your advice.—W. J. H., Drummond, Okla.

(1) Blistering or the application of iodine may assist some in reducing the enlargement but frequently the enlargement that follows the healing of wounds is permanent.

(2) If a wound is slow in healing it sometimes can be stimulated by the application of a little carbolic acid. In the use of medicine the object is to assist nature to bring about the repairing changes and if the place be stimulated with the carbolic acid and then later a weak solution, say 2 per cent of carbolic acid, be applied as a wash healing will probably take place. Wire cuts are usually tedious to treat.

Nasal Gleet.

My 4-year-old mare started with nasal gleet about a year ago and since then have had two veterinarians on her case. Her nostrils have been syringed out, she has been given different powders, trephined and removed two teeth, but still seems to be about the same. She breathes hard and has a yellowish discharge, but is in fairly good spirits and flesh. Is there any danger of glanders?—L. H., Moundridge, Kan.

If the nasal discharge is the result of bad teeth or some growth in the nostril this cause should be removed. Sometimes the pus collects in the sinus and it is necessary to trephine into the lower part of the sinus so as to give good drainage. If this has been done the only thing that remains to be done is to give



Mrs. O'Leary's Cow

kicked over a lamp, and Chicago was burned up

That's history. History repeats itself. You don't want it to do so on your farm. It can't if you have Electric Light. You can have Electric Light by the use of a small lighting plant and be sure of safe, dependable, brilliant light at any hour of the day or night by the simple pressure of a switch. These isolated plants consist of a small gas engine, a dynamo, a simple switchboard and a storage battery called the

"Chloride Accumulator"

These plants are small duplicates of those used in the large city lighting plants. By running the engine a few hours occasionally you generate enough electricity (which is stored in the "Chloride Accumulator") for use during the night or at other times, thus enabling you to also use the engine for other farm work. These lighting plants are easily installed, inexpensive to install and operate, and can be had for a small or large farm. It's no trouble for us to send our book, "How to Have Electric Lights on the Farm." It will show you a dozen reasons why you need an Electric Lighting Plant. In any event, it's interesting and instructive. Write to us for it today.

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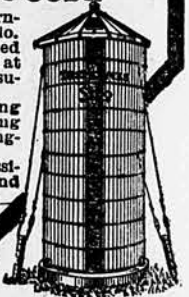
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First Cost Is the Last Cost.

Creosote dipping adds, according to Government reports, 17 to 20 years of life to the silo. That is the reason the Des Moines Silo is dipped in creosote. A special dipping plant was built at great cost to add this feature to the already superior construction of the Des Moines Silo.

The creosote penetrates into the wood covering every crack and going deep—making the wood absolutely impervious to moisture, thus preventing rot and in a large measure overcoming the shrinkage and swelling due to changing atmospheric condition. It is never necessary to paint the Des Moines.

Des Moines Silos are equipped with spring lugs that overcome the last possibility of the hoops becoming loose. The Des Moines Triple Anchor System and three inside hoops are the best in the world. Positive insurance against damage by wind. Other buildings may go but the Des Moines Silo will stand. The story of the Des Moines Silo is told in a book that will be sent free.

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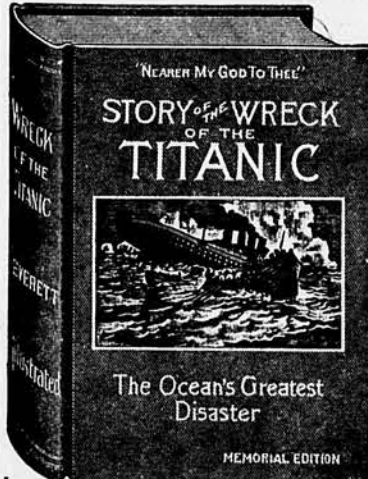
The Thrilling Story of the Wreck of the Titanic

The Most Appalling Marine Disaster in the History of the World!

The steamer Titanic, largest and most luxurious vessel in the world, on her first ocean trip, crumples her steel prow against an iceberg and in four hours the great floating palace sinks with 1600 persons aboard. Numbered among the victims were some of the world's multi-millionaires and men identified with the world's greatest activities.

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Mothers and children were torn from husbands and fathers; sisters 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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I enclose \$1.25 to pay for a 15-months' subscription to Mail and Breeze. You are also to send me, free and prepaid, one copy of the Great Titanic Book.

Name.....
Address.....

the animal internal remedies. Give a tablespoonful twice daily of the following mixture: Sulphate of copper, 2 ounces; nux vomica, 2 ounces; Golden Seal, 2 ounces; charcoal, 1 ounce, and ginger, 2 ounces. Also give 2 table-spoonsful daily of Fowler's solution of arsenic. The case is probably very obstinate and will require a great deal of patience to treat. Before going any further, however, I would suggest that you have the animal tested with mallein in order to make sure that it is not affected with glanders.

Side Bones.

My 7-year-old mare weighing about 1,600, has side bones and at times they make her lame. Can they be removed or can they be kept from causing lameness? Are they hereditary?—W. A. W., Denison, Kan.

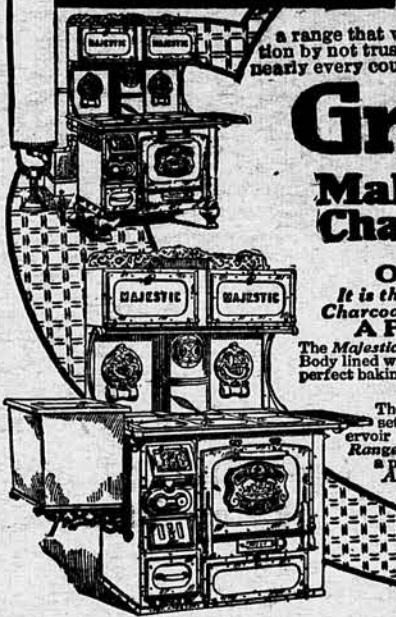
Side bones cannot be removed, but the lameness can sometimes be overcome by the application of strong blisters or by burning the part with a hot iron. I would suggest that you get a mixture of 1 dram of red iodide of mercury, 1 dram of Spanish fly, and 10 drams of vaseline. Rub this thoroughly on the part affected and tie the animal's head so she cannot bite it and blister her lips. Wash it off after 24 hours and apply a little vaseline or lard. When the scabs have come off you can blister again, say in about two months' time. Bone diseases indicate a weakness or poor quality of the bone and this poor quality of the bone would be transmissible from parent to offspring. I do not mean to say that a mare with a spavin will give birth to a colt with a spavin, but that colt will probably have a poor quality of bone and when subjected to exertion is very likely to develop some bone trouble.

Mangy Hogs.

What is a good winter remedy for the mange or itch in hogs? In the summer I can cure the trouble with lard and sulphur, but cannot use this now. I change the bedding from one to five times a week. The hogs do not have the scabs but they have small red spots and rub themselves constantly.—M. H. S., Galena, Kan.

A mixture of kerosene and lard should help to clear up this disease, but the pens and yards should be thoroughly dis-

The Range with a Reputation



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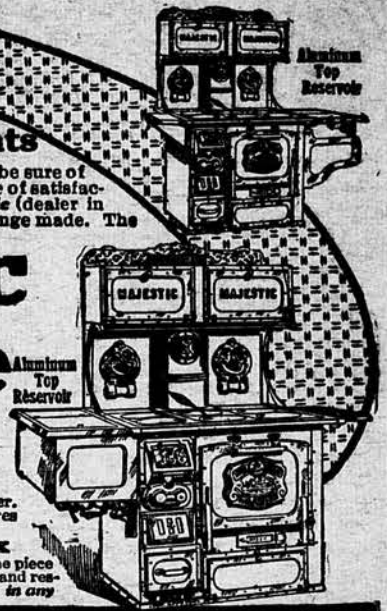
Only when you have done this can you buy intelligently and be sure of a range that will last a lifetime. You don't buy a range every day—be sure of satisfaction by not trusting wholly to printed descriptions. See the *Great Majestic* (dealer in nearly every county of 40 states) compare it point for point with any other range made. The

Great Majestic Malleable and Charcoal Iron Range

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It is the only range made of malleable iron and charcoal iron. Charcoal iron won't rust like steel—malleable iron can't break.
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The reservoir all copper and heats through copper pocket, pressed from one piece setting against fire box. Holds 15 gallons water. Just turn lever and frame and reservoir are instantly moved away from fire. *Greatest Improvement ever put in any Range*—increasing strength and wear of a *Great Majestic* more than 800% at a point where other ranges are weakest—many other exclusive features. Ask to see it. For sale by dealers in nearly every county in 40 states. Any *Majestic* dealer can furnish any size or style *Majestic* Range with or without legs. Write today for our booklet, "Range Comparison."
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It Should Be In Your Kitchen

infected regularly in order to keep down such troubles. Air slaked lime should be used freely around in the pens and yards and of course all rubbish should be raked up and burned. Then the pens should be sprayed frequently when the weather is not too cold. Where hogs have been kept on the same ground and in the same pens for years, these yards and pens seem to become infested with parasites and the easiest way to get rid of them, outside of dipping and spraying, is to change the yards and pens after a couple of years, cultivating the yards where they have been.

Unthrifty Colt; Runt Pigs.

(1) I have a colt weighing 1,000 pounds, to be 4 years old in spring, that is not do-

ing as well as she ought. Have been feeding her corn, cane, corn fodder and straw. She is not filling out and seems to be weak in the ankles.

(2) Do you think it would pay me to buy some April pigs that did not do well last summer? They have not gained 25 pounds each since the last of June, largely because they were not fed properly. I could buy them cheap.—M. D. W., Conway, Kan.

(1) Usually when colts 4 years old do not thrive as well as the younger or older animals, people think that the hard time for the colt is when it is 4 years old. If its teeth are sound and there are no caps to interfere with it eating I would suggest that you give it a table-spoonful twice daily of the following mixture: Pulverized gentian ¼ pound, pulverized nux vomica 2 ounces, charcoal ¼ pound, pulverized Golden Seal 2

ounces, pulverized licorice 2 ounces and common salt ¼ pound.

(2) Whether it would be profitable for you to buy the spring pigs or not would depend on a number of circumstances. Frequently young stock that has been stunted makes rapid gains when it has good care and feed. If you have plenty of good feed and can get these pigs right I would suggest that you buy them.

Why He Pays for the Mail and Breeze.

I subscribe to the Mail and Breeze because it is an excellent farm paper and because I enjoy the articles by Tom McNeal.
J. R. Jackson.

Mangum, Okla.

6 Beautiful Monthly-Blooming Roses FREE Including the Famous "Blumenschmidt"



Most Wonderful Free Gift Offer Ever Made

THIS is an announcement that should bring a quick response from every woman reader of my paper. It is a genuine, free gift offer—the most liberal we have ever made—by far the most attractive ever made by any American publisher.

We desire to secure 50,000 new subscriptions or renewals within the next 30 days, and we expect this wonderful offer to meet with such prompt acceptance that every Rose in our immense stock will be taken before this offer is two weeks old.

In the past we have given away many thousands of beautiful and valuable Roses to the readers of this paper. Now, we are going to make an offer which should—and we are sure will—bring new subscriptions and renewals by the thousands.

Everyone loves flowers, and the one special favorite of all is the rose—it is the most beautiful and most popular of all flowers. You will need a collection of carefully chosen roses to beautify your lawn or to make your flower garden complete this spring, and you will be delighted at the beauty and variety of the roses included in this great offer.

In order to make this by far the most attractive and most winning offer ever advertised, we have secured a superb collection of six of the most beautiful roses to be found in America. They are not cheap, common varieties; they are the rarest and most famous plants ever offered. They are well rooted, strong and healthy; guaranteed to give satisfaction or money cheerfully refunded. We head this big value collection with

The wonderful "BLUMENSCHMIDT" The Most Sensational Rose Discovery of the Age!

This latest and most beautiful variety is alone worth more than the small sum we ask you to send on this special offer. In this newest Rose creation we offer you an improved and glorifying monthly blooming plant, with flowers of pure citron-yellow, outer petals edged with the slightest tint of rose. A variety of most vigorous growth and winner of many premiums at horticultural shows.

In All, Six Different Colors Red, White, Silvery-Carmine, Yellow, Pink and Crimson.

The other Roses included in this most exceptional offer are all first quality plants, carefully packed and sent prepaid at proper time for planting. They are as follows: The wonderful new *Crimson Bedder*; the *Helen Good*, a magnificent velvety pink ever-bloomer; the *Betty*, a remarkably fine shade of golden yellow; the *Mme. Jenny Guillimot*, finest silvery-carmine rose ever offered; the *White Maman Cochet*, snowy white, with rich full flowers. This liberal offer is made solely for the purpose of advertising our big farm paper. Here is our offer. We send all the above collection of six fine Roses with One Year's subscription—or renewal—for only \$1.00. Order at once before they are gone. Address

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Free Rose Premium Coupon

Date.....1913.

Farmers Mail and Breeze, Dept. 801, Topeka, Kan.

I am enclosing herewith \$1.00 in Express or Postoffice Money Order, which is to pay for one year's subscription. This is a new (or renewal) subscription. (If this is a new subscription, please cross out "renewal." If you are already a subscriber, please cross out "new.") It is understood that I am to receive, as a free premium, your beautiful collection of six ever-blooming roses, sent prepaid.

My Name

Complete Address



Leidigh's Answers TO FARM QUESTIONS

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

Two Ways of Cleaning a Meadow.

I have 10 acres of clover and timothy. After it was cut last year there was a second growth of foxtail grass. Will this bother me this year in cutting or can I burn it off while the ground is frozen without injuring the clover and timothy?—M. W. B., Nemaha county, Kansas.

You can clean up your timothy meadow by burning during cold weather. I should not advise this unless the conditions are very extreme. The application of a little manure followed by a good harrowing after the ground has thawed, or even harrowed without the manure will probably break the grasses up sufficiently and cause them to mat down against the ground and practically disappear. A. H. Leidigh.

Sweet Clover for Western Kansas.

I have a piece of land which slopes to the south. It was plowed last in the fall of 1911 and sowed in the spring of 1912 with alfalfa. The alfalfa failed so thought I would sow Sweet clover in it for hog pasture. Will Sweet clover make good hog pasture?—J. F. O., Rush county, Kansas.

I believe Sweet clover is well worthy of testing in your district. As several of the letters in the last issue of the Mail and Breeze have been about this crop, I refer you to them, but would add in addition that you ought to sow the seed about the middle of March, using 15 to 20 pounds per acre. If your land is loose and loamy, disking or shallow plowing is all you need to do, except such-work as will be necessary to get a good mulch on the land. In your location there is so much blowing in the spring that it would be best not to work your surface soil down too fine, and you should not do more work than is absolutely necessary, because the finer you pulverize the ground, the more apt you are to cause blowing. A. H. Leidigh.

How Sow Alfalfa This Spring?

I want to sow some alfalfa this spring. When is the best time to sow? How prepare the land? How much seed per acre? The land was in cowpeas last year and is creek bottom and sandy.—J. H. B., Weleetka, Okla.

I note your land is sandy. Sandy lands of certain kinds are sometimes unsuited to alfalfa. I would advise you, therefore, in a general way either to plow the land now to a medium depth or if it was fall plowed, to harrow and work it into a good seedbed whenever the weather conditions render spring work necessary.

A good seedbed for alfalfa should be prepared deeply some time in advance of planting, and either allowed time enough to settle and become firm, or else given enough work to make it good and firm except on the immediate surface, which must be in a fine state of cultivation and free from all growing weeds. Planting may be done as soon as spring opens up, say about the first part of March, or else it may be done about the middle of corn planting time, say about the first of May. If you plant it at the later date, you will have a good opportunity to kill several crops of early weeds and you will have escaped any possible danger of freezing, but at the same time there will be more danger of damage from heavy beating rains, and if the land is badly infested with grasses the plants, the young alfalfa, may possibly be more easily injured on account of late seeding.

You should use from 12 to 20 pounds

of good seed per acre, according to your seedbed and weather conditions. If you use a drill, it will be possible to save 4 or 5 pounds of seed per acre.

A. H. Leidigh.

"Sourless" Cane an Old Sorghum.

Is there such a thing as a sourless cane? That is, a cane that will not sour after being cured and put in shock for feed?—E. D. Cowley county, Kansas.

There is a variety of sorghum which is frequently called sourless cane. The name is "Planters' Friend." Planters' Friend sorghum was grown many years ago in Kansas when the government was experimenting with sorghums in the production of sugar. Seed obtained from some of the old sugar test stations found its way into central southern Kansas, and the variety is now grown to considerable extent from Emporia, Kan., to Amarillo, Tex. In this territory it is sometimes known as "sourless cane." The name as applied to this sorghum refers to the fact that it is not as juicy after maturity as some other varieties of the saccharine sorghums. In this respect, however, it should be said this variety is not as dry as Kafir and many of the non-saccharine sorghums.

It is a well known fact that an extremely large tonnage of either the sweet sorghums or Kafir can be obtained and used for silage. I believe the thing to plan on should be the use of these crops for silage rather than for dry foods.

The agronomy department of the Experiment station is preparing a circular giving the names of persons who have various kinds of farm seeds for sale. I have placed your name on our mailing list so you will receive one as soon as they are printed. A. H. Leidigh.

Planting Cowpeas With Kafir.

I am thinking of sowing 12 or 15 acres to cowpeas in the spring and would like to know what is the best kind, the best time and way to sow and if it is best to sow something like oats with them to hold them up so that I can mow them for feed? Would it do to plow good for the peas and after they are cut double disk and harrow the same ground for wheat?—L. J. C., Ford county, Kansas.

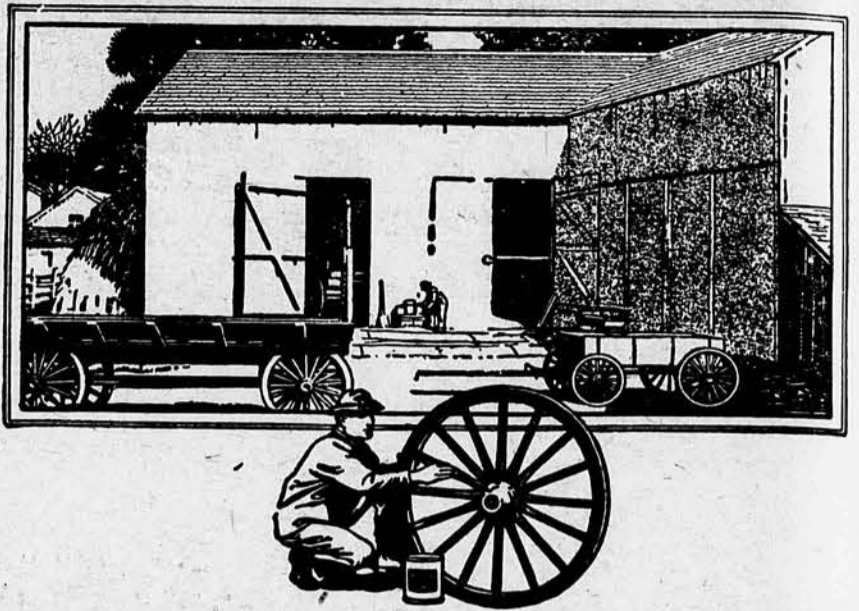
In your locality I would not advise planting cowpeas before May 15 or 20 and would expect them to be just about as successful if planted two or three weeks after that. Oats of course would make no profit at all if planted at that time. We have had some very good results at this station by planting from 1 to 1½ pecks of Kafir or Sweet sorghum with 2 or 3 pecks of cowpeas. You will want an early variety of sorghum and a late variety of cowpeas. Cut the crop at the time when the cowpeas seem to require harvesting. Mixtures of cowpeas and sorghum or millet, are not always a success as sometimes you get a heavy stand of one thing and practically no returns from the other thing in the mixture.

Land which has been in cowpeas may be prepared for fall wheat by a shallow plowing or disking. If you have a wet summer, a rather long wet fall, you ought to be able to get a pretty good crop of wheat off such land. A. H. Leidigh.

Welcomes the New Farm Power Column.

Mr. Editor—I would be glad to see a column in Farmers Mail and Breeze every week, devoted to farm power, autos, motorcycles, and motors of all kinds. It is the best way for a farmer or a poor man to get onto the useful tricks of handling power machinery. I would also like to see a question and answer column in connection with it. Arthur Rule.

[Mr. Chalk, who edits this department of the Mail and Breeze, is a practical man and stands ready to answer all questions asked. He can help you in case of motor trouble of any kind.—Ed.]



If you want to lengthen the life and service of your farm wagons and implements, paint them now.

Sherwin-Williams Wagon and Implement Paint is specially prepared for the painting and refinishing of wagons, machinery and implements. It flows easily and dries with a hard, lasting gloss. It effectively prevents rust or decay, and a wagon thoroughly painted with it every spring should stay in good shape for fifteen or twenty years.



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All threshing machines are not alike. There is one different from all others. It has a different way of taking the grain out of the straw. It beats it out just as you would do by hand with a pitchfork. All other machines depend upon its dropping out.

This one different machine is the Red River Special and you should insist upon having it do your threshing. It will save all your grain and waste none of your time.

It saves the Farmer's Thresh Bill.

It has the Big Cylinder, the "Man Behind the Gun," the patented Grate and Check Plate, the greatest separating devices ever built.

The Big Cylinder drives the intermingled straw, chaff and grain against the separating grate, beating the grain through where the check plate catches it and delivers it to the grain pan and mill.

Ninety-five per cent of the grain is taken out right there.

The straw goes over upon the shakers which hold it and beat it until all the grain is beaten out.

In all other kinds the straw is hurried out of the machine and the grain is expected to drop out.

It doesn't. Thousands of green straw stacks every year loudly say it doesn't.

The Red River Special saves all this. Insist upon its doing your work this year.

It will save your thresh bill. Write for proof.

To Whom It May Concern:

I, J. Knudson, farmer, of McHenry County, North Dakota, do depose and say that during the summer of 1908 I bought of Nichols & Shepard Company a threshing outfit, consisting of one 20-horse power, double cylinder traction engine and one 22x2 Red River Special Separator with wind stacker, self-feeder and weigher attached.

That on or about August 23, 1908, I started this outfit near a stack of old straw that had been threshed in 1907 by a separator, and to stretch the belts on the new machine I caused a small load of old straw from the stack in question to be run through the new machine and was surprised to get over sixteen bushels of oats from this load of straw.

I afterward threshed out the balance of this stack and got 347 bushels of grain.

(Signed) JAMES KNUDSON.

Subscribed and sworn to before me, a Notary Public, in and for McHenry County, North Dakota, this 6th day of Feb., 1909.

J. EDGAR WAGAR,
Notary Public.

My commission expires March 27, 1914.

NICHOLS & SHEPARD COMPANY, Battle Creek, Michigan
Builders of Threshing Machinery, Engines and Oil-Gas Tractors

\$8.20 For This Great, Low Priced, Fully Guaranteed Plow—30 Days' Free Trial

Dan Patch Beam Plow

Soft Center Moldboard and Share Double Shin—furnished in stubble or turf and stubble. Made of soft center steel, has heavy steel point.

More than 2,000,000 farmers are customers of mine. I save them money. I'll save YOU money.

MONEY BACK IF YOU'RE NOT SATISFIED

M. W. Savage, Pres.
M. W. Savage Factories Co., Inc.
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Write Today For My Special Implement Catalog—FREE

Thirty days' free working trial on your own farm. Compare my price with anybody's! Then write at once.

Greatest walking plow value ever offered. Lowest price ever. A plow to fill every requirement. Double shin and solid steel shin welded on top of moldboard. Bottoms perfectly shaped—always secure. Strongly braced. Shin welded to landside and carefully bolted to share. Handles and beams proper length—made of white oak.

Have You Tried the Parcel Post?

The Mail and Breeze would like to know if you have made any use of the parcel post as yet? Have you bought or sold anything in this way? If so what was your experience? Were the goods carried safely? What fault if any do you find with the new system? What is your opinion of its future usefulness? What improvement would you suggest? It would be an excellent idea for Mail and Breeze readers to compare notes on these points, especially so, just now. Will you write what your experience has been covering any of the features suggested by the questions. Do so early, so we can have the letters for an early issue if possible.

We Pay 4 Per Cent Interest Farmers Sons Wanted

on Time Certificates of Deposit if left with us six months or longer. Capital \$20,000.00. A State Bank. Send us your check or draft.

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with knowledge of farm edge of farm with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in every state. Apply at once, giving full particulars.

Primary Agents Association, Dept. 22, London, Ont. Can. 1913.

A Pure Seed Law Certain

Kansas Will Pass the Roberts Bill

A PURE seed bill to meet the conditions described by H. F. Roberts, bontanist of the Kansas station, in last week's Mail and Breeze was introduced in both houses of the Kansas legislature before the week was out and will undoubtedly become a law.

It may be said for the credit of the seedsmen that they have made little objection to the proposed law. It will put the seed fakir out of business who has always been the demoralizing element in the trade. Reputable seedsmen can compete with one another, but they cannot, of course, meet the prices of the faker who sells poor or adulterated seed.

The seed law provides that no person, firm, or corporation shall sell, offer to sell, or distribute in Kansas, any agricultural, grass, or forage seeds, which contain seeds of forbidden weeds. The forbidden weeds are Johnson grass, quack grass, bindweed, dodder and sow thistle. If any of these seeds appear in amounts greater than one seed of any of the species in 10,000 seeds of any lot of a agricultural, grass, forage seeds, the penalty applies. This is a fine and costs of from \$10 to \$100 for the first offense and of from \$100 to \$500 and costs for every subsequent offense. The penalty clauses of the act are to take effect July 1, 1914. In case of violation of the law the seed commissioner transmits the facts to the county attorney of the county in which the offense is committed.

The law provides that by prepaying transportation charges any citizen of Kansas may have samples of seed examined and tested free of charge.

The Label Must Tell It.

In another class of weeds, denominated noxious weeds, the law lists crabgrass, foxtail, wild oats, cheat, dock, smart weed wild buckwheat, Russian thistle, French weed, pepper grass, shepherd's purse, charlock, black mustard, roquette, yellow trefoil, bur clover, wild carrot, buckhorn, Rugel's plintain and chicory.

In all cases where the total of these noxious weeds as defined exceed 2 per cent of the total weight of the agricultural seeds, the package, sack, or bag containing the seed must be labeled with the full name and address of the seller, the name of the seed, or seeds, if a mixture, and the English common name, or names, and percentage of weed seed present. Wherever there is a question about what may be considered the common name for any of these weeds the

Experiment station is to designate the name to be employed. Additions may also be made to the noxious class of weeds, provided a year's notice is given.

Seeds for Food or Feeding Excepted.

Packages of seeds sold or offered as mixtures must also be plainly labeled with the current common names of all the seeds in the mixture.

It is made unlawful to misbrand, falsely label, or to neglect to label seeds in the manner specified.

Cereals or other seeds sold for manufacturing purposes, for food or for feeding, are excepted from the provisions of the law, including corn in the ear.

The law does not forbid the sale of unclean seed in plainly labeled "unclean seed" except in the case of the forbidden weeds. Where there are large quantities of unclean seed stored in an elevator, granary, or warehouse, it will be sufficient to label the bins or subdivisions, but this seed may not be sold for seeding purposes in Kansas without the consent of the purchaser. The act does not apply to seeds or grains in transit.

Test Results To Be Published.

Section 7 directs that the Kansas Agricultural College and Experiment station shall inspect, analyze or test seeds intended for sale or distribution for seeding in Kansas at such time and place and to such extent as it may determine. The director of the Experiment station is authorized to appoint a state seed commissioner and such other agents as may be necessary to carry on this work. These agents are to have free access at reasonable hours to buildings and premises for such examinations, and on tendency payment at current value may take samples of seeds. The salary of the seed commissioner and his assistants is to be fixed and paid by the board of regents of the Agricultural college.

The seed commissioner is required to make an annual report to the director of the Kansas station, upon the work done and may publish circulars, bulletins, and press reports on the condition of the seed trade, describe dangerous weeds and give results of inspections including the names of persons involved.

Penalty Provisions of the Law.

The penalty for violating or not complying with the seed law is a fine of from \$10 to \$100 and costs for a first offense and from \$100 to \$500 and costs for every subsequent offense. But no action for damages, or recovery, by a buyer against a vendor who violates the seed law, may be maintained unless the action shall be begun in a reasonable time prior to the sowing or use of the seed and the buyer must offer the analysis of the seed, or report of the Experiment station as evidence.

The sections of the law providing for beginning the tests, issuing certificates of examinations and publishing reports of tests, will take effect after July 1, 1913. The penalty provisions become active after July 1, 1914.

An appropriation of \$3,000 is to be made for the fiscal year ending June 30, 1914, and \$7,500 for the year following for the equipment of an adequate seed-testing laboratory and for carrying out the provisions of the seed law.

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. 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.

Built by One of the Largest Concerns in the World or American Roads Especially

The J. I. Case T. M. Company, Inc., maker of the famous Case Forty, is a \$40,000,000 concern. For seventy years it has manufactured the finest machinery in its lines. You know, and your friends know, the quality.

The Case Company has thousands of customers in every part of the United States. Our machinery goes to all parts of the world.

We are making the Case Forty for our old customers as well as for hundreds of people who will drive cars in the cities.

The Case reputation is staked in each car. Our methods of building, our grade of materials, must be better than usually go into Forties to maintain our 70-year-old standards.

Savings We Do Not Make

We could make large savings on the cost of our motors by using cheaper materials. Also on clutches, transmissions, drive shafts, wheels, axles and other vital parts. We could cut our assembling cost in two, and this cost is one of the largest.

We put into the Case—in every car—hundreds of dollars of extra value that does not appear on the surface. But that insures Case Service. No other Forty at \$2,200 ever gave equal value.

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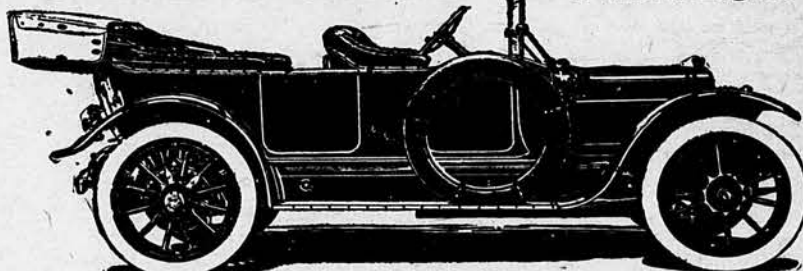
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ORCHARD & GARDEN

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When the buds begin to swell it is time to do the grafting.

Well rotted manure is the only kind to put on the garden in late winter.

Alfalfa ground, the second season after breaking, makes an excellent soil for potatoes.

The ideal location for grapes and small fruits is a sandy loam underlaid with an open clay subsoil.

Short singletrees, with ends covered with leather or burlap, will not bark the trees while working in the orchard.

Painting the wounds left after pruning the larger limbs, will keep out fungus diseases and prevent drying out. White lead is best for this purpose.

Some potato growers expose their seed to the light for some time before planting to stimulate early growth. This is also said to be one way of preventing scab.

Strawberries will do better on some soils than others but there is not a farm in Mail and Breeze land that cannot be made to grow them.

It is not too early to put the hotbed in shape and plant a dime's worth of lettuce and radish seed. It is a good risk to take, even though there may be some more zero weather on the way.

Fertilizers For Potatoes.
I have heard that carbonate of soda is the proper fertilizer for potatoes. Is this correct? If so, how much should be used per acre?—W. D. R., Alva, Okla.

Carbonate of soda is never used as a fertilizer. It is one of the worst alkali salts and when it occurs naturally in the field is known as black alkali.

It is generally advised that fertilizers for potatoes should be high in potash. The most common form of applying potash is in the form of potassium sulphate. Many investigators seem to think that potassium in this form injures the quality of potatoes and they advise the use of the potassium in the form of chloride. I think it makes little difference whether you use the potassium sulphate or potassium chloride. If you have never used commercial fertilizers before it would be well in all probability to run it in the form of a test, fertilizing only a portion of your field. In this case I would recommend that you use a complete fertilizer having a composition of about 2-8-6 or 2-8-10.

There are very few dealers in Oklahoma handling commercial fertilizers at this time. If the dealers in your home town do not it would be well to take the matter up with some packing plant such as Morris & Company, of Oklahoma City, and Swift & Company, of Kansas City. O. O. Churchill, Oklahoma Experiment Station.

Evergreens For Wind Breaks.
Which of the two varieties of evergreen would you recommend for this locality, the Red cedar or the American arbor vitae? I wish to plant them for windbreak.—G. W. R., Wichita, Kan.

Of the two species named, the Red cedar is the only one that is worth considering in Southern Kansas. It is entirely hardy throughout the state and is without question the most efficient tree for windbreak planting that we have. The American arbor vitae is not at all adapted for Kansas climatic conditions. It is found growing naturally in the Lake states and from there east to the Atlantic ocean. It prefers swampy conditions and is always found in greatest abundance and attains its largest size on such sites.

In Kansas, the tree suffers from the extreme heat and our drouthy periods. In addition to this, it sunscalds during the winter season. It is possible that you have in mind the Chinese arbor vitae. This tree has been planted quite extensively throughout southwestern

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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. WICHITA NURSERY BOX 18 WICHITA, KANSAS.

Kansas and there are many of the trees growing in the vicinity of Wichita. So far as I have been able to get information concerning it, it is suitable for Kansas conditions. For ornamental planting I consider it more desirable than the Red cedar, although I think the Red cedar is a better tree for windbreaks. The arbor vitae has one advantage over the Red cedar in the sections of the state where apple growing is an industry, it is not a host for the cedar apple fungus. Consequently there is no danger of injuring fruit by planting the Chinese arbor vitae. Charles A. Scott, State Forester, Manhattan, Kansas.

An Early Start in the Garden. [Prize Letter.]

Mr. Editor—To insure a good garden I disk the ground thoroughly, as early as possible after the snow goes off, to hold moisture and liberate the plant food. After plowing, the ground is harrowed several times the same day it is plowed. To finish the job before planting, an Acme harrow is about the best tool, but a float of planks is fine for getting rid of the small clods that are so troublesome in growing small plants.

Where ground is plentiful and time scarce, lay the garden off in rows with a corn planter or marker, so it can be worked by team. When rainfall is light the wide rows will furnish more moisture for vegetables than the narrow rows. By cultivating once just before the plants come up very little hand work will be necessary.

Cover beet, radish, lettuce, and all other small seed, very lightly. Beans, peas, corn, etc. will come up through an inch or more of earth. The smaller early vegetables may be planted between rows where cucumbers, melons and tomatoes are to grow, as they will be out of the way before the larger plants will have made much growth. I leave a vacant row between the vining plants and other garden crops. It is also well to do this with tomatoes as it does not pay to crowd plants in a garden.

Cucumbers and musk melons should be planted some distance apart so they will not mix. Put a stake in each hill when planted and it will be easy to follow the rows in working them before they are up. I have found it a good plan to plant a strip of Kafir or milo on the south side of the garden and also a few rows through the middle where the garden is wide. This makes a good windbreak and cucumbers also do better when they can reach a patch of corn or Kafir, although there should be plenty of room between them.

I do not wait for weeds to show themselves as they are more easily killed before they are up. An average sized garden can be kept in good shape by about an hour's work each week done in the right way and at the right time. I am sorry to say that too often the care of the garden becomes the task of the already overburdened farmer's wife, in the form of hoeing. Just a little foresight and but very little work would do away with this imposition on the women folks.

Where water is available it is a good plan to irrigate the row before planting, especially during a dry season. In irrigating a garden I prefer to have the water run between the rows rather than to flood the surface. As soon as the ground is dry enough to work I stir it so as to hold as much moisture in the soil as possible. Too much water in early spring is bad as it keeps the ground cold and causes the plants to turn yellow. Meade, Kan. O. S. Newberry.

Pruned in June or February.

Mr. Editor—If we could choose our time for pruning trees we would prune in February or June. Some hesitate to cut in June because the branches that ought to be cut off are loaded with fruit. But prune when it is needed, fruit or no fruit. The main advantage in June pruning is that the wounds heal readily, even though the branches removed are large. It is a good plan in this part of Nebraska to prune so the trees will branch low. Trumbull, Neb. E. L. Hadley.

The Best Paper "What Is."

My husband thinks the Mail and Breeze is the best paper what is. Mrs. P. S. Jackson. R. 1, Seiling, Okla.

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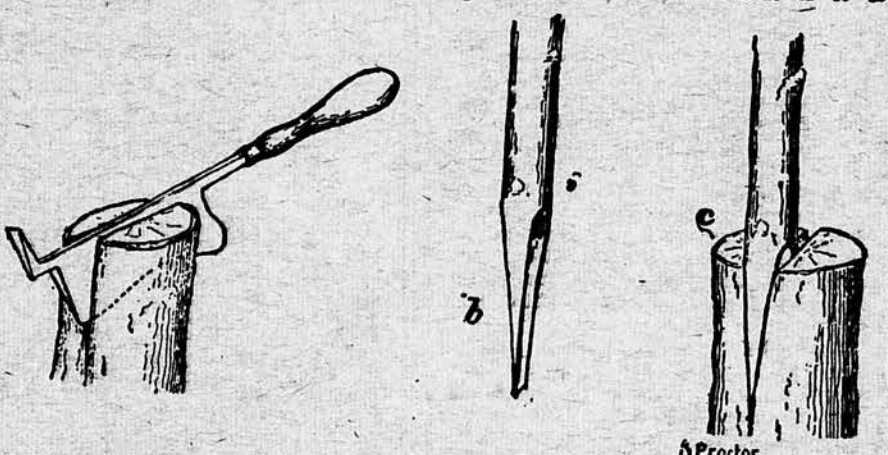
German Nurseries & Seed House, Box 153, Beatrice, Neb.

Apple Root and Top Grafts

BY GEORGE O. GREENE,
Kansas Agricultural College.

[Written for Farmers Mail and Breeze.]

DIFFERENT kinds of grafting are practiced at different seasons of the year. In this dissertation we will consider but two of the many methods used in the propagation of known or described varieties on the roots of unknown or undesirable varieties. We place together roots and scions of somewhere near equal size and call the operation "root grafting." We use the same dormant scions in the tops of trees for the purpose of working over that particular variety and call the operation "top grafting" or "cleft grafting." The first operation is carried on during the winter months and the latter is done just before growth starts in the spring. The necessary points to be remembered



Beginning at the left the first drawing shows method of splitting the stock for a cleft graft; B, scion ready to insert; C, scion in place. Where the stock is large enough, a scion is usually placed in each end of the cleft. If both grow, only the best is allowed to remain.

are that the growing tissue (cambium layer next to the wood) of the stock must come in contact with the growing tissue of the scion and that the scion must possess at least one good bud.

Not a Difficult Operation.

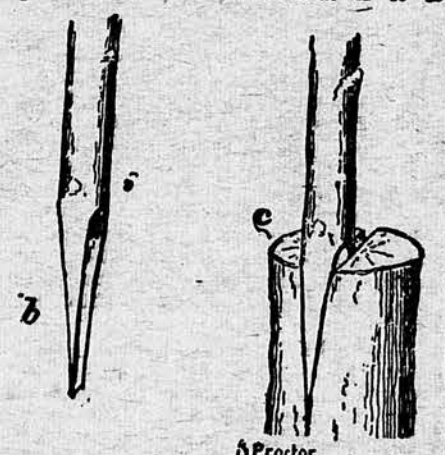
The scions are cut to about 6 or 8 inches in length. Both the scion and the stock are cut at the same angle with a sharp, thin bladed knife. A tongue is cut in each at about one-half the distance of the beveled surface taking care not to cut so closely to the grain of the wood as to split either. The tongue of one is then slipped behind the tongue in the other. The splice is then wrapped with cord or waxed cloth and the operation is complete. It is now up to nature to make the wound heal. These grafts are stored in damp sand in the cellar until spring when the wound should have calloused over. When the ground is ready to work, the grafts are ready to be set out in nursery rows.

After a little practice any boy can perform the operation and secure a good percentage of "takes." It is not at all difficult and a little practice gives all the skill required. Seedlings for stocks may be obtained from most any nurseryman.

The special division of root grafting in which we are interested is what is

known as "splice grafting." Seedlings grown one season in a rich, deep and sandy soil are dug in the fall and stored in sand in the cellar where they will not be too warm and where they will not dry out. They must be accessible during the winter months when we have the time to do our grafting. The scions are also cut in the fall or winter and stored in the cellar where they will not dry out. It is best to store them in damp moss or hay, taking care not to allow the packing to heat. These scions are cut from the last season's growth and preferably from those trees that are known to be good bearers. The stocks may be used in any length to suit the orchardist. The longer the stock, the more success one is apt to attain but the shorter the stock the more grafts one can make with a given number of roots, so he will break about even anyway.

Cleft grafting is performed in the open and is more successful if it is

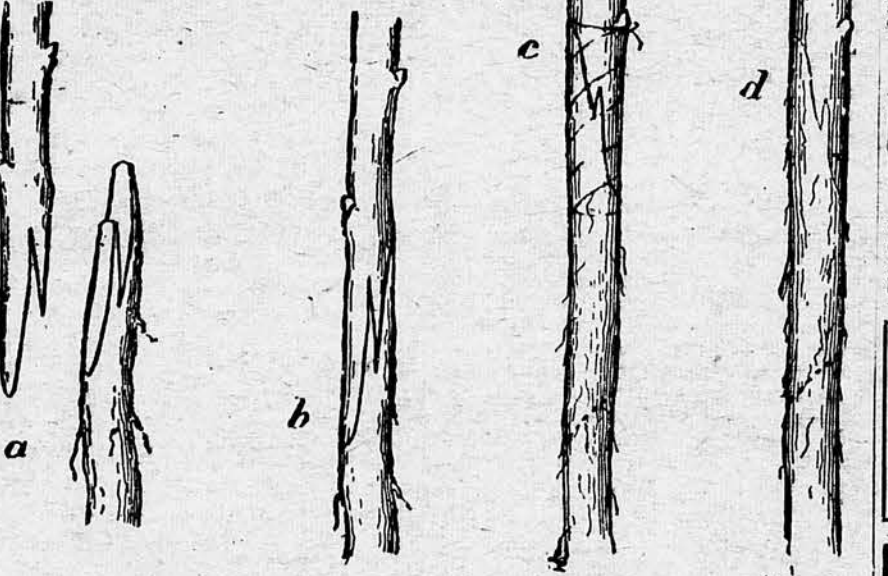


Beginning at the left the first drawing shows method of splitting the stock for a cleft graft; B, scion ready to insert; C, scion in place. Where the stock is large enough, a scion is usually placed in each end of the cleft. If both grow, only the best is allowed to remain.

done after freezing weather March is usually a good time to work over the tops of undesirable trees. It is rather a slow process, sometimes taking three or four years to get the required number of grafts in the top of a tree that has attained any size. One will be awarded a greater degree of success where the tops of the trees are grafted first and the side branches left for future treatment.

Insert the grafts in the side branches as near the main limbs as possible. Many orchardists have discovered after it was too late that they have had a great deal of extra pruning to do to keep the limbs clear of branches between the main limbs and the inserted graft.

In cleft grafting, the scions are cut smoothly and evenly wedge shaped. The



Root grafts: A represents the scion and root; B, scion and root united; C, shows the graft tied; D, is a graft with growth started. The dotted line shows where the root may be cut.

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branch to be grafted is sawed off square and then split with a heavy knife especially made for that purpose. The work may also be done with a heavy wood chisel. A knife for this purpose may be made from a heavy old file or a piece of tool steel. Any blacksmith can make one. Only wood should be used for a graft as steel or iron will batter the back of the knife causing it to tear the tissues instead of cutting them.

After the branch is split a wedge is used to hold the cleft apart, and the scions inserted so that the cambium layers of the scions will come in contact with the cambium layer of the branch to be grafted. The wedge is then withdrawn and the cleft allowed to spring back to its original position. The graft is now ready for the wax. This wax must be applied in such a manner that it will exclude all air and moisture. If this part of the operation is not done properly, the graft will not "take."

The following formula will show how to prepare grafting wax:

Resin.....4 pounds
Beeswax or paraffine.....1 pound
Tallow (or 1 pint linseed oil).....1 pound

Melt all together, pour into water and pull like taffy. This style of grafting wax can only be used on warm days. The following gives just about as good results:

Resin.....6 pounds
Beeswax or paraffine.....1 pound
Linseed oil (or 1 pound tallow).....1 pint

Melt all together and apply while warm with a brush.

Manhattan, Kan.

Trim When Wood is Not Frozen.
[Prize Letter.]

Mr. Editor—The best time to trim apple, pear, cherry and plum trees is during the winter when the wood is not frozen. Peach trees require more pruning than any other tree I know of and it will not injure them to trim when the sap starts in the spring like other trees. Peach trees should be trained to have low heads or tops. The branches if left from 15 to 20 inches from the ground will then protect the trunk from the sun and the fruit will be much more easily gathered, and the trees will be much less liable to break down.

Cherry trees need less pruning than other fruit trees. Grape vines should be trimmed, when not frozen in the spring before the sap starts. The same is true of the canes of blackberries and raspberries; but the black-capped raspberries should be trimmed in the spring as soon as the leaves are out.

Jacob Faith.

El Dorado Springs, Mo.

Put Potatoes On Fat Soil.
[Prize Letter.]

Mr. Editor—Every farm can and ought to grow enough potatoes for home use. A rich soil, well drained, and plowed 10 or 12 inches deep in the fall would be an ideal start for a potato crop. As soon as the ground will work in the spring I disk and harrow it until I have a fine seedbed. A marker with runners 2 feet 10 inches apart is easily made and the field may be marked off both ways. A good hand planter may be bought for about \$1 and it will last a life time. By planting in the cross marks you can cultivate both ways and save much extra work in hoeing.

I cut the tubers, allowing two eyes to each piece. I use only medium sized potatoes and begin cutting at the stem end. The number of eyes does not make as much difference as the size of the piece. It should always be large enough to furnish the plant sustenance until the roots get started. It will take from 3 to 5 bushels of seed per acre, depending on the size they are cut. One can plant 2 or 3 acres a day with the hand planter after a little practice. You also have the seed covered the right depth as you go.

Cultivate with the harrow until the plants are well started then use a shovel cultivator, going both ways if your patch was cross marked and planted. Working them this way there will hardly

be a chance for a weed to get started. Before the last cultivation, sow millet at the rate of 1/2 bushel per acre and you will have a fine crop of hay besides keeping down weeds and making the ground mellow. This makes digging easy.

If potato bugs bother, make a solution of Paris green at the rate of 1 teaspoonful to each 2 gallons of water. Sprinkle it on with a whisk broom and repeat as often as necessary. With the water handy one can spray 4 or 5 acres a day in this way. With these methods, 50 to 200 bushels of nice, large tubers per acre is not an uncommon yield.

C. H. Austin.

Blue Mound, Kan.

Latest "Big Bushel" Report

G. N. Haas, of Holton, Jackson county, last year planted some seed grown from seed of Mr. Capper's big bushel bought in 1909 at the National Corn Show. He writes as follows concerning results:

"The 2 pounds of corn I received from you proved very satisfactory. I had by actual measure 38 rods and gathered 20 bushels from it though I grew it on the highest and most stony ground I have. The reason I did that was to keep it away from any other corn in order to keep it pure. However, I gave the ground a good coat of well-rotted manure, but only was able to cultivate it twice on account of a wind that tangled the corn so that I would have done more harm than good to cultivate more. Next spring I will plant it on my best ground, and if you should happen up here next fall I'll show you something."

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Realizing the need for knowledge such as this book contains we have purchased a large edition from the publishers and are going to distribute the entire lot on a very liberal and very attractive free gift offer among the readers of this paper.

It is impossible in this limited space to name even a very small part of the hundreds of subjects covered in this great book. Gleason's Veterinary Hand Book is based largely upon the works of Robert McClure, M. D., V. S., one of the most uniformly successful veterinarians this country has ever produced. The methods of treating diseases of horses and other domestic animals are based upon the result of actual practice, not mere theory as is the case with most veterinary books.

Among the many important chapters are Causes of Diseases, How to Observe Diseases, Treatment of Diseases, Cerebro-Spinal Meningitis, Dis temper, Dysentery, Eye Diseases, Fistula, Glanders, Internal Diseases, Kidney Diseases, Poisons, Stomach Diseases, Bowel Diseases, Worms, etc., etc. These are but a few of the hundreds of important subjects covered in Part One of this great book. Special chapters are devoted to the cause and cure of practically every disease known to all livestock.

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By a special arrangement direct with the publishers we are able for a limited time to offer "Gleason's Horse Book" absolutely free—postage prepaid—to all who send \$1.00 to pay for a one-year new, renewal or extension subscription to our big farm weekly. Send your name and \$1.00 at once. MAIL AND BREEZE, Dept. H. B-200, Topeka, Kan.



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What Farmers Are Thinking

You are cordially invited to air your opinions in this column, but the Mail and Breeze reserves the right to condense such statements as far as possible to give other contributors a chance to say something. Short, crisp expressions of opinion on matters of interest or consequence to farm folks are welcome. All contributors must take their turn.

Worthlessness of Gold Mines.

Mr. Editor—Four thousand men at \$2.50 per day spend 1,000 days digging a hole in the ground from which is brought up 10 million dollars in gold. This is deposited in Washington and gold certificates issued for it as a medium of exchange.

Suppose these 4,000 men working 1,000 days for \$2.50 per day, build a railroad 400 miles long, costing \$25,000 per mile, or that 10 million dollars in greenbacks are issued as a medium of exchange.

Now which is the most sane thing to do? In the first case you have a 10-million-dollar worthless hole; in the second, a 10-million-dollar railroad.

Calvin, Okla. W. H. Neblick.

For the High-Living Disease.

Mr. Editor—In my readings of late there is a good deal of complaint of what the doctors call "highcostofliving." Dr. Thomas Lawson's favorite prescription for this is a dose of fish-hooks. Let all hands, including the cook, unite in holding the "system's" nose while the doc administers the dose. The experts, veterinary and domestic, assert that a steady diet of one element, no matter how good, will in time derange the "liver." The same theory was held by good, old Dr. Bryan in prescribing for the Body Politic some 16 years ago, when the said b. p. was suffering from a bad attack of the "cramps." He emphatical-

ly endorsed a balanced ration consisting of two elements at a ratio of 16 to 1 with a salad of long green. Some such treatment following the Lawson dosage might be beneficial. S. O. S. Perkins, Okla.

As to Farm-Advising the Shortgrass.

Mr. Editor—I have lived here in the shortgrass country ever since the first settlement. The present population, the majority of which is well to do and prosperous, represents the survival of the fittest. There is no man on earth who knows more about farming this country than these farmers. The secret of success lies in labor and waiting and not being quitter. We don't need any farm adviser. I don't believe there are 10 men in the county who could be advised. The best advice we have ever had came through the columns of the Mail and Breeze. Keep up the work Brother McNeal, and give us an interchange of ideas. A. F. Trumbull. Kirwin, Kan.

Help the Hard-Pressed Renter.

Mr. Editor—A little co-operation between landlord and tenant would not be a burden to the former and it would wonderfully brighten up the prospects of the latter. Owing to the advance in the price of land the owner feels he should have a fair annual income for the capital he has invested while the renter who must give from two-fifths to a half in grain rent year in and year out looks on it as a heavy burden.

Why should not every farm be provided with hog lots and sheds, and good hog pasture, so that the renter could keep a reasonable number of hogs? And along with this let each farm have a good cow pasture so the tenant may be able to keep five or six cows. From actual experience I know that six cows will furnish butter for an ordinary family and net \$30 annually per cow from cream sold. Then there was the skim-milk for calves and pigs. Allowing a little for rent of pasture and some cow feed in winter, the renter has a nice

little sum which together with the good wife's poultry profits will maintain an ordinary family, with the share of the grain raised as clear profit.

Show me a farmer who is making a living by the foregoing process and I will show you a man who is far outstripping his neighbor who draws on his wheat bin and corn crib for living expenses. E. E. Hobbs. Holton, Kan.

Are Buying Clubs Working Well?

Mr. Editor—We farmers are thinking of trying to reduce living expenses by organizing a farmer's buying club at our school house. Our object is to club our orders and give local merchants a chance to fill them, if they will do so to our satisfaction. If this cannot be done our secretary will order direct from mail order houses. We should like the experiences of other farmers in this matter and also ask you for your opinion on organizations of this kind in the school houses of the country. J. A. Darrow. Miltonvale, Kan.

[In theory, such organizations have many things to commend them and no doubt some of these buying and selling clubs are working out successfully. The one thing which stands between success and failure is the quality of membership and kind of management. Our advice to prospective organizers would be first to get into communication with the College Extension service at Manhattan, Kan.—Ed.]

Not for the County Unit Plan.

Mr. Editor—A recent Mail and Breeze had a letter from Herman Lickteig on the consolidation of schools. I'm glad to hear of one man protesting against making the county the unit for schools. I am certainly with him there. But, suppose Mr. Lickteig, we make the township the unit. Do you think you will then have any cause to worry about your boys and girls loafing about soda fountains, candy stands, peanut roasters and street corners, not to mention the matter of taxes? A few years ago it was my good fortune to have an opportunity to discuss this subject at our teacher's meeting. If the editor of the Mail and Breeze will publish it I feel

confident Mr. Lickteig, as well as many other farmers will be glad to make the township the unit for the schools and that ere many days too.

St. Francis, Kan. John Meyers [If Mr. Meyers will give us a statement of the discussion as briefly as possible, it will be published.—Ed.]

Road Enthusiasts Know Too Little.

Mr. Editor—A good deal said about good roads makes me hot. The average good roads enthusiast don't know anything about road making or upkeep. Different soils need different treatment. Here in Western Kansas we are likely to go six months or more at a time without rain. To work the roads would simply be loosening the dirt so it can blow away. A law prohibiting narrow tires would help our roads more than any other one thing. Another thing, if we build good roads are they to be for the benefit of us who are hauling heavy loads over poor roads or the rich pleasure seeker who wants good roads where it suits his pleasure? Railroads connect our towns and carry our products to market. We only need good roads to connect the country with the town. Those who need good roads most say and do the least, feeling already the burden of taxation. G. W. Wright. Haviland, Kan.

A Good Roads Plan For Kansas.

Mr. Editor—I have a plan for good roads in Kansas. I would establish a uniform width, say 40 feet for all the roads. With the present width as wide as 60 feet, these roads are too expensive to grade and ditch and keep in repair, and the roadside grows up in weeds as high as the fence, seeding the adjoining fields. Condemn all the road over 40 feet wide and sell the surplus land to the highest bidder. Each farmer would buy the land adjoining his farm and should be allowed to pay for it in cash or work, the cash or labor to be applied to the road adjoining the farm. The revenue should be collected under supervision of township board or road overseer. In all cases where 60 feet was

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 Jetmore, Kan. C. E. Roughton.

For Privileges to No One.

Mr. Editor—It has been proposed to remove the tax on farm machinery. If a special privilege like that were granted to us farmers then railroad companies, millers, printers, motor garages and all others that use machinery would demand the same rights. It would benefit "wheat kings" but what would the renters and small farmers that have to borrow or hire a part of the necessary tools think of such a law? Let us, farmers and all, pay our taxes willingly for the upbuilding and maintenance of our government and not be selfish about it. There should be no rebate in taxes to encourage the building of ponds. A pond is an improvement the same as an orchard, hog pen or alfalfa field and pays its builder so well without aid from the state that it should not be considered an object of charity.
 Cedar, Kan. Edward Lind.

A Free Country But Let's be Fair.

Mr. Editor—I come knocking the knackers who seem to be trying to take over all the space the Mail and Breeze so generously sets aside each week where we may air our views as man to man. Why not make it count to some real arguments; and above all, stick to facts? For instance, one "S. M. J., of Sedgwick, Kan., relieves himself by saying, "In 9 cases out of every 10, wherever you find the slack housekeeper on the farm she is some city girl who has married some good looking farmer."

That one statement is a plenty to knock out all the effect the letter would otherwise have had, simply because it is merely wild guesswork. Our young farmers in this county are too shrewd to be taken in after the manner of the Sedgwick county youths, evidently.

And what is S. M. J. driving at anyway? Some weeks ago the Mail and Breeze mentioned an address made by Mrs. Cora Bullard, a farmer's daughter, who has lived on the farm most of her life. Naturally she made a plea for the farmer's wife—for lighter burdens, more recreation, more conveniences, an interchange of opinions on this subject, and S. M. J. seeming to believe the average farmer's wife has been accused of being a slack housekeeper, he feels called upon to make excuses for her. If anyone has thus accused her, Mr. Hartman and S. M. J. have done it by intimation. This is a free country but let's be fair.
 Oakland, Kan. J. Collyer.

Waste That Amounts to Crime.

Mr. Editor—Anent your article in Passing Comment on "The Waste of the World" did it ever occur to you that the present industrial system contemplates waste as one of the sure and unflinching sources of profit? But aside from this fact, which I do not propose to elucidate, there seems to me to be some utterly useless and senseless waste that amounts almost to a crime and is entirely and immediately avoidable. At Albuquerque, N. M., is a large saw mill owned and operated by an eastern corporation. At this mill thousands of pine logs are turned into lumber. From the exceedingly inferior quality of those logs a large proportion goes into slabs and waste. After firing the furnaces to furnish power for the plant there is still such an immense amount of slabs, bark and sawdust left, that the company has gone to expense to construct a great furnace, towering above the surrounding buildings, to which several chain carriers conduct this material which is burned up. The poor people who live around the plant must haul dead wood from the mountains 15 miles away where the quality of wood they are able to get is very poor and the supply uncertain, because if the mill's waste fuel were given away it might interfere with the business of one or two dealers.

Another instance is that of the various railroads. In the natural course of time they must replace thousands of cross-ties with new ones. The discarded ties

make excellent fuel, requiring only the labor of sawing them into stove wood. Farmers all over the West and the people of the smaller towns would be glad even to buy this wood. Is it permitted them? Nay. The corporation instructs its section foreman to pile up all such displaced ties and burn them. Last winter a farmer near here was threatened with prosecution for taking a few ties off a pile the section men had prepared for burning and using them for fuel during an extreme cold snap when he happened to be short of fuel.

These are the things that make the average man think an economic system that looked more to securing the means of living to all the people of a country instead of making profits for a few, would be an improvement on the present way of doing things.
 Glencoe, Okla. W. Scott Samuel.

Profits the Miller Gets For Flour.

Mr. Editor—A word on what has been said about the price of wheat, flour and feed in the Mail and Breeze. I owned half of a 75-barrel mill for 11 years. I never could make a barrel of flour out of 4 1/2 bushels of wheat as it came from the farmer, it took 5, besides the low grade flour I drew from it. My last milling was in a 350-barrel mill when our average was from 4 bushels and 40 pounds to 4 bushels and 45 pounds of wheat for a barrel of flour.

Now your friend's figures: 4 sacks flour \$4; 70 pounds feed 65 cents; total \$4.65.

Let's see what the miller gets: 4 1/2 bushels wheat (at 75c) \$3.38; cost of manufacture 37cents; total \$3.75; miller's profit 90 cents.

Figuring it from the viewpoint of the 350-barrel mill, we get this result:

152 pounds Patent flour at \$1 per sack \$3.08
 6 pounds low grade flour \$1.25 per cwt. .08
 32 pounds clear flour \$1.50 per cwt. .48
 83 pounds feed 95 cents per cwt. .79

Total\$4.43
 Cost 4 bushels 45 lbs. wheat at 75c. \$3.56
 Cost 4 cotton bags18
 Cost groceryman's 10 cts. per sack .40
 Cost of manufacture37

Total cost\$4.51
 Less amount received 4.43
 Loss08

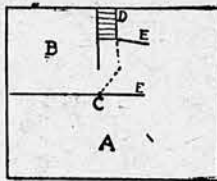
This is the way it figured out too often with me so I am trying to farm and I have better health, a better time and no more to worry about.

Our wives demand the patent or white flour which is about 80 per cent of the output of most mills today. Low grade flour is dumped on the market and what they do with it or who uses it I do not know. My experience is there is a loss of from 2 to 5 pounds to the bushel in cleaning wheat and the evaporation and dusting out in milling. However, I am not anxious to defend the big mills that drove us little fellows out of business.
 Pleasanton, Kan. S. Crawford.

Hog Loading Made Easy.

[Prize Suggestion.]

Mr. Editor—Here is a diagram of my hog pen, with feed pen and chute which I find especially handy for loading hogs.



A is the main pen, B a cement feed platform, C the gate leading into the feed pen, D the chute, and EE are panels which help in loading by means of the chute.

After the hogs are in the feed pen the panels are closed as shown by the dotted lines and then you are ready to load. I can load hogs this way as fast as I can unload them.
 Pawnee, Okla. J. A. McPherson.



We will double the profits of your dairy and feeding-pens

During the past ten years we have showed 25,000 farmers how to make big money out of their milk cows and how to double their profits by proper feeding of cattle for the butcher's block. We have increased their net earnings, cut down the cost of feeding and made their farms as profitable in winter as in summer. The

INDIANA SILO

holds the record for fattening prize winning cattle and developing top-notch milkers. Look into the histories of the cows and steers that have walked off with the prizes at the Dairy and Live Stock Shows for several years back;—you will find that most of them were fed from Indiana Silos.

Not long ago a Western Rancher wired our Kansas City Branch for twenty Indiana Silos. There was no competition for that order because the purchaser knew the Indiana Silo materials and construction. He had seen Indiana Silos before they were erected and had studied the scientific method by which all two-piece staves are united by air-tight, all-wood, self-draining mortised joints. He had noted the perfect milling of tongues and grooves. He had been present at the erection of Indiana Silos and had learned first hand how easily they go up. And he had seen Indiana Silos in use and had observed the wonderful results they invariably produced. Not a point had escaped his western eagle eye. He knew. Hence his order.

Investigate thoroughly, as this Westerner did, and your order will come to us, too. Will ship it when you want it.

THE INDIANA SILO COMPANY

Factories: Anderson, Ind. Des Moines, Ia. Kansas City, Mo. 379 Union Bldg. 379 Indiana Bldg. 379 Silo Bldg.

WRITE today for our catalogue and a free copy of the book "Silo Profits", which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. And ask us for the name of our representative in your locality.
 "You buy an Indiana Silo—but it pays for itself."

FREE WATCH, RING AND CHAIN
 Our fully guaranteed, stem wind and set, richly engraved watch, proper size; and brilliant 3-stone ring, are given FREE to anyone for selling 20 jewelry articles at 10c each. Order jewelry now! when sold send \$2.00 and we will send you watch, ring and handsome chain FREE.
 HOMER WATCH CO., Dept. 21, CHICAGO

FIRE FROST HOW TO BUILD IN CEMENT ON FARM, WITH UNSKILLED LABOR, WHEN OUTDOOR WORK CANNOT BE DONE IN TILE BLOCKS SHIPPED DIRECT FROM ALLEN. WRITE FOR BROCHURE AND SPECIAL OFFER NO. 31. CEMENT & TILE SILO CO. KALAMAZOO, MICH.

16 Beautiful Pictures FREE

I want to make you a present of this beautiful set of 16 four-colored, gold bordered pictures. Each of these beautiful pictures is a masterpiece, and their tender sentiments will touch a responsive chord in every heart. Each picture is different. Many religious pictures, such as "Rock of Ages," "The Lord's Supper," "An Illustrated Prayer," and other equally as beautiful subjects. Also pictures of fruits, animals and farm scenes, all in many colors. The views are wonderfully true to life. In addition to the 16 pictures I have a great big surprise gift offer that I want to send you. These pictures are very beautiful. I cannot give you an adequate conception of them without you seeing the pictures yourself. That is why I want to send you a set almost free. All I ask is you show the pictures to a few of your friends, and send me five cents in stamps to help cover postage, packing and handling charges. Sign coupon below if you want the 16 pictures and surprise gift offer.

Garrett Wall, 716 Lucas Ave., St. Louis, Mo.: Please send me at once, absolutely free the 16 pictures, also your wonderful surprise offer. I enclose five cents in stamps to help pay postage and mailing charges on the pictures.

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—on the Plows, Harrows, Discs and Drills that thousands of farmers swear by. I sell the famous high quality Monmouth line and I save you big money on the machine you want. I sell direct from factory. You keep the middlemen's profits in your own pocket.

Try Any Monmouth for 30 Days—FREE

at my risk—and I'll even pay the freight. If it is not perfectly satisfactory to you, and the biggest value for your money—send it back at my expense and the trial won't cost you a dollar. Read some of the letters in this book from my customers. And be sure to read how Monmouth implements are made. Whether you want a Plow, Cultivator, Disc, Spike Tooth, Harrow, Drill, Gate, Farm Wagon, Gasoline Engine, Mower or Rake, I'll sell it. Direct from factory, Freight Pre-paid, so you know exactly what the cost is. Mail coupon or postal note.

I've been making and selling Monmouth farm tools for years. You ought to know up. I want to know you. Write me today.

The Plow Man
 Monmouth Plow Factory
 321 So. Main Street
 Monmouth, Ill.

Mail me FREE Book on and low, freight prepaid, factory prices and Free Trial offer.

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 Town..... State.....



GALLOWAY'S

Own True Story

Special To the Readers of This Paper

BY WILLIAM GALLOWAY
President WM. GALLOWAY CO.

EVERYBODY likes a good story. If it is a true story, so much the better, for it is said that "truth is stranger than fiction". The Romance of American Business is filled with many interesting chapters—but none more fascinating than the wonderful results achieved by the Farmers of this country in transforming a cornfield on the edge of Waterloo, Iowa, into a vast, modern hive of industry giving employment to hundreds of skilled workmen and turning out tens of thousands of Engines, Cream Separators and Manure Spreaders in a constantly increasing stream.

The story of the rapid rise of William Galloway from a Farmer's Boy to the World's Greatest Manufacturer of Farm Implements selling direct from factory to farm is one of those thrilling fact-stories that grip the interest and tingle the nerves of every red-blooded American. To achieve what he has done in a few short years would have been impossible without the active co-operation of his Farmer Friends. In his own true story, told below, William Galloway frankly admits that all he has today he owes to his Fellow Farmers. Every Farmer in the land—and every Farmer's Boy—should read the remarkable true story told below by America's Famous Farmer-Manufacturer—whose career has proved another demonstration of the fact that

"Truth Is Stranger Than Fiction"

I am going to tell the true story of how I happened to start this business.

As a rule, the beginning of all big things is small. And the growth of this great industry at Waterloo, with over 125,000 customers buying \$3,000,000 a year from us, is no exception to the rule.

Sixteen years ago I was a farmer's boy on my father's farm (where I was born) near Berlin, Iowa. My parents still live on the old home place. There were four boys and four girls in the family.

My first job on the farm was to help milk the cows and teach the calves to drink skim-milk out of a pail. I was taught to do this job, and do it right—as my father was very strict with us boys. It was work! work! work!—early and late.

My early training on the farm then seemed very rigorous, and sometimes a real hardship—but I can look back to it now and realize the great blessings of health, practical knowledge of farm conditions and self-development in character it brought me.

Now I operate two big farms—nearly 2,000 acres in Canada and an up-to-date business dairy farm just on the edge of Waterloo. The experience I gained as a boy helps me to this day.

My First Start in Business

One day I picked up a farm journal (it was The Iowa Homestead) and saw an advertisement asking for agents to sell windmill springs. I answered the ad.

This was the starting point of my business career. It was really the first step. I made a deal with this concern and went out and sold hundreds of windmill springs, traveling from house to house with a horse that I traded for and an old buggy that cost me \$12.50.

I found out in this experience that 99 farmers out of every 100 are square and honest, and I have to thank many of them for their friendly treatment in those early days when they gave me the "glad hand", a good meal and place to sleep.

It was this feeling of gratitude to my farmer friends that prompted me last year to build the splendid \$60,000 Agricultural Club at Waterloo and dedicate it to the farmers of America, their wives and families.

Getting the Inside Facts

One day I met an implement dealer who wanted me to work for him by the month, which position I accepted; the first thing he did was to call me into the private office and in the strictest of confidence tell me the cost or wholesale prices of the goods, also the selling prices.

This firm which I represented soon branched out into the wholesale business, selling wagons, buggies and other implements in Eastern Iowa. I was again confidentially advised of the cost prices, only this time it was a few notches lower, as this firm was now a jobber. I was then sent out as traveling salesman, going from town to town selling implements to dealers, only this time at wholesale prices.

\$25,000 GUARANTY BOND

Every product of the Wm. Galloway Co. is built on honor and sold direct from Factory to Farm. We guarantee every article in our Catalogs to be exactly as represented or we will return your purchase money and pay freight both ways. As a protection to those who may desire to purchase from us, we have given the Blackhawk National Bank of Waterloo, a legally executed bond in the sum of \$25,000, solely for the protection of our customers and to give them every assurance in our power that we will give them a square deal. We invite every reader of this paper to send for a free copy of this \$25,000 Guaranty Bond. Send for it today—NOW!

My Eyes Are Opened

Now right here was where I really awoke to the true situation of the farmer compelled to pay exorbitant prices on account of the middlemen between him and the factory which actually produced the goods.

It set me thinking—hard! I said to myself, "Wouldn't it be a grand thing for the farmer if he could only buy engines, manure spreaders, cream separators, harrow carts, etc., at wholesale prices or even less?"

That bee stung me good and hard. The idea wouldn't down, but kept buzzing in my head. And I made up my mind that sooner or later I would find a way to become a Farmer's Manufacturer, selling direct from factory-to-farm at one small profit.

In the course of two years I went into partnership with the firm I traveled for, and then after a year and a half I purchased the interest of my partner and took the management of the business myself. This was the third step. I then commenced to manufacture harrow carts. I had made one of my own on the farm and believed they would sell.

I used to sell this harrow cart to dealers for \$8.00—not as good as the one I sell to farmers today for \$5.05.

I Begin to Sell Direct

Well, it wasn't long before I made up my mind to sell direct and in spite of much opposition and prediction of failure I took the vital step that has meant so much to the farmers of this country.

While at first my progress seemed slow, yet from that day to this it has been sure and steadily upward. I added other articles—Engines, Cream Separators, Manure Spreaders, etc.—all made in my factory and sold on the same direct-to-farm plan.

The business grew, for the farmers were with me. Orders rolled in with a sweep from thousands of farms.

Today, in a little over seven years' direct selling, the Galloway Chain of Factories covers acres of ground, employing hundreds of men, turning out thousands of machines and implements and selling better goods direct to the farmers than I used to sell to dealers in carload lots for spot cash.

A Vast \$3,000,000 Business

Over 125,000 satisfied customers last year bought \$3,000,000 worth of goods from this company. And the business is growing by leaps and bounds.

Today farmers not only buy machines and implements from us, but come to us for their general merchandise as well—we save them money on furniture, incubators, roofing, clothing, sewing machines and practically everything for home, farm and personal use.

Our slogan, "The Only Way Is the Galloway—from Factory to Farm"—is endorsed by the great body of farmers everywhere, who know that the only safe, right and truly economical way is direct dealing with the concern that backs its goods with a \$25,000 Cash Bond that is a legal guarantee of absolute satisfaction.

\$5,000 CHALLENGE OFFER

I, William Galloway, as President of the Wm. Galloway Co., will pay \$5,000 in gold to anyone who will disprove any of the following claims:
(1) The Wm. Galloway Co. is not owned, controlled or in any way dictated to by any Catalog House or Trust.
(2) The crank shafts of all Galloway Engines are made from finest steel—never from cast iron.
(3) All Galloway Engines, Manure Spreaders, and Cream Separators are made in my own factories from highest grade materials by best skilled workmen and improved machinery.
(4) The illustration below is a true picture of the Galloway factories, offices, Agricultural Club, etc.
(5) The Wm. Galloway Co. carries out in good faith every offer made regarding Free Trial Tests, Refund of Money and Guaranty of Quality.



Galloway Rocker Bargain
\$3.50 This splendid big hard wood rocker is a specimen of Galloway furniture values. Golden gloss finish. Full spring seat—a rocker every home needs. Sold under money-back guarantee.

60-Egg Incubator
Think of it! Only \$4.75 for an incubator like this. Double Wall, Copper Tank. Guaranteed to hatch every fertile egg when handled right. Best in the world for beginners. Simple, easy to operate. Write for full description in free 144-page book.

Galloway Hand and Power Washer
\$15 Sold by Galloway on 30 days' Free Trial. Guaranteed unequalled for any kind of work. Either hand or power machines. Light running, strong, durable—a wonderful bargain at only \$15. Write today.

Galloway Grand Sewing Machine
\$21.25 Completely equipped, extremely handsome machine. Easy, quiet runners makes perfect stitch. Worth double my price.

Galloway Roofing Guaranteed 15 Years
Absolutely best roofing possible to make. Spark, cinders, sun, water, frost and acid-proof; nails and cement free. We sell roofing, backed by Galloway Guarantee, as low as 95c per square of 108 feet.

Galloway Supreme Kitchen Cabinet
\$7.98 This is a real beauty! A useful and handsome addition to any home. Saves time, work and worry. Would cost you at least \$12 at your dealer's—our bargain price is only \$7.98. Get full description.

Now Read Every Word on the Page Opposite



THE ONLY WAY IS THE GALLOWAY

SELLING DIRECT FROM FACTORY TO FARM

I WANT 1,000,000 FARMERS TO WRITE ME

Is Your Name On Galloway's List?

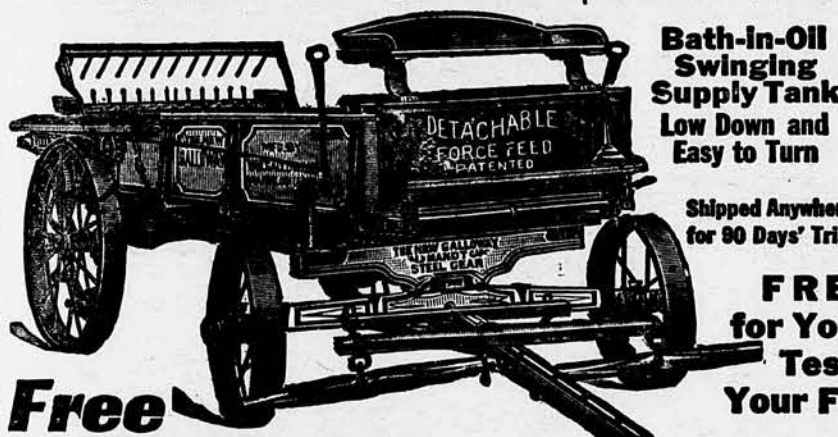
Have you ever written Bill Galloway? Do you know what it means to do business on my plan? If not, I want to know you as I know over 500,000 farmers who have either written or visited me here at Waterloo. This big, double page announcement is meant for you farmers who are holding back from Galloway—you who for any reason have never yet come up to the point of writing me. I ask you to do it now—a personal favor to me, if you want to put it that way. Is it asking too much? Will you oblige me?

In view of what I have tried to do for American farmers—the money, time and trouble I have actually saved them on my Direct-from-Factory-to-Farm-Plan—I ask you, as man to man, am I unreasonable in saying, "Write to me, or at least send me your name, so that I can write to you?"

You must have seen my announcements in the Farm Papers for many years past. Yet, no matter how much you have read about the Galloway Business, you will never really realize the truth about its wonderful benefits until you get the whole story—all the facts, figures, evidence and proof from customers, etc., that I will gladly send you—FREE—the very moment you say: "Galloway, do it."

No matter how you feel about me—no matter what your present needs may be—just let me send you my Special 1913 Offers, anyway. Look them over. Compare them with all others. Get posted. Be ready to save money when the time comes. Get my valuable free books—my Engine, Spreader and Separator Catalogs—the famous "Streak of Gold" book that has created the big sensation—"Evidence"—"Proof of the Pudding"—my new, fascinating "Cow Book"—any or all of the books shown below are yours—FREE—for the asking. Just check off the books you want and mail the FREE coupon NOW—at once.

Save \$25.00 to \$50.00 | Save \$21.25 to \$45.00 | Save \$50 to \$300.00



Bath-in-Oil Swinging Supply Tank
Low Down and Easy to Turn

Shipped Anywhere for 90 Days' Trial

FREE for You to Test on Your Farm



Equal to Any Separator At Double the Price
Good for 15 Years of Steady Hard Service

The Galloway Bath-in-Oil Cream Separator Sets the Pace

I defy the world to match my Bath-in-Oil Separator for cleanliness, close skimming and easy running qualities. Here is the machine that has stood years of difficult tests—the separator that has been subjected to more severe and exacting tests than were ever asked of any other at any price. I tell you it's a sure winner—the best ever produced by human ingenuity. The more you learn about others, the more you will want the Galloway Bath-in-Oil.

Money Can't Buy Better

Pay twice my price if you will—you can't get more real, genuine separator value than this wonderful Galloway Bath-in-Oil gives you. Endless tests failed to detect enough butter-fat left in the "skim" to be put into figures. No machine at double the price will outlast the Galloway Bath-in-Oil. I know just how good it is, and I prove my faith in it by

My 90-Day Free Trial Offer

I will let the Galloway Bath-in-Oil speak for itself. For 90 days I will let one run on your place under the severest practical tests in competition with all others. This test is free—it will not cost you a penny—Galloway takes all possible risk. If you are not positively convinced that my machine sweeps away all competition on every point, return it to me and I will pay freight both ways. If you are enthusiastic in its praises—after 90 days' real test—say so and I will name you a price and liberal terms that will surprise and delight you. Don't fail to write me now for Catalog and Special Proposition. Do it today—NOW!



1 1/2 to 15 H. P.

Use My New Engine for 90 Days—FREE

I not only make the best engine, but I also make the best engine offer for 1913. You can have your pick out of my big Engine Catalog—any size from 1 1/2 to 15 H. P.—shipped right out to you—ready to work; just set her up, turn on the gasoline and on, on, on, on the switch, give the flywheel a turn and the "Galloway" is ready and eager to "show you" against any engine—at any price—on earth.

It Must Sell Itself

Galloway has only one Engine Salesman—the Engine itself. What it does for you on your farm is my only argument. Talk is cheap—big claims are easy—results alone count! Test the "Galloway". Keep it working every day! Watch it carefully. Compare its power—reliability—simplicity—ease of operation—economy—with any other, and let the test be the proof. Try the Galloway Engine at my risk, 90 to 60 days, if necessary, to prove, then, if satisfied, keep it and I'll make you a special, low 1913 Factory-to-Farm price that will save you \$50 to \$300 real money. If my engine doesn't sell itself on this plan, just tell me, and I will take it back without a quibble or cross word, pay freight both ways—you'll not be out a penny, and you will actually have one, two or three months' power FREE—as a present from Galloway.

Make the Other Fellow Meet Me

Use your own common sense. Figure for your own pocket-book. If anybody offers to sell you an engine, ask him if he will meet Galloway's actual farm test. Make him say that he will run his engine against mine and let the best one win. If he won't do it, if he balks and wants to talk "hot air" instead of "cold facts," he's not the man to deal with, and you know it!

Free Special Service Bureau

Here's a big Galloway idea—something you need—something practical and valuable—and your's welcome to it, FREE. My force of high salaried Engine Experts are at your command absolutely without charge. They will tell you how to select exactly the engine which is best suited for your particular purposes; how to test and judge an engine; how to use one to best advantage; how to fit up a power house—besides answering fully and completely any question about the care and operation of an engine. This is absolutely free to you whether you buy a Galloway or not.

Get My 1913 Proposition

Send for my New Engine Book, Free Power Trial Test Offer and my new and original plan by which you can get your Galloway Engine either wholly or partly FREE. I'll explain this plan fully when you write me or mail FREE coupon below. Send it in today.

Let Me Ship You This Spreader Absolutely FREE—No Money Down—No, Not One Cent!

When I say "FREE" I mean it! This 1913 Galloway Spreader is so nearly 100% perfect that I am going to ship it right out without any strings to my offer. No money down—no bank deposit—no mortgage, lease, note or even a promise to buy it. Believe me, this is absolutely the limit—the lid's off—I challenge anyone to match this record-smashing spreader offer.

Test It FREE—at My Risk

I'll ship you the spreader absolutely free. Then you do this—with your money in your own pocket:

Test it out as you wouldn't think of testing any other spreader in the world. Fill on the manure a foot and a half above the box. Put on all she'll hold. Take the fine, powdered stuff or the toughest, heaviest, tramped-down, rough-hay kind from the calf yard. If it's frozen, so much the better. Take it into your field, whip your team to a gallop and slam it in gear. A test no other manufacturer dares even suggest to you. But do you think for a minute I'd ship you a spreader and let you abuse it that way if I didn't know it would make good?

11 Special Patented Features

40,000 farmers have proved the Galloway Spreader. They know that the 11 exclusive patented improvements make it the world's best; double drive chains furnishing power from both wheels alike direct to the beater and moving the load. The only endless apron force feed, roller bearing feed spreader built. Makes the Galloway worth \$25.00 more than any other spreader sold today. Low down—easy to load—light draft—two horses will handle it easily. Pull between wheels entirely on the reach—and many other special features. I can't tell them all—get my catalog before you buy any other make or style of spreader.

"Streak of Gold"—FREE

The only book of its kind—chock-full from cover to cover with facts, figures, experience and valuable suggestions about fertilizing the soil, that every farmer should know. A book easily worth \$100.00 to any business farmer. Tells how to handle manure, how to treat it, keep it and use it in a way to cash in fully on its wonderful value. Regular price of "A Streak of Gold" is \$1.00. Free to you when you write for my Special 1913 Free Spreader Offer and Big Free Spreader Catalog. Write today!

Galloway Says—Help Yourself—FREE!

I am here, ready—eager—to serve you. Why hesitate a moment to let me help you help yourself? Remember, you risk nothing—no obligation at all—in finding out just what your slice of the Galloway Melon will be for 1913. Send no money—just your name and address on free coupon. Just put a cross mark in the square [] opposite any one or more of the Books and Offers you want. Anything worth doing is worth doing promptly. You're bound to write Galloway sooner or later—why not now? Do it! Mail the Free Coupon at once, and see what you get—FREE—by first mail.

Wm. Galloway, Pres. WM. GALLOWAY CO., 207 Galloway Sta., Waterloo, Iowa

Remember, we carry stocks at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg

Mail This FREE Coupon NOW!

William Galloway, Pres., WILLIAM GALLOWAY CO., 207 Galloway Station, Waterloo, Iowa

Please send me—FREE—your latest 1913 price-smashing offers; also following free books which I have checked:

- Galloway's Latest Manure Spreader Catalog, "Evidence" and Wonderful "Streak of Gold" Book.
 - Galloway's Bath-in-Oil Separator Catalog and Fascinating New "Cow Book."
 - Galloway's World Beater 64-page Engine Catalog in four colors and "Proof of the Pudding."
 - 144-page General Merchandise Catalog.
- (Put an X in any or all of above squares.)

Name.....

Town..... R.F.D.....

County..... State.....



Successful In Any Climate— The X-Ray Incubator

Shipped direct to you from factory. No agents. No dealers. Guaranteed to please you. Freight prepaid anywhere! Only incubator made on right principle. Lamp is placed underneath—square in the center—and not on the side. Thus the X-Ray has perfect distribution of heat all throughout egg-chamber. There's no cold side. Big lamp holds four to eight quarts of oil—fill it once for a hatch.

X-RAY INCUBATOR

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Lamp Only Has to be Filled Once!

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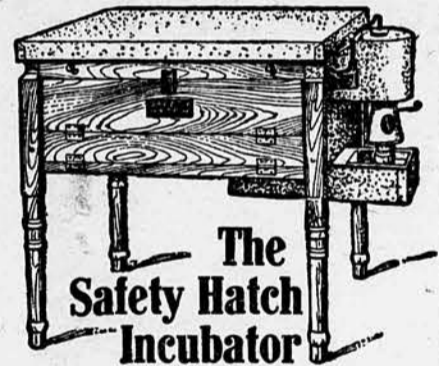


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Eggs every morning, and healthy, fertile eggs, too, for hatching. When you use Egg-a-Day Tonic your hens are always in perfect condition and lay regularly. Don't let your hens become lazy, but get

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This is the latest improved incubator and by reading our catalog you will discover it has features never before applied to an incubator. It is fireproof, has a sliding lamp that holds oil enough to run ten or twelve days, and it is a perfectly sanitary machine, as the top raises and all of the inside can be taken out and cleaned. Every piece of lumber in it is kiln dried. If your hardware dealer does not handle The Safety Hatch send his name and get free catalog.

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Reese V. Hicks, has written an intensely interesting and practical book that should be in the hands of everyone interested in raising poultry. This book, "Tricks of the Poultry Trade," tells three methods of selecting the laying hen; a sure and certain method of selecting eggs for hatching; how to raise 500 chickens on a lot 30 by 40 feet; how to build a natural hen incubator; how to build and hoppers and fireless brooders; how to make feed at 10 cents a bushel; how to make winter egg ration, poultry feeds and tonics, egg preserver, house killers, etc. All these and many more subjects are fully covered in this great book which we're giving away FREE on this plan: OUR OFFER: We will give you one year's subscription to our big weekly farm Magazine, Farmers Mail and Breeze, one year's subscription to Poultry Culture, the best Poultry Journal in the West, and one copy of this great book of poultry secrets—all for only \$1.25. State whether you are an old or new subscriber. Address at once, Mail and Breeze, Dept. PC-10, Topeka, Kansas

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.

Get an incubator and let the hens keep on laying.

The modern poultry house has everything inside it easily movable.

Scrub hens kept by scrub poultrymen make a bad combination.

Turkey hens are considered profitable until 5 years old, but toms ought to be changed every year.

Cresol compound stirred up in water makes a good disinfectant for houses and coops.

Running the incubator two or three days before putting in the eggs gives the machine time to steady down.

Leghorns make poor sitters. Better not trust the eggs to them. They are better layers and foragers than sitters.

Eggs left in the nest over night at this season are very apt to have the germ killed by chilling. It is best not to use them for hatching.

Where green cut bone is fed, about 4 ounces a week fed in small quantities at a time is a good average allowance per hen. It need not be fed every day.

It is best to select eggs for hatching from the older hens, wherever possible. They seem to bring stronger chicks, as a rule, and a larger per cent of the eggs are fertile.

After a few failures I have quit trying to raise chicks without hens. Each time I set my incubator I also set some hens and divide the chicks among them—M. M., Cassoday, Kan.

For Scaly Leg Try Coal Oil.

Mr. Editor—This is the time of year that birds are troubled with scaly legs. I have a very simple remedy for it. Kerosene applied to roosts, nest boxes, etc., is a preventive. If the flock should become affected, apply kerosene directly to the birds' legs and a few treatments will get rid of the trouble. I have tried this and know it to be O. K. Fort Scott, Kan., James A. Davis.

To Keep Eggs Right Side Up.

Mr. Editor—We use a simple device to keep the pipped eggs from rolling over with pipped side down, after the first chicks have been taken from the incubator tray. A 1/2-inch piece of board about 2 inches wide and cut to fit the inside of tray, is laid in the tray just as soon as enough eggs have hatched to make room for it. Then as other eggs hatch and the chicks are removed, the board is moved along, thus keeping all the eggs together. Aaron Anderson, Tampa, Kan.

To Get Eggs in February.

Mr. Editor—I think a warm mash for the morning meal is best. Mix as follows: Two parts bran, 1 part corn meal, 1 part alfalfa meal and to each gallon of this mash add 1 teaspoonful blood meal, bone meal, or cottonseed meal, 1 teaspoonful of cayenne pepper and 1 teaspoonful salt. For dinner and supper I give corn, wheat and oats in deep litter. Make them scratch for it in litter 6 or 8 inches deep.

Keep grit and charcoal before them all the time. Put your ashes in their yard to pick at and dust in. If oats and alfalfa are cheap in your locality, I would keep it before the birds all the time, as they are the best frame builders and egg producers we have in vegetation. Green cut bone is the best in the other feeds. You can feed the oats in hoppers

and the alfalfa in mangers, made of poultry wire.

A good warm house is very necessary. A chicken can keep warm in the daytime, but is at the mercy of the weather at night and it takes lots of feed to keep one warm. Feed will go to maintain this warmth instead of making eggs, if you do not feed enough.

Charles J. Hüneke. Colorado Springs, Colo.

Doing Well With Reds and Turkeys.

Mr. Editor—When I started to raise poultry I had a few mongrels. I began to improve my flock by buying purebred males and a few eggs. In another year I will have a pure flock of R. I. Reds. Last year I raised 300 Red chickens and 75 Bronze turkeys. At Christmas I sold poultry to the amount of \$100 and sent four dressed turkeys to relatives in the city. I still have 14 turkeys and 125 chickens left and am very proud of them. How is this for a woman raised in town, coming to the farm only two years ago last August? I like poultry raising and farm life. Mrs. George Bright. Offerle, Kan.

Alfalfa Meal for Green Feed.

[Prize Letter.]

Mr. Editor—Two years ago I owned a flock of 310 Brown Leghorn hens in town and it was a problem to furnish them with green feed. I had been feeding sprouted oats and the results were fine, for I was getting a lot of eggs, while neighbors' flocks laid few. I had seven boxes labeled, one for each day, in which I sprouted the oats, but it was heavy work for a woman and often the oats would mold and get wormy. So I was forced to find another way of supplying green feed.

Alfalfa meal finally solved the problem and I have found it the most inexpensive and successful green feed I ever tried. One sack of it almost lasted the flock through the first winter, which was a cold one. It costs \$1.25 per 100 pounds and I am very particular to get the genuine alfalfa. I always have it fresh for them and when any is left over I put it in the slop barrel so as not to be tempted to neglect, giving them a new supply each day.

I scald the meal with hot but not boiling water. When water is too hot the alfalfa loses that green color and the hens will not eat it so well. The hens must be taught to like it. I always put a handful of Kafir or wheat in each panful of the meal and in picking at the grain they get the meal. There are some hens at the pan off and on nearly all through the day.

Mrs. Inez D. Long. Avery, Okla.

A Well Planned Brooder House.

[Prize Letter.]

Mr. Editor—We value the Mail and Breeze highly and I always read all the poultry items in each issue. I want to add my mite in making the department more helpful by giving a description of my outdoor brooder house. It has proven a decided success. I hatch the chicks in an "Old Trusty." S. C. Brown Leghorns they are and saucy little brats.

The brooder house is on a southwest slope, and is partly in the ground. It is 12 feet long, 7 feet wide, 3 feet high on the north-side and 5 feet on the south side. The house is built of cement and box boards, with a box board floor. The walls are papered with newspapers. An old strip of carpet covers part of the floor. The rest of the floor is used for feeding and watering. In one corner I keep a box of sand for the little fellows to scratch in. On the south side is a door 10 feet wide that may be let down in sunny weather. This opening is covered with poultry netting.

I have a small stove in the house in which I keep a fire on very cold days. In front of the house I have a pen 10 by 12 feet enclosed with 6-foot wire netting. Last year I had 220 chicks in the house in March, when the big snow nearly covered the house. My husband had to shovel out a path to the door, but when he got there the chicks were all right and ready for breakfast.

Mrs. J. W. Young. Sun City, Kan.

Jock, when ye hae naething else to do ye may be aye sticking in a tree; it will be growing, Jock, when ye're sleeping.—From the "Heart of Midlothian," by Sir Walter Scott.

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Over 400,000 people are making chicken profits with the Old Trusty Incubator. It is so simple, nearly anybody can successfully operate it. Men, women and even boys and girls, in all parts of the country are doing it. Why don't you? Investment is less than \$10 for genuine Old Trusty—freight prepaid east of Rockies and allowed that far if you live beyond.

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We can help you. Send us names and addresses of (10) poultry friends and receive our revised 32 page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes Poultry Profits Possible; gives care and feeding of chicks and Turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE postpaid for the names. Write today. F. K. REMEDY CO., 740 Second St., Arkansas City, Kansas.

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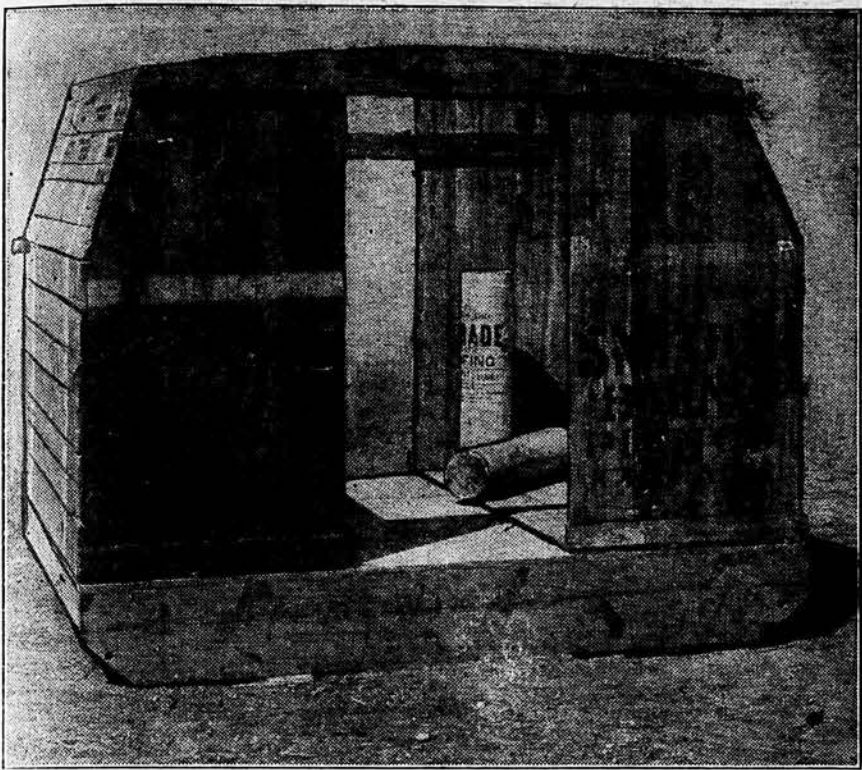
Piano Box Poultry Houses

ARE BUILT FOR \$5.

Poultry raising appeals to many persons because the capital required is within reach, and small capital means little risk. A few square yards of space and some form of shelter is all the

ing chicks. I have never made any phenomenal records, but on the average have raised 50 chicks from every 100 eggs set. In a number of instances I have raised every chick hatched, but I have also suffered losses of as high as 50 per cent.

By experience I have found that



The piano box colony house, showing first stages of construction.

equipment necessary for a beginning with poultry. Two empty piano boxes bought from a music store at \$1 to \$1.50 each will serve the purpose of a house very well. This house will cost all told about \$5. The illustrations show such a building at Kansas Agricultural college, where it is used as a colony house.

The two backs of the boxes are removed and are used in making the door in front and closing the open spaces at top and back. The boxes are set on

hatching with hens will bring practically the same results, but when one wants to raise a few hundred chicks it involves no end of labor when depending on hens. The machines will greatly reduce the work and anyone who will follow the manufacturer's directions and use a little common sense, can successfully operate them. The incubator may be kept in the house, but unless the temperature of the room is fairly even it will need a lot of watching.



The piano box house complete. It is used as a colony house and moved about in the orchard.

runners about 2½ feet apart. A glass sash on either side of the door furnishes sunlight and a wire covered opening in the door gives ventilation. The windows swing outward and by means of a chute furnish an entrance and exit for the house. Closed at night this will keep out intruders. With the exception of the door the entire house is covered with 2-ply roofing, making it draft and rain-proof. Such a house will contain from 42 to 48 square feet of floor space and is large enough to accommodate 15 to 20 mature birds.

When Machine Hatching Pays.
[Prize Letter.]

Mr. Editor—I have used an incubator and brooder for six years and am pleased to say I have found them equal to the hen in every way, for hatching and rais-

The great advantage in using a machine is that you can hatch chicks as early as you want them and it is the early chick that pays best, whether sold as a fry or kept for a layer. The early hatched pullet will have laid enough eggs in the fall to pay for her raising before the late hatched pullet begins to lay. The early pullet also will attain a larger size and generally lays a larger egg than the late pullet. My opinion is that the man who wants to make the most out of poultry cannot afford to do without the modern incubator and brooder.

Peter Hoffman.
R. 1, Pretty Prairie, Kan.

If interested in peach growing write to department of agriculture, Washington, D. C., for a free copy of "Peach Growing for Market."

Here's the Only Guaranteed Incubator in the World

Investigate it thoroughly before you buy. Compare it with any on the market. Read the stories of success and profits made by Fairfield owners. Try it yourself on my 2-hatch trial proposition and you will be convinced that my Fairfield is in a class by itself, the most perfect incubator made. Perfect in material, construction and perfect in hatching.

These are not claims, they are facts and I back them with my guarantee, the fairest, squarest ever written.

First, I guarantee that the Fairfield is made right, that it works right, particularly, that it will hatch right, which means hatch 90% or better of all fertile, hatchable eggs or you get your money back. Now the question is, do you want a guaranteed Fairfield and some profits, or will you invest your money and experiment with any old kind and waste your time, spoil high-priced eggs and be satisfied with 50 or 60% hatches that you get with ordinary incubators. Think it over. At least investigate.

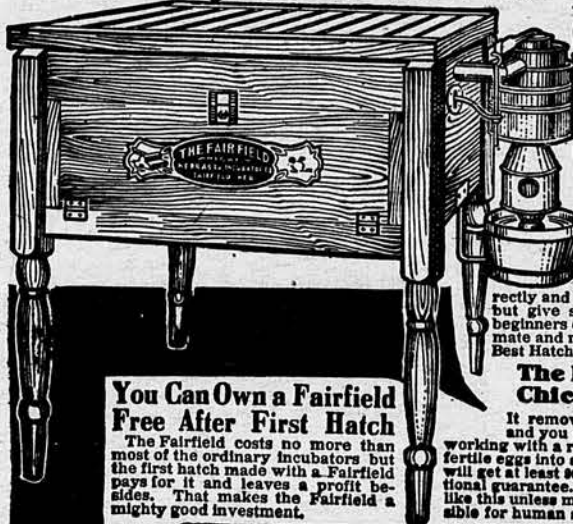


Sam Thompson, President

7 Years' Hatching Record Proves the Fairfield the World's Best Hatcher

Seven years ago the first Fairfields were built. They made good right from the start. They made hatching and poultry raising a certainty instead of guesswork. They established a record for big, continuous hatches that no other incubator has ever been able to touch. That's why the Fairfield today is known and recognized as the World's Best Hatcher. Six years ago a Fairfield was shipped to Mrs. Wm. Evans, at Albion, Neb. During all this time she averaged 9% hatches and had absolutely no expense for repairs except 30 cents for new lamp burner. Coxhill Bros., Dewese, Neb., bought four Fairfields last season and hatched over 2,000 chicks. In their recent letter they report that their old Fairfield bought 5 years ago still runs fine and hatches same as their new ones. Thousands of similar reports are on file. We will send you some from your own community if you still have any doubt about it being the World's Best Hatcher. The quickest and surest way to convince yourself is to get my 2-hatch trial offer and try the Fairfield on my guarantee of your

Money Back If the Fairfield Does Not Hatch



90% or Better

The whole secret of the Fairfield hatching power lies in the construction of the machine. It's made of finest California Redwood with double wooden walls having dead air space between. The lid is made with special insulating material to retain heat. The heating system is of heavy copper throughout and so arranged that every part of egg chamber is of even temperature. In addition it has automatic heat regulator to insure steady, uniform heat, without requiring constant attention from operator. Each detail of Fairfield construction is correctly and honestly worked out. It cannot help but give satisfaction to everyone, either new beginners or expert poultry raisers, in any climate and maintain its reputation as the World's Best Hatcher.

The Fairfield Makes the Chicken Business Pay.

It removes the guesswork and uncertainty and you get reliable results because you are working with a reliable machine. When you put 100 fertile eggs into a Fairfield you absolutely know you will get at least 90 chicks because that is my unconditional guarantee. I couldn't give you a guarantee like this unless my machine was as perfect as it is possible for human skill to make it.

You Can Own a Fairfield Free After First Hatch

The Fairfield costs no more than most of the ordinary incubators but the first hatch made with a Fairfield pays for it and leaves a profit besides. That makes the Fairfield a mighty good investment.

AIRFIELD WINS Incubator

The Great Missouri and Kansas Hatching Contest

The Farmers Mail and Breeze, to show the possibilities in chicken raising for profits, conducted an incubator contest among its readers. 1,500 people from Missouri and Kansas entered. Every known make of incubator was represented and Mrs. R. L. Decker, of Columbus, Mo., won first prize with a Fairfield which made a 99¼ and 100% hatch. That's simply another illustration of the fact that the Fairfield is really and truly the World's Best Hatcher.

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Get the Facts About the Fairfield. I've told my story giving as many facts as the space would permit. Now it's up to you to investigate thoroughly. The quickest way would be for you to write for my free catalog with my special 2-hatch trial offer and full details of my guarantee.

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First Days After Hatching

BY J. P. RUPPENTHAL.

[Written for Farmers Mail and Breeze.]

I use the incubator for hatching, and as soon as the chicks are dry and fluffy, remove them from the egg tray, place them in a basket lined with old woolen cloth, and cover them. I set the basket in a warm place and leave the chicks to themselves. The basket must not be overloaded, as the weaker chicks are easily smothered. Here they may be left for 24 to 36 hours without food or water. Then remove the chicks from the basket and place them in a box about 12 inches deep, 20 inches wide and 30 or more inches long. Cover the box floor with paper and change it often.

In one end of the box I put a ceiling about 4 inches from the floor, having it lined with downy cloth. Across the front of the ceiling board hangs a curtain that falls almost to the floor. The curtain is cut into strips about 1/2-inch wide. Cover the floor of the sleeping room with chaff or fine shavings. In the other end of the box put a water can filled with pure, fresh water from which the chicks can drink but not get into with their feet. Sprinkle sand and rolled oats before them. Never feed more than they will clean up in a few minutes. When the chicks grow restless put them into the sleeping room and in a few days they will put themselves to bed.

When the chicks are 4 or 5 days old remove the end of the box from their feeding quarters and give them more room to run about, but do not give them access to the yard. At the end of a week or 10 days 35 or 40 chicks should have about 50 square feet of range. Move the pen every day and replace all papers and chaff with a clean supply. For a few hours in the warmest part of the day their sleeping room ceiling should be removed. Keep sand before them all the time. Rolled oats will be the only food required till they are 2 weeks old. Then add corn chop, cracked kafir, commercial chick food and meat scraps. Always keep fresh water before them. A part of the ration should be rolled oats until the chicks are 30 days old.

As the chicks grow enlarge the sleeping room. Keep papers on the floors and chaff or other litter on the papers and do not fail to change them often. When the chicks are 6 weeks old they may be removed to larger quarters. Make this coop so that the roof can be easily removed. Cover the floor with papers and put straw or fine hay on papers as before. On sunny days remove the roof and give the sun free access to sleeping quarters. Change paper and litter every few days and look out for mites. Perches may now be placed in the coop for the chicks.

In this way I raised 100 Buff Wyandottes last year, losing only two or three by sickness. The time required is little and you will be surprised how free the chicks are from mites and lice and how nicely they grow. Russell, Kan.

Eggs by Weight or Count

Mr. Editor—The present agitation about selling eggs by weight may never amount to anything as far as practical results are concerned, but it is doing this one thing: It is loudly advertising the fact that there is a great difference between a dozen large eggs and a dozen small ones. The public is demanding and paying for large eggs. On many markets there is a spread of 10 cents a dozen between large uniform eggs and small eggs of equal freshness. W. A. Lippincott.

Kansas Agricultural college.

An Old Subscriber's Opinion.

I am an old subscriber and think the Mail and Breeze is the best paper in the country. Charles M. Campbell. Argentine Sta., Kansas City, Kan.

Reliable Poultry Breeders

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LIGHT BRAHMA eggs, and baby chicks. Carrie A. Beckwith, Wamego, Kans.

LT. BRAHMAS exclusively; winners at late Kansas City show. Fine large stock for sale. Mating list ready Feb. 1st. Mrs. J. F. O'Daniel, Westmoreland, Kan.

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SINGLE COMB White and Black Orpington cockerels. J. L. Carmean, Neosho Falls, Kan.

S. C. BUFF ORPINGTON eggs from prize winners for hatching. Mrs. E. C. Eckart, Humboldt, Kan.

CRYSTAL WHITE ORPINGTONS, single Comb. Stock and eggs Feb. 1. Oscar Zschelle, Burlington, Kan.

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S. C. B. ORPINGTONS. Owens strain. Large, good color. Eggs \$1.00 per 15. Mrs. J. Drennan, Liberty, Kan.

S. C. WHITE ORPINGTON eggs, scored birds, Kellerstrass strain, \$1.50 per setting. H. J. Lorenz, Russell, Kan.

WHITE ORPINGTON cocks \$4, hens \$2.50. Eggs \$2 a setting. 1 cock and 3 hens \$10. Royal D. Rosler, Elk City, Kan.

BLUE RIBBON strain S. C. White Orpingtons. Some fine young cockerels at \$2 each. C. O. Crebbs, Stafford, Kan.

FOR SALE—Crystal White Orpingtons, Kellerstrass strain, some fine birds. Reasonable. C. S. Embree, Wilmore, Kan.

CRYSTAL WHITE Orpington ckl. \$2.00 each. Eggs in season, \$2.00 per 15. Mrs. Riley Ingraham, Manhattan, Kansas.

BUFF ORPINGTON ckl. from \$2 to \$5. Descendants from 1st pen Topeka, 1910. Arthur D. Lovendge, Harrisonville, Mo.

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EGGS FOR HATCHING from heavy laying strain Crystal White Orpingtons. Farm raised. Prices reasonable. Gustaf Nelson, Falun, Kan.

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SINGLE COMB BUFF ORPINGTONS. Owen Farm stock direct. Singles, pens or trios. All stock scored. Cockerels 3 dollars up. Mrs. Earl Vaughn, Esbon, Kan.

SINGLE COMB BUFF ORPINGTONS. Prize winning, egg laying strain; special matings. 15 eggs \$4. Range flock, 15 eggs \$1.50. Circular free. John Tuttle, Princeton, Mo.

COOK'S STRAIN Single Comb Buff Orpingtons. Extra good laying stock. Good utility breeders \$2. Extra good from special pen \$4 to \$5. Satisfaction guaranteed. Frank Fisher, Wilson, Kan.

SINGLE COMB BUFF ORPINGTONS. Bide-a-Wee Farm. Winners at Agra and Smith Center shows. At Nebraska State Show won 1st pullet, 5th cockerel. Write me. Roy Lucas, Agra, Kan.

SINGLE COMB BUFF ORPINGTONS. 11 years for eggs and quality. Eggs from fancy matings \$3.00 per 15. High class utility \$7.00 100. Ask for free mating list. Also strawberry plants cheap. J. F. Cox, Topeka, Kan., Rt. No. 8.

Reliable Poultry Breeders

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SINGLE COMB WHITE LEGHORN eggs, 100 \$4.00. Hillcrest, Altoona, Kan.

PURE S. C. W. LEGHORN cockerels \$1.00 and \$2.00. R. Harrison, Jewell, Kan.

PURE SINGLE C. W. LEGHORN cockerels and hens. J. R. Haywood, Hope, Kan.

S. C. BROWN LEGHORN cockerels \$1.00 to \$2.00 each. H. N. Holdeman, Meade, Kan.

SINGLE COMB WHITE LEGHORNS. Eggs \$1.25 for 15. B. E. Anderson, Foss, Okla.

ROSE AND SINGLE COMB Brown Leghorns. Winners. Mrs. Ida Standiford, Reading, Kan.

PURE Single Comb White Leghorn cockerels \$1.50 and \$2.00. Hugh Harrison, Jewell, Kan.

TOP NOTCH S. C. White Leghorns. Superior layers. Eggs, chicks. Armstrong Bros., Arthur, Mo.

FORTY Single Comb White Leghorn cockerels \$1.00 up, according to quality. R. E. Davis, Holton, Kan., Rt. No. 5.

PURE BRED S. C. White Leghorn cockerels \$1.00 each. A few specials \$2.00. Adolph Berg, McPherson, Kan.

HART'S Single Comb Buff Leghorns are layers, winners and payers. Prices reasonable. W. D. Hart, Ashland, Mo.

THOROUGHbred R. E. W. Leghorns of both sexes. Also a few S. S. Hamburg cockerels. Ray Ditch, Mulhall, Okla.

S. C. WHITE LEGHORNS. Cockerels and eggs for sale. Prize winners. Write Mrs. G. W. Van Horn, Nickerson, Kan.

UTILITY S. C. White Leghorns. Eggs \$1.50 per 15, \$5.00 per hundred. Eugene Bailey, Okla. City, Okla., R. No. 8.

ROSE COMB WHITE LEGHORNS. Thoroughbred. \$10.00 per doz. Eggs in season. Mrs. G. E. Chittenden, Liberal, Kan.

A FEW very choice S. C. White Leghorn cockerels and hens; mated pens a specialty; prices right. Vira Bailey, Kinsley, Kan.

CORNING EGGS FARM stock, Single Comb White Leghorns. Cockerels and eggs for sale. Edwin Moyemont, El Paso, Ill.

ROSE COMB WHITE LEGHORN eggs. Fifteen, one dollar. One hundred, five dollars. Mrs. C. S. Wade, Miltonvale, Kan.

PURE S. C. White Leghorn cockerels, \$1 to \$3. Bred to lay. College View Poultry Farm, J. E. Gish, prop., Manhattan, Kan.

DORE'S prize winning pure Single Comb Brown Leghorns. Eggs \$3.50 per 102; \$1.25. Chas. Dorr & Sons, Osage City, Kan.

SINGLE COMB WHITE LEGHORNS, blue ribbon stock. Cockerels \$1.00. Eggs, chicks. Mrs. Flora Smith, Amorita, Okla., Route No. 2.

SINGLE COMB BUFF LEGHORNS. Cockerels, hens, \$1 and \$2. Prize winners. Eggs \$5 100. Chas. M. Childs, Pittsburg, Kan., Route 3.

HENS ALL SOLD. For sale, high scoring S. C. White Leghorn cockerels. Official score card with each bird. E. L. M. Benfer, Leona, Kan.

S. C. WHITE LEGHORN eggs. 15 from prize winners, \$3.00. Carefully mated pen, \$1.00. Write for matings. Del J. Howard, Chester, Neb.

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.

ROSE COMB WHITE LEGHORNS. Thoroughbred. Cockerels choice and fine. Just a few left, better order now. \$1.00 each. Mrs. W. E. Masters, Manhattan, Kan.

S. C. BROWN LEGHORN cockerels. Forty breeders from choice show males. Choice while they last at \$1.50 to \$5.00 each. H. C. Short, Leavenworth, Kan.

RANGE RAISED laying Leghorns, S. C. White. High scoring stock with size and quality. This breed my specialty. Stock, eggs. Circular. Alex Spong, Chanute, Kan.

H. P. SWERDEGGER'S Brown Leghorns won at Kansas State Show, Jan. 6 to 11, 1st ck., 1st ckl., 1st pen. Cockerels scoring 90 to 98 1/2. Hens, pullets for sale. Eggs \$2.00 per 15. 1144 Forest Ave., Wichita, Kan.

S. C. W. LEGHORNS. If you wish to insure your flock and insure your profits write for our free mating list. Winners wherever shown. Brown Chicken Ranch, Halstead, Kan.

SINGLE COMB WHITE LEGHORNS—Trap-nest bred 10 years for egg production. Silver cup winners Kansas City shows. Utility hens, pullets, \$1.50; cockerels (egg bred), \$2.00. Eggs \$5.00 100 up. Show stock reasonable. Catalog free. Ackerman Leghorn Farm, R. R. No. 5, Rosedale, Kan.

TURKEYS.

BOURBON RED gobblers, thoroughbred. Fay Ege, Turon, Kan.

PURE BRED White Holland pullets. Mrs. S. J. Bloxom, Pratt, Kan.

WHITE HOLLAND turkeys. Fishel strain. James Jensen, Kinsley, Kan.

WHITE HOLLAND toms for sale. Mrs. R. I. King, Burlington, Kan.

THOROUGHbred Bourbon Red gobblers. Mrs. J. J. Darst, Rose, Kan.

WHITE HOLLAND turkey toms \$5; hens \$2.50. Mrs. H. Bazil, Lebo, Kan.

EGGS \$5 hundred, \$3 fifty, \$1 setting. Mrs. Frank White, Furley, Kan.

MAMMOTH BRONZE turkeys, toms \$5.00, hens \$3.50. H. A. Sandborn, Detroit, Kan.

Reliable Poultry Breeders

WHITE HOLLAND turkeys. Toms \$4.00; hens \$3.00. Mrs. R. A. Lewis, Timken, Kan.

WHITE HOLLAND turkeys. Toms \$4. Hens \$3. W. E. Monasmith, Formoso, Kan.

BOURBON RED gobblers \$5.00. Eggs in season. Mrs. F. H. Tuttle, R. 2, Chanute, Kan.

MAMMOTH WHITE HOLLAND turkeys for sale. Mrs. Ada Poindexter, Medicine Lodge, Kan.

BOURBON RED pairs not related \$8.00. Young toms \$4.00. Eggs. Mrs. M. H. Arnold, Toronto, Kan.

PURE BOURBON RED turkey toms \$4.00. Mrs. R. O. West, Pleasanton, Kan., R. R. No. 1.

BOURBON RED turkeys. Trios no relation \$10. Young toms \$4. Florence E. Hopkins, Sedan, Kan.

NARRAGANSETT turkeys; large as Bronze; gentle as chickens. Jake Hertzog, Independence, Mo.

MAMMOTH BRONZE. Toms. Fine stock. \$5.00. Indian Runner drakes \$1.00. Mrs. H. W. Hammond, Higgins, Texas.

THOROUGHbred Mammoth Bronze turkeys. Have a few good toms. Margaret James, Olathe, Kan., Route No. 4.

PURE BRED, heavy bone Mammoth Bronze turkeys. Send for prices and turkey pointers. Mrs. Henry Bacheider, Fredonia, Kan.

NARRAGANSETT turkeys. Old gobbler 50 lbs., old hens 27 to 33 lbs., for sale. 1912 hatch. E. R. Foster, Caldwell, Ohio, R. No. 5.

BOURBON RED toms. Good S. C. R. cockerels. Good Red eggs in season from pen range. Insure good hatch. W. P. McFall, Pratt, Kan.

DUCKS.

FRETZ'S INDIAN BUNNER ducks. Stock for sale. J. W. Fretz, Bosworth, Mo.

INDIAN RUNNER ducks; \$1.00 each; eggs in season. Celestia Easley, Exeter, Mo.

INDIAN RUNNER ducks and drakes. White egg strain. Lotta List, Lenexa, Kan.

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

INDIAN RUNNERS. 8 extra quality drakes \$1.50 to \$2.50 each. E. H. Killian, R. R. No. 2, Manhattan, Kan.

WHITE EGG strain. Fawn and White Indian Runners. Eggs \$1.00 per 13, \$5.00 per hundred. Sharp, Iola, Kan.

AMERICAN, English and White Indian Runner drakes and eggs from prize winning layers. Marian Holt, Savannah, Mo.

INDIAN RUNNER ducks and drakes. American Standard, white eggs. Satisfaction guaranteed. R. Harrison, Jewell, Kan.

INDIAN RUNNERS, American standard light Fawn and White. White egg strain. Eggs \$1.50 per 13, \$4.50 per 50. Mrs. Otis Russell, Canton, Kan.

INDIAN RUNNER ducks, American Standard light Fawn and White. Prize winners. White eggs, \$1.50 per 15, \$4.00 per 50. Mrs. D. A. Pryor, Route 3, Fredonia, Kan.

WHITE INDIAN RUNNER ducks (Fishel strain). Always lay white eggs. Three dollars per 10. A few nice drakes at two dollars each. A. E. Kroth, Havensville, Kan.

INDIAN RUNNER ducks, scoring to 97 1/2. Stock \$1.50 and up. Eggs \$6.00 per 100 and up. All stock guaranteed. Write for booklet and guarantee. Dr. Haskell, Garden City, Kan.

INDIAN RUNNER ducks. Fawn and White. White egg strain. 13 for \$1.25. Kentucky's best Barred Plymouth Rock eggs 15 for \$2.50. Lee Threlkeld, Hampton, Ky.

MAMMOTH PEKIN duck eggs ten cents each; 50 eggs, charges prepaid. Mating list Partridge Wyandottes, Crystal White Orpingtons now ready. Investigate Page's Poultry Farm, Salina, Kan.

LANGSHANS.

BLACK LANGSHAN cockerels. Scored by Rhodes. Martha Haynes, Grantville, Kan.

EXTRA CHOICE Black Langshan cockerels. Write for prices. J. Stulp, Hartford, Kan.

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

PURE BLACK LANGSHAN cockerels. Fine birds. Pleasant View Farm, John Boite, Axell, Kan.

BLK. AND WHITE LANGSHAN. Choice mating eggs \$3.00 15; range flock, \$6.00 100. H. M. Palmer, Florence, Kan.

48 EXTRA FINE Buff and Black Langshan cockerels \$1.50 to \$3.00 each. J. A. Lovette, Mullinville, Kan.

BLACK LANGSHAN, Houdan cockerels two fifty to five dollars each. Write for mating list. E. D. Hartzell, Rossville, Kan.

BIG SCORED, greenish glossy, black eyed Black Langshans. \$2.50 and \$5 each. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

BLACK LANGSHAN cockerels exclusively. Best of breeding. Good individuals at reasonable prices. W. S. L. Davis, Nickerson, Kan.

BLACK AND WHITE LANGSHANS for sale. Both sexes. Write for prices. Satisfaction guaranteed or money refunded. Frank A. Vopat, Lucas, Kan.

OUR BLACK LANGSHAN cocks and cockerels are larger and better than ever before. Write for prices. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

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PLYMOUTH ROCKS.
WHITE ROCK cockerels. Fishel strain. Anna Nelson, Roxbury, Kan.
WHITE ROCK cockerels for sale cheap. G. R. McBurney, Quinter, Kan.
 40 **BARRED ROCK** cockerels \$1.00 to \$2.00. E. W. Caywood, Clifton, Kan.
BUFF ROCK cocks and cockerels \$1.50 to \$5.00. M. E. Stevens, Humboldt, Kan.
BARRED ROCK cockerels and pullets for sale. Mrs. H. Schmidt, Humboldt, Kan.
BARRED ROCK cockerels \$1.00 and \$1.50 each. Mrs. John Yowell, McPherson, Kan.
FINE pure White Plymouth Rock cockerels \$2.00 each. Elmer Schultz, McLouth, Kan.
WHITE IVORY strain Rock cockerels \$1.00 to \$2.00 each. Wm. Ritter, Troy, Kan., R. No. 2.
CHAMPION Barred Rocks. Premium stock. Write me. Mrs. Chris Bearman, Ottawa, Kan.
BARRED ROCK eggs, \$5.00 per hundred. Write for catalog. Harry E. Duncan, Humboldt, Kan.
GOOD BARRED ROCK cockerels \$1.50 up. Wm. C. Mueller, Hanover, Kan., Route No. 4.
PARTRIDGE ROCKS exclusively. 16 eggs \$2.00, 50 \$5.00, 100 \$8.00. Stella Weigle, Winfield, Kan.
MAMMOTH SNOW WHITE ROCKS. Ten years a breeder for size and quality. Charles Vories, Wathena, Kan.
BLUE BARRED ROCK eggs; prices reasonable, considering quality. Write Milton Deihl, Lawrence, Kan.
BUFF ROCK cockerels from silver cup winners for sale. Reduced prices. R. M. Feurly, Easton, Kan.
WHITE AND PARTRIDGE ROCKS. Large vigorous fellows. Western Home Poultry Yards, St. John, Kan.
PURE BRED White Plymouth Rocks; beauties. Eggs for hatching. Mrs. Elmer Lane, Burlington, Kan.
PURE BARRED ROCKS. Cockerels \$1.50. Hens \$1. Eggs \$1 per 15, \$5 per 100. Mrs. H. Buchanan, Abilene, Kan.
FOR GOOD BARRED ROCKS, either sex, write to Frank McCormick, Morrowville, Kan., Route No. 3, Box 12.
WHITE ROCKS. Fishel strain. Eggs—15 \$1.25, 100 \$5.00. A few cockerels. Mrs. Frank Powell, Buffalo, Kan.
BUFF ROCK bargains. Fine stock at reasonable prices. 50 eggs \$4.00. Write me. W. F. Alden, Ellsworth, Kan.
BIG TYPE BARRED ROCKS. Thirty-five years' scientific breeding. Eggs and stock. A. H. Duff, Larned, Kan.
BARRED ROCK cockerels. A breeder 25 years. \$2 each. A few left. Come quick. T. B. Wilson, Osage City, Kan., R. 7.
NINE YEARS exclusive breeding White Rocks large, high scoring cockerels. Fishel strain. O. J. Stoker, Hartford, Kan.
WHITE ROCKS. Big boned cockerels, eggs and chicks. Farm raised. Prize winners cheap. B. E. Miller, Newton, Kan.
BUFF ROCK eggs by parcel post from quality stock at reasonable prices. Write today. William A. Hess, Humboldt, Kan.
BARRED PLYMOUTH ROCK cockerels \$1.50 each, four for \$5.00 or \$12.50 per dozen. Mrs. Henry Bacheider, Fredonia, Kan.
WHITE IVORY ROCKS. Two pens mated from prize winners past season. Settings reasonable. A. F. Holmgren, Nickerson, Kan.
PURE BRED BARRED ROCKS exclusively. Eggs \$1.00 per 15, \$4.00 per 100. Safe arrival guaranteed. C. E. Romary, Olivet, Kan.
PURE White Plymouth Rocks. Cockerels, large, fine shape, bay eyes. Write for particulars. H. F. Leonard, Girard, Kan., R. No. 7.
EGGS FOR HATCHING from pedigreed Barred Rocks, \$1.50 per 15. Express paid. Mating list free. Gus Schobeck, Atchison, Kan.
BARRED ROCK hens, pullets. Extra good cockerels at special prices. We are changing location. Mrs. E. C. Wagner, Holton, Kan.
BARRED ROCKS—Weigher-layer. 103 premiums. Eggs \$1.00 15, \$5.00 100. Special matings \$3.00 15, \$5.00 30. W. Opfer, Clay Center, Kan.
W. A. FAWNEY, Ogallah, Kansas, breeder of pure bred Buff Plymouth Rocks. Young cockerels for sale \$1.50 each. Eggs for sale in season.
WHITE P. ROCK cks. and cock birds. Show winners. White Ivory strain. The largest and whitest that grow. G. W. Perkins, Newton, Kan.
FOR SALE—Choice White Plymouth Rock cockerels from laying strain. Also Barred Plymouth Rock hens. R. C. Obrecht, Rt. No. 7, Topeka, Kan.
BARRED PLYMOUTH ROCK cockerels. Shelley Bros.' pullet-line strain. Prices reasonable. Eggs in season. Oscar Daub, Elm-dale, Kan., R. F. D. No. 2.
BARRED ROCKS: Denver winners, 1st cockerel; 5 entries, 4 ribbons. Special matings: 15 \$2.00; 30 \$5.00; 15 \$1.25; 60 \$4.00; 100 \$6.00. Mrs. D. M. Gillespie, Clay Center, Kan.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
PURE BRED Barred Plymouth Rocks exclusively. Pen and range eggs. Baby chicks. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kan.
BARRED PLYMOUTH ROCKS and W. F. B. Span, fowls. Have some choice cks. and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.
SHELLEY BROS.' Barred Rocks won 82 premiums—35 firsts, specials and sweepstakes—at Kansas' largest shows. Stock and eggs. Circular free. Shelley Bros., Elm-dale, Kan.
EGGS! EGGS! Pure White Plymouth Rocks, Good layers. \$5.00 per 100. "Fishel strain" \$1.50 per 15. Also some high scoring cockerels \$1.50 to \$3.00. Mrs. Wm. Lem-kull, Fairfield, Neb.
F. W. HALL'S Barred Rocks have won 60 premiums in 1912 and 1913. Utility cks. \$1.50 to \$3.00. Special ckl. and pullet mating, \$5 to \$15.00. Eggs \$2.50 and \$1.50 per 15. Ask for mating list. Lone Wolf, Okla.
WHITE PLYMOUTH ROCK eggs for hatching, from a pure bred, healthy, vigorous, farm ranged flock. Size and fancy points combined with excellent laying qualities. Eggs fresh and true to name, packed to ship any distance safely. Mrs. Walter Cline, Versailles, Mo.
THOMPSON AND O'GARA, Barred Rocks. Fall and winter 1912-13 winnings—American Royal, ckl., pul., pen, first; Mo. State, ckl. 1, pul. 4; Kan. State, ckl. 2-3, pul., pen, first; Topeka, ckl. 1-2-3, pul. 1-2, hen, cock, pen, 1; Hutchinson, ckl., pul., pen, 1, sweepstake ckl. American class. Stock and eggs. Ask for circular. Topeka, Kan.
RHODE ISLAND REDS.
S. C. REDS, Eggs and baby chicks. Mrs. F. D. Spohn, Inman, Kan.
ROSE COMB RED cockerels. Write for price. Mrs. Dick Fox, Larned, Kan.
ROSE COMB VELVET RED cockerels. Mrs. Lizzie Paige, White City, Kan.
S. O. RED cockerels, score cards furnished. Gertrude Haynes, Meriden, Kan.
SINGLE COMB R. I. REDS. Cockerels \$1 each. Mrs. J. W. Williams, Olivet, Kan.
15 ROSE COMB Rhode Island Red eggs \$1.50 delivered. James Clifton, Russellville, Ark.
SINGLE COMB REDS. 100 eggs \$3.50, 30 \$1.25. Mrs. Rosa Janzen, Geneseo, Kan., R. 3.
SINGLE COMB RHODE ISLAND RED cockerels \$1. Clyde Nighswonger, Alva, Okla.
ROSE COMB REDS. Cockerels and eggs from prize winners. L. Shamleffer, Douglass, Kan.
BIG BONED, deep red R. C. Reds. Scored, \$3 to \$5 each, guaranteed. Highland, Hedrick, Iowa.
CHOICE S. C. R. I. RED cockerels \$5 each. They are worth it. J. B. Hampton, Colby, Kan.
ROSE COMB RED cockerels, good ones, \$1.50 up. Prosperity Poultry Farm, Barnes, Kan., R. 1.
EGGS from winners. Single Comb Rhode Island Red. None better. E. S. Stockwill, Muskogee, Okla.
THIRTY ROSE COMB cockerels for sale. \$1 each. Six for \$5. O. M. Lewis, Holsting-ton, Kan., R. No. 1.
ROSE COMB REDS. Exhibition and utility strains. Prices reasonable. Mrs. Abbie Rienets, Pratt, Kan.
CLEARANCE SALE—R. C. Reds, pullets, hens and cockerels. Prices right. Mrs. Susan Wedd, Oakhill, Kan.
R. C. RED cockerels; few Single Comb; good ones; \$1.50 to \$3.00. Eggs \$1.00. L. G. Brown, Wilson, Kan.
LARGE, brilliant, Rose Comb Red cockerels from scored stock \$1.50 to \$2.00. Mrs. G. C. Talbot, R. 4, Onaga, Kan.
CHOICE R. C. REDS. Cockerels \$2.00 each. Eggs and baby chick. Prize winners. Mrs. Alta Murphy, Luray, Kan.
F. B. SEVERANCE, Lost Springs, Kan. Breeder of Rose and Single Combed Rhode Island Reds. Free mating list.
R. C. REDS. Eggs from well culled range flock. 100 \$4. choice pen eggs 15 \$2, fifty \$5. Mrs. B. F. Weigle, Winfield, Kan.
RHODE ISLAND RED cockerels from my 1912 winners; Rose and Single Comb; must sell at once. Lulu H. Searl, Waldron, Kan.
ROSE COMB REDS, best blood; first at Arkansas City and Wellington; \$1.00 and \$2.00 per 15. Clyde Shay, Belle Plaine, Kan.
FOR SALE—Thoroughbred Rose Comb Rhode Island Red hens one dollar each. Prize winners. Mae McCloud, Mussel-fork, Mo.
PURE BRED Single Comb Rhode Island Reds. Cockerels also. Eggs \$1 per 15 or \$5.00 per 100. Emma Wilson, Route No. 8, Topeka, Kan.
ROSE COMB Rhode Island Reds. Bred to win; bred to lay. Stock and eggs for sale. Write for our free mating list. Toal & Toal, Cedar Vale, Kan.
RHODE ISLAND RED eggs of quality, winners of five 1st prizes at the Kansas State show. Get my prices before buying. A. M. Butler, Wichita, Kan.
ROSE COMB REDS. Eggs for hatching from high scoring birds and prize winners. 1st pen \$2.00 per 15. Free circular. Mrs. D. A. Pryor, Route 3, Fredonia, Kan.

Reliable Poultry Breeders

RHODE ISLAND REDS.
RHODE ISLAND REDS, both combs. Hatching eggs low price, fertility guaranteed; mating list free. S. C. cockerels for sale. H. A. Sibley, Lawrence, Kan.
SINGLE COMB RED cockerels \$2.00, \$3.00, \$5.00. Pullets, \$1.50, \$2.00. Limited number. Booking egg orders now. Mating list free. Clyde C. Whiteley, Wichita, Kan.
FOR SALE—Rose Comb Rhode Island Red eggs, from prize winning, high scored matings. The very best. Write for mating list. Also fifty breeders. J. A. Wells, Erie, Kan.
ROSE COMB REDS. Winners at Kansas City Mo. State. Parsons trio state, of good color, correct shape, large bone; eggs \$2.00, \$3.00, \$5.00 per 15. H. S. Fisher, Oswego, Kan.
ROSE COMB REDS, all yearling hens, Miller and New Combs strain. Free range, 45 eggs \$2.25. 100 \$4.00. Guaranteed 80 per cent fertile. James A. Harris, Latham, Kan., Box 65.
ROSE COMB RED eggs. From pens headed by \$10.00 to \$30.00 roosters. 15 eggs \$1.50, 30 \$2.50, 50 \$4.00, and 100 \$7.50. Good range flock \$4.00 per 100. W. R. Huston, Americus, Kan.
FOR SALE—Hatching eggs and baby chicks; Blue Ribbon strain. Single Comb Rhode Island Red. Order now to insure delivery. C. W. Murphy, 1751 New Hampshire St., Lawrence, Kan.
SINGLE AND ROSE COMB Rhode Island Red cockerels, hens and pullets from best laying and richest colored strains in this country, \$1, \$2 and \$3. Col. Warren Russell, Odessa Farm, Winfield, Kan.
FOR SALE—Twenty-five Rose Comb Rhode Island Red cockerels. Bean and Sibley strain. Special matings. \$1.50 to \$3.00. Eggs in season. S. W. Wheeland, Holton, Kan.
SELECTED R. C. RED eggs for hatching. First class utility flock. Am using males weighing 8½ lbs. to 10 lbs. Dark brilliant red. 15 eggs \$1, 30 eggs \$1.75. Order from this ad. J. M. Parks, Route 4, Kingman, Kan.
REHKOPF'S ROSE COMB REDS won 3 times as many points as any other exhibitor at Kansas State Show. Eggs from nine great pens \$1.50 up. Cockerels \$2.00 up. Free catalogue. F. A. Rehkopf, Route 7, Topeka.
ROSE COMB REDS. 14 years' experience with Reds as good as any in the U. S. 30 pullets, 4 cockerels, range birds. Eggs only \$4 for 15, \$7 for 30. Milton Hills, Cedar Vale, Kan.
SINGLE COMB RED cockerels. Best blood lines. Good show record. Splendid individuals. Eggs from superb matings. Prices low. Also white Indian Runner drakes and Boone County White seed corn. J. B. Hunt, Oswego, Kan.
WYANDOTTES.
WHITE WYANDOTTES for prices to suit. G. D. Willems, Inman, Kan.
COLUMBIAN WYANDOTTES at a bargain. G. D. Willems, Inman, Kan.
WHITE WYANDOTTE cockerels \$1.00. Mrs. J. R. Antram, Galesburg, Kan.
WE HAVE fine Silver Wyandottes for sale. H. L. 1 unner, Newton Kan., Rt. No. 5.
C. O. BROWN'S Buff Wyandottes are pure. His prices right. Duquoin, Kan.
PURE PARTRIDGE WYANDOTTES. Stock and eggs \$1 up. Rosa Carder, Lyndon, Kan.
FINE White Wyandotte cockerels and pullets for sale. J. Benjamin, Cambridge, Kan.
PURE BRED White Wyandotte cockerels, \$18.00 doz. J. E. Gustafson, McPherson, Kan.
CHOICE BUFF WYANDOTTE cockerels, eggs and chicks. John P. Ruppenthal, Russell, Kan.
LARGE farm raised White Wyandotte cockerels for sale. Earnest Chestnut, Denison, Kan.
GOLDEN WYANDOTTE cockerels from prize winning stock. M. M. Donges, Belleville, Kan.
WHITE WYANDOTTE cockerels \$1.50 up to \$5.00 each. Mrs. Geo. Downie, Route 2, Lyndon, Kan.
FINE WHITE WYANDOTTE cockerels, \$1.00 and \$2.00 each. Eggs for sale. Joseph Nichols, R. 3, Baldwin, Kan.
WHITE WYANDOTTE cockerels; fine white birds; \$1.00 and up. Eggs in season. Ideal Poultry Yards, Wayne, Kan.
WHITE WYANDOTTES. Stock and eggs for sale; mating list free. Also fox terrier dogs. Ginette & Ginette, Florence, Kan.
SILVER WYANDOTTE cockerels. Sired by 2nd Mo., 1911, ckl., also 4th at Topeka, 1911. Arthur Lovendge, Harrisonville, Mo.
WHITE WYANDOTTES. Eggs fifty cents for fifteen, three dollars per hundred. Cockerels \$1.00 each. Alice Sellars, Mahaska, Kan.
SILVER LACED WYANDOTTE cockerels from \$2.00 to \$5.00 each. Large, high scoring. Eggs. Elizabeth Littleton, Guymon, Okla.
GOLDEN WYANDOTTES—Winners wherever shown. Eggs \$1.50 and \$2.50 per 15. Cockerels \$1.50. F. O. Rindom, Liberal, Kan.
SILVER LACED WYANDOTTES—Eggs, 15 \$1.00; 100 eggs \$5.00. I guarantee 60 per cent hatch or will duplicate order at half price. Write for circular or order direct. S. B. Dressler, Lebo, Kan.

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WYANDOTTES.
SILVER LACED WYANDOTTES. Cockerels and hens \$1.00 each. Fine laying strain. Eggs \$1.00 15, \$5.00 per 100. W. D. Ross, Wakita, Okla.
EGGS FOR SALE. Golden Laced Wyandottes, Silver Laced Wyandottes, Crystal White Wyandottes, White Crested Black Polish. C. H. Saunders, Winfield, Kan.
GOLDEN WYANDOTTES for 20 years. Indian Runner ducks. The two best and most beautiful breeds. Stock and eggs. Write to J. R. Douglas, Mound City, Kan.
BUFF WYANDOTTES—Booking orders now for eggs and baby chicks. Eggs \$2.50 per 15; baby chicks 25 cents each. Eggs from utility pen \$1.50 per 15. We won first cockerel, second hen and third pen at State Poultry Show. Send for mating list. Wheeler & Wylie, Manhattan, Kan.
MINORCAS.
SINGLE COMB BLACK MINORCA cockerels, \$3.00. A. L. Liston, Garden City, Kan.
HOUDANS.
HOUBAN cockerels. Mrs. J. A. Smith, Olsburg, Kan.
ANCONAS.
PRIZE WINNING Mottled Anconas. Eggs and baby chicks. Circular. W. Hardman, Frankfort, Kan.
13 YEARS a breeder of Anconas from best imported and domestic strains. Eggs. Adaline Gosler, Matfield Greer, Kan.
SEVERAL VARIETIES.
SILVER SPANGLED HAMBURG cockerels. Chas. Gresham, Bucklin, Kan.
BUFF COCHIN cockerels \$2.50 to \$5.00. Pullets \$2.00. Housel, Smith Center, Kan.
PARTRIDGE COCHINS for sale. Pure bred. Mrs. C. E. Wonderly, Benedict, Neb.
MRS. A. L. LEWIS, Noble, Okla. Partridge Wyandottes and Rhode Island Reds.
ROSE COMB Silver Spangled Hamburg cockerels. J. L. Carmean, Neosho Falls, Kan.
SICILIAN BUTERCUP eggs from splendid layers. 15 for \$2.00. Lee Threlkeld, Hampton, Ky.
WHITE CHESTED BLACK POLISH cockerels for sale cheap. None better. Jos. T. Stewart, Colby, Kan.
BREEDER AND JUDGE of all land and water fowls. Terms and catalog free. C. W. Brehm, Route 4, Harvard, Neb.
INDIAN RUNNER drakes and Buff Orpington cockerels for sale at \$1.50 each. E. D. Farrar, R. F. D. 4, Frankfort, Kan.
INDIAN RUNNER ducks, all kinds, and Golden Wyandottes. The two best and most beautiful breeds. J. E. Douglas, Mound City, Kan.
43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guinea, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.
LEADING VARIETIES, ten dollars dozen, male free. Twenty page catalog, sixty varieties, free. Jordan Poultry Farm, Coffeyville, Kan.
WHITE FACE BLACK SPANISH cockerels and pullets for sale. Eggs in season, 15 \$1.00, 50 \$3.00, 100 \$5.00. A. W. Swan, Centralia, Kan.
EGGS, Indian Runner ducks, Single Comb Reds. Silver cup winners. Prices low. Circular ready. Quality square. A. B. Lampert, Brinkman, Okla.
SINGLE COMB WHITE LEGHORN cockerels and pullets and Barred Rocks, \$1.00 each. Pure bred. Eggs. Elizabeth Littleton, Guymon, Okla.
WHITE MINORCAS and White Orpingtons. Pure bred eggs from the best prize winning strains \$2 per setting. Arthur Goodwyn, Minneapolis, Kan.
SINGLE COMB REDS, Partridge Rocks, Golden Wyandottes. State show winners. Stock and eggs. Prices reasonable. C. E. Florence, Eldorado, Kan.
SIXTY VARIETIES fancy geese, ducks, turkeys, chickens, peafowls, guineas, pigeons, pheasants; stock and eggs cheap; 60-page catalogue 2c. F. J. Damann, Farmington, Minn.
EGGS, 63c a dozen! You can get premium prices in any market if you'll read "Poultryology" and learn how Yesterlaid Egg Farms produce and market their eggs. 144 pages—70 pictures. Get one now! Edition limited. Year's subscription to Standard and Poultry World free. Yesterlaid Egg Farms, Dept. 40, Pacific, Mo.
BARRED ROCKS.
 Our birds again demonstrated their high quality at this season's shows. Very best laying strains. Pens mated for the coming season. Send for descriptive circular. Pen eggs \$3 per 15. Utility eggs \$4 per 100. C. C. LINDAMOOD, WALTON, KANSAS.

White Orpington and Indian Runner Ducks
 Eggs \$6 per hundred. Turkey and Geese eggs \$1.75 per setting. We breed all leading varieties of Standard Poultry. Plymouth Rocks are our leaders. Stock of high-st quality at let live prices. Stock for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

PFILE'S 65 Varieties
 LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box 604, Freeport, Ill.



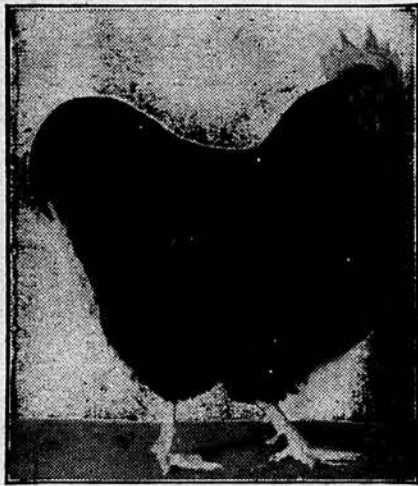
Grains from the Feed Hopper

Grit must be sharp. Clean out the feed troughs daily. Oyster shells are too soft for grit. Never throw soft feed on the ground. In feeding grain in the runs broadcast it. Millet seed is a great egg-dropping grain. Always feed this mash crumbly, not sloppy. Do not allow the mash to sour in the troughs. A quart of feed for 12 hens is a good measure. Do not feed corn during the hot weather. The noon meal is not necessary during the summer.

Cultivating the Egg Crop

BY J. E. HIGGINS.

Nice dust bath. Feed judiciously. Hard grain at night. Hot mash in morning. Clean water every day. Never fatten the pullets or hens. Give cut green bone twice a week. Give them all the liberty you can by day. All the warm shelter by night and in tempestuous weather. Then if hatched at right time you will have the birds earning money for you in the hard frosty times.—Caddo, Okla.



BLACK ORPINGTON COCK.

An extra fine bird in good show form and a winner at the Kansas show in 1912. There are Buff, White, Black and Spangled varieties, with single and rose combs.

Cold Weather Feeds and Care. [Prize Letter.]

Mr. Editor—I spend a great deal of time with my chickens studying their wants and needs and have learned a good deal about egg production and insuring strong fertile eggs. I do not feed patent egg foods, as I believe they weaken the vigor of the fowl as well as the egg germ. Cracklings and fat meat have much the same effect, but lean meat acts the other way and stimulates egg production. Dry ban is a good egg producer and prevents fowls from becoming egg bound. It is also a preventive of bowel trouble.

Last winter I had 17 Langshan hens, which are not considered an egg breed, but 75 per cent of them laid all winter. From 13 of these hens I sold \$20 worth of eggs for hatching and I hatched 150 chicks for myself. Of these I did not lose a half dozen. The average hatch was from 12 to 14 chicks from each setting of 15 eggs. They were kept in an ordinary board house with cardboard covering the walls for greater warmth. Dry goods boxes, 3 by 6 feet, are nailed up to the walls about 18 inches from the floor, each containing two roosts, put in 3 inches above the bottom of the box. A burlap curtain nailed to the top of each box may be lowered on cold nights to keep out the cold air. Each of these boxes accommodated nine hens and they were perfectly comfortable with not one

frozen comb all through the winter. I have also learned that by greasing combs with vaseline, they can be kept from freezing in the coldest weather.

I keep oat straw on the floor of the house in which I scatter Kafir in the morning. For dinner the flock gets a warm mash of bran, oats and corn meal, slightly salted. For the night feed they have whole corn. They have both milk and water to drink and whole oats, bran, cut alfalfa and oyster shell before them all the time. I feed sprouted oats once and lean meat twice a week.

Mrs. W. M. Biser.

Blue Mound, Kan.

A Good Poultryman's Methods.

Mr. Editor—If well cared for, I find poultry will pay better than dairying or hog raising as there is less expense connected with it. Kafir with a bran mash and a little beef scrap is the best morning feed. Whole Kafir, wheat or corn are good for the night feed. Chickens like variety in their feed just like any other animal. I never have any trouble with either lice or mites. I use good dip in a spray pump and spray the house once a week.

I raise about 500 chickens a year and advertise them in some good farm paper when I want to sell. I have never had any trouble in disposing of all I raised. I also take my birds to the poultry shows and fairs. I have adopted the Rose Comb White Leghorns as the most satisfactory variety in every way. They are good winter layers, have no frosted combs and will breed true to their color. For meat fowls one of the larger breeds is best, but for eggs, let me have the Leghorns.

Osage City, Kan. A. G. Dorr.

Breed for Early Maturity.

A Single Comb White Leghorn pullet, that laid her first egg just 4 months and 14 days from the date of her hatching, is one of the results of breeding for early maturity. The usual age at which pullets begin laying is about 6 months. This fowl was one of a group of 720 that were hatched at the same time. Five or six others from this group began laying much earlier than ordinary fowls showing that it pays to breed for early maturity. They were from the Yesterlaid-strain of Single Comb White Leghorn, that have been bred especially to develop early laying. It may be interesting to know just how this flock was fed. From the first day to the sixth week they received twice a day a grain ration of 2 pounds fine cracked corn and 3 pounds cracked wheat. Up

until the 21st day they also received three times a day a moist mash composed of 4 pounds rolled oats; 3 pounds corn meal; 3 pounds wheat middlings; 6 pounds wheat bran; 4 pounds sifted meat scraps; 2 pounds alfalfa meal; 1/4 pound bone meal; 1/4 pound fine charcoal. This was mixed with skim milk or buttermilk and fed in shallow trays. From the sixth week to maturity they received a grain ration of 2 pounds cracked corn and 2 pounds whole wheat, fed in open hoppers. From the 21st day to maturity they received a mash composed of 1 pound rolled oats; 1 pound cornmeal; 1 pound wheat middlings; 2 pounds wheat bran; 1 pound sifted meat scraps; 1/2 pound alfalfa meal; 2 ounces fine charcoal. This was fed dry in open hoppers. In addition they were given green foods and grits.

Advertisement for Miller's 'Ideal' incubator. Includes an image of the incubator and text: 'GET IT Before buying any kind of an incubator, at any price, from any body, get my 1913 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further. I'm going to pay the freight—Give You An Unqualified Guarantee—Include Everything FREE. When writing, tell me what size incubator you are interested in and I'll send you my BIG ILLUSTRATED POULTRY BOOK FREE. Describes Standard Bred Poultry, tells how to become successful and other valuable information. Easily worth \$1.00. Because it contains advertising, you get it FREE. Ask for copy. J. W. MILLER CO., Box 388 Rockford, Illinois.'

Advertisement for The Fostoria Incubator. Includes an image of the incubator and text: 'The Fostoria Incubator This incubator has been thoroughly tested in the hands of users and has proved its superiority. It is made of the best redwood lumber and is worth the price. It has a double acting regulator that acts quickly, surely and always. Equipped with Tyco's thermometer, the best made. It requires less oil. A special feature is the alarm which makes care of the machine easier and is another check on the temperature. No, it isn't fool proof, but if handled according to simple instructions it will hatch the hatchable eggs. Find out all about the incubator made in the good state of Kansas. Two sizes, 150 and 200 eggs. 30 or 60 day trial. Money back if not satisfied. Send for the free catalog. FOSTORIA INCUBATOR COMPANY, B Street, FOSTORIA, KANSAS. KANSAS MADE'

Advertisement for Uncle Sam's Poultry Book and Sure Hatch Incubator. Includes an image of Uncle Sam and text: 'A Sure Guide to Poultry Success Use the Government Method of Raising Poultry and Make Big Money You will have better luck with your chickens, raise more hatches, get more eggs and insure greater profit by using THE SURE HATCH INCUBATOR and UNCLE SAM'S POULTRY BOOK There is no question about the Sure Hatch being the best incubator made that is selling for such a low price. The best materials, good workmanship, most modern improvements, built just as the government experts say a good incubator should be built and hatches more chicks that live and grow than any other machine. It was the first low-priced, well built machine, and has been the leader for sixteen years. More than a quarter million of Sure Hatches have been sold in all parts of the world. Ask a Sure Hatch owner about it. Freight prepaid; 60 days free trial, and a 5 year guarantee. UNCLE SAM'S POULTRY BOOK is the greatest authority published on the chicken business. Written by government experts and tells all you need to know to be successful at the business. Sold only by us at 20 cents—send stamps or two dimes. It is worth \$10.00 of anybody's money and by our plan you get 50 cents back. Limited edition, order at once. Our big catalogue of Sure Hatch machines sent free. Send for it today. Market your chickens quick at the high prices that will prevail the coming season. All authorities agree there was only about a half crop of chickens last year, which is causing high prices. Send for our free catalogue today. Select your machine and order it at once. Set without delay and rush your chickens into the market. Sure Hatch Incubator Co., Box 14, Fremont, Neb.'

Advertisement for Ironclad Wins in Biggest Hatching Contests. Includes an image of the Ironclad incubator and text: 'Ironclad Wins in Biggest Hatching Contests EVER HELD Both For \$10.00 PRESENTLY PAID Mrs. C. F. Merrick, Lockney, Tex., with her 140 egg Ironclad incubator wins in the Mo. Valley Farmer and Neb. Farm Journal Big Hatching Contest in 1912. She placed 142 eggs in the incubator and hatched 148 strong chicks. Think of that! You can now get 140 EGG INCUBATOR AND 140 CHICK BROODER If ordered together for only \$10.00; freight prepaid out of the Rockies. Incubator is made of California Redwood, covered with galvanized iron and asbestos, hot water type, triple walls, copper tank and boiler, self-regulating, Tyco's thermometer, O. K. burner, egg tester, nursery, complete, set up ready to run. Brooder is large, roomy, well made with wire scratching yard. Compare material and construction with other makes; if you do not surely order Ironclad. Guaranteed 5 years, 30 days trial. Order direct from this ad., hundreds do, money back if not satisfied. Write for free catalogue. Ask the publishers of this paper about it. IRONCLAD INCUBATOR CO., Box 66 RACINE, WIS.'

Advertisement for RAYO Incubator. Includes an image of a woman operating the incubator and text: 'Can You Succeed With Chickens? Sure! If You Use the Simple, Economical RAYO Incubator Only two minutes a day! That's all the time you need to give to operate the REALLY WONDERFUL RAYO INCUBATOR. Think of it! Splendid hatches. Strong, healthy chicks. No muss. No dirt. No grease. No smoke. No odor or trouble. Fill oil tank JUST ONCE. One-fifth the oil the other incubators use! Isn't that REALLY WONDERFUL? Yet it's absolutely true. Mahogany finish—good enough for the parlor, or to stand next the piano! More improvements than any ever made. Lasts a LIFETIME and PAYS FOR ITSELF EVERY HATCH! Bought for six years by TEN THOUSAND enthusiastic women. Hatches on 1 Gallon of Oil Others Use 3 to 5 Gallons You don't need to worry about having the heat just right. The RAYO tends itself! Regulates to a thousandth of a degree! Isn't that really wonderful? IT WATCHES ITSELF! The automatic flame regulator does this. Other incubators have to be watched all the time or they chill the eggs or overheat them. YOU LIGHT THE RAYO AND LEAVE IT—AND DON'T NEED TO WORRY! The flame regulator saves heat—makes a hatch on a gallon. Others waste heat, and take 3 to 5 gallons of oil every hatch. RAYO Patent Hatching Chart Insures Successful Hatches The most remarkable guide to hatching success ever invented! It tells you, day by day, exactly what temperature is required, what details are to be attended or watched, when to turn eggs, when to cool them and when not to. It is not given or sold with any other incubator. This chart and a \$1.50 hygrometer FREE with every RAYO. No Staying With the RAYO Bending over is HARD WORK. The RAYO is the only incubator with exclusive patents that enable it to use the transparent glass top. YOU CAN LOOK AT THE EGGS WITHOUT STOOPING! No more of the out-of-date small side doors! SAVE YOUR BACK! Fill Oil Tank Once a Month Others Need Filling Daily The RAYO is the only incubator that CAN use a big enough oil tank to last a MONTH! Do you get that? ONE FILLING TO A HATCH! Absolutely the only one! Others, with their two-by-nothing tanks, require refilling every day—21 TIMES THE RAYO—21 TIMES THE RAYO—21 TIMES THE RAYO! Learn why the RAYO is ten years ahead of all others! It quotes low, direct-from-factory-to-consumer prices—33 1/3 per cent less than we could sell the RAYO through dealers—and WE PAY THE FREIGHT. Write today for our FREE Catalog No. 15. INCUBATOR CO. 920 S. 13th St., Omaha, Neb. We Pay Freight'

No Days Like the Old Days.

There is no time like the old time, When you and I were young. When the buds of April blossomed. And the birds of springtime sung. The garden's brightest glories. By summer suns are nursed; But, O, the sweet, sweet violets, The flowers that opened first!

Pleasant Valley's Farmer Club

BY E. R. RODERT The Club's President

[Written for Farmers Mail and Breeze.] Editor's Note—The home of Pleasant Valley's Improvement Club is Prescott, in Linn county. A number of similar country neighborhood clubs have been formed in Kansas within the year and are making life more social, agreeable and profitable wherever they are in existence.

"Pure Bred Poultry vs. Scrub Stock." The club talked very freely on this topic and decided it would rather raise scrub or mixed breeds than purebreds for the reason that purebred stock is not so handy and scrubs are better rustlers and do not require the attention purebreds do.

At our next meeting "dairy cattle" and purebreds won out. The Jerseys and Polled Durhams were the favorites. "Crop Rotation" was the club's next subject, and several promised to follow the corn, oats, and clover rotation. I think it was one of our best meetings.

We later took up equal suffrage and Mrs. John Brown, a member of our own community, led the discussion in a very able manner. No one present opposed her argument though some members are not suffragists.

At a club social all donated milk. We bought the other ingredients for ice-cream, and bought cookies, and charged for the cream. The club cleared \$6. At another meeting the Rev. William Heiskell of Prescott, talked on "The Relation of the Farmer to the Church." Another time "Corn Cultivation" was the subject and deep plowing and thorough cultivation were discussed.

Prof. Frank Herrin of Little Rock, Ark., talked to us on "Books Farmers Should Read." We should first read the Bible, he said. We should cultivate a poetic taste; read fiction, not trash, but good fiction; travel, history, farm papers and magazines.

Farmers do not read enough. At our last meeting we had for a subject, "What Would I Do If I Had My Life to Live Over Again?" Most of the members thought they would be farmers, but better farmers.

None of our speakers are paid anything and we are at no expense except for janitor, oil and broom. We raise our money by giving the treasurer the right to levy an assessment of 5 cents per member when necessary.

After every discussion we have four or five songs and recitations. We also have singing by the entire audience which is a feature we enjoy very much. We have not found any use for the improvement committee. Our program committee has a leader for next meeting night and will select leaders for some weeks ahead.

In my opinion every neighborhood should have such a club and make it a community center if the church does not perform that office. We expect beneficial results from our club and hope that much and lasting good will result from it.

Making the Skunk Useful.

This winter my husband caught a skunk of medium size. I took the fat and rendered it into oil, which I find very valuable as a machine oil. This oil mixed with turpentine and applied to a child's breast is almost sure to break a cold.

I could not get along without Mail and Breeze.—George W. Arnett, Baldwin, Kan.

One Dollar

Is All It Now Costs to Have Your Seed-Grain Cleaned and Graded



Now that farmers everywhere are cleaning and grading their Seed Grain, the question is, how to get it done best, easiest and cheapest.

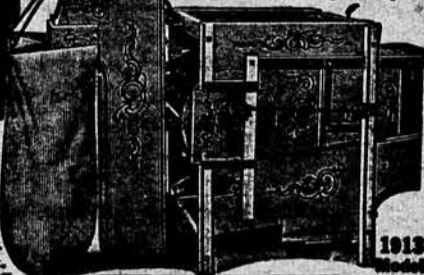
Your Dollar Returned if you want it. I don't want your dollar or want you to keep my "Chatham" unless it pleases you.

A Machine That Fits Your Farm After 40 years' experience, I know every grain and noxious weed grown in America.

Extra Screens and Riddles Free In case you want more or different screens, just write me and I will send them free.

MANSON CAMPBELL CO., Detroit, Mich., Kansas City, Mo., Minneapolis, Minn.

\$1.00 Brings It—Freight Prepaid



The CHATHAM Grain Grader and Cleaner

grain that you cannot get rid of, don't get discouraged. Write me.

Handles all Small Grain and Grass Seed My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc.

Special Corn-Sorting Attachment Last year I added a Corn-Sorting Attachment, which grades corn so that a round or edge drop planter drops the right number of grains in 8 out of every 100 hills.

Postal Brings My New Book on Seed Selection. Every chapter is highly practical and exceedingly interesting.

MANSON CAMPBELL CO., Detroit, Mich., Kansas City, Mo., Minneapolis, Minn.

Big Business for Poultry Advertisers

Never before so early in the season have we had so many letters telling of profitable results from our poultry advertising columns. It must mean that poultry breeders are having a splendid season and it must mean that Farmers Mail and Breeze which carries more poultry advertising than any other farm paper in the country is maintaining its great reputation as a poultry advertising medium.

SOME 1913 LETTERS.

I am sold out and have to return orders. Good stock and Farmers Mail and Breeze are the combination that do the business.—Geo. Bingham, Bradford, Kan., Jan. 30, 1913. An advertising medium your paper exceeds anything I have yet used. My old ad ran out and I have been so busy answering inquiries that I have not had time to write new copy. It surely is a business getter. Run the following ad and find check enclosed.—B. Frank Youngs, Howard, Kan., Feb. 1, 1913. I am sending you an ad to take the place of the one now in the paper. Am about cleaned up on cockerels. Have had good success with the ad. Inquiries for eggs are coming in already. I look for good business.—C. C. Lindamood, Walton, Kan., Jan. 30, 1913. I have sold all my cockerels. I think Farmers Mail and Breeze a great paper to advertise in.—Mrs. W. B. Stump, Blue Rapids, Kan., Feb. 1, 1913. I was with misgivings that I placed my first poultry ad in Farmers Mail and Breeze several years ago, but I can say now that it has proved a splendid medium. It brings me more business than I can handle. I have found Farmers Mail and Breeze very reliable.—Mrs. Tillie Whitis, Miltonvale, Kan., Jan. 24, 1913.

If you want more proof, ask for it. Circulation Over 104,000 Copies Each Issue Absolutely Guaranteed

We have a special, low rate for poultry advertising. Write for it to Farmers Mail and Breeze Topeka, Kansas

6 Beautiful Narcissus Silver Tablespoons FREE

To Match Our Teaspoons Extra Special 20-Day Offer To Mail and Breeze Readers!

Here is a chance for every housewife who reads the Mail and Breeze to secure absolutely free a set of 6 of our famous Narcissus Silver Plated Table Spoons.

Owing to our large purchases we have secured a price on these spoons which we believe is about one-fourth the price any local dealer would ask for the same grade of goods.

Full Standard Length and Weight These are not small sized dessert spoons which are usually offered as premiums.

These are not small sized dessert spoons which are usually offered as premiums. These spoons are all full standard table spoon size, 8 3/4 inches long—handle 5 1/4 inches long, bowl 3 inches long and 1 1/4 inches wide.—They are silver plated and handsomely engraved and embossed in the beautiful Narcissus design, same as the Narcissus teaspoons which we have been giving away for more than two years.

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 6 days and we will cheerfully refund every penny of your money.

Here Is Our Offer:

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

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

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

FARMERS MAIL AND BREEZE, TOPEKA, KANSAS.

Use This Coupon Now!

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

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

Name.....

Address.....

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



CROPS and FARM WORK

Growing Wheat Has Suffered Little to Date in Spite of Scant Moisture—Subsoil Still Moist But Surface Needs Rain Badly—Oat Seeding Under Way in Oklahoma— Many Farm Sales

(Crop Reporting Service of Farmers Mail and Breeze.)

The winter of 1912-'13 in Kansas will be remembered as one of scant moisture. For 15 weeks there has been scarcely a rain worthy the name and the snowfall has been limited to little more than flurries. But if there must be a drouthy season in the year, this is the best time to have it. Wheat has suffered very little as yet and the snow of the first of the month will tide it over for a week or two longer until early spring rains can get in their work. Some of the wise-acre are predicting a wet spring which is to be hoped may be half way true.

The continued good condition of the wheat has occasioned some surprise but those who have made careful examination say there is still a lot of moisture in the subsoil and where there is a well rooted growth the plants have tapped this supply. F. G. Stettinisch, of Marshall county, Kansas, says it is only the surface, 2 inches deep, that needs moisture to settle the soil and keep it from blowing. Below that the soil is moist enough.

Farming has started in good earnest in some Oklahoma counties. In Pottawatomie and Washington counties oat seeding is in progress and but for the snow and cold weather of last week other counties would be just as far along. Washington county will this year depend more on oats and Kafir than corn, says Reporter Brubaker.

One or two sales every day, says George Marshall of Leavenworth county, Kansas. Very little land is changing hands and most of the farmers selling out are joining the retired list in town. This means the farms will be tenanted—so much the worse for the farms, the owners and the universe in general.

With the memory of its banner crop of corn still fresh in mind, Smith county farmers are getting ready for an increased corn acreage this spring. Smith stood at the head of the list of Kansas counties in 1912 in size of corn crop raised.

In Woodward county, Oklahoma, hog cholera is still raging but the serum is being effectually used, says Reporter Boswell.

KANSAS.

Ellsworth County—A light snow Feb. 2 covered wheat nicely. Ground frozen with weather cold and changeable. Stock in good condition. Plenty of roughness but corn is scarce. Wheat 80 cents.—C. R. Blaylock, Feb. 5.

Jackson County—About 2 inches of snow in this county last week. Some benefit to wheat. Freezing weather since snow came. Many farm sales and stock sells well. Hogs \$7.30, wheat 80 cents, corn 43.—F. O. Grubbs, Feb. 8.

Republic County—Weather fine but too dry for wheat. The snow of Feb. 2 missed this locality and have had no moisture since last fall. Hard to tell just what condition wheat is in until spring. Sales numerous and every thing sells well.—Ed. Erickson, Feb. 8.

Stanton County—Not much moisture in the ground. Windy weather has sapped it out. Had 2 inches of snow Jan. 31. Thistles have drifted badly and are being burned whenever wind allows. Fences are piled full and wires have been pulled from posts. Milo 30 cents, eggs 15, cream 28, butter 25.—C. S. Greger, Feb. 1.

Johnson County—Ideal winter weather so far. The wheat is covered with a snow blanket but previous to that it had a strong, growthy look. Numerous sales being held. A farm changed hands here last week at \$131.50 per acre. Roads in splendid shape for weeks. The swine plague has disappeared.—L. E. Douglas, Feb. 8.

Grant County—Had about 6 inches of snow Feb. 1 and weather has been cold and stormy since. Snow still on ground. Wheat doing poorly but may come out yet. Cattle and horses going high at sales. Prospects good for railroad through center of county. Milo 40 cents, butter fat 28, eggs 17.—J. L. Nipple, Feb. 8.

Logan County—Weather cold and dry. Have had two flurries of snow but not enough to do any good. No other moisture all winter. Sales numerous and stock sells well, especially milk cows. No grain or feed selling. Cane threshing finished and most seed sold. Eggs 22 cents, butter fat 30.—A. O. Brooking, Feb. 8.

Leavenworth County—Light snow covers wheat which is of great benefit. Feed plentiful and stock looks well. One or two farm sales every day and most of these farmers are moving to town. No land changing hands. Stuff at sales sells high. Choice milk cows bring \$75. Hogs and

mules sell well but horses are a little dull.—Geo. S. Marshall, Feb. 8.

Shawnee County—Three inches of snow Feb. 2 put wheat in good shape for the time. Fine winter weather. Plenty of feed and stock doing well. Stock sells well at sales but implements are slow. Some hogs still dying. Prairie hay \$7.50 to \$9, alfalfa \$10 to \$12, hogs \$7, corn 45 cents, wheat 75, Irish potatoes 75, sweets \$1.50.—J. P. Ross, Feb. 8.

Smith County—Wheat seems to be O. K. but ground is very dry. Very little moisture this winter and roads are fine. Autos have been out all the time. Farmers breaking stalks on wheat and getting ready for spring work. An increased acreage will be planted to corn. Corn selling at out of sight prices. Alfalfa hay \$4 to \$10, corn 40 cents.—A. J. Hammond, Feb. 8.

Allen County—Fine weather for winter and stock doing well. Stock water scarce but have 4 inches of snow now. Land for rent getting scarce. Several farmers' unions organized in south part of county. Many sales being held and everything sells high. Cattle are highest in years. Hogs plentiful. Hogs \$7, cattle \$3 to \$7, hay 45 to \$10, corn 50 cents, Kafir 40, cream 29.—Geo. O. Johnson, Feb. 7.

Lyon County—A 5-inch snow covered the ground on Feb. 2, without drifting into hedges or roads. The snow was good for wheat, alfalfa and pasture. Plowed ground will be in good condition to harrow for early oats, and tame hay. Stock looks well with plenty of feed. Not much hog cholera. Loose hay \$7 to \$8, loose alfalfa \$10 to \$12, corn about 50 cents, Kafir 40 to 50, eggs 20.—E. R. Griffith, Feb. 7.

Marshall County—Wheat all right so far but needs moisture to keep surface from blowing. Two inches below the surface there is enough moisture. Not enough snow this winter. Some plowing done the last part of January. Several sales in the county and good horses, cows and hogs sell away up. Hogs \$7.25, hay \$10, wheat 78 cents, corn 45, cream 32, eggs 20.—F. G. Stettinisch, Feb. 6.

Morris County—The 3-inch snow of Feb. 1 still remains. Ideal winter weather for farm work and also for stock. Corn stalks furnished abundant feed and no stalk disease reported. Cows and horses sell high at sales. Some hog disease. Nearly all pasture contracted for at \$7 per head. Cane seed a drug on the market. Not much burning of chinch bugs. Hogs \$7.25, Kafir 40 to 50 cents.—J. R. Henry, Feb. 8.

Clark County—Wheat prospects not very promising as ground is so dry but have 3 inches of snow on it. A little plowing has been done. Few cattle on full feed and all fat hogs shipped out. Several bunches of sheep being fattened. All stock in good shape where cared for. Plenty of feed. Wheat, Kafir and cane about shipped out. Wheat 75 cents, Kafir 37, corn being shipped in at 56, cane \$1 per 100 pounds.—H. C. Jacobs, Feb. 4.

Gray County—Snow of 6 or 7 inches fell a week ago and most of it still on ground. Not enough to furnish much moisture. Much of wheat still lying in ground and will not germinate until moisture comes. Some Kafir and cane threshing still to do. Grain buyers are shipping a good deal of grain. Feed plentiful and stock doing well. Kafir 48 cents, wheat 70, cane seed 90 to \$1 per 100 pounds, cream 38, eggs 20.—A. E. Alexander, Feb. 8.

OKLAHOMA.

Pawnee County—Just had a 7-inch snow which was badly needed. Ground was dry. Grain scarce and not much hog and cattle feeding done here. Hogs \$6.80, corn 50 to 55 cents, oats 45.—V. Funkhouser, Feb. 5.

Payne County—Weather has been cold with 7 1/2 inches of snow during the week. Some plowing done. Large acreage of oats to be sown. Stock looks fairly well. Corn 55 cents, oats 50, eggs 20.—A. M. Leith, Feb. 8.

Lincoln County—Six inches of snow Feb. 2. Ideal winter weather and farmers getting ready to sow oats. Everything favorable for good crops. Stock of all kinds doing well. Butter 20 cents, eggs 25, chickens 9.—J. B. Pomeroy, Feb. 8.

Blaine County—Mild winter weather up to Feb. 1 when a big snow stopped plowing. A good share of plowing for oats had been done. A heavy sand storm Jan. 30 did some damage to wheat. Wheat looks rather poor but shows a good stand. Hogs \$7.10, wheat 80 cents, corn 42, eggs 18.—Henry Willert, Feb. 7.

Alfalfa County—Had about 8 inches of snow Feb. 1 and 2 which will furnish plenty of moisture for wheat for a time. Stock looks well but not many fat hogs in this neighborhood. Milk cows bring good prices. Not much real estate changing hands. Corn 57 cents, wheat 80, eggs 25.—J. W. Lyon, Feb. 8.

Woodward County—Fine snow Feb. 1 and 2 and no wind to drift it off wheat fields. About 8 inches fell and was just what wheat needed. Considerable hog cholera here and hogs are dying. Vaccine being used with good results. Wheat 80 cents, corn 42 to 44, Kafir 36, eggs 16, hens 10.—Geo. L. Boswell, Jr., Feb. 8.

Cleveland County—Having a touch of winter with several inches of snow Saturday. Not much drifting and snow was fine for wheat. Warm today and snow is melting. Some sales and a few farms changing owners. New tenants on many farms. Stock in good shape and market holds up well. Hogs \$7.50, stock cattle \$6.75.—H. J. Dietrich, Feb. 3.

Texas County—The 3-inch snow here was fine for wheat and farmers will now get

barley and oat ground ready as soon as possible. Threshing nearly finished. Many thistles being burned. Some horses sick with distemper. Nearly all broomcorn marketed. Wheat 78 cents, corn 40, barley 45, cane 80 and Kafir and milo 65 per 100 pounds.—F. Free, Feb. 8.

Pottawatomie County—Snow the first three days of the month was welcome as moisture was badly needed. Kafir threshing in progress and yields as high as 50 bushels are reported. A lot of plowing done. Farmers sowing some oats. Stock in fair shape but hogs are scarce. More buyers than hogs. Alfalfa hay \$14, corn 50 cents, potatoes 75.—L. J. Devore, Feb. 4.

Kay County—Had 3 or 4 inches of snow which is still on the ground. It looks as though no oats would be sown this month. The time for burning chinch bugs has passed as grass and trash is wet. We have everything in our favor here if we could only get rid of the bugs. Fine winter so far. Roads good and stock in good condition.—Sherman Jacobs, Feb. 7.

Washington County—Had a 7-inch snow Feb. 2 which is still with us. Wheat in fine shape. Some oats sown and the rest of the seeding will be rushed as soon as snow melts. Large acreage to be sown to oats and Kafir but less corn to be put out than last year. Everybody anticipating early spring. Stock doing fine with plenty of feed.—J. M. Brubaker, Feb. 8.

Garvin County—Snow and cold weather Feb. 1 to 7. Wheat is under snow and ice and is O. K. Wheat acreage is larger by 25 per cent than usual. Most oat ground plowed and a larger acreage being talked of. Some hogs dying. Very little interest in silos here. Some farmers burning out chinch bug harbors. Corn and oats 40 to 45 cents, wheat 85 to 90, cane seed 75 per 100 pounds, Kafir for seed 50.—H. H. Roller, Feb. 8.

Raising Beets For Cow Feed.

I am in the dairy business, and want to raise beets for feed. Is the sugar and stock beet the same? Would like information in regard to raising them.—J. S. A., Cleveland county, Oklahoma.

The sugar beet and the stock beet are entirely different varieties, writes J. A. Wilson, of the Oklahoma station, in answering this question. The sugar beet makes very good stock food, but for the dairy business the stock beet is very much to be preferred for two reasons: First, you get a third or more yield per acre, they are less expensive to raise and furnish so much more succulence that they are a more economical variety to use. Sugar beets containing large percentage of sugar are not especially a dairy food, inasmuch as the sugar content is more fattening than it is in stimulating milk production. The best variety of the mangel is the Golden Tankard. You can buy the seed on almost any seed market at about 15 to 20 cents a pound, about 20 pounds per acre will be sufficient. Plant about corn planting time in fall plowed, well tilled fertile land in rows about 3 feet apart and cultivate and thin out as you would ordinary beets or turnips. You will have great satisfaction in this crop as a supplementary feed for dairy cattle.

Hens Sometimes Lay Bad Eggs.

I often see complaints in the poultry papers from some one whose hens lay bad eggs. Poultry experts have been unable to find any reason for it. Some have said that if a hen was around the barn yard scratching in manure her eggs were likely to be poor; but one man wrote he had hens that were kept in sanitary quarters and still laid bad eggs. It was hard to believe until I had a hen myself that laid a bad egg. I could not find her because she laid only one. Not long ago my neighbor had a hen that laid bad eggs right along. He found out which hen it was and killed her. An examination showed an abscess in the egg organ. Every time an egg formed the matter from the abscess would leak into the egg, and that was the cause of the bad eggs.

Arthur J. Richards.

"ARKANSAS."

Arkansas is at the present and will no doubt forever remain the brightest jewel in the crown of Southern states. The population according to the recent government census has shown a remarkable increase. Arkansas conservatively estimated, is about one-third developed from an agricultural standpoint. While her forests contain more rare and valuable timbers than any of the other Southern states; realty values are lower, and cost of living is less than anywhere else on the American continent for the reason that everything necessary for the existence of man is produced within her borders. The tide of immigration is headed toward Arkansas. Realty dealers are reporting large sales of both improved and unimproved farm lands. Buy while the prices are low. We refer you to the real estate bargain pages or other pages of this issue. Look over the many bargains and write them your wants, always mention this paper when you write.

Fills 60-ft. Silos With Ease!

The day of the skyscraper Silo is here. No Silo too high for the Smalley! When George Crow of Hutchinson, Kan., got ready to fill his big 60-ft. Silo he promptly sent for a Powerful Smalley and patented chain-drive Blower to do the cutting and filling. "A. C. East of Berlin, Mo., has averaged 100 tons of silage per day since he bought a Powerful Smalley. Best time made, one 100 ton silo filled in five hours."

Real business farmers like Mr. Rust have no time to fool with the old flat-apron type of machine. They want this force-fed Chain-table, grip-hook kind, made by Smalley only. This they have a tremendous amount of work and do a cleaner job. No coarse, uneven silage. All uniformly cut. Which means greater tonnage per silo.

POWERFUL SMALLEY FORCE-SILAGE CUTTER

not only handles green silage, but is also a wonder at cutting dry feed. Handles alfalfa, for instance, to perfection. Letters in catalog prove it. Many farmers use their Powerful Smalley to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfit. No idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings. You won't know what a real Silo Filler is till you've seen the Powerful Smalley or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write now and you'll get this fine, useful Book by return mail.

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Box 2
Manitowoc, Wis.
Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Flows, Cob Grinders and Feed Mills.



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"Let Them Ring for You at Waterloo!"
—GALLOWAY

This is an offer to any young couple who is contemplating marriage. If you will come to the Galloway Agricultural Club in Waterloo, Iowa, and have the knot tied here, I will pay for the license, furnish the minister, flowers, music and a fine wedding dinner—all free! And later I'll also give the bride and groom a handsome present.

Let Me Entertain You

I want Farmers and their Families to visit me here at Waterloo. Come on over while you've got time for a vacation. I'll take care of you—free—at our splendid \$50.00 Agricultural Club, planned and built for my Farmer Friends. Here's eat, music, good company—everything you could want. Last week over 500 Farmers visited my big chain of factories. Many of them bought Engines, Spreaders, Cream Separators, etc., at a big saving, direct at factory prices. No obligation to buy, though. Just come and spend a day or a week, if you like, as my guest. I'll give you the time of your life.

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If you cut out this "Ad" and bring it with you, I will give you a special 5% discount on your purchases while here. This will help pay your railroad fare. And remember, your expenses are paid while in Waterloo.

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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 5 pages, artistically decorated, with 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-painted with silk cord, all for only 10¢ out of our 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.

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Would you like a steady job selling my goods, starting right away, earning \$30 a week, with a chance to be promoted to a position paying \$5,000 yearly. No experience is required. My agents have steady employment the year round. I am ready to give you a position right now where you can make big money quick. Just write me a letter or postal today sure and say: "Mark the address about the position you offer" and mark the address Personal for E. M. DAVIS, President E. M. DAVIS CO., A47 Davis Block, Chicago

The Other Side.

You may talk about your country life and call it mighty fine; How in rich cream you wallow and at the top notch dine, But I'd live on smoke and paving, yes and oyster shells to boot Way up in some chimney corner 'mid the gas fumes and the soot, And I'd call it nearer heaven than in this world I ever got Though the bacon's on a fryin' and the taters smokin' hot; Though the meek eyed cow is standin' in the clover to her knees, I know how she stands for milkin', I've been present, if you please; And the golden rolls of butter about which the poets rave Have caused the farm wife so much bother that she doesn't dread her grave, And the musical reception the birds give to the dawn; Yes, the chickens crow and cackle till you wish you'd ne'er been born, And the cockleburrs and chiggers all take turns a gouglin' you, (Novelists just skip those items and talk on about the dew). Oh, to live back in the city where the newsies screech and yell, And the shop windows sure a showin', always something new to sell, And the gas lights glare and glitter on tower, peak and dome; Don't forget I'm back to stay there and I call it "Home, Sweet Home."
—Mrs. Lillian Owen.

Building a Farm Phone Line

HOW TO ORGANIZE.

These letters are in response to an inquiry submitted by a reader of Farmers Mail and Breeze. The inquirer lives in a locality where farmers are having trouble with a company in the matter of charges and service and are therefore thinking of organizing another company.—Ed.

Mr. Editor—To organize a mutual telephone company a number of farmers should call a meeting and elect a president, vice president, secretary, treasurer and board of trustees to have charge of the line and enforce the rules. A committee may be selected with power to buy material and look after the construction of the line. Generally, all members work together to haul the material, fasten brackets and insulators, and set poles. But a good lineman should be engaged to fasten wires properly and install the phones so as to insure a good working system. There are a number of telephone companies who advertise in farm papers to furnish everything needed.

Here in Pierce county there are about 15 farmers' telephone lines, all centering at Pierce with the town exchange. Our own company consists of 16 members, which is about the limit for good service. Each member pays \$2.50 per year for the privilege of connecting with other farmers' lines and with phones in town. Regular service fees are charged for long distance telephoning outside.

Charles Lederer, Sr.

Pierce, Neb.

History of a Nebraska Company.

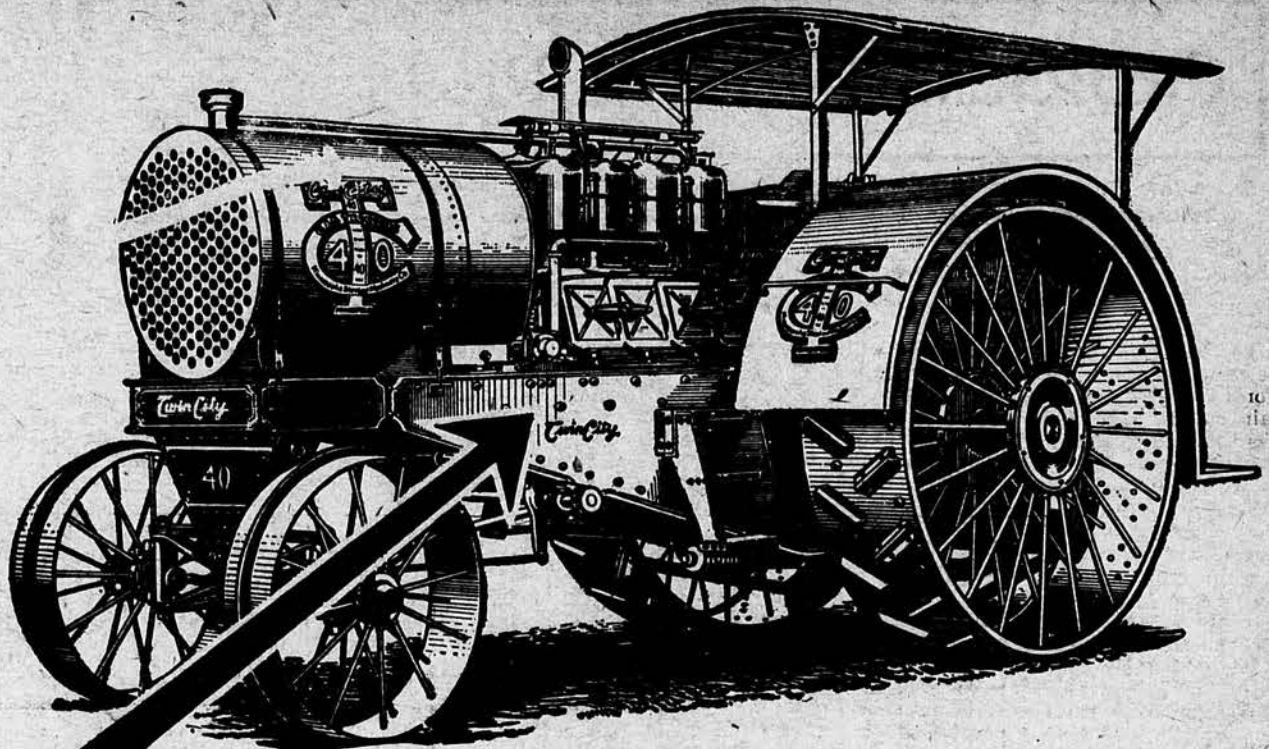
Mr. Editor—I belong to a farmers' company organized four years ago. We get our supplies from a company in Elkhart, Ind., and use No. 12 wire and cedar poles. Cypress poles are not good for this purpose. Every man on the line put in his own connections himself. The stock was sold at \$50 per share. This paid for the main line. In addition one pole was allowed to each shareholder to make connections with his house. We pay 25 cents per month as a switchboard fee. Twenty poles to the mile are required. If more than one wire is put on, use 24 poles. Poles should be 25 feet long where the line passes over crossings and not less than 20 feet for all poles in between. Get the phone with a condenser and you can put more of them on the line. The phones cost us \$10.50 each. The telephone supply companies will send a book on how to build a line to anyone writing for it.

E. J. Woodruff.

Stamford, Neb.

Have a Competent Overseer.

Mr. Editor—I have been a member of a successful mutual telephone company for seven years. We organized with 11 members, elected officers, and purchased our supplies—poles, wires, phones, etc., through our local hardware merchant. We had a competent man with helpers erect the line—18 poles to the mile—put in the phone boxes and make all connections. When completed we had a line seven miles long running into town and connecting with the central there. The cost, all told, was \$394.26 or \$35.85 per share holder. Each member pays \$3 per year for connection with the town central, keeps the line in repair along his



That Steel Frame

Is the sturdiest piece of construction ever put into a traction engine. It is made of steel ship channels and steel plates—"built like a bridge"—riveted, not bolted together, and braced with steel angles. It's impossible for even the most excessive vibration of the engine to loosen it, impossible for the severest pulling strain to break it. This rigidity reduces wear on the bearings and gears by preventing vibration from the motor.

And yet even with its unusual strength and steel construction it is a lighter tractor per horse power than any other tractor. Uses less of its power to pull its own weight—has a greater pulling power.

Twin City Tractors

Two Sizes—25 and 40 Tractive H. P.

The general design—motor in center of frame, three point suspension, rear wheels turning on a live axle, gives the Twin City Tractor a durability and a well balanced steadiness of motion not found in any other type of construction; permits easy

"traveling" over both rough and smooth ground.

It has many other qualities which are worth your most careful consideration. They are explained in our Tractor books 10F and 12F. Write for them.

Minneapolis Steel & Machinery Company

Cuddy Self Steering Device Operates on Twin City Tractors

Minneapolis, Minn.

WE ALSO CONDUCT A TRACTOR SCHOOL

farm, buys his own batteries, and pays a small assessment into the treasury each year. If Mr. H. wants a copy of our by-laws I will gladly send one.

Carl E. Scott.

Moundridge, Kan.

A Big Saving in Narrower Roads

THIS IS IOWA'S POLICY.

If Kansas would make the public highways narrower as Iowa proposes to do, thousands of acres of rich, agricultural land worth millions of dollars could be restored to farmers. Governor Carroll, of Iowa, proposes to cut the highways of that state from 66 feet to a uniform 40 feet. By doing it he says he can save 300,000 acres of land valued at 30 million dollars.

A big saving for Kansas could be made in the same way, says W. S. Gearhart, state highway engineer at the Kansas Agricultural college. A 40-foot road is plenty wide for traffic anywhere in the state, he says. Any Kansas road, Mr. Gearhart says, properly graded and maintained, which is 30 feet wide between the centers of the ditches on either side of the road, will accommodate

any kind of traffic so far as width is concerned. But the ditches should be well formed with the bottom level not more than 24 to 30 inches below the crown of the finished road.

"A width greater than is necessary to accommodate the traffic," said Mr. Gearhart, "only makes a place for weeds and brush to grow. It furnishes also, an opportunity for inexperienced road officials to waste public funds by trying to grade up and maintain roads 35 to 60 feet wide between the centers of the ditches.

"On roads having little traffic the width between the centers of the ditches may be reduced to 20 or 25 feet. This should be done, at least, until more funds are available. Roads 20 to 30 feet wide are much cheaper to grade, drag and maintain when properly crowned, than wider ones. Any excess funds would better be spent in reducing grades and properly surfacing rather than making the road wider. It practically is impossible, with the funds that most counties have, to construct and maintain roads 35 to 60 feet wide.

"Missouri's cross-state highway from St. Louis to Kansas City, and the Santa

Fe trail from Kansas City to Pueblo are graded 30 feet between the ditches and no one objects to the width of them. The Meridian road, the Sunflower trail, the Golden Belt road, and other cross-state highways in Kansas are to be constructed the same width. On all of these roads it has been recommended that all culverts be constructed with a clear width of 20 to 24 feet."

Dont's for Poultry Exhibitors

Don't enter a bird—

With sprig on comb, this is a disqualification.

Birds with crooked beak.

Birds with very crooked toes.

Barred Rocks with black feathers.

Don't forget to attend poultry shows.

With wry tails (turned to one side.)

With stubbs on legs of smooth legged variety.

Don't get discouraged if you fail to get the blue ribbon.

Don't forget to dust with insect powder and rid of vermin.

The Brighter Side.

Someone committed a murder last night,
But hundreds of thousands were kind,
For the wrong that is done is forever in
sight,
To the good we are fearfully blind,
Someone deserted his children today,
But millions of honest men live;
The bad deeds are not such a fearful array
Compared to the good that men do.

Somebody stole from his brother last night,
But millions of honest men live;
Someone was killed in a murderous fight,
But thousands are glad to forgive
Their brothers the wrongs that were fancied
or real;
The crimes that we hear of each day
Compared to the good deeds that we could
reveal
Make not such a fearful array.

I would answer the men who stand up and
declare
That the world is much given to vice,
That the sum of man's crimes every day
everywhere
Can't compare with man's sweet sacrifice.
That for every black soul there are thou-
sands pure white.
The sum of the sinners is few,
And I know in my heart that the world is
all right,
When I think of the good that men do.
—Detroit Free Press.

Clover's Work for Nebraska

BY J. O. SHROYER.

[Written for Farmers Mail and Breeze.]

JUST now it would seem as if alfalfa was the real queen of the prairies, but if you give it one long careful thought and consider all of Nebraska you will speedily arrive at the conclusion that we should rather crown clover. Mixed farming knows no better plant. Clover, corn and oats will keep up a farm, enable the owner to send away good hogs and cattle and live about as easy as any phase of farming can afford.

Every farm in the eastern part of Nebraska ought to have a certain acreage of alfalfa, in proportion to the ideas of the owner, but it ought to have a larger acreage of clover where it will grow. It should be on every cornfield at least once every five or six years. Where clover is standing, little ground is lost by washing. We know of one man who sows clover at every opportunity, even in stubblefields that he expects to plow up that fall or the next spring. His farm always was a good one and is now better than ever. He never has poor stock and seems to be happy and contented even when sowing \$15 clover seed to plow up the next spring before he expects to harvest a crop. He says he gets enough fertility to pay him for the seed and time and some pasturage in the interval.

We never heard a man, who had a good field of clover, say he wished he had not sown it, but we have often heard those who did not have it, wishing they had sown a certain field. That is what ails certain rented farms. If Nebraska is going to pass paternal legislation, such as compelling us to keep the heifer calves we would advise them to begin by compelling every landlord

to have one fourth of his farm in clover each year, or at least sow down that much.

We have three of these wonderful clover plants. At least two of them are wonderful. And some people are beginning to make us believe the other one is.

They are Red clover, alfalfa, and sweet clover. I always shy on the Sweet clover subject, as I lived right where it was somewhat widely known and outside the bee cranks, of which I was one, the stuff was an outlaw. I have heard one of the best farmers of southeast Nebraska declare he would whip a man almost to death if he caught him scattering Sweet clover along his roadside. Some years ago I advocated the idea that in the sand hills where some generous growing plant was needed, Sweet clover might become successful.

From all reports, cattle will eat it if starved to it, or if it is well cared for

plows easily and is soon put into planting condition.

As to alfalfa, we have used it for years and find that it is all that the most devoted advocates claim for it, except in our case we did not find it a good rotation crop. First, because it is hard to establish and one does not succeed in getting a certain piece down to a good stand nearly as regularly as one would wish, thus knocking out all calculations along that line. Then it is a hard crop to give up, once you have gotten a good stand, and almost every piece we have seen was allowed to stand too many years for the good of the remainder of the farm. Then unless the year was very unexceptionably favorable, the corn grew extravagantly and was unable to keep up with the start when dry times came on and the result was blasted hopes. Of course a lot of the genuine alfalfa cranks will jump on this idea



White clover as a lawn grass. We will hang our scythe upon a catalpa tree, for such a lawn is too pretty to mow.

at the proper time, it will make good hay. But hazel brush is a good comparison to it if it gets full growth.

You would have to cut it, busy or not. Even in rainy seasons you could not let it grow. As I do not care to get scalped and by some kind beekeeper at that, I shall call Sweet clover an old, untried, problem to most of us. We have known it long, but loved it never.

However, we have a neighbor who has used only these three clover crops for a quarter of a century or more. He only runs 240 acres, seldom or never buys a load of corn and keeps about a score of good cows, feeds the calves, he they heifers or steers, fattens a car or two of hogs each year and has two big hay sheds to hold his clover. Utilizing all the oats straw and stalks, he gets along about as easily as any man I know and his farm is growing a little richer year after year. You do not have to worry about turning under a clover field, as it

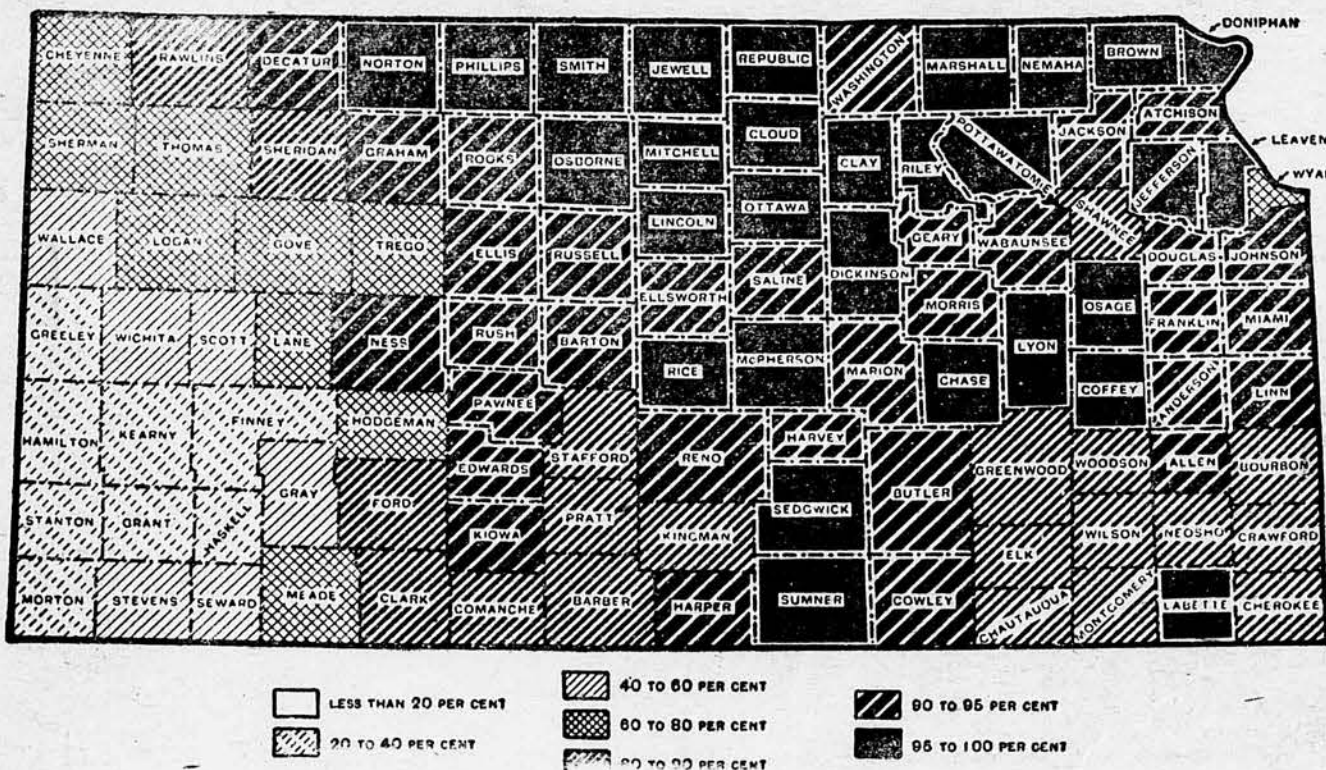
with big feet, but let them jump. I love alfalfa as well as any of them and like to see my friends defended. But clover is after all the one we should select if we were compelled to cut down our field of legumes, because it is the best rotator, renovator and forage plant combined, that we know.

All over Nebraska are many bare lawns, yards that ought to be beautiful, but sustain too many weeds and look ragged with bare dirt and unsightly muddy patches. Scatter a lot of White cloverseed over them, keep off the chickens for a year or so and note the transformation. With a little sprinkle of bluegrass and a good stand of clover, you will have a lawn that is pretty even if you have no time for the lawn mower.

Careful selection of setting eggs pays well. Leave out all eggs that are too large, too small, misshapen, or abnormal in any way.

Percent of Kansas Land Being Farmed

Kansas' Total Area in Farms 82.9 Percent—From U. S. Census Report



Make better crops with less work
Get best results without drudgery and long hours.
No. 72 Planet Jr. Two-row Pivot-Wheel Cultivator, Plow, Furrower and Ridger cultivates 2 rows 28 to 44 inches apart of potatoes, corn, beans, etc. at one time. Works great in check-rows, crooked and irregular-width rows. Can be equipped with roller bearings, spring-trip standards and discs. *Send postal today.*
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I want you to have this book even if you don't need a Buggy this year. Send me your name and address on a postal—**TODAY.**
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COME to See Me at Waterloo!

Galloway wants you as his guest at Waterloo—COME! Jump on the train and come quick—spend at least a day or two—stay a week if you like—go through the great Galloway Factories and see for yourself how and why Galloway saves his Farmer Friends big money on the best Engines, Manure Spreaders and Cream Separators.

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Everything free—no expense. From the moment you get off the car at Galloway Station I foot the bills—you're visiting me. Stop at the \$60,000 Agricultural Club built for the Farmers. Splendid meals; master plenty of good company—over 600 of my farmer friends here last week!

No Obligation to Buy!

Just come and look around—enjoy yourself to the limit—but remember you're under no obligation to buy any Galloway goods—not the slightest. I'll show you the finest chain of factories you ever saw, explain everything—give you my lowest special factory-to-farm, one-small-profit prices. If you see a big bargain and want it, all right—if not, all right. Just suit yourself!

If You Can't Come to See Me Now, Write Any Way!
Wm. Galloway, Pres. Wm. Galloway Co., 20C Galloway Station, Waterloo, Iowa

"Little Wireless Phones"
For the ears that will cause you to **HEAR**

What eye glasses are to failing sight, my invisible ear drums are to lost or failing hearing. Just as simple and common sense and on the same principle, for they magnify sound as glasses magnify sight. They are really tiny telephones of soft, sensitized material, safe and comfortable, which fit into the orifice of the ears and are invisible. They can be removed or inserted in a moment and worn for weeks at a time, for they are skillfully arranged for perfect ventilation and anti-friction. These little wireless 'phones make it easy to hear every sound distinctly, just as correct eye glasses make it easy to read fine print. Among the nearly 400,000 people whom they have enabled to hear perfectly, there has been every condition of deafness or defective hearing. No matter what the cause or how long standing, the case, the testimonials sent me show marvelous results.

Common-Sense Ear Drums
I have restored to me my own hearing—that's how I happened to discover the secret of their success in my own desperate endeavors to be relieved of my deafness after physicians had repeatedly failed.

It is certainly worth your while to investigate. Before you send any money just drop me a line. I want to send you *free of charge* my book on deafness and plenty of evidence to prove to you that I am entirely worthy of your confidence. Why not write me today?
GEORGE H. WILSON, President WILSON EAR DRUM CO., Incorporated
914 E. 12th St., Topeka, Kas.

Graft on the Farm.

Said the scrub-bred cow to the high-bred cow. "Say, you are an easy mark, I vow. You eat no more than a scrub like me, You're treated no better than I can see; Yet you give that farmer three times as much In payment for board and room and such; Three times the milk—and it's better, too; I'd hate to be such a fool as you!"

How Cholera Victims Fared

SERUM USERS AND OTHERS.

[Prize Letter.]

Mr. Editor—In the spring of 1911, I crossed my neighbor's pasture and noticed several dead calves lying about. I was told they had died of blackleg. I then asked him why he did not vaccinate them and he informed me he did not believe in vaccination of any kind. Another friend lost nearly 100 hogs with cholera and when I asked him why he did not send to Manhattan for serum, he said the college veterinarians were a lot of humbugs scouring the country for long-tailed hogs, and that the vaccine they produced was a fake.

Of course, there are a few Kansas farmers that have "it" as bad as these two. I believe such men interfere a good deal with the work the station is trying to do for the farmers, and that is why I am knocking on the knockers.

They fall I had 100 hogs and of these, 10 sows were shut up in a small breeding yard about 50 yards from the feed lots, where the remainder were following cattle. Those in the feed lots began dying and as I was unable to get serum I just had to let them go. Later I secured a vaccine, not a serum, from the Pasteur institute of Chicago with which I vaccinated the sows and some pigs. I had been careful to keep the sows' quarters clean and saved them but do not know whether to credit the vaccine with it or not. The pigs all died but may have had the disease before they were vaccinated.

In March 1911 I bought 30 fall pigs that were said to have been vaccinated with the Pasteur stuff. In 30 days they were sick. At that time the college could not furnish the serum. My sows were farrowing at the time so I nailed them up in the farrowing house to expose them as little as possible. A few weeks later I was able to get the serum and bought \$18 worth which was enough for 10 sows, the boar and 70 pigs. I then turned these sows and pigs into the infected feed lots and have not had a sick hog since. My experience is not quite as conclusive as that of some others who used serum when some of the hogs were already sick, but it is sufficient to give me plenty of faith in serum vaccination when it is properly done with the right kind of serum.

Dwight, Kan. Ralph B. Felton.

No Loss After Vaccinating.

Mr. Editor—In the spring of 1910, cholera broke out in my hogs and I sent immediately to Manhattan for serum. It was a week before I got it and during that time we lost 13 hogs. Two others were nearly dead and we knocked them in the head. We vaccinated the remainder, 52 head, and never lost another animal. In this lot there were 12 hogs and the rest were fall pigs. It cost just \$22 to vaccinate them. Some of our neighbors' hogs got the cholera this fall and they had them vaccinated with some stuff they got from Indiana. Nearly all their hogs died.

Glaseo, Kan. Clyde Hussey.

Health Builders for Hogs.

Mr. Editor—I read Mr. Porter's experience with carbolic acid as a cure for hog cholera. It is not necessary to use it in such large amounts. About a half teaspoonful to a bucket of slop or milk is

enough. Keep the hogs free from worms by putting a teaspoonful of turpentine in each bucket of feed twice a week. A little lye in the slop also keeps down worms. Put wood ashes in the pen and mix some lime and a little salt with them, also throw corn on the ashes when feeding the hogs. We have been using these preventives for two years while our neighbors were losing hogs all around us. We begin as soon as we begin feeding new corn. If there is cholera in the neighborhood, start sooner.

Mrs. M. Hatfield.

Lowmont, Kan.

Vaccine Did Not Save Them.

Mr. Editor—I lost only 29 head of hogs out of a herd of 30 with cholera. After the first one got sick I vaccinated the rest of them but they died just the same. I fed everything I could think of before they got sick but it did not prevent the disease. I think a good deal of this serum put out for vaccination is a humbug. My neighbor had his hogs vaccinated and about a month afterward they took the cholera and are still dying every day. He fed preventives of all kinds but they did no good.

Ed. Leffler.

R. 3, Burlingame, Kan.

[Brother Leffler would have added to the interest of his letter by stating whether he vaccinated with the state serum or a commercial article.—Ed.]

Mr. Porter's Shoats Doing Well.

Mr. Editor—I promised to let you know how my sick shoats came out after I gave them the carbolic acid. I still have my nine shoats and they are doing well. That's about all there is to say. I shall swear by the acid treatment hereafter but one must give them plenty of it. I had tried it in small doses several times before but to no effect.

Osborne, Kan. R. T. Porter.

Don't Buy From Unknown Firms.

For some time we have been wishing to try Longfellow potatoes, and last spring an agent dropped in representing what was to us an unknown firm. It had this potato variety on its list. We ordered half a bushel at a long price. When they came we were busy, so had our mail carrier bring them out. They looked like Colorado White Pearls just out of cold storage and we are convinced that is what they were. Not more than half of them came up. What did grow will not make half a bushel per row alongside Eurekas that will make 4 bushels. Had we bought from a reliable, old-time seedsman we would have got what we sent for. After this, agents representing unknown firms will get quick action on them on this farm.

A leaky pail set in a pan makes a good water fountain for chickens.



Twenty-eight steers Killed by Lightning. This man appreciated what it means to carry a policy in the Farmers Alliance Insurance Co., of McPherson, Kan. It means, on Live Stock, TWO DOLLARS FOR ONE MORE THAN IN ANY OTHER COMPANY.

DURING the past 24 years Kansas farmers gave the Farmers' Alliance Insurance Co., of McPherson, practically 130 millions of Fire, Lightning, Windstorm, Cyclone and Tornado insurance.

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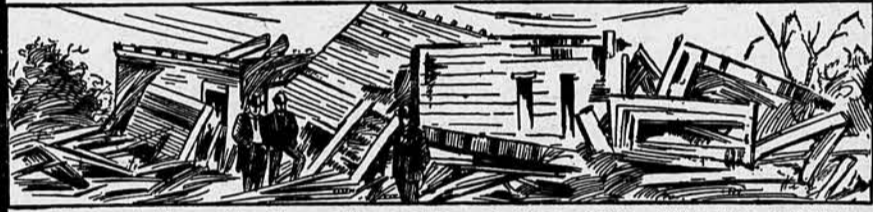
Suppose the total insurance given the old line companies by Kansas people during the past 20 years—Four and Three-Quarters Billions—had been placed with the mutuals of Kansas. In round numbers the saving would have been Forty Million Dollars—enough to have established Four Hundred National Banks with a capital of \$100,000 each.

And the startling feature of the situation is this: The records of the State Insurance Department show a greater percentage of failures and retirements among the Old Line companies than among the mutuals—official evidence that the mutuals are safer.

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When does your old line policy expire? Write us.

Farmers Alliance Insurance Co. McPherson, Kansas



Scene at Marquette, Kan., after cyclone of May, 1905. Fifty-five buildings completely demolished. The Farmers Alliance Insurance Co. of McPherson had its adjusters upon the spot and every loss paid within 24 hours.

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2 for 25 in. high fence; 17 1/2-46, a rod for 47 inch high stock fence; 25 1/2-26 a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 50 rod spool, \$1.55. Catalog free. **INTERLOCKING FENCE CO.**
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We make 28 styles of fence at 11 1/2 per rod and up and 54 styles of gates. Send for big four color catalog with lowest factory prices and find out about our 30 day Free Trial to Fence Buyers.
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FOSTER'S FORECASTS

(Copyright 1912 by W. T. Foster.)

To Farmers Mail and Breeze:
Washington, D. C., Feb. 15.—Last bulletin gave forecasts of disturbances to cross continent February 14 to 18 and 19 to 23, warm waves 13 to 17 and 18 to 22, cool waves 16 to 20 and 21 to 25. First part of this twelve days will bring a marked warm wave and the last part a decided cold wave. Great fall in temperatures February 17 to 25. Most rain or snow 15 to 19. Somewhat stormy, but no dangerous storms before Febru-



(For Better Understanding of the Forecasts.)
Broken lines separate map into eight great valleys including the Northwest and Southwest, and Eastern Sections including the Lakes, the Northeast the Southeast weather districts, named North Pacific Slope, South Pacific Slope, Great Central and Washington. The dividing line bisecting St. Louis is meridian 90.

ary 18 or 19. Then a period of remarkable winter storms from near 20 to 28. But this will not bring as severe storms as occurred first half of January.

Next disturbance will reach Pacific coast about February 24, cross Pacific slope by close of 25, great central valleys 26 to 28, eastern sections March 1. Warm wave will cross Pacific slope about February 24, great central valleys 26, eastern sections 28. Cool wave will cross Pacific slope about February 27, great central valleys March 1, eastern sections 3.

This will be a cold period and one of the best ice making dates of the winter in northern sections. Not much rain or snow, but the precipitation will occur in the wave that will drift across continent 22 to 26.

Pump-Irrigation Increasing
BY E. B. HOUSE.
Colorado Station, Ft. Collins.

[Written for Farmers Mail and Breeze.]
Irrigation by pumping is growing all over the country. We have now hundreds of pumping plants where we had none a few years ago. It has its advantages and its disadvantages, it usually costs more than gravity irrigation, but it is available at any time and is a paying proposition on many of our farms. India irrigates over 3 million acres from wells, and the time will come when America will surpass this. A pumping supply of about 450 gallons a minute will be ample to irrigate 80 acres. One thing to remember is, when water is forced through a pipe, the faster it travels, the greater the loss in friction. This loss is equivalent to increasing the pumping head, hence it is better to use large pipes instead of small ones; it is also best to have as few turns or elbows as possible and it is simply a question which must be decided for each individual plant as to what size pipe will be the most economical. The larger the pipe the more it costs, and yet with large pipe the engine may be smaller and less fuel required to pump the required amount of water.

Will Fruit Trees Grow From Seed?
The question is often asked whether the peach or other fruit trees will reproduce themselves in kind and quality from seed. The so-called Indian peaches will and a few of the budded varieties will almost reproduce themselves. Of our budded varieties only about 40 per cent of the seed will grow and of our seedling sorts about 96 per cent. About 35 to 90 per cent of seed from other trees will grow. Fruit trees which grow alone, distinct from any other sorts are more apt to reproduce themselves from seed for the bloom is not fertilized by other varieties. The same holds good with cherry and plum seed. I have planted more than 500 plum and cherry trees and not one has been as good as

the parent tree. I have been successful in getting seed to grow in well pulverized soil. Sow the seed, cover with rich soil from the woods where leaves have rotted best; cover the seed, and put about a gallon of unleached wood ashes on top to every 2 feet square. I cover peach seeds about 4 inches deep, plum 4 inches, cherry 3 inches, apple and other small seeds 1 1/2 inches. This is for spring planting after the seeds have been through a process of freezing and thawing. **Jacob Faith.**
Eldorado Springs, Mo.

A Study in Farm Expenses
SOME GOVERNMENT FIGURES.

The cost of living and of carrying on farm operations has increased during the last 10 years, but the figures that show the exact increases have not been available until recently. Last year the bureau of statistics sent out inquiries to a large number of retail dealers asking prices for 1899 and 1909 on a number of different articles in more or less general use in homes and on the farm. The replies were tabulated and averaged up as follows:

Article	1909	1899
Coal oil, per gallon.	14.2 cents	15.1 cents
Coffee	18.9 cents	17.2 cents
Lard	15.7 cents	10.3 cents
Sugar	5.73 cents	5.27 cents
Brooms, each	44 cents	26 cents
Fruit jars, per dozen	78.4 cents	72.8 cents
Wooden wash tubs	\$2.6 cents	70.4 cents
Overalls	30.6 cents	65.6 cents
Calico, per yard	6.6 cents	5.2 cents
Muslin	9 cents	7.2 cents
Axes	89.8 cents	82.6 cents
Pitchforks	56.8 cents	50.8 cents
Wire fence, per rod	36 cents	34.1 cents
Flour, per barrel	6.30	4.76
Stoves	21.80	19.70
Rubber boots	4.18	3.24
Shoes, brogan	1.94	1.48
Barb wire, per 100 pounds	3.16	2.96
Nails, per 100 pounds	3.15	2.98
Cream separators	59.19	64.95
Grindstones	3.78	3.44
Manure spreaders	103.33	100.55
Mowers	47.23	46.01
Wagons, double	68.83	60.72
Paints, ready mixed, per gallon	1.62	1.29
Blender twine, per 100 lbs.	9.74	9.06

But Here's Where the Shoe Pinches.
But there is another side to the story according to the government figurers. They have taken this increase in price of living and farming necessities and compared them with the increase in the price of the main farm crops, corn and wheat. The following table gives the amount of some of the articles enumerated above that could be bought with a 1-acre yield of corn or wheat in the two years, 1899 and 1909:

Article	Corn		Wheat	
	1909	1899	1909	1899
Coal oil, gallons	107	66.4	110	48.3
Coffee, pounds	80.4	49.5	82.6	42.4
Flour, barrels	2.4	1.8	2.5	1.5
Lard, pounds	96.8	82.6	99.5	70.9
Sugar	265.3	161.5	272.6	138.5
Brooms	34.5	29.8	35.5	25.5
Fruit jars, dozen	19.4	11.7	19.9	10
Overalls	18.4	12.1	18.9	10.4
Wash tubs	18.9	13	19.4	11.1
Rubber boots	3.6	2.6	3.7	2.3
Shoes	7.8	5.8	8.1	4.9
Calico, yards	230.3	163.7	236.7	140.4
Muslin	168.9	118.2	173.6	101.4
Axes	16.9	10.3	17.4	8.8
Barb wire, pounds	481	297.5	494.3	246.6
Nails, pounds	432.5	285.6	495.9	245
Pitchforks	26.8	16.8	27.5	14.4
Wire fence, rods	42.2	25	43.4	21.4
Paints, gallons	9.4	6.6	9.6	5.7
Blender twine, lbs.	156.1	93.9	160.4	80.6

Dry Cellar Floors Possible
HOW A READER DOES IT.

Mr. Editor—Here is a sure way of keeping the cellar dry. The drawing shows the wall made of stone but the plan may be used with concrete walls as well. A good tile drain is laid around the outside of the wall about level with the floor. Then just inside the wall a gutter is left in putting in the cement floor, as shown. This scheme prevents water seeping into the cellar but in case any should get in, the gutter will keep it from running over the floor.
H. N. Kerr.
Rosebud, N. Mex.

A Friend of the Farm Folks.
Mr. Editor—Best wishes to the Mail and Breeze. It is my best paper. It is the farmer's friend.
William Littlefield.
Belvue, Kan.

Our experience is that it pays to feed poultry a regulator or conditioner.—**M. B. S., Brashear, Mo.**

Galloway
Invites You to Enjoy Yourself at His Expense

Right now's the time, boys, to take that little trip to Waterloo. You've got the time, and it will pay you big to see with your own eyes the wonderful money-saving bargains to be snapped up right in the big Galloway factories. Bill says **"Come to Waterloo"**

Be my guest at my expense. Whether you stay a day or a week, I'll entertain you at our \$50,000 Agricultural Club, planned and built for the comfort and pleasure of my farmer friends. Over 500 here last week had a ripping good time. Some bought some didn't. It doesn't matter. You're under no obligations whatever to buy.

See My Big Factories!
A great sight! Worth traveling many miles to see. I will show you through an enormous chain of factories—largest in the world selling direct to farmers—hundreds of men turning out a flood of Engines, Spreaders and Cream Separators whose only a few years ago was a cornfield on the edge of Waterloo. Don't miss this!

I Will Expect You Sure!
Now, don't disappoint me. I'll look for you and will make your visit a big surprise. You'll go back, and tell your friends: "I never had such a fine vacation." If you can't come just now, write me why.

WILLIAM GALLOWAY, Pres.
WILLIAM GALLOWAY COMPANY
20 E Galloway Station, Waterloo, Iowa

PATENTS

No attorney can show a better record than mine. More than half of all patent applications are rejected by Patent Office, chiefly because of attorney's negligence, or inexperience. Some attorneys are more eager for fees than their client's success. In my 20 years' practice, I have lost less than 5 per cent of applications. Think of that—not 5, but 5 per cent. I get patents that pay.

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Here is the most unique, popular novelty of the year—a nifty little leather holster and metal gun, an exact duplicate of the "Big Boy" and Army Colt's, with bright polished barrel and cylinder, black handle. Gun 2 1/2 in. long. Holster 2 1/2 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 high western novelty. Sold in big cities at a real price. Send 10c to pay for 3-months trial subscription to our big farm and home magazine and receive the COWBOY WATCH FOB and GUN free.
VALLEY FARMER, Dept. Fob-14, Topeka, Kan.

Friends.

I had a friend. I loaned him ten. I haven't seen My friend since then. Another one Touched me for five. I doubt if he Is still alive. Went on a note To help a third; He may be dead, I haven't heard. I guess it's true That in the end A feller is His own best friend. -Boston Globe.

New Ideas on An Old Subject

BY W. C. PALMER, North Dakota Station.

[Written for Farmers Mail and Breeze.]

Wagon roads are to the farm what railroads are to the town and city. What would happen to a city if it had railroads that would have to charge two or three times as much for freight and passenger traffic as to some other city otherwise equally well situated? Or if the road bed was so poor that only slow time could be made; or that the roads would become impassable during parts of the year? No city could maintain itself under these conditions.



W. C. PALMER, An expert who is talking sense about good roads.

These are preposterous statements to make of a railroad; but they are the conditions often found on country roads where the expense of hauling is in many cases two or three times what it should be, where the road is such that it takes two or three times as long to get to market as it should, and where the roads are not in condition for hauling loads at all times. This works to the detriment of the farm and its industries just as much as that kind of railroad would work to the detriment of a town or city.

A Good Earth Road.

Stone is perhaps the ideal road material, but it is usually out of the question. Earth roads can be made good roads. The key to success in making them is controlling the moisture. When there is too much of it the earth becomes mud; when too little the result is dust. There is a happy medium between these two extremes, when the soil packs hard. In most soils it is not difficult to maintain this favorable moisture content. Keep the center of the road higher so that water cannot remain there. Drainage ditches should be provided along the road, but if water stands there it will soak under the road bed and soften it. Another important thing is to keep a space of 15 to 18 feet free from grass and weeds, which, if allowed to grow on the road, take up so much moisture that the soil grinds up into dust.

Avoid This Kind of "Luck" in 1913.

Mr. Editor—This is just a bad luck story, but it is typical.

Sam, the colored driver, sat on the platform of a large well. He was amusing himself by jabbing his knife into the boards, while the team stood near waiting for their load of ice to be piled upon the wagon. The boss, approaching with a reprimand for Sam's laziness, exclaimed: "Sam, you lazy scamp, get up on the wagon and start this minute!" "No, sah, I don't ride ober this here platform no moah. The boards am rotten, sah. I tells you-all, these heah horses'll break in some day." And Sam reluctantly led the team over the platform.

A few days later the horses did break through, but one of them being near the edge escaped; the other fell into the large well. There was a second platform 10 feet below on which the pump rested, and a deep well, full of water beneath this. The now alarmed boss said some words not publishable and hoped the second platform was not "so rotten" as the top one, as the horse was then standing on it.

The other horse was stripped of harness and Sam was set to ride at a gallop for help. He ran the animal until it was thought it would die from exhaustion. A derriek and ropes were obtained. A strong new harness was placed on the imprisoned horse and ropes made fast

over the harness, forming a sling by which the horse was drawn up. A crowd had collected to help, and observe. Upon seeing the surface the horse struggled so much the top of the derriek was twisted off and all fell with a crash. A few planks had been slipped under the horse, so he did not fall back into the well but onto the iron pump, and jabbed a great hole in his hip. Some boys that were standing too near, narrowly escaped being crushed. The boss was miles away hunting a veterinarian to care for the first horse, and cursing his luck. Sam had the same consolation to offer that we all often get, and despise, "Only your own carelessness, sah, I told you so."

Mary Blair.

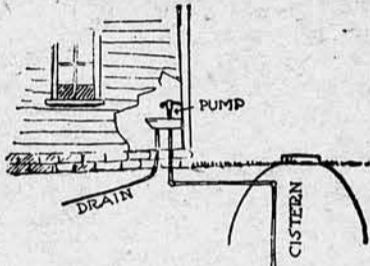
Nabb, Ind.

Getting Water to the Kitchen

BY M. M. MAXWELL.

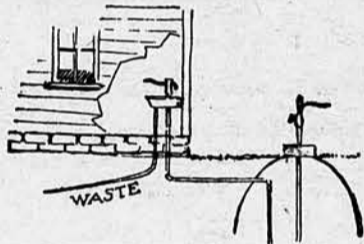
[Reprinted from the Mail and Breeze of September 7, 1910.]

In many farm homes cisterns and tanks are being constructed to lead the water into the kitchen. Two of 85-barrel capacity were built last spring at a cost of \$30 for cistern and \$18 for two pumps, sink and plumbing; one pump for kitchen and one outside. Another having no outside pump was built at less cost. Two brothers here have large



METHOD WITH ONE PUMP.

cement tanks erected on higher ground than the house and barn. The water is pumped up into those tanks and from there led to house and barn. In the kitchen they have all the water privileges they would have in the city, hot and cold water, bath room, etc. There is a little device known as a hog-

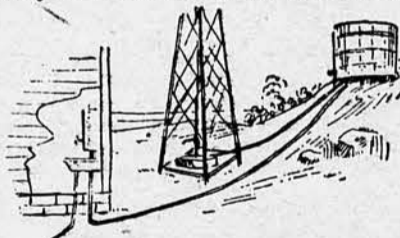


SHOWING TWO-PUMP WAY.

(Cistern with one pump in kitchen and one outside.)

waterer, costing about \$1.25, that is a self-filler. Built into the wall of the cement tank it is a great convenience for watering pigs and poultry. At the barn they have water inside for horses and outside for cattle at a cost of not quite \$250. There is a pump and a large porcelain-lined sink in kitchen which is a great convenience, especially in zero weather.

Besides the water conveniences a majority of the wives hereabouts have two



PIPED TO HOUSE FROM TANK. (Well with windmill, and tank on hill.)

stoves in the kitchen, a range and a gasoline stove, the former for cold weather and the latter for summer use. On one side of the kitchen is a row of double hooks on which to hang the hundred and one different utensils a woman keeps in the kitchen. Then there is that handy towel roller on which is hung the endless towel. On the other side is the neat woodbox, on one end of which hangs the dust pan. At the other end may be found the foot tub. Over in one corner is the little closet in which may be found the shoe brush and blacking, the shoe mender's kit of iron lasts, standard, hammer and brass tacks. Higher up in the closet are the flatirons, a long bottle containing a little coal oil to start the kitchen fire, and other articles too numerous to mention.

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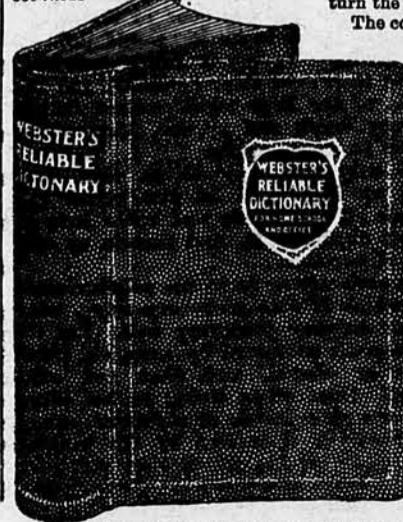
The book illustrated here is a book such as would ordinarily retail for a high price. It is handsomely and substantially bound in soft leather covers and printed in large, clear, easily-read type. It is just the right size for home, office or school use. It is thumb-indexed for quickly finding the word you want without any loss of time. No home library, no reading table, no student's outfit is complete without a good dictionary—and there is none other more authoritative or more complete than the famous Webster.

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The coupon must be used, or the wording copied on a piece of letter or note paper in order to secure this special price. Renewal or extension subscriptions accepted on same terms as outlined above.

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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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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.

Will "Eleanor" write me again? There are several letters waiting for her.

Now that Saint Valentine has been duly honored, we can compose our thoughts to visions of Easter dresses. By the way, it is said that not again for several hundred years will Easter be as early as it is this year.

It is not often given to a group of women by a few words to excite so much attention as was given in Topeka last week. Business men, working men, working girls, and women in homes all were interested in one way or another, some mildly, some most emphatically. Groups of people more or less excited got together, some as often as three times a day, to discuss the situation. The cause of it all? Just a harmless looking little bill—it scarcely took two minutes to read it—introduced into the legislature providing that no working girl should receive a wage of less than nine dollars a week, and that her working day should be limited to eight hours. Clearly for the benefit of the working girl, wouldn't you say? And yet the working girls rose almost en masse against it. Some objected to it for one reason, some another; a few were in favor of it. Petitions against it signed by hundreds of working girls were presented to the legislative committees who had the bill in charge. Is the reason plain? The bill did not pertain only to women in Topeka, but to all working women in the state, except the girls who are engaged in what is known as "domestic service." They are not affected by it. One fact has been made clear by all this discussion. The working women of Kansas have more to do with the prosperity of Kansas than it had ever occurred to anyone to consider until it was forced upon them. The bill was drawn up by a group of Topeka women. The senate committee has modified it to read nine hours a day and not less than six dollars a week, and has recommended it for passage. It will be interesting to watch it as it wends its way through the legislature.

Smothered Chicken.

Dress and joint a young chicken as for frying. Salt and pepper to taste, place in roaster or dripping pan and sprinkle heavily with flour. Add water sufficient to just cover. Place in a moderately hot oven and leave until the top pieces begin to brown, then take out, turn, put back in the oven and let remain until tender. Be sure to keep water to top of chicken, and you will have a nice dish of gravy as well as some fine chicken.

Mrs. George A. Church.
Cherryvale, Kan.

Corn Vinegar.

This is a recipe I have tried with excellent success. Take 6 pints of shelled corn and pour on cold water enough to allow corn to swell. Let boil until the strength is extracted, drain into a keg and fill up with water to make 6 gallons in all. Add 6 teacups brown sugar, 2 teacups molasses, and a piece of mother of vinegar. Tie a thin piece of muslin on top and set in a moderately warm place. In a few weeks it will be excellent vinegar. Mrs. Henry Tipton.
R. 3, Versailles, Mo.

An Idea in Comfort Making.

When making comforters we take enough mosquito bar, of any color, to cover the cotton, sewing it in with long stitches and fastening the ends and sides neatly. Then we put on the cover of whatever material is desired and tack as usual, only not so closely since the cotton cannot wad because of being

sewed firmly in the mosquito bar. When the comforts need washing it is an easy matter to take off the covers, wash and replace, with no handling and dampening of the cotton.

Zada B. Hulburt.
Meade, Kan.

Life Is What We Make It.

[Prize Letter.]
I am writing to tell you a secret. It is this: We make or move trouble. I know from actual experience. Sometimes something goes wrong, or I imagine so. I center my mind and thoughts that way, and how miserable I am! I haven't a friend. If I am not cross and ugly I am surly, and that makes others miserable. That's one side of my life; now here's the other. I enjoy my work, for my thoughts are pleasant. I choke down envious thoughts by planning happy surprises, and I am happy. I feel like smiling even if I am tired, and I can see good qualities in everyone because I keep good thoughts in my heart. I am doing my best, and can't see others' faults. I put myself into what I am doing, and how happy I am! When I am very tired I lie down, close my eyes, and my thoughts are composed to the sweet silence. Life holds too much in store to waste time in thinking of faults. Do the best you can; then if anyone censures you stand your ground, be done with it and think

The fee system of our probate courts may not have been designed to plunder widows and orphans but that is what it does.
—ARTHUR CAPPER.

no more about it. Family jars are a common occurrence in many homes, but they do not need brooding over. Brooding only kindles fresh fuel for the next time. I'd rather have a real old squabble, then kiss and make up, than to pout for days and days and not feel any better in the end. Alice B. Long.
R. 1, Toronto, Kan.

Fumigate When You Move.

[Prize Letter.]
When moving into a rented house never fail to fumigate well with sulphur as a precaution against bugs and moths. I once moved into a cottage that I supposed was almost new—only one family having occupied it, and they very nice housekeepers. Still I insisted on the sulphur smudge all night, before a thing was moved in. I was doubly thankful when I learned that the cottage was made over from an old house which was badly infested with bugs. And we never saw any signs of any all the three years we lived there. Soon after this we had some friends come to the same town and move into an old house near us. We told them about the sulphur and gave them a liberal supply to fumigate with, but it was forgotten until a late hour in the evening and they thought it "would do" in the morning. Trying to fumigate while moving in proved their downfall, and to get rid of the bugs which seemed to be in every crack and crevice, they were obliged to move again.

The only sure way is to shut the house up tight and let the fumes go through all the rooms and cellar before moving anything in, and remain so all night if possible.

The easiest way is to use sulphur candles, which is also more expensive, but common sulphur does very well. Put it on live coals protected by some old iron kettle or shovel, and then get out quickly. Once when living in the city there was an epidemic of diphtheria, and each family was ordered by the health officers to sprinkle a pinch of sulphur on a hot stove every morning, as a pre-

ventive. A young lady living in the next yard, died of a very malignant type of it, yet none of our family contracted the disease. It may be due to the sulphur that we escaped.

Mrs. E. D. Scott.
Pittsburg, Kan.

Games for Your Next Party.

The next time you give a party try one of these games and see how much fun it is. Have a plate of soup beans held by some person. Let each guest try carrying as many beans as he can scoop on a knife blade to some person on the opposite side of the room. Then count the beans he deposits on the plate.

Or tie white sewing thread around chocolate drops and pass to each guest. Then request them to place the thread in their mouths, stand with their hands behind them and the one who gets the chocolate in his mouth first receives the prize.

Or if you are giving a church social you might follow the plan of the mystery tea given by the men of a certain church not long ago. Everything was done with the utmost secrecy, and no one could learn anything about it. The result was a large attendance, a hilarious good time and a financial profit. There was music from a phonograph, a gypsy fortune teller, and other features for entertainment. Every man there was labeled with a huge tag. The minister was master of ceremonies; the oldest man present, chief chaperone; others were chief cashier, chief announcer, chief of commissary, chief cook and bottle washer, head waiter, assisted by nine waiters. The menu cards were unique, bearing at the head the motto, "Everybody works but mother," followed by this:

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Choice of any three numbers 10 cents; a second choice of any of the five remaining numbers, 5 cents extra.

1	5
2	6
3	7
4	8

Please Do Not Tip the Waiters.

Of course, you will need to know what was served: 1, a doughnut; 2, ham sandwich; 3, a toothpick; 4, wienerwurst; 5, a pickle; 6, cheese sandwich; 7, soda cracker; 8, an apple.

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.

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



- 6124—Four-Gore Skirt, 5 sizes, 22 to 30 waist. Size 24 measures 2 1/2 yds. at lower edge.
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Dear Sir—Enclosed find cents, for which send me the following patterns:

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

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BE SURE TO GIVE NUMBER AND SIZE.

Some Things Found Out.
 [Prize Letter.]

I want you to know I appreciate the Mail and Breeze. I look for it as I do for a letter from home. Here are some things I have found out:
 If black silk stockings seem too thin they may be worn over ordinary black cotton or lisle thread stockings, giving the appearance of heavy silk.
 Tie a paper bag over the food chopper when grinding stale bread. It will prevent the crumbs' scattering. When the

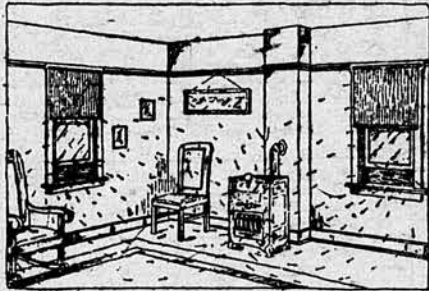
bag is full empty it into a dish and then fill it again.
 When cleaning white enamel wood work try using sweet milk and ammonia, 2 tablespoonsful of the ammonia to a quart of milk. This mixture will not turn the enamel yellow.
 Seneca, Kan. Mrs. Zadie Britt.

One Way to Keep Well

BY ELIZABETH JEFFERSON

One cannot do his best work if he is breathing impure air. And if he breathes impure air he is more susceptible to disease. The disease germs which grow in our bodies flourish best in a small supply of air, particularly when they are out of the sunlight. These are three good reasons for plenty of fresh air and sunshine in our houses.

A grown man or woman requires for regular use about 500 cubic inches of air every minute. The result is that the air in the immediate vicinity of the nose is quickly used up and an equal amount of impure air is breathed out from the



A ROOM WELL VENTILATED.

Breathing impure air invites disease. Fresh air may be brought into a room by lowering the window sash from the top, and raising the lower sash and inserting a loosely fitted board.

lungs. It is therefore necessary that pure air from out of doors be constantly pouring into our rooms and the impure passing out.

Dr. John S. Billings says, "Most persons would object to being compelled to wear underclothing that had just been removed from the body of another man, or to eat food that had been partly chewed by another. They do not, however, often object to drawing into their noses, mouths and lungs air that has been very recently inside another man's body." The proof that people are injured by breathing impure air has been obtained by comparing the statistics of disease for a certain number of years among men living in unventilated, with those living in well ventilated places.

Air does not move of its own accord. In our houses we can best create a circulation of air by having two windows open, one for the impure air to pass out, another for pure air to enter. One window open, however, can be made to serve as two. Ventilating should be done in such a way as not to cool the rooms too much. For this reason the window is best lowered from the top. As everyone knows, the air near the ceiling is warmer than that down by the floor; and when the window is opened from the top the fresh air is warmed before mingling with the air in the lower part of the room. The lower sash of the window may also be raised and a loosely fitted board inserted; fresh air will then enter through the space between the upper and the lower sash and will be directed upward, thus avoiding a direct draft. The size of the opening in the window depends upon the temperature outside and in. In cold weather the exchange of pure for impure air takes place very rapidly and only a small opening is needed.

It is better to have a window open all the time than to air the room only occasionally. There should be a constant removal of impure air and a fresh supply of pure air. An open stove or fireplace is a reliable means of getting rid of impure air. The illustration shows a room with a board loosely fitted beneath the lower sash of the window. The small arrows indicate the pure air coming in, circulating through the room, and finally when it has become impure passing out through the open-front stove.

Air is of even greater importance at night than it is during the day. The body recuperates mostly at night during sleep; then large amounts of oxygen are needed, so there should be plenty of fresh air at night. The sleeper may be protected from drafts by a screen or chair placed between the window and the bed.



Dairy Cleaning Easily Done

Old Dutch Cleanser halves the work in the dairy. The milk pans, pails, churns and cream separator are thoroughly cleaned in half the time with half the effort, if Old Dutch Cleanser is sprinkled on cloth or on the article cleaned. It leaves the milk utensils shining, clean and sweet.

It quickly removes cream clots and milk stains from shelves, benches and floors.

Old Dutch Cleanser does equally as well anywhere on the farm where cleaning is done.

Old Dutch Cleanser

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YORK TRACTORS use low grade fuel, are slow speed engine, have no transmission bevel gears or chains. Are built in ten sizes. Sample engine at Newton. S. B. Vaughan, agent, Newton, Kan.

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\$130.00 BU. s brand new piano fully warranted, stool and scarf included, freight prepaid, thirty days free trial in your home. Terms, Five Dollars per month. We are western distributors for Knabe, Ivers & Pond, Fischer and twenty others. Write Olney Music Company, Kansas City, Mo.

FOR SALE—Hardware, implement and vehicle stock. A growing business in a growing town. Increase has been two to six thousand each year. The last six years an absolutely clean stock, no dead numbers. Low rate of insurance and rent. Only hardware store in town. Don't write unless you mean business. No trades considered. Snap if taken soon. Address Growing, care of Mail and Breeze.

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LAND—For trade, 7 sections land, \$35 acre. W. Root, Arcadia, Fla.

TWENTY years' experience selling land. List yours with us. Chaney & Co., Topeka, Kan.

20 ACRES with improvements. Irrigated. Two miles from city. S. E. Idaho, \$2,600. John S. Griffing, Tecumseh, Kans.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

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BERKSHIRE boar pigs. Sired by prize winners. F. U. Dutton, Penolosa, Kan.

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FOR SALE—800 grade Shropshire Ewes bred for March lambs. Strictly three-year-olds. Leon Guthrie, Douglass, Kans.

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, Kans.

TWO fine yellow Jersey bull calves three months old. From rich heavy milkers. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

IMPORTED black Percheron stallion, 9 yrs. old, 2,100 lbs., for sale. Six crops of colts to show. No fault. Wathena Breeding Assn., Wathena, Kan.

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INCUBATOR CHICKS die by hundreds with white diarrhoea. We save them. Send address of ten people using incubators, and get free, details, how we hatched, fed and raised fourteen hundred. Alva Remedy Co., Alva, Okla.

SEEDS AND NURSERIES.

WANTED—Rice popcorn. Chas. G. Strong, Lowell, Ariz.

CHOICE cowpeas and alfalfa seed. D. J. Yoder, Haven, Kan.

100 BU. re-cleaned alfalfa seed. Send for sample. J. F. Laman, Portis, Kans.

ALFALFA SEED for sale. Samples and prices on application. Chas. Jensen, Jamestown, Kans.

ENGLISH blue grass seed. Nice re-cleaned seed \$2.00 per bu. W. W. Dunham, Silver Lake, Kan.

150 BUSHELS of re-cleaned alfalfa seed \$8.00 per bu., sacks free. John Ryman, Dunlap, Kan.

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PRIZE watermelon and muskmelon seed, true to name and sure to grow. 1/4 lb. 15c; 1/2 lb. 50c, postpaid. L. M. DeWeese, Richfield, Kan., wholesale grower.

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20 ACRES ideal poultry farm, joining good Kansas town; gas well, free gas; well improved; large orchard; easy terms. Arthur Eagle, Hutchinson, Kan.

320 A. STOCK FARM for sale. Improved. 90 a. broke, rest pasture all fenced 4 miles Buffalo, Okla. Price \$5,000.00. Address W. A. Richmond, Argonia, Kans.

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WANT 40 acres eastern Kansas. 1012 North 6th, Independence, Kan.

WILL BUY good farm. Well situated. Owners only. Give description and price. Addr. Coens, Box 754, Chicago.

WANTED TO BUY a small, improved farm close to town. Give lowest cash price and description. Wm. Doering, Woodbine, Kans.

\$9,600 GENERAL MERCHANDISE stock for good farm of equal value. Give number and cash price in first letter. Do not offer any inflated prices. A. W. Mathews, Washington, Kans.

FARMS WANTED. We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

SITUATION WANTED.

EXPERIENCED farmer with family (2 children) wants work on farm. Write particulars. State salary. B. F. Hammond, Gage, Okla.

TYPEWRITERS.

OLIVER VISIBLE TYPEWRITER for sale cheap. Perfect condition and does splendid writing. Could send on trial. Write to Charley Rickart, Route 5, Rosedale, Kan.

HELP WANTED.

PLACES found for students to earn board and room. Dougherty's Business College, Topeka, Kan.

GOVERNMENT farmers wanted—Examination April 9. Prepare now. \$75 monthly. Write Ozment, 38 F, St. Louis, Mo

WANTED—Railway mail clerks. \$75.00 month. Examinations everywhere. Coaching free. Franklin Institute, Dep't L 54, Rochester, N. Y.

RAILWAY MAIL examination everywhere May 3d. Clerk-carrier soon. Hundreds needed account parcels post. Work for Uncle Sam. Salaries raised. Write American Institute, Dept. B, Kansas City, Mo.

MEN AND WOMEN WANTED for government parcels post positions. \$90.00 month. Write for vacancy list. Franklin Institute, Dep't L 54, Rochester, N. Y.

PREPARE for a good paying government position; \$75.00 to \$100.00 per month. Work very pleasant. Promotion sure. We prepare for civil service positions. Our \$10.00 and \$15.00 special introductory tuition offer will prove a big investment to you. Address The Southwestern Correspondence School, Box 654, Wichita, Kan.

MEN AND WOMEN WANTED for government positions. \$90.00 month. Annual vacations. Short hours. Parcels post means thousands of railway mail clerks needed. "Pull" unnecessary. Farmers eligible. Write immediately for free list of positions open. Franklin Institute, Dep't L 54, Rochester, N. Y.

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WANTED—Railway mail clerks and clerk- carriers for parcels post. Examinations soon. Trial examination free. Write today. Ozment, 38, St. Louis.

WANTED—Reliable men in every County to sell nursery stock. Liberal terms. Outfits free. Experience unnecessary. Write F. H. Stannard & Co., Ottawa, Kans.

MAN WANTED to take charge of skimming station in Kansas. Able to test, etc. References required. A. Morrison, Jr., Farm Co., Westport Sta., Kansas City, Mo.

SALESMEN wanted in Kansas, Oklahoma, Missouri and Arkansas. Work full or part time, as you prefer. Pay weekly. outfit free. The Lawrence Nurseries, Lawrence, Kan.

500 MEN 20 to 40 years old wanted at once for electric railway motormen and conductors; \$60 to \$100 a month; no experience necessary; fine opportunity; no strike write immediately for application blank. Address F. care of Mail and Breeze.

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.

AGENTS WANTED.

WANTED—Men in every town in Mo., Kan., Ill., Neb., Okla., Ark., to take orders for nursery stock. Outfit free. Cash weekly. National Nurseries, Lawrence, Kansas.

CAN USE a few old experienced salesmen for Oklahoma and Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

AGENTS—\$75 to \$200 per month easy, selling high-grade guaranteed cutlery direct from factory. H. Vate cleared \$2,000 last year. McFadden \$1,800. Write for particulars. United Cutlery Co., 617 E. Fourth St., Canton, O.

AGENTS WANTED everywhere to sell fine flavored, pure Calif. honey. Freight prepaid anywhere, examination allowed before paying. Three grades 10 1/2, 11 1/2 and 12 1/2c pound; discount on quantity. Hustlers make big profits easy, experience unnecessary. Permanent business, steady profits, protected territory. Sample and leaflet free. Spencer Apiaries Co., 182 Main, Northhoff, Calif.

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SCOTCH COLLIES. Western Home Kennels, St. John, Kans.

GREY HOUNDS, all ages, cheap, John Hageman, Riley, Kan.

HOUNDS that catch the game. Send 2 ct. stamp for prices. Rash Bros., Centerville, Kan.

FOR SALE—Thoroughbred snow white Pomeranian puppies. J. A. Crozier, Knoxville, Iowa.

FOR SALE—Pair Coon and Wolf hounds. Fast, good stayers. \$30.00 pair if sold soon. H. M. Price, Council Grove, Kans., R. No. 2.

REGISTERED English bloodhounds; young stock guaranteed to make man-trailers. Best blood in world. Max J. Kennedy, Fredonia, Kan.

SCOTCH COLLIE puppies, finely marked, sable, white collars. Males \$7, females \$5. Fine brood bitch \$15. Wm. Graham, Eldorado, Kan.

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A **PROMINENT** automobile manufacturing concern offers for sale, at a bargain, a few slightly used motors. These motors develop horse power ranging from 34 to 50, and are all of the four cylinder type. They have all been slightly used for testing purposes but have since been overhauled and are at present in first class running order. They are offered at very attractive figures and should give excellent satisfaction as a means for furnishing power for almost any purpose about the farm. If you are interested in obtaining an excellent power plant cheap for use about your place, we invite your correspondence. Address Motor, care Farmers Mail and Breeze.

MISCELLANEOUS.

MISSOURI AUCTION SCHOOL, largest in world. Own largest living mule. 1404 Grand, Kansas City.

EARN \$25.00 per week; be an automobile man. Dept. 100. Auto School of St. Louis, 1917 Pine St.

KEEP your furs until you get our latest price list. Give us a trial. McCaslin & Son, McCune, Kan.

HARNESS—Our harness is correctly made and prices right. Write for catalogue. Ed Klein, Lawrence, Kan.

SECURE CASH for your property, no matter where located. To buy or sell write for particulars, giving full description. National Property Salesman Co., Dept. 1, Omaha, Neb.

MISCELLANEOUS.

IF YOU have money, or estate due you in Texas write L. Fulton, attorney, Denton, Texas. He will help you get it.

SHIP EGGS by Parcel Post. We sell the cartons. Full description by return mail. Ross Bros. Seed House, 318 East Douglas, Wichita, Kans.

FOR EXCHANGE—Modern eleven room house, best location, Emporia, Kansas. Want 100 acres, part bottom, balance native grass. Box 395, Emporia, Kan.

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BIG WESTERN WEEKLY 6 MONTHS 10c—Biggest and best general weekly published in the west. Interesting and instructive departments for young and old. Tells about opportunities in the west for ambitious men. Special offer, 6 months' trial subscription—26 big issues—10c. Address Weekly Capital, Department W. A. 12, Topeka, Kansas.

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All Branches Engineering; enroll any time; machinery in operation; day and night session. Finlay Bldg., 10th and Indiana, E. C. Mo. Ask for catalog "D". Phones East 295.

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A practical school with railroad wires. Owned and operated by A. T. & S. F. R. Ry. **EARN FROM \$50 TO \$165 PER MONTH.** Write for catalogue.
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Desk G, 505 Kansas Ave., Topeka, Kan.

IF YOU STAMMER
Write McKie School for Stammerers, 2400 E. 12th St., Kansas City, Mo. Home and school combined. Highly endorsed. Conducted by former stammerer. Stammering, if neglected, ruins your chance for success in life, but it can be speedily corrected by proper training.

A Kansas Farmer's Test Plot

BY J. K. FREED.

[Written for Farmers Mail and Breeze.]

The department of agriculture, several years ago, asked me to make a test of a number of different varieties of sorghums. Later I also secured small quantities of new sorghum and corn seed for testing from our state experiment station. The ground used had been in wheat the year before and was a uniform, black, silt loam with an eastward slope. I planted the rows east and west to give no variety an advantage on account of the runoff. Each plot was of 2 acres—10 rows a half-mile long.

May 15-18 I planted the seed in shallow, listed furrows, alternating each 10 rows of sorghum with 10 rows of corn to keep the varieties separate. All varieties received the same cultivation throughout the season. In harvesting I simply gathered what I wished for seed and harvested the rest as I did other crops. The object of the test was to compare varieties under precisely the same conditions. The extra time and labor expended amounted to little, and I would like to impress on every farmer how easy it is to make these variety tests of seeds.

What the Tests Showed.

As to the results of those tests, for the department and the station, I could see little difference between the yields of grain of Dwarf and Standard milo. The Dwarf stood erect 3 feet high and could easily be harvested with a wheat binder. The Standard stood 6 feet high, lodged badly and much of the grain was wasted.

Red Kafir has a more slender stem, a narrower leaf, and is a little earlier, but the grain is more bitter, like cane seed. It is a nearer relative to sweet sorghum than White Kafir. In this section Kafir makes grain about one year in three and is more generally grown for hay.

Brown kowliang headed very early, was tall, stemmy, lodged, and shattered badly. I considered both grain and forage of inferior quality. The fact that it volunteered three successive years in the corn field indicated its drought-resistant quality and it may be worthy of further trial.

The Jerusalem corn was also quite early, but it shattered badly and was hard to gather. In a favorable season it will keep throwing heads from the joints until frost overtakes it. I think its place is in the hog pasture or near the poultry yard.

White Amber Cane Earliest.

White Amber cane proved the earliest variety. It has a short, slender stem and white grain perfectly free from any bitter taste common to other cane seed. At the Panhandle station it has matured a good crop by August 13 and the Hays station reported it the earliest sorghum there, also that it made grain on less moisture than any variety tested. After growing it I am so well pleased with it that I raise it as my main feed crop both for grain and fodder.

The Orange cane made a heavy tonnage of sweet fodder but matured no grain. In this section it is as unreliable a seed crop as Kafir, but for hay the seed is always at a premium above Black Amber. Scott county claims to be the banner cane seed county of the country, growing seed mostly for the Southern market. Fully 90 per cent of this is the Black Amber variety.

Easy to Develop Your Crops.

The state and national experiment stations are of inestimable value, but their work must be general and should be supplemented by the farmer himself. The soil and climate at the stations may be quite different from your own and strains of the same varieties of crops might be developed in your locality and acclimated to your conditions of which the stations know nothing. It is easy to test different varieties of crops side by side and to select seed, so far as possible, that has been grown on the same soil and under the same climatic conditions that we expect to grow the crops. Now, I have no seed of any kind to sell, so please don't bother me with orders.
Scott, Kan.

If you are going into the fruit business, stick to the standard varieties. They sell the best, for all dealers know just what they are.

Something to Think About

Suppose you were to take sick suddenly and die—or suppose you were to accidentally get killed in some way—what shape would your estate be in? Hundreds of men die with little or no warning. They are in the flush of good health one day and gone the next and often leave their affairs in a bad condition. A policy of one or two thousand dollars in the Midland Life Insurance Company means that much money will be paid over to your wife and babies immediately should anything happen!

This means that you will have more peace of mind when you know that they will be taken care of without having to get on their hands and knees to relatives or friends. Then, too, it gives you a better standing with your banker. He knows you will pay out if you live and that the insurance company will step into the breach if you die. In short, Brother, you are not giving your wife and children a square deal if you don't protect them with a policy in some good company!

INSURANCE IN FORCE.....\$4,500,000.00
SURPLUS TO POLICY HOLDERS.....175,000.00
All Policies Registered With the State of Missouri.
Our 20 Pay Life Policy is the best and most liberal life insurance policy before the public today. IT CONTAINS THREE AND ONE-HALF PER CENT INTEREST BEARING COUPONS.
If coupons are left with the Company the policy increases in value each year and is guaranteed to be PAID UP IN FULL IN FIFTEEN YEARS.

Midland Life Insurance Co.,

Home Office Kansas City, Mo.
We want a good Agent in every county. The right kind of a man can make \$250 per month. Let us hear from you if you are interested. Experience is unnecessary. Some of our most successful representatives are young men who have taken up the work within the past year.

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It may seem too good to be true, but it is true just the same! Somebody is going to receive this big touring car as an absolute free gift on May 1, 1913. Our first big 1913 Subscription Contest on the Kansas Weekly Capital has just opened and will close promptly at 12:00 o'clock noon on Thursday, May 1st, 1913, and the 5 contestants having to their credit the largest number of points will be awarded the \$950 Automobile and 4 other Grand Prizes. The object of this contest is to get subscriptions to the WEEKLY CAPITAL, the well-known news weekly and home and family paper published by Arthur Capper at Topeka, Kansas. Every one-year subscription at 25 cents counts 25 points, every 3-year subscription at 50 cents counts 75 points, and every 6-year subscription at \$1 counts 150 points—in other words, you get 25 points for every year's subscription.

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MARKET PROBABILITIES

Cattle Markets Moving Slowly but Tendency Is Upward in Spite of Lenten Season—The \$8 Hog Is Here Again and Packers Have Lost Control of the Market to the Shipper—Sheep Continue Stronger

[Written Specially for the Farmers Mail and Breeze.]

Firm prices prevailed the first of the week for all classes of cattle. Higher prices are expected before the close of the week.

Cattle prices moved rather slowly last week, but the main tendency was upward, an encouraging fact, considering that the Lenten season began on Wednesday and that receipts were as large last week as in the preceding week, and larger than a year ago. The Lent season, which is usually figured as a period of restricted demand for meats, does not amount to as much as formerly as facts that observe that period of self-denial now are not as strict in its enforcement as formerly, and this year dressed meat-men had reduced orders since the first of the year, so that the beginning of the season found them with no surplus product on hand. Generally speaking last week's cattle prices were up 15 to 25 cents, and as February is usually a month of receding prices, that advance is better than expected. At river markets silage and short fed grades are the prevailing type, and practically a \$7 to \$8.25 price range is maintained. In Chicago quality is better and there \$7.50 to \$8.50 is being paid for the bulk of the offerings. Texas, Oklahoma, and Colorado have the most important market supplies west of the Missouri river, and Illinois and Iowa to the east. March and April promise to be months of light receipts and higher prices. Packers will be forced to meet expanding beef requirements of that time, and tidy weight butcher grades will probably be distinct favorites. It will be June or later before the Southwest can put any cottonseed-cake grassers on the market and feedlot supplies have to meet the demand of practically 3 1/2 months. That receipts this year have been larger than expected indicates that close marketing has been the rule since January 1 and that no surplus is available.

Butcher Cattle Prices Higher.

The setback in prices of butcher cattle two weeks ago proved only a temporary affair and prices last week moved up 15 to 25 cents to practically the high level of the season. Killers are unable to do without butcher cattle long enough to keep prices down on moderate receipts, and the market is strong on that account. The spring run of fat heifer stuff will be small, as the enormous demand for breeding cattle has curtailed feeding operations and last fall practically did away with the practice of spraying heifers. The calf market continues firm, but in a few weeks is due for a setback, as the advance guard of the dairy calves will be due in Chicago.

No Let Up in Feeder Demand.

The demand for feeding cattle continues broad at river markets, and throughout the Southwest where as many thin cattle are selling as at markets. The total volume of business is hard to estimate, but it is said to be large. Kansas City in January shipped 22,000 more thin cattle to the country than in January, 1912. February will break the record if supplies continue to move as in the past week. Prices are firm. Most of the feeding steers are selling at \$7 to \$7.65, and some heavy steers, for a quick turn brought \$8.10 to \$8.35. The stockers are bringing \$6.50 to \$7.35, stock calves \$5.75 to \$7.50, stock heifers \$4.50 to \$6.50, and stock cows \$4 to \$5.50.

Dairy Calves To Move Soon.

In a few weeks eastern livestock markets will begin to receive the early supply of veal calves from the dairy districts. In point of quality such calves are of no particular value from the beef making viewpoint, but they fill the requirements for veal and the large numbers available in the spring usually cause a sharp reduction in prices. It is the practice of dairymen to hold the young calves long enough to get the inspection laws for veal and then market them as soon as possible. The calf in the dairy district is said to be a dead weight, its only importance being that it increases the supply of milk. Men who have young calves of the beef breeds should hold them off the market, at least for two months, and let the dairy product have full sweep. There are other ways of using a good calf than turning it to veal.

Hog Prices Up Last Week.

The Chicago market on Monday opened weak to 5 cents lower and closed stronger than Saturday, making a new high top for the year. Top price in St. Louis was \$8.10, in St. Joseph, \$7.90; in Kansas City, \$7.85; in Omaha, \$7.80. Packers are losing their control of the hog market and the shipper is becoming a prominent factor in the hog pens. His requirements are for the lighter class of hogs than the packers take, but at the same time they have to use the light class for bacon, and consequently the entire list has been quoted up. In Chicago and St. Louis \$8.15 appeared in the list of quotations last week for the first time in more than three months past,

but on Wednesday and Thursday packers raised a kick, and caused moderate reductions. Friday there was a quick upturn in prices. The fact that the market showed a good advance last week will encourage a good many to hold their hogs until later, as they see a good profit in making weight at present prices. Medium and light weight hogs are selling at a premium over other weights and the general spread in prices will broaden as the season advances. It will take some time for the market to move above \$8.

Sheep Prices Up Again.

The sheep market is showing considerable form again. Last week with receipts fairly liberal prices were quoted up 25 to 35 cents compared with the low level of the preceding week, and the market was firm at the advance. Packers seem to be operating from the base of liberal orders, and with a general belief that short supplies will be uncovered in the next two months there is little reason for a setback in prices. The Northwest is moving large numbers of sheep to market that have been warmed up on hay and as soon as this supply is absorbed corn belt and Colorado fed sheep will be the principal offerings. Clipping and marketing fed sheep will begin about the first of March and this promises a fair profit for heavier classes if wool prices hold up to the present level.

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	34,000	53,150	33,450
Chicago	47,400	183,000	89,500
Omaha	17,500	61,300	43,300
St. Louis	21,200	49,500	16,800
St. Joseph	7,800	33,500	10,200
Total	125,300	360,450	193,250
Preceding week	122,250	407,700	167,100
Year ago	122,290	437,500	216,300

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, February 10, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City	9,000	5,000	17,000
Chicago	20,000	54,000	28,000
Omaha	5,800	6,900	16,000
St. Louis	4,000	10,500	1,500
St. Joseph	1,500	6,200	2,000
Totals	40,300	82,600	64,500
A week ago	41,700	73,800	45,300
A year ago	46,535	102,200	68,700

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:

	Cattle	Hogs	Sheep
Per 100 lbs. 1913 1912	1913	1912	1912
Chicago	\$8.90	\$8.60	\$8.12 1/2
Kan. City	8.50	8.50	7.85

Horses in Better Request.

Farm requirements for good horses are beginning to broaden and prices in the past few days were quoted strong. Southern buying of mules was less active, but the total trade in equine stock thus far this year has exceeded the volume of business of any corresponding period for some time past. Dealers say they look for a further expansion in business in the next two months, and a good demand up to mid-summer.

Corn Higher; Other Feeds Lower.

With the price of May corn several cents above the present cash price, traders are buying corn and storing for May delivery. Consequently cash prices were advanced several cents last week. A readjustment will have to be made between now and May. Wheat prices were lower and trade was quiet owing to limited milling and export demand. Clover hay and alfalfa were quoted off 50 cents to \$1 a ton, and other varieties were weak at about unchanged prices. The following prices prevail for grain in Kansas City and St. Louis.

	Kansas City	St. Louis
Wheat—		
Hard No. 2...	\$.89 @ .91	\$.91 @ .94
Soft No. 2....	1.00 @ 1.05 1/2	1.08 @ 1.13
Corn—		
White No. 2...	.50 @ .51	.52 1/2 @ .53 1/2
Mixed corn ..	.49 @ .49 1/2	.50 @ .50 1/2
Oats—		
No. 2 white...	.35 1/2 @ .36	.35 @ .36
No. 2 mixed...	.34 1/2 @ .35	.34 @ .35

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:

	Wheat	Corn	Oats
Chicago..	\$1.12	\$1.14 1/2	\$2.45 1/2
Kan. City.	1.05 1/2	1.11	50 1/2 @ 68

Seeds.

Kafir corn, No. 2 white, \$4 a cwt.; No. 3 white, \$3 1/2 a cwt.; alfalfa, \$9 @ 12 a

cwt.; flaxseed, \$1.18 a bushel; timothy, \$1.60 @ 1.75 a bushel; cane seed, 90 @ 92c; millet seed, 95c @ \$1.15.

Kansas City Hay Quotations.

Prairie, choice	\$10.50 @ 11.00
Prairie, No. 1	9.00 @ 10.00
Prairie, No. 2	7.50 @ 8.50
Prairie, No. 3	6.00 @ 7.25
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	12.00 @ 12.50
Clover, No. 1	10.50 @ 11.50
Clover, No. 2	9.00 @ 10.00
Alfalfa, fancy	16.00 @ 17.00
Alfalfa, choice	14.50 @ 15.50
Alfalfa, No. 1	11.50 @ 14.00
Alfalfa, No. 2	8.00 @ 11.00
Alfalfa, No. 3	6.00 @ 7.50
Straw	4.50 @ 5.00
Packing hay	5.50 @ 6.00

Limited Inquiry for Broom Corn.

The broomcorn market continues to show a dull side, and while some sections of the Southwest have reported a fair trade, the inquiry is not general and broomcorn makers seem to be trying to force lower prices. There is a noticeable scarcity of choice broomcorn, and that class is quoted at \$85 to \$100 a ton. The common class is quoted as low as \$20 a ton, and \$40 to \$65 as taking the general run of the offerings.

Livestock in Kansas City.

About 10 to 20 cents was added to prices for steers last week, but the general market at times was weak, and the general tone was none too healthy. Cows and heifers in some cases were quoted up 25 cents and stockers and feeders stronger. Good to choice beefs are quoted at \$7.75 to \$8.50; fair to good, \$7.25 to \$7.75; and common grades as low as \$5.50. Cows \$3.75 to \$7; heifers \$5 to \$7.75; calves \$5 to \$9.75; stockers and feeders \$6 to \$7.75; stock calves \$5 to \$7.50; stock cows \$4 to \$5.50; stock heifers, \$4.50 to \$6.50.

Hog prices Saturday were the highest this year, and 25 to 30 cents above the close of the preceding week. The market was strong except on Wednesday and Thursday. The top price Saturday was \$7.80 and bulk \$7.65 to \$7.80.

The following table shows the range in prices of hogs last week and in the preceding week:

	Last week	Preceding wk.
Monday	\$7.35 @ 7.60	\$7.20 @ 7.40
Tuesday	7.40 @ 7.70	7.25 @ 7.52 1/2
Wednesday	7.40 @ 7.75	7.30 @ 7.50
Thursday	7.30 @ 7.65	7.30 @ 7.57 1/2
Friday	7.40 @ 7.75	7.30 @ 7.52 1/2
Saturday	7.65 @ 7.80	7.25 @ 7.52 1/2

The sheep market last week took a turn upward and prices were 25 to 35 cents above the preceding week. Lambs are quoted at \$8 to \$8.75, yearlings \$6.75 to \$7.50, wethers \$4.50 to \$5.50, and ewes \$4.25 to \$5.25.

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	183,029	184,459	1,430	
Calves	11,196	10,176	1,320	
Hogs	324,418	416,304	91,886	
Sheep	190,983	244,238	53,255	
H. & M.	14,118	10,953	3,165	
Cars	12,848	14,346	1,498	

Investigate Kansas City Stock Yards.

A joint committee of the Kansas and Missouri legislatures will meet in Kansas City Monday to investigate commission, yardage, and other charges, and general conditions at the yards. Commission men are glad that this committee is coming and will give them every assistance they can. Commission men say they have nothing to hide, but are eager to show to countrymen the actual conditions. Former investigations have been made of the stockyards business, but all attempts to regulate charges have failed. The Kansas City stockyards is fairly representative of other large yards in the country, and whatever the committee finds in Kansas City is about the same at other points. A good strong light will not hurt the commission man.

Livestock in St. Louis.

Cattle prices last week strengthened all along the line, but the greatest advance was on cow stuff which was generally 25 cents higher. The top price for fat steers was \$8.50, and a few loads sold at \$8 to \$8.35, with the large part of the native offerings \$7.50 to \$8, and quarantined steers \$6.50 to \$7.25. Cows and heifers are quoted at \$4 to \$8, calves \$5 to \$10 and stockers and feeders \$6 to \$7.25.

The bulk of the hogs here Saturday sold at \$7.90 to \$8.10, with top price \$8.15, an advance of 35 to 40 cents compared with the close of the preceding week. Light weights are quoted at \$6.50 to \$8.10; mixed \$7.90 @ \$8.15, and heavy \$7.95 @ \$8.15.

Sheep trade last week continued active, but only 10 to 15 cents net gains were reported in prices. Lambs are quoted at \$7 to \$8.75 and mutton sheep \$5.25 to \$5.75.

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	111,546	86,170	25,376	
Hogs	326,338	383,664	57,326	
Sheep	28,441	99,541	71,100	
H. & M.	29,014	25,439	3,575	
Cars	8,369	8,636	333	

Livestock in St. Joseph.

Cattle prices were rather uncertain last week but closing prices showed a slight net gain. Beefers are quoted at \$6.75 to \$8.50; cows and heifers \$3.75 to \$6.75; stockers and feeders \$6 to \$7.25; stock cows and heifers \$4.50 to \$6.25.

Top hogs Saturday \$7.90, bulk \$7.75 to

\$7.85, market generally 5 cents higher than any other Missouri river point, and the highest this year. Light receipts caused the advance.

Moderate receipts of sheep last week sold at 25 cents higher prices. Demand was active. Lambs are quoted at \$7.50 to \$8.75, yearlings \$6.50 to \$7.50, ewes \$4.50 to \$5, and wethers \$4.75 to \$5.40.

The following table shows receipts of livestock in St. Joseph thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	49,231	59,731	10,500	
Hogs	217,223	278,617	61,394	
Sheep	60,223	81,960	21,737	
H. & M.	4,707	5,913	1,206	
Cars	5,302	6,436	1,134	

Butter, Eggs and Poultry.

Elgin, Feb. 10.—Butter this week is firm at 34 1/2 @ 35 1/2 cents.

Kansas City, Feb. 10.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 21 @ 21 1/2 c a doz.; seconds, 13 @ 14 c. Butter—Creamery, extras, 33 @ 34 c a lb.; firsts, 30 1/2 @ 31 1/2 c; seconds, 28 1/2 @ 29 1/2 c; packing, 19 1/2 @ 20 c.

Live Poultry—Broilers, 16 @ 18 c a lb.; spring chickens, 12 @ 13 c; hens, 13c; young roosters, 9 1/2 @ 10 c; old roosters, 8 @ 8 1/2 c; young turkeys and turkey hens, 16 1/2 @ 17 c; old toms, 13 @ 14 c; cull turkeys, 7 @ 8 c.

Rabbits—No. 1, \$1 @ 1.25 a doz. if drawn; No. 2, 50 @ 60c.

Produce Prices Now and One Year Ago.

	Butter	Eggs	Hens
Chicago	1913 1912	1913 1912	1913 1912
	34 1/2 32	22 34	13 14
Kan. City	34 32	21 1/2 29 1/2	13 13

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WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

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 N. W. Kansas and S. Nebraska, C. H. Walker, N. E. Kansas, N. Missouri, 3632 Flora Ave., Kansas City, Mo.
 Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kans.
 H. W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
 E. R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Combination Horse Sale.

Mar. 6—Mitchell County Breeders' Association, Beloit, Kan.

Percheron Horses.

Feb. 19—J. P. Hershberger, Harper, Kans.
 Feb. 20—The Knuckles Co. (Neb.) Horse Breeders' Assn., Percy Baird, Sec., Ruskin, Neb.
 Feb. 21—J. A. Fee & Son, Stafford, Kan., at Zenith, Kan.
 Feb. 24—C. B. Warkentin, Halstead, Kan.
 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, Turkio, Missouri.
 Mar. 13—C. W. Lamer, Salina, Kan.

Percherons and Jacks.

March 6—S. J. Miller, Kirksville, Mo.

Standard Bred Horses.

Feb. 24—C. B. Warkentin, Halstead, Kan.

Brood Mares, Work Horses and Mules.

Mar. 12—C. W. Lamer, Salina, Kan. (100 head.)

Jacks and Jennets.

Feb. 25—Hutchins & Hineman, Sterling, Kan.
 Feb. 6—Limerick & Bradford, Columbia, Mo.
 Feb. 10—G. C. Roan, La Plata, Mo.

Poland China Hogs.

Feb. 18—J. H. Harter, Westmoreland, Kan.
 Feb. 18—Bert Harriman, Pilot Grove, Mo.
 Feb. 19—W. B. Wallace, Bunceon, 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—L. R. McClarnon, Braddyville, Ia.
 Feb. 27—O. Ivler & Sons, Danville, Kans.
 Mar. 8—L. E. Knox, South Haven, Kan.
 Apr. 3—Roy Johnston, South Mound, Kan.

Duroc-Jersey Hogs.

Feb. 19—J. P. Hershberger, Harper, Kans.
 Feb. 19—E. M. Myers, Burr Oak, Kan.
 Feb. 19—Geo. W. Schwab, Clay Center, Neb.
 Feb. 20—Rinehart & Son, Smith Center, Kan.
 Feb. 22—J. R. Blackshire, Elmdale, Kans.
 Mar. 5—Sam'l Drybread, Elk City, Kan.
 Mar. 6—Marshall Bros., Burden, Kan.
 Mar. 7—W. W. Oley & Sons, Winfield, Kan.
 Mar. 15—W. C. Whitney, Agra, Kan.

Herefords.

Feb. 18 and 19—Hopper and Bowman, Ness City, Kan.
 Feb. 26—Warren T. McCray, Kentland, Ind.
 March 4-5—Funkhouser, Gabbert & Others at Kansas City. R. T. Thornton, Mgr., 137 East 15th St., Kansas City, Mo.

Shorthorns

Feb. 19—J. P. Hershberger, Harper, Kans.
 Mar. 14—C. G. Cochran & Sons, Plainville, Kan., at Lamer's sale barn, Salina, Kan.

Kansas and Oklahoma.

BY A. B. HUNTER.

R. C. Watson, of Altoona, Kansas, is offering some choice gilts that are bred to farrow in the early part of May; also two B. & C's Col. gilts that will farrow in March. He will make attractive prices on these if sold soon. He also has a fine bunch of fall pigs that he wants to move to make room for his spring crop of pigs.

All interested in good registered Percheron stallions or mares should by all means attend the Robison-Brown sale at the stock yards at Kansas City, March 5th, 1913. They will sell at that time fifty head of the best specimens of the breed, both imported and American bred. Write J. C. Robison, Towanda, Kans., or Willard R. Brown, Minneapolis, Kan., today for a catalogue.

Clasen Bros. Sell Durocs.

Clasen Bros. Union City, Okla., will sell Thursday, February 27, the best lot of breeding stock they have ever offered at auction, consisting of 35 head; 25 bred sows and gilts and 10 boars. Five of the bred sows will have litters at side. Most of the gilts are by Gold Mine, by the champion Grand Master Col. II, and bred to Clasen's Good E. Nuff. The boars include herd headers and show prospects. M. H.'s Col., by G. & C's Col., and Gold Mine both go in this sale. We feel sure this offering will please you. Write today for catalog, mentioning Farmers Mail and Breeze.

The Warkentin Horse Sale.

C. B. Warkentin Newton, Kan., will sell at Little River Stock Farm, Halstead, Kan., Monday, February 24, 45 head of horses, consisting of 18 purebred Percherons, all registered in the Percheron Society of America. Stallions and mares mostly of

breeding age. In the sale will be four Standard bred stallions and three Standard bred mares, bred in the purple and including a number of excellent racing prospects; also 20 head of draft and trotting bred mares and geldings, among which are an exceptional lot of high grade non-Standard mares and geldings, good drivers and a classy lot of road and work horses. Please read display ad this issue and write for catalog, mentioning Farmers Mail and Breeze.

A Great Jack Sale.

Perhaps the greatest sale of jacks and jennets ever held in the state of Kansas as regards both numbers and quality will be held at Sterling, Tuesday, February 25th. It will be the first annual joint sale of B. J. Hutchins, Sterling, Kansas and H. T. Hineman & Sons, Dighton, Kansas. Both of these herds are among the best in the state of Kansas and the jacks and jennets selected for this sale are good enough to suit the most critical buyer. Neither of these men have spared either pains, time

foundation of herds which have but few equals as regards quality. It is their intention to put before the public annually an offering that not only they, but the whole state of Kansas may be proud of. Don't fail to attend the greatest Jack and Jennet sale ever held in the state of Kansas. Remember the date and place, Tuesday, February 25 at Sterling, Kansas. For catalogue address J. D. Hutchins, Sterling, Kansas, or H. T. Hineman & Sons, Dighton, Kansas. Please mention Farmers Mail and Breeze.

Last Call to Fee & Son's Sale.

Remember Jas. A. Fee & Son, Stafford, Kan., will disperse their entire herd of Percherons at the farm near Zenith, Kan., and six miles east of Stafford, Kan., Friday, February 21. These Percherons were selected and imported by Mr. Fee. Among them are Hutchinson State Fair winners. The mares are heavy in foal to the imported Invittif, a richly bred and proven sire. These horses will sell regardless of price, rain or shine, so be present for bargains. Read display ad on another page and arrange to attend the sale. In writing for particulars please mention this paper.

Becker Offers Good Sows.

J. H. Becker, Newton, Kans., changes his ad with this issue. He is out of spring boars but has some excellent fall boars and gilts. He is pricing for quick sale a few tried sows and spring gilts safe in pig to Hadley's Wonder 62806, by Sharon Wonder

the tried sows and is a hog of wonderful scale and quality as well. Most of the sows and gilts are safe in pig to Blue Valley Price or Blue Valley Hutch, two of the best sons of Blue Valley Quality 43026, the 1000-pound boar owned by Thos. Walker & Sons. These sows and gilts are the large, smooth kind and bred to boars of such quality combined with scale cannot help but produce litters that will start you with the right kind of hog seed. Write today for catalog. Please mention Farmers Mail and Breeze.

Hershberger's Two Day Sale.

J. P. Hershberger, Harper, Kansas, will sell 30 horses and 30 cattle Wednesday, February 19th; also 30 choice Duroc-Jersey swine, Thursday, February 20th. Included in the horse sale will be 12 head of purebred Percheron stallions and mares both imported and home bred. Those who are on the look out for good Percherons should be sure and arrange to be present sale day. Of the 30 cattle, 20 head are weaned Shorthorn and Polled Durhams, reds and roans, including a number of good young double standard bulls 6 to 24 months old. The Duroc swine will be sold the last day of the sale, Thursday, Feb. 21. There will be sold 20 head of choice Duroc bred sows and gilts and four good boars. They carry the most fashionable lines and are as good as you are likely to see sold this winter. Write today for catalogue mentioning Farmers Mail and Breeze.

Last Call to Stith's Sale.

Chas. Stith, Eureka, Kansas, whose sale will be held under cover, rain or shine, Wednesday, February 19th, wants to send you his catalogue. If you are in position to use a bred sow or gilt here will be one of the best opportunities of the season. The writer has personally inspected the offering and pronounced it good. Mr. Stith is putting in 15 of his best herd sows, every one mated. Included as attractions will be Marjory, by Pilot Wonder (Chie), by Selley's Pilot Wonder and out of a daughter of Inventor; Beauty, by Tatarax and out of College Girl, by Chapin's Duroc; Rose Orion, by Orion's Son, and Eureka Model by Eureka King and out of a daughter of Hunt's Model. The leading feature of this sale is the fact that the sows and gilts of this offering are strong in prize winning blood and are bred most of them to Model Duroc, a sire that is putting show yard quality with plenty of bone and size on almost every litter of his get almost regardless of the quality of the sow with which he is mated. This offering will probably have to go most to the farmers and stockmen of Greenwood county, but the fact remains that nearly every number in the catalog is good enough to bear shipping out of the state. Mr. Breeder if you can use a few bred sows or gilts don't fail to read the display ad in this issue and send for a catalogue and come or send a bid for one of these good sows or gilts bred to Model Duroc. Please mention Farmers Mail and Breeze.

Blackshere's Prize Winners.

J. R. Blackshere, Elmdale, Kan., will make a draft sale of 40 bred sows at his farm on Saturday, February 22. This offering might well be called a blue ribbon offering as many of the animals included are either prize winners themselves or are sired by boars or produced from sows that have been consistent winners. The following specials in this offering might be mentioned: Daughters and granddaughters of Top Notch, these grand champion sow of 1910; half sisters to Rose Tatarax, champion sow of 1912; sisters and half sisters to Wonder Lass, grand champion sow, 1911; daughters of King's Surprise, one of the best brood sows on the Blackshere farm, and daughters of Top Notcher Girl, one of the few Top Notcher sows living. The offering is sired by first prize boars and bred to first prize boars. There will be as much, or more, champion blood in this sale as will go in any sale ring this year. In 1909, the Blackshere herd won four firsts, one second, three championships and one grand champion hip. In 1910 it won seven firsts, two seconds, and five championships. In 1911 it won three firsts, two seconds, two championships and first prize for best herd any age. In 1912 it won 14 firsts, 10 seconds and five championships. This is the kind of breeding and the kind of champions that Mr. Blackshere is offering in his February 22 sale. If you have not already done so it is not too late to get his catalog if you write for one at once. Col. L. E. Burger will do the selling in this sale. A. B. Hunter will represent Farmers Mail and Breeze. If you find it impossible to attend the sale and want to buy some of this good stuff bids entrusted to either Col. Burger or Mr. Hunter in Mr. Blackshere's care will be handled honestly and to the interest of the buyer. Mr. Blackshere especially invites you to attend the sale. If you cannot do so, your bids will be appreciated.

Kansas and Nebraska.

BY J. W. JOHNSON

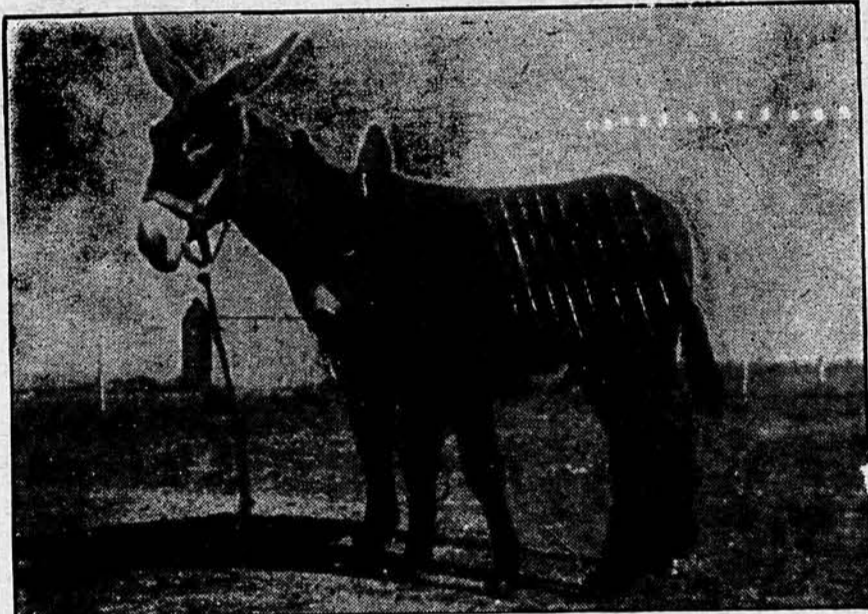
One of the greatest offerings of registered imported and American bred Percherons of the year will be made by J. C. Robison, Towanda, Kan., and Willard R. Brown, Minneapolis, Kan., in their sale at the stock yards, Kansas City, Mo., March 5. Do not fail to send for catalog. Address either of the consignors.

Myers's Duroc-Jersey Sale.

E. M. Myers of Burr Oak, Kan., will sell 35 head of Duroc-Jersey bred sows and gilts on Wednesday, February 19. Mr. Myers has made arrangements to hold this sale in comfortable quarters and invites both farmers and breeders to come and partake of the good things he is going to offer. By looking at his ad in this issue you can see a photograph of 14 of the kind he is selling in this sale. You will note that they are as like as peas in a pod. The offering is well grown and in splendid condition and represents as good breeding as you can find. If you cannot attend the sale send bids to J. W. Johnson, fieldman for Farmers Mail and Breeze, who will handle all commissions in the interest of the buyer.

Last Call R. & S. Duroc Sale.

This will be the last time we will have occasion to remind our readers of the splendid offering of Duroc-Jersey sows and gilts in the R. & S. sale at Smith Center,



One of H. T. Hineman's Jennets With Colt at Side by the Champion Pharoah.

or money in building up their respective herds and they offer you now, and no doubt at much lower prices, as good individuals as can be found in Missouri, Kentucky or Tennessee. If you want something good write today for a catalog and arrange to attend. Please mention Farmers Mail and Breeze.

Duroc Bred Sows and Gilts.

R. C. Watson of Altoona, Kan., who has been a regular advertiser in Farmers Mail and Breeze for the past year, renews his contract for another year. Mr. Watson has a splendidly bred herd of Duroc-Jersey hogs. He has enjoyed a nice line of business and has satisfied his customers in every transaction. There are no better bred Duroc-Jerseys than the ones offered by Mr. Watson and his prices are very reasonable when breeding and quality are considered. At the present time he has a few bred gilts and a nice lot of fall boars and gilts. On any of these he will make very attractive prices. Write him, mentioning Farmers Mail and Breeze.

Kansas' Greatest Jack Sale.

J. D. Hutchins, Sterling, Kansas, and H. T. Hineman & Sons, Dighton, Kansas, in joint sale at Sterling, Kansas, will sell Tuesday, February 25th, 40 head of jacks and jennets. This is an offering that would do credit to any breeder in any state of the Union. These jacks and jennets are by such noted sires as Orphan Boy, High-Tide, Jumbo and other great sires. The jennets either have colts at side or are bred to sires of equal note. There will be 25 jacks and 15 jennets contributed about in equal numbers from these two good herds. Both Mr. Hutchins and Mr. Hineman have spared neither pains nor expense in laying the

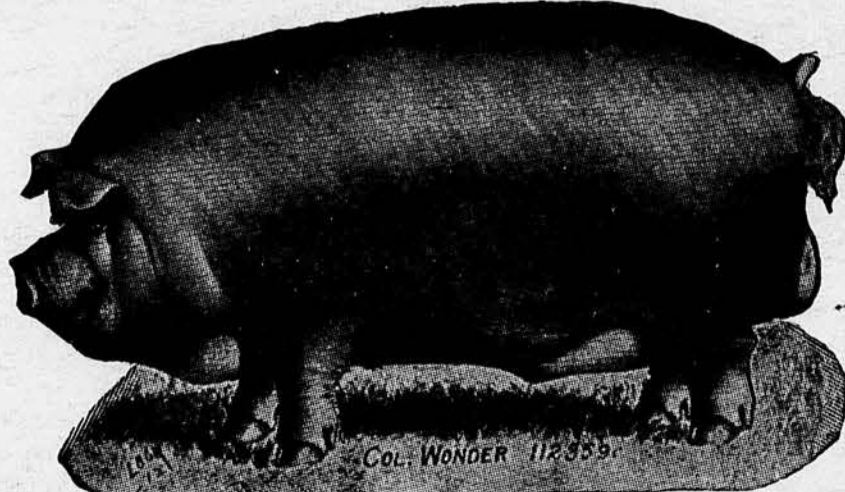
by A Wonder and out of Mabel, by Spangler's Hadley. He is a splendid individual and his pigs not only have plenty of size but quality. The sows and gilts are sired by such boars as Acme Perfection, Trouble Maker II, Sport, by Grand Chief, Big Dude, Expansion Over and Ideal Chief by Regulator, also a daughter of Mastodon Maid 42nd. If you want something worth the money write your wants today, mentioning this paper.

Sells a Shorthorn Each Day.

Don't forget that H. C. Lookabaugh, Watonga, Oklahoma, is waiting to show you these Shorthorns and that if you want as good blood as can be found and quality of the show yard kind you will find it right at Lookabaugh's. You will find him a nice, easy man to deal with. If your note is all right you don't need the money to do business with Mr. Lookabaugh. In his last letter to the writer he stated "I have sold on an average, one Shorthorn a day for the last month and did not fail to deal with a single man who tried to buy of me." Read his advertisement in this issue and when you write or call, please mention Farmers Mail and Breeze.

Big Type Brood Sows.

Francis Oliver & Sons, Danville, Kans., will sell Friday, February 28th, 55 head of Poland Chinas, (big type with quality) consisting of 17 tried sows, 33 spring and fall gilts and 5 spring boars. Everything strictly immune. This is one of the best offerings, considering size and quality, ever held in southern Kansas. Among the tried sows are numerous attractions worthy of special mention, such as the great sow, Black Expansion 140447, by Giant Expansion 55657. Giant Expansion is the sire of most of

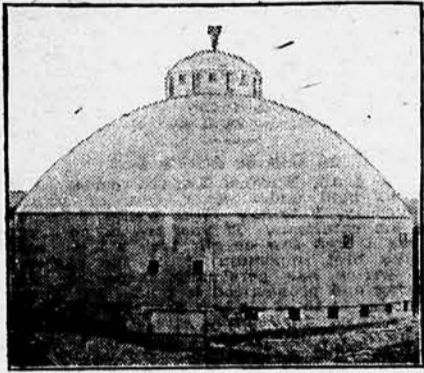


COL. WONDER 112359

Col. Wonder, the prize winning boar at the head of Chas. L. Taylor's herd of Duroc-Jerseys at Olean, Mo. This boar was first in class at both the Missouri State Fair and the American Royal last year. Mr. Taylor is offering a number of choice gilts for sale bred to this boar.—C. H. W.

Kan., Thursday, February 20. This offering will contain perhaps the largest number of bred sows and gilts that will be sold in Kansas this season. A glance at the illustration in the ad in this issue will show the kind of hogs Messrs. Rinehart & Sons are putting in this sale. The offering is made up of the tops from this splendid herd. The breeding is as good as can be found as will be seen by the description in the ad. If you need some good Durocs don't overlook this opportunity. Arrange to attend the sale if you can. If not, get the catalog and make selection of the line of breeding you want and write J. W. Johnson in care of Mr. Rinehart. He will handle your bids in your interest.

In this issue Fred R. Cottrell, Irving, Kan., is offering for sale 25 registered Hereford bulls ranging in ages from 9 to 15 months old. Mr. Cottrell is the oldest breeder of Hereford cattle in Marshall county, which has been known for years as a Hereford center. He also breeds Poland Chinas and Barred Rock chickens. He is



Fred Cottrell's circular barn, 100 feet in diameter, 80 feet high. Capacity 300 cattle, 50 tons hay, 1,000 bushels grain. Cost \$5,000.

pricing these bulls very low to close them out. He is pricing them from \$75 to \$100 delivered at your railroad station. Look up his ad which appears in this issue. We will have more to say about the offering of bulls later on. This is your opportunity if you need a bull.

Harter's Poland China Sale.

J. H. Harter of Westmoreland, Kan., owns one of the best bred herds of big type Poland Chinas in the state. On Tuesday, February 18, he will sell from his herd a draft of 50 bred sows including spring gilts, fall gilts and tried sows. In addition to the sows he will sell five summer boars that are individually good enough to head any good herd. The breeding is as good as the best. Mr. Harter is reducing his herd. The tried sows offered in this sale are the dams of the fall and spring gilts in offering. This sale will afford the opportunity for breeders to get some good sows that would not be for sale if it were not for the fact that Mr. Harter is cutting down his herd. Among the noted boars represented in the offering are Mogul's Monarch, Gephart and Prince Hadley. Attend the sale if you can, if you cannot send bids to J. W. Johnson, who will handle them to your interest.

Washington and Marshall Counties.

As an all around farming and stock raising proposition the farms in the above named counties are probably not second to any other farms in the state of Kansas. The soil of these counties is very fertile and will produce splendid crops of alfalfa, corn and wheat. Both counties have an abundance of exceptionally pure water. The annual rainfall is around 40 inches. These counties have produced 13,000,000 bushels of corn and 3,000,000 bushels of wheat in a single year. Farms in these counties are considered the very best security by men who have money to loan on farm mortgages. Taxes in these counties are very reasonable. The prospective farm buyers can find practically everything in connection with farming in these counties to their advantage and to any such we recommend Pralle Bros. of Bremen, Kan. This firm has an exceptionally large list of splendid farms which are offered at bargain prices.

The Garrett-Current Sale.

The Geo. E. Garrett and T. J. Current combination sale of Duroc-Jersey bred sows held at Bloomington, Neb., last Saturday was just fairly well attended. Both consignments were good and the average of only \$30 was not enough as compared with averages being made in other sales. Mr. Current is a well known breeder at Hildreth, Neb., and has held a number of successful sales in the past. George Garrett is a young breeder of Bloomington, that is making good. Below is a partial list of the buyers:

- No. 1—O. E. Madison, Kensington, Kan. \$30.00
- 2—L. Greening, Bloomington, Neb. 35.00
- 3—Alfred Beck, Bloomington, Neb. 28.00
- 4—Geo. Henderson, Bloomington, Neb. 31.00
- 5—E. Reams, Franklin, Neb. 32.00
- 6—J. Hill, Bloomington, Neb. 27.50
- 7—Harry Dunn, Bloomington, Neb. 22.00
- 8—J. G. Watson, Bloomington, Neb. 25.00
- 17—E. D. Hager, Bloomington, Neb. 30.00
- 20—John Weed, Bloomington, Neb. 25.00
- 21—Garrett & Son, Bloomington, Neb. 50.00
- 22—W. J. Fredrich, Macon, Neb. 50.00
- 23—M. Narburg, Franklin, Neb. 33.00
- 24—John Boyson, Minden, Neb. 35.00
- 26—Roy Page, Friend, Neb. 28.00

Keeping Up the Average.

Samuelson Bros.' sale at Cleburne, Kan., last Wednesday was well attended by both farmers and breeders. The prices received were not as good as the quality warranted but the average of \$33.40 on the 54 head was satisfactory to Samuelson Bros. This was their regular annual sale. The prices ranged very even. The top price was \$50 paid by John Pishney of Cleburne for number 2 which was a very fine tried sow. He was the heaviest buyer in the sale. The sale was snappy from the start and Col.

Brady sold the 54 head in less than two hours. Below is a partial list of the buyers:

- No. 1—Oscar Carlson, Cleburne, Kan. \$41.00
- 2—John Pishney, Cleburne, Kan. 50.00
- 3—V. E. Vilander, Cleburne, Kan. 37.00
- 6—Carl Lundin, Irving, Kan. 33.00
- 11—Sol Secrest, Randolph, Kan. 30.00
- 13—Sam Stone, Leonardville, Kan. 40.00
- 14—J. R. Blackshere, Elmdale, Kan. 41.00
- 15—M. P. Case, Cleburne, Kan. 39.00
- 16—Y. Eckman, Vinland, Kan. 35.00
- 18—Thompson Bros., Garrison, Kan. 33.00
- 19—Harry Gustafson, Cleburne, Kan. 34.00
- 20—Edgar Erickson, Cleburne, Kan. 34.00
- 22—O. A. Linder, Randolph, Kan. 35.00
- 26—J. A. Hawkins, Bigelow, Kan. 34.00
- 28—H. B. Miner, Cuda Rock, Neb. 37.00
- 29—T. E. Goethe, Leonardville, Kan. 39.00
- 34—Louis King, Solomon, Kan. 40.00
- 35—Howell Bros., Herkimer, Kan. 37.00
- 36—B. B. Cook, Randolph, Kan. 30.00
- 41—L. P. Johnson, Cleburne, Kan. 30.00
- 45—Erick Erickson, Olsburg, Kan. 27.00

Offer Their Prize Winners.

Under date of February 3, Wolf Bros of Albion, Neb., make the following announcement. "We beg to say that our horses are in pink of condition and business is opening up in good shape. We have sold in the past 10 days a black 2-year-old Percheron stallion to Mr. Dean of Pierce, Neb.; a bay Belgian stallion to Mr. Volk of McLean, Neb.; a grey 4-year-old Percheron stallion to Mr. Foster of Aldine, Neb.; a black Percheron stallion to Mr. Douthitt of Wayne, Neb.; a sorrel Belgian stallion to the Olebott Belgian Horse Co. of Odebolt, Iowa. We also sold to Mayer Bros. of Uniontown, Wash., a Belgian and a Percheron mare. We have decided to sell every one of our prize winning stallions and mares, 22 in all, a grand lot of individuals, at prices that cannot be duplicated, quality taken in consideration. They all have quality, draftiness and weight and will appeal to anyone who really is looking for high class breeding stock. We will be glad to send to anyone interested, free photos from life upon application." Note their new display ad and write them.

K. S. A. C. Hogs Sell High.

Kansas State Agricultural college held its first sale of bred sows in their sale pavilion Friday, February 7. In the forenoon 37 head of Berkshires sold at an average of better than \$35. In the afternoon 31 Durocs sold at an average of just a little less than \$54. The buying was confined to Kansas farmers and breeders but covered a wide range in the state. The arrangement for selling at the college is the best. They have a splendid sale pavilion, well heated and supplied with an abundance of light. The buying audience was large and very enthusiastic. Col. L. R. Brady, unassisted, sold the entire offering. The 31 Duroc-Jerseys selling in one hour and 20 minutes, at the splendid average quoted above. The buyers were not nearly satisfied when the last of the gilts were driven into the ring. They would have taken 20 more at practically the same figures paid for the 31 head sold. The first 10 head, sold at an average of \$50; the second 10 at average of \$52.50; and the third 10 at average of \$53.75. This sale was exclusively a Kansas affair. The offering was bred and developed by the state, sold by a Kansas auctioneer and bought by a Kansas crowd. Practically all of the Duroc-Jersey gilts were less than 1 year old and that the offering was first class and presented in



This is an untouched photograph of the fall sows that go in W. Pfander & Son's Feb. 28th sale. The fall sow in foreground is No. 2. All the Long King fall sows are in the picture. We are sure the bunch will average over 500 pounds each, and you can see their condition. We consider them as valuable a bunch as we ever drove into a ring.

first class condition goes without saying. Everything in connection with the sale reflected much credit on Prof. Cochel and Prof. Wright. Kansas has every reason to feel proud of the Agricultural college and especially the animal husbandry department and this department has every reason to feel proud of the way in which their first public sale offering was received by the state.

Duroc-Jersey Fall Pigs.

Arthur A. Patterson of Ellsworth, Kan., is changing his ad, having sold all his bred sows. He is now offering 30 head of top Duroc-Jersey fall pigs. These pigs are of Kant Be Beat, Crimson Wonder and Colonel breeding. This offering of 30 is the top of his crop of fall pigs numbering about 80 head. They are all registered and will be priced, delivered to your express office. If interested write Mr. Patterson. He will make you close prices.

Kansas, Missouri and Iowa.

BY C. H. WALKER.

Robison-Brown Percheron sale, at stock yards, Kansas City, Mo. Address J. C. Robison, Towanda, Kans., or Willard R. Brown, Minneapolis, Kans.

Last Call—Davis Hampshire Sale.

On next Tuesday, February 18, W. F. Davis will hold his big Hampshire hog sale at the stock yards at South St. Joseph, Mo.

This is one of the big sale events of the winter season and should be one of the best. In all 190 head will be sold, 150 bred sows and 40 boars. Mr. Davis's annual sales are meeting places of the Hampshire breeders from far and wide. His hogs are the true Hampshire type, sired by and bred to the best boars obtainable. Besides being good individually and carrying the best Hampshire blood they have been given the simultaneous treatment and should be immune from cholera—this fact alone being of untold advantage to the buyer. Remember the sale comes next Tuesday, February 18—arrange to be there.

The Kansas City Hereford Sale.

The event of the season in Hereford circles will be the seventh annual sale to be held at Kansas City on March 4 and 5 by Funkhouser, Gabbert & Others. These sales, which are held each year in March at Kansas City, under the management of Dr. R. T. Thornton, have come to be recognized as among the best places to secure high class breeding stock both in bulls and females and the offering of 100 head which will be sold this year includes the best lot by far ever contributed by these leading breeders. Sixty bulls and 40 females will be sold and each contributor has made a special effort to put in the very best his herd affords. The members of this sale association, which include the leading breeders of Missouri depend upon these sales as the market for their best produce. Each contributor has selected his best for this sale and they have been in training for this event for many months. Such sires as Caesar, Simoon, Onward 46th, Onward Lad

J.R.'s CHIEF. 97767

40 Head Duroc-Jersey Bred Sows

GOOD AS GROW
From Blackshere Farm, Elmdale, Kansas, Saturday, Feb. 22

12 spring yearlings, 17 fall yearlings and 21 spring gilts. Most of the offering is sired by J. R.'s Chief, best breeding Ohio Chief boar in the West, out of Lincoln Model, greatest producer of show stuff of any Duroc sow living. The offering is bred to Young Chief and Big Chief (litter brothers) and Model Bob (by J. R.'s Chief and out of Model A, first prize sow 1910), all first prize boars this year and Model Bob is an outstanding candidate for championship honors this fall.

Special Attractions:

Daughters and granddaughters of Top Notcher Rose, grand champion sow, 1909; half sisters to Rose Tatarax, grand champion sow 1910; sisters and half sisters to Wonder Lass, grand champion sow, 1911; daughters of Top Notcher Girl, one of the few Top Notcher sows living, also a few daughters of King's Surprise, one of the best brood sows ever on my farm.

There will be as much, or more, champion blood in this sale than can be found in any sale offering in the West. Every animal is in fine breeding condition, having run to the alfalfa stacks all winter with a liberal grain ration. All sows will show safe in pig.

I invite my Brother Breeders and Farmer Friends to be my guests February 22nd. I believe in my hogs. Please write for catalogue.

J. R. BLACKSHERE, Elmdale, Kansas

Auctioneers—Cols. Lafe Burger and Crouch & Woods. Fieldman—A. B. Hunter.

DUROC-JERSEYS.

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, Biddy and Monarch families. 45 head tried sows and gilts in our bred sow sale, February 5. Stock for sale. Send for catalogue.
MOSER & FITZWATER, GOFF, KANSAS.

DORR'S DUROCS
15 Fall boars and 20 gilts. Crimson Wonder breeding. All immune. Special low price. A. G. DORR, Osage City, Kans.

Pleasant View Durocs. Bred sows at private sale. Spring gilts, fall yearlings and tried sows. All immune. Write for prices. T. P. TEAGARDEN, Wayne, Kas.

BRED GILTS I have an exceptionally fine lot of Duroc gilts bred to my prize winning boars for sale. Also a few top summer boars. Write for prices and description.
CHAS. L. TAYLOR, Olean, Mo.

ROYAL SCION FARM DUROCS
Fashionably Bred Durocs, spring boars and bred gilts, by the great Graduate Col. Also sows and gilts bred to him.
C. C. Norman Prop., Winfield, 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.

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 Tatarax. 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.

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.

BEAVER VALLEY HERD DUROCS
Sept. and Oct. boars and gilts sired by Grand Master Col. 2nd No. 9493; Grand Champion of Oklahoma, both 1912 and 1913; Defender's Col. by Defender and Select Col. by Chief Se ect, the great show and breeding boar. Satisfaction guaranteed. W. A. WILLIAMS, Marlow, Okla.

30 HEAD of Duroc-Jersey fall pigs of "Kant be Beat" and Col. breeding. Registered. Priced reasonable and delivered your station. Either sex.
ARTHUR A. PATTERSON, Ellsworth, Kan.

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.
D. O. BANCROFT, OSBORNE, KANSAS.

Good E Nuff Again King 35203
The great Duroc boar of the West and Crimson Wonder 4th, 43655 head our great herd. Sale of 35 bred sows and gilts March 11. Send for catalog. Reduced price on boars for 30 days.
W. W. OTEY & SONS, WINFIELD, KAN.
"The Men With the Guarantee."

Duroc Bred Sows
At private sale, bred to King the Col., a 1,000 lb. boar, Col. Willetta by Prince of Coles, 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.

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.

MULE-FOOTED HOGS.

The coming hogs of America: hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free.
DR. W. J. CONNER, Labette, Kan.

the offering and a splendid tribute from old patrons to the honesty and integrity of the man, H. Fessenmeyer. Mail bids and orders entrusted to the fieldmen were sufficient to have consummated a successful sale at a high average in the office of the city hotel, on the evening before the auction. The sale was conducted in keeping with the methods of the owner. On bringing the animals into the sale ring every defect and fault, visible or invisible, was pointed out by Mr. Fessenmeyer, whose wish as expressed by him was that every sow in the sale would prove a moneymaker to the purchaser. The top price was \$280.00 paid for King's Lady, a four-year-old sow and duplicated for an eleven months' old gilt, bred to A Wonder. Col. H. S. Duncan conducted the sale. The names and addresses of the buyers are subjoined. Harry Nelson, Miami, Tex.; Fred Road, Clearfield, Ia.; Stephen Brown, Shenandoah, Ia.; J. A. Beaumaster, Elma, Ia.; J. B. Lawson, Clarinda, Ia.; Ed. Brinkhoff, Galva, Ills.; Adam Ashbaker, Mount Sterling, Ills.; W. W. Carter, Jacksonville, Ills.; Ferguson & Newcomb, Dunlap, Ia.; A. Kuhl, Fairfield, Ia.; Frank Roberts, Earlham, Ia.; C. C. Beverly, Tulom, Ills.; E. C. Wade, Perry, Ills.; Glatt Jones, Davis City, Ia.; E. J. Oxberger, Iowa; C. F. Buffon, Leroy, Ia.; Geo. Ruby, Lacey, Ia.; Joe Hemmey, Hill City, Kans.; Allen Martin, Cooperstown, Ills.; O. J. McCawley, Joy, Ills.; J. A. Johnson, Clarinda, Ia.; G. H. Paul, Washington, Ia.; M. F. Rickett, Seward, Kans.; Lee Dearth, Onega, Ill.; Oscar Hansel, Egglestein, Ills.; H. F. Adams, Castle, Ia.—G. W. B.

Big Type Poland China Sows.

The attention of Poland China breeders is called especially to the sale of big type bred sows announced by R. W. Halford to be held at Manning, Ia., on February 21. The breeders who patronize this sale will have the opportunity to purchase bred sows from one of the largest and best herds of big type Poland Chinas which the writer has had the privilege of inspecting. This offering has been selected from a herd of over 100 large sows and reserved for this sale with the purpose of making an offering creditable to the herd and in the broader sense reflect credit on the big type herds of this popular breed. The offering is strongly representative of the great boar Mabel's Wonder, the first prize aged boar at the Iowa State Fair, 1912, standing at the head of his class in the greatest show of the breed. The catalog should be in the hands of everyone interested in big type Poland Chinas. The offering is of high quality and smoothness. It is the most uniform collection of big, smooth sows and gilts free from coarseness, wrinkles and defective bone. Those who attend this sale will not be disappointed on seeing the offering. Breeders who cannot with convenience attend this sale may entrust their orders, on anything they may select from the catalog, to the writer, G. W. Berry, representative of this paper, care R. W. Halford, Manning, Ia., with the assurance that such orders will be executed in all fairness and with justice to the buyer.

O. S. Larson's Duroc Sale.

One of the good swine sales of the year was held by O. S. Larson, breeder of Duroc-Jerseys, at Logan, Ia., on January 30. The excellence of the offering and the good blood lines represented attracted the attendance of breeders from several states. A dominant factor in making one of the best bred sow sales of the season was the herd boar King the Col., one of the outstanding sires of the breed. The average price received for the sows that were sired by or bred to King the Col. was over \$100 per head, which is a high testimonial to the high esteem in which this great Duroc boar is held by the leading breeders. The general average received on 40 head was \$81, and the top price was \$177.50 for a February gilt got by King the Col. Mr. Larson who prior to the sale owned a half interest in King the Col., has since purchased the other half interest in the boar and is now the sole owner of this great Duroc sire. Col. N. G. Kraschel was the auctioneer. Names of buyers and addresses are listed. Barker Bros. & Croyell, River-ton, Ia.; Emmet Manley, Lyons, Neb.; P. W. Heburn, Dennison, Ia.; John Tupper, Woodbine, Ia.; R. G. McDuff, Monroe, Ia.; Ira Good, Melvern, Ia.; E. L. Gaston, Melvern, Ia.; A. E. Swanson, St. Edward, Neb.; B. W. Hunt, Dennison, Ia.; G. H. Willisie, Prosper, Minn.; Moats & Son, Missouri Valley, Ia.; Leon Carter, Asherville, Kan.; H. E. Browning, Hershman, Ill.; J. B. Ashba, Audobon, Ia.; Wm. Kirkpatrick, Harlan, Ia.; O. E. Osborn, Weston, Ia.; John Story, Woodbine, Ia.; C. E. Veak, Essex, Ia.; John Carlos, Rhodes, Ia.; W. N. Seddon, Persla, Ia.

James's Big Type Sale.

One of the most satisfactory sales of big type Poland China bred sow sales of the season was held by J. O. James at Braddyville, Ia., on Feb. 7th. The breeding herd owned by Mr. James is held in high esteem by leading breeders throughout the American corn belt. For size, substance, easy feeding and early maturing qualities and uniformity and truthness of type the James herd holds first rank among the herds of big type breeders. Mr. James has achieved marked success especially with the mating of the famous sire Big Orange with the sows by the celebrated Poland China sire Pawnee Lad. In his opening address Col. H. S. Duncan paid high tribute to the individuality and breeding of the young herd boar Ott's Big Orange a son of Big Orange and Ott's Choice a sow by Pawnee Lad, and predicted a brilliant future for the young boar; and good judges freely pronounced Ott's Big Orange the best young boar of his age and most promising sire of the breed now before the public. The offering of 45 head was conceded by the breeders in attendance to be equal in merit if not superior to any other of like number and ages that have been presented for public appraisal. The highest price was \$172.50 paid on the order of Mr. Ed. Klever of Bloomingsburg, Ohio, a constructive breeder of Poland Chinas, for an eleven months' old gilt bred to Ott's Big Orange. The average made on 45 head was \$84.75. Buyers were present or represented by mail bids from several states. The names of buyers and their addresses follow: J. Fogarty, Central City, Ia.; J. M. Painter, Mount Summit, Ind.; Snatton Bros., Schuyler, Neb.; J. K. Roll, Iowa; Mr. McDaniel, California, Mo.; Morgan Wood, Florida, Ind.; Frank Roberts, Earlham, Ia.; M. F. Rickett, Seward, Kans.; O. H. Sprout, Galt, Mo.; Ed. Klever, Bloomingsburg, Ohio; Richard Porter, Troy, Kans.; A. O. Stanley,

O. I. C. SWINE.

CHESTER WHITE HOGS
Good quality, either sex, the short nose kind. Write for prices. FRANK PROCHASKA, Glasco, Kans.

STAR HERD O. I. C's.
Breeding stock of various ages, either sex. Best breeding re, sents 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.

HAMPSHIRE.

Pure Bred Hampshires
Inspect our herd or write for prices. Our motto is to please. ALVIN LONG, Lyons, Kansas.

WRITE J. F. PRICE, Modora, Kans. For prices on Pedigreed Hampshire Hogs

Try The White Belts
Special prices on boars; also bred sows and gilts for sale. Address T. W. Laylock, Princeton, Kas.

Pedigreed Hampshires
of various ages, not a kin. Four boars, 8 months old. C. E. LOWRY, Sumner County, OXFORD, KANSAS.

POLAND CHINAS.

40 Sows and Gilts Bred and open for sale; of the higher order of Poland Chinas. ROY JOHNSTON, Southmound, Kansas.

Dean's Mastodon Polands
Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. 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

Summer and Fall Pigs!
of both sexes. Priced to sell. Everything registered. Best of breeding.
P. C. GARRETT & SON, Bloomington, Neb.

Becker's Poland Chinas
Sows and gilts safe in pig to Hadley's Wonder, 62806. Also a few open gilts and fall boars. Price for quick sale. Satisfaction guaranteed.
J. H. BECKER, NEWTON, KANSAS.

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. 40 late summer and early fall pigs priced cheap. Dietrich & Spaulding, Richmond, Kas.

BROOD SOWS For Sale
Ten tried brood sows, ten fall gilts and ten early spring gilts all safe in pig to Forrest Wonder and Long King. Big Poland Chinas at reasonable price. Will not hold a winter brood sow sale. These are priced to sell. Our herd boars are Designer, Good Medal and Major Look.
C. S. NEVIUS, CHILES, KANSAS.

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.



A few fall males by Defender. Bred sows at reasonable prices.
PHIL DAWSON, SO. ST. JOE, 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.
OLIVIER & SONS, DANVILLE, KANSAS.

NEBRASKA TYPE. A fine lot of summer and fall pigs by Hyden's Big Hadley 2nd, Pan Wonder and Neb. Chief. Bargain in the best. C. C. Ingram, Bloomington, Neb.

POLAND CHINAS Select young boars, gilts bred or open. Prices right. Call for catalog.
Address H. L. BROOKS, LARNED, KANSAS

QUALITY and SIZE Big, Smooth Poland Chinas bred sows and summer pigs for sale. LAMBERT BROS., SMITH CENTER, 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.

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.

Big Polands and Barred Rocks. Herd boar bred. Tried sows and gilts. Big bone, big litter, big quality. Low prices. Fine big cockerels, \$1.00 to \$2.00.
W. C. MILLIGAN, - - Clay Center, Kansas.

BIG TYPE POLANDS
Summer and fall pigs both sex, strong in the blood of Big Hadley and A Wonder. Sows and gilts, big, smooth kind, bred for early litters. Description guaranteed. Call or write A. R. ENOS, Ramona, Kan.

Schneider's Poland Chinas
Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and G. Hadley. Also 10 head of yearling sows bred to these boars.
JOE SCHNEIDER, Nortonville, 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.

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.

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.

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

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.

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. BAIER, ELMO, KANSAS.

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 boar, and I return your money.
F. F. ROBINSON, MARYVILLE, MISSOURI

Poland China Pigs
of Sept. farrow, \$18 each, 2 for \$35. Heavy boned, growthy and well grown out. Sired by Expansion Too 69484 and their dams by Blain's Last Hadley, Pawnee Price, Big Smoke and Cowles's Tecumseh, representing the herds of Blain, Williams Bros. and Longegran. Were given a heavy dose of serum Nov. 26th. First check gets first choice.
F. S. COWLES, E. R. No. 2, Lawrence, Kan.

GALLOWAYS.

G. E. CLARK, W. W. DUNHAM, CAPITAL VIEW GALLOWAYS, 12 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

DAIRY CATTLE.

HOLSTEINS FOR SALE—30 head of registered...

BANKS' FARM JERSEYS Quality with milk and butter records.

LINSCOTT JERSEYS Only registered herd of merit in Kansas.

OAK HILL HOLSTEINS Bulls ready for spring service by Shady...

HOLSTEINS—CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

Holsteins For Sale High grade cows and heifers. About 40...

Holsteins! I will sell the following high grade Holsteins...

HEREFORDS. BLUE GRASS Herefords STOCK FARM...

Klaus Bros.' Herefords! We offer 16 head of strong, rugged bulls...

Mathews Herefords We are offering 20 registered heifers...

Star Breeding Farm HEREFORDS Headed by Tophus 4th...

Blue Valley Breeding Farm Herd of Herefords established 20 years ago...

Modern Herefords ROBT. H. HAZLETT Hazford Place...

POLLED DURHAMS. Polled Durham Bulls Six well bred young bulls...

Prize Winning Polled Durhams One traveling bull and several bull calves...

Shenandoah, Ia.; Wm. Fisher, Garwin, Ia.; C. C. Vake, Burbon, Ind.; W. H. West, Schubert, Nebr.;

W. H. Seddon's Duroc Sale. A successful sale of Duroc-Jersey bred sows was held by W. H. Seddon at Persla, Ia., Jan. 31st.

Iowa and Illinois. BY H. W. GRAHAM.

Wm. T. Trotter, Mt. Ayr, Ia., on the St. Joseph and Chariton branch of the C. B. & Q. Ry., is calling attention to his big jack sale.

Bloomington Horse Sales Report. Large crowds attended the breeders' sale of four days' duration of horses at Bloomington, Ill., the week of January 28 to 31.

Kansas and Missouri BY ED. R. DORSEY.

Do not forget the Robison-Brown sale of registered Percherons at the stock yards, Kansas City, Mo., March 5th.

No Bred Glits for Sale. A. G. Dorr, Osage City, Kan., is advertising 15 fall boars and 20 fall glits.

Deming Ranch Poland Sale. On February 25 the Deming Ranch at Oswego, Kan., will sell 50 head of bred sows and glits.

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.

Young Heifers and Bulls at \$50, \$75 and \$100 each. Two Heifers and a Bull, not related, \$200 for the three.



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.

Registered GALLOWAY CATTLE "We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

SHORTHORNS. SHORTHORN CATTLE POLAND CHINA SWINE and CLEVELAND BAY HORSES.

SHORTHORNS 8 bulls from 12 to 18 months. Roans and reds. Scotch Tops.

SCOTCH AND SCOTCH TOPS Young Bulls, Scotch and Scotch Topped. Also a few choice Cows and Heifers.

Pearl Herd of Shorthorns I have a select bunch of young bulls from six to 20 months old.

ANGUS CATTLE Bulls and females for sale singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

RED POLLED CATTLE. Foster's Red Polls Write for prices on breeding stock.

RED POLLED BULLS and heifers by Aetor 1781 and Launfal 13221. Cows large, plenty quality, represent best milking families.

Jacks and Jennets One of the largest selections of large Black Mammoth Jacks in the West.

Oakland Stock Farm The Jacks on this farm are all raised there. This is strictly a breeding farm.

JACKS AT PRIVATE SALE If you want the good kind, come to one of the oldest breeding barns in the state.

Second Annual Sale Jacks & Jennets At My Barns in Town Mt. Ayr, Iowa, Thurs., Feb. 27

30 Head 15 Mammoth Bred Jacks, 15 Choice Jennets all bred. The 15 Jacks are broke and ready for service.

WM. T. TROTTER, Mt. Ayr, Iowa Auctioneers: COL. HARRIMAN and others.

JACKS AND JENNETS.

JACKS FOR SALE

Two big boned black jacks with mealy points, coming three and five years old. They are fine performers, good dispositions; both are over 16 hands, "big fellows." Good reasons for selling. Write or come. A. B. HAGUE, Kiowa, Kan.



Kingfisher Valley Stock Farm 50 registered big boned black jacks and jennets from colts to 16 hands; no better anywhere. Prices right. J. H. SMITH, Route 3, Box 17, Kingfisher, Okla.

Jacks and Saddlers

45 of the biggest bone and best Mammoth Jacks in Kentucky. Saddle stallions, mares, colts and fillies. Write for catalog and visit the Cloverdale Farm. H. T. BROWN & CO., Lexington, Ky.

JACKS AND JENNETS

20 head good black jacks for sale, ages from 2 to 5 years; large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me. Barns 2 miles of town. PHIL WALKER, Moline, Elk Co., Kan.



Mammoth Jacks and Jennets For Sale

From 2 to 5 years—big boned, black Jacks with white points, 15 to 16 hands high. No better bred ones in the country. All of our Missouri, Illinois and Iowa prize winners for sale. Been breeding jacks for 30 years. Mention this paper and write or come to DEIERLING & OTTO, QUEEN CITY, MO.

PUREBRED HORSES.

Percheron and Belgian Stallions and Mares. Imported and home bred. Easy terms. HART BROS., OSCEOLA, IOWA.

200 Percherons Stallions and Mares For Sale. Singmaster & Son, Keota, Iowa

Imported Percheron Stallion for Sale 8 years old. Black, sound and fine breeder. Exceptional style and finish. The 1st choice after 10 days with leading importers. Price \$800. D. B. JENKINS, Jewell, Kans.

Clydesdale Stallions and Mares I have a number of Clyde Stallions, many of them of my own raising, that I will sell at less than 1/2 of the regular importer's prices. R. O. MILLER, LUCAS, IOWA.

Grand Percheron Stallions I will sell my two stallions, Sporty and Frank, both by Castillon 27318 (46308). Sporty weighs 2,000 pounds and Frank 1,800 pounds. Both good breeders and both passed as sound, by State board, 5 years old. Will sell on account of my health. M. H. GERJETS, SOUTH HAVEN, KANSAS

A BIG SALE

I will sell at public auction on February 25th, 1913, at my farm 14 miles N. W. of Holly, Colo. (on A. V. R. R.), 32 head of draft horses and mares that will weigh from 1,200 to 1,700, also one Belgian stallion and one Missouri jack, both registered. A. L. FRYBERGER, Granada, Colo.

Truman's Pioneer Stud Farm America's Largest Importers

Shire, Percheron and Belgian Horses Write for Illustrated Catalogue. TRUMAN'S, Box E, BUSHNELL, ILLINOIS

BIG BONED MULES

37 head of coming 3-year-old mules for sale. About one-half mare mules, run in height from 14 1/2 to 16 hands, all big boned mules. A few of them broke to harness. Will make attractive prices for immediate sale. C. W. HIGGINBOTHAM & SONS, Rossville, Kansas, Shawnee County.

PERCHERONS BELGIANS SHIRES ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA



Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free. Watson, Woods Bros. & Kelly Co. BOX 1 LINCOLN, NEB.

ing, president of the Deming Investment Company, Oswego, Kan., and consists of some 2,500 acres, devoted principally to raising of purebred stock and purebred seed. The purebred hog herd contains about 700 head. The offering will be bred to the eight Deming Ranch herd boars. Besides the hogs there will be a number of mules, brood mares and driving horses sold. Look up the display ad in this issue and write for catalog, mentioning this paper.

Searchlights and Designers.

C. S. Nevius, Chiles, Kan., reports splendid inquiries for both Shorthorns and Poland Chinas of the Searchlight and Designer kinds. Mr. Nevius says he does not realize how good friends he and his hogs are—until he goes out to crate a big smooth 600 pound sow which was sired by an 850 pound boar and bred to a 1,000 pound boar. He realizes that this is not only a good kind to sell to his breeder and farmer friends but is a mighty good kind to keep on the Glenwood Farm. If you are in need of such sows write Mr. Nevius, mentioning Farmers Mail and Breeze.

The Mule Footed Hogs.

Dr. W. J. Conner of Labette, Kan., is running an advertisement in Farmers Mail and Breeze in which he is offering to our readers mule foot hogs. It is claimed for the mule foot hogs that they are cholera proof. If this claim can be substantiated this breed of hogs ought to become much more popular than they are at present. It is claimed for these hogs that they are very prolific and good rustlers and while they mature at an early age they will continue to grow until they are as large as practically any of the other breeds. Dr. Conner will be very glad to furnish any of our readers with literature concerning this breed. We request that if interested you write him mentioning Farmers Mail and Breeze.

From Dietrich & Spaulding.

"Poland Chinas still keep selling with us. This last week we shipped Wide Awake, one of our herd boars, to Tonkawa, Okla. He was a great breeder. We still have for sale some extra good gilts bred and safe to him and some bred to Pan Look, another great boar of big type breeding. We are selling these bred gilts that would sell this year at public sale at \$60 to \$75 for \$40 to \$50 ready to bring early litters. This is a great opportunity for farmers or breeders to get something extra good in bred gilts. Better write at once for hogs are going to be valuable property for 1913. The late summer and fall pigs we are offering are by Pan Look and Gold Mine and out of as good sows as we ever owned. We are pricing them very cheap quality considered."

\$23,000 Combination Jack Sale.

The Platte Co. Jack Sale Company, under the management of J. B. Dillingham, held the most remarkable sale ever held for a combination sale. There were perhaps 45 contributors over Missouri and Kansas and not a single contributor was displeased and no one ever met a nicer lot of gentlemen. In some cases the jacks sold a little low and in others the jacks brought twice what their owners had supposed they would. The 48 jacks brought a little over \$23,000 and the jennets averaged about \$150 per head. The eight stallions sold high. The sale was opened by Col. J. W. Sparks of Marshall, Mo., and when he began to talk he had the attention of the crowd and kept it all through the opening address and about 11 o'clock he began selling them and in about two hours Col. Going took the block for a while and then Col. Carsons sold a few and Col. Sparks then got up and sold all the balance of the stock, selling 80 head by 4:40 p. m. While the tent was nearly 80 feet long it was just half large enough to seat the crowd and the jacks were sold in a space of less than 20 by 10 square feet. At 10 o'clock all of the consignment was brought out and they certainly made a great show. To the advantage of the black jacks the ground or background was covered with snow and many thought them the prettiest sight of the sort ever seen. Buyers from Texas, Oklahoma, Nebraska, Kansas and Missouri were there and bought from one to four jacks. Could not say how many states were represented, but a plenty. As this is the first combination jack sale ever pulled off in Missouri the contributors and manager felt like much had been done for breeders with only a few jacks to sell and each year the Platte County Sales Company will hold their annual sale and in May they will sell a fine string of high class saddle and harness horses, stallions, geldings, mares, teams, etc. Mr. Dillingham is the general sales manager.

Editorial News Notes

Fred W. Hall, Lone Wolf, Okla., is a well known Barred Rock breeder. He is a member of the American Poultry association and of the Barred Rock club. He is a progressive, down-to-date breeder of high class Barred Rocks. He has birds for sale, and eggs. He has published a circular telling about his show winnings and his matings. He also breeds good Berkshire hogs. Look for his ad in the Barred Rock advertising columns. Ask for a copy of his circular, mentioning this paper.

Carl Sonderegger, proprietor of the German Nurseries, is one of the best known seed and nurserymen in the West. He has a splendid reputation. He is a solid, successful man, the kind you like to do business with. He has been "at it" 28 years and is adding to his business and his reputation every year. See his ad on page 28. See sample prices quoted in the ad. It will pay to get his free 1913 nursery and seed book. A postal will bring it. Address German Nurseries and Seed House, Box 153, Beatrice, Neb.

Those living in the country and in small towns need no longer be without many of the so-called "modern conveniences." In the shape of heat, light, water, etc. Small electric light plants are "coming" fast. One of the best of such lighting plants is that made by the Electric Storage Battery Company of Philadelphia, with branches in other cities throughout the country. See the ad on page 22. Of course you generate electricity also for a whole lot of other purposes than for lighting the house, barn and other outbuildings. You will want to see (Continued on Page 63.)

PUREBRED HORSES.

FOR SALE One Registered Percheron Stallion, coming 5 years old and one black Jack, coming 5 years old. W. M. DICE, TECUMSEH, KANSAS.

STALLIONS and JACKS



Percherons and Belgians, also Mammoth Jacks and Jennets. State Fair winners and all at prices that will move them. Write today describing your wants. C. F. COOPER R. 4, Box 4, Hutchinson, Kan.

PUREBRED HORSES.

The Best Imported Horses One thousand Home-bred Percheron draft stallions—\$250 to \$600 at my stable. A. LATIMER WILSON, CRESTON, IOWA

SPECIAL SALE Thirty Days

Registered American bred stallions to \$600 each. Ten imp. mares in foal to \$500 each. Imported stallions at \$900 to \$1,200. One hour's ride from Stock Yds., Chicago, Ill. Address CHAS. A. FINCH, JOLIET, ILLINOIS

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach Horses 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, MO.

PIONEER STOCK FARM

We have on hand all times Percheron, Belgian, Shire and German Coach stallions and mares from weanlings to 6 years old. Imported 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

COTTINGHAM & SONS

will sell at their 17th Annual Sale, February 18th, 1913, at 1 o'clock sharp 35 head of draft horses, brood mares and drivers; 2 registered Percheron mares, large; 1 registered Percheron stallion 7 years old, weighs 2,000. 1 span of Morgan bred geldings, broke single and double; 4 yrs. old. Address. COTTINGHAM & SONS, McPHERSON, 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 5097. J. C. BERGNER & SONS, "Waldock Rancho," Pratt, Kan.

Percheron, Belgian, Shire and Coach Stallions and Mares

15 years in the horse business. Never had a law suit, have never sued a man for collection. Each sale is accompanied with a genuine good guarantee from Nolan. Our horses are from one to five years old. J. M. NOLAN, PAOLA, KANSAS

Percherons and Royal Belgians



4 Black 2-year-olds imported by us in 1912.

We have decided to offer all of our state fair prize winners, 22 stallions and mares for sale. Every one of these horses has been shown and has been a prize winner at the shows of 1912. These stallions and mares will be sold at exceedingly low prices, quality considered.

We are showing some other good stallions and mares, which we offer at prices that defy competition.

We earnestly request you to look over our stallions and mares, before buying. True photos from life application. Address

WOLF BROS., ALBION, Boone Co., NEBR. IMPORTERS and BREEDERS

Miller's Great Offering Percheron Stallions and Mares Mammoth Jacks and Jennets

I believe the Percherons and Jacks in this sale are the best I have ever offered—I believe they are the best, as a lot, to be sold this year including state fair prize winners. Sale at

Kirkville, Mo., Thursday, March 6, 1913

10 Stallions, 6 Mares, 10 Jacks, 13 Jennets

The stallions include the great Incident 67799 (\$8596), Intractable 41334 (56490), Perfection 75251, Instar 67798 (79181), King's Model 75253—ton horses and better, bred right and made right. A great line of Mares, including Rose O'Grady 81835, Majestic 60511, Bell, Lady Roberta, Star Bright and Coquette—fine individuals and great producers. The Jacks and Jennets are among the best to be sold this year. A revelation to Jack and Jennet buyers. Come and see them. A great line of Jennets safe in foal to Miller's Stonewall 3367. Thirty-nine head in all—the year's best offering.

Write today for my Catalog and kindly mention this paper.

S. J. MILLER, Kirkville, Mo.

COL. GEORGE P. BELLOWS, Auctioneer.

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.)

PERCHERON SALE

Stock Yards, Kansas City, Mo.,
Wednesday, March 5th, 1913

20 Mares and Colts

Consigned by WILLARD R. BROWN, Minneapolis, Kans.

30 Stallions & Mares

Imported and American Bred

Consigned by J. C. ROBISON, Towanda, Kans.

This will be a dispersion sale of the Willard R. Brown Stud, which is one of the best in Northern Kansas, with 30 head of choice Stallions and Mares selected from the WHITEWATER FALLS STOCK FARM STUD, the largest Importing and Breeding Farm in America, J. C. Robison, Proprietor, Towanda, Kan.
Do not miss this, the greatest opportunity ever offered to secure good breeding stock of both sexes, either imported or American bred.



Sale will be held at STOCK YARDS, KANSAS CITY, Mo., commencing at 12:00 noon. Address for catalogues
J. C. ROBISON, Towanda, Kans.,
WILLARD R. BROWN, Minneapolis, Kans.
Auctioneers: R. L. HARRIMAN, JOHN D. SNYDER, J. M. CREWS

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.

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.

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

Dispersion Sale

Percheron Horses!

ZENITH, Stafford Co., Kan.
Friday, February 21st.

The splendid imported stallion INVNTIFF, 1st prize yearling at Hutchinson, 1910. 6 imported mares, heavy in foal to Invntiff. 1 weanling mare and 1 weanling stallion. 1 two-year-old stallion.

4 HIGH GRADE PERCHERON YEARLINGS.

The imported stallion should head some good herd. The mares are all broke and in the best of breeding condition. They are from 4 to 7 years old. They will raise a valuable colt each season and do the farm work besides. Farm sale to be held in connection at farm. Zenith is 6 miles east of Stafford, Kansas. Good train service at both points. Write today.

J. A. FEE & SON, Stafford, Kan.

Auctioneer—John D. Snyder. Fieldman—A. B. Hunter.

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

COMBINATION SALE! Percheron and Standard-Bred HORSES

LITTLE RIVER STOCK FARM
Halstead, Kan., Mon., Feb. 24

45 HEAD

18 Registered Percherons, Consisting of 7 Stallions, 5 of Serviceable Age, and 11 Head of Mares, Most of Them in Foal. Every One Registered in Percheron Society of America.

7 Head of Standard-Bred Stallions and Mares

All good prospects, such as Zelma, by Hallmont, by Falmont, 2:14½, and out of Cosinette, by Cosine, the sire of Sapphire, 2:13¼, and others; Merle Mack, by McHenry, 2:16, dam Gambrel, 2:10½. Also the 6-year-old stallion, Symbol Ash, and his full sister, Hazel Choqe, will be sold; Cosinette, by Cosine, and a stallion by Gambrel, 2:10½, the leading speed sire of Kansas, also go in this sale.

Twenty Head of Grade Draft and Road Horses—An excellent bunch of work horses and a classy lot of roadsters. Send for Catalog today. Address

C. B. WARKENTIN, Newton, Kans.

Auctioneers—R. L. Harriman, J. P. Oliver and Joe Weir.
Fieldman—A. B. Hunter.

Halstead is 10 miles west of Newton, Kan. Interurban service from both Wichita and Newton.

R. & S. FARM DUROCS 63--A Draft Sale of 63 Smith Center, Kan., Thurs. Feb. 20

(UNDER COVER)



Ten tried sows, the value of which will not be equaled in any sale this winter. They are big, prolific tried sows that are right. Tops from the above bunch.

Here is the line-up: May Sandall, by Meridian Prince, with six gilts in this sale. R. & S. Choice Goods, by W. L. A.'s Choice Goods, with seven gilts in the sale. R. & S. Model No. 5, by King of Kant Be Beat, with six gilts in the sale. Golden Minnie, by Golden Ruler, with four gilts in the sale. Myer's Wonder, by Ohio Prince, with five gilts in the sale. Lenore, by Waldo, Goldie 2nd, by King of Kant Be Beat, Rinehart's Choice, by Pearl's Golden Rule, R. & S. Model No. 6, by King of Kant Be Beat. All of these sows are safe to the service to Model Hero and Rambler's Wonder.

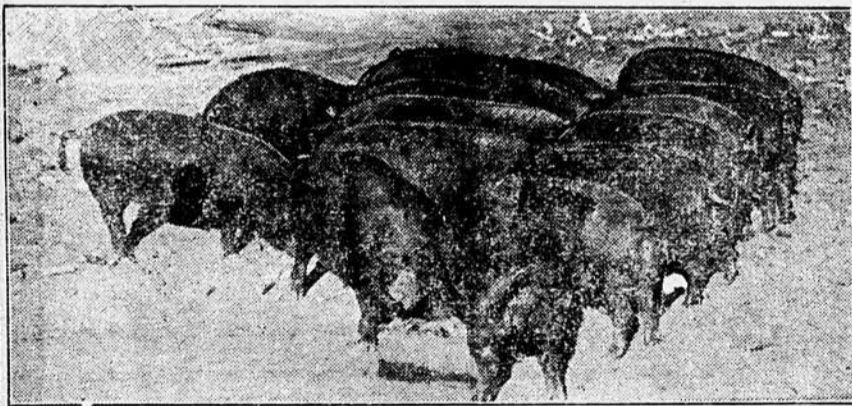
The 53 spring gilts are well grown and in the best of breeding condition, having been carefully handled with a view to their future usefulness. They were sired by Rambler's Wonder and R. & S. Duroc Wonder. They are bred for early farrowing to R. & S. Crimson Wonder and Model Hero. Both these boars are of the best of breeding. Look them up. Catalogs ready. Address

Rinehart & Son, Smith Center, Kan.

Auctioneers—John Brennen, N. B. Price, J. W. Johnson—Fieldman.

E. M. MYERS' DRAFT SALE Duroc-Jersey Bred Sows Burr Oak, Kan., Wed., February 19

(UNDER COVER)



In this sale Mr. Myers is selling 35 head like the above. They have been carefully handled and conditioned for this sale which is his regular annual bred sow sale. 12 are fall gilts, three tried sows and 20 well grown spring gilts. The fall gilts are by Jewell's Col. and out of Mr. Myers' best herd sows. The Spring gilts are by the same boar except four which are by Col. C., and out of a dam by Prince Wonder 2nd. The fall and spring gilts are all bred to Buddy's Best, by Buddy K 4th Wide Awake, the young boar he purchased this fall from the Geo. W. Schwab herd. His dam was by Red Wonder. The three tried sows are good producers and valuable sows in their prime. They are bred to Jewell's Col. One of them is by Golden Ruler and one by Wonder Bob, by Nebraska Wonder. Catalogs are ready and will be mailed promptly upon request.

E. M. MYERS, Burr Oak, Kan.

AUCTIONEERS—John Brennen, A. B. Price.
FIELDMAN—J. W. Johnson.

DUROC-JERSEY BRED SOW SALE

Eureka, Kansas,
Thursday, Feb. 20, '13

42
HEAD

15 Tried Sows, 25
Fancy Spring Gilts,
2 Fancy Summer
Boars, Herd Header Prospects.

42
HEAD

Forty sows and gilts all showing safe in pig.

This offering is strong in the blood of Ohio Chief, Orion, and G. M.'s Carl Col. They also carry the blood of Kelley's Pilot Wonder, Kant Be Beat, Inventor and Top Commodore.

Among these tried sows are several of my very best herd sows put in as attractions, and every one of the 15 are immune. The gilts are by Stith's Commodore and Stith's Model, each a splendid breeding grandson of a champion.

23 of these sows and gilts will be showing safe in pig to Model Duroc, by Dandy Duke. Model Duroc is a half brother to both Beautie's Babe, Grand Champion boar at Hutchinson 1911 and the grand champion sow at Topeka the same year.

Farmers who wish to better their herds and breeders who need more good breeding stock should attend this sale. Write today for catalogue. Address

CHAS. STITH, Eureka, Kansas

AUCTIONEERS—J. D. Snyder, Lon Smethers.
FIELDMAN—A. B. Hunter.

PFANDER'S Giant Poland China Sale!

Clarinda, Iowa, Wed., Feb. 26

THE ACKNOWLEDGED LARGEST POLAND CHINAS ON EARTH ARE IN THIS HERD

Forty Head

And a great many are daughters of LONG KING. No. 1 is by Long King (we sold her litter last spring, except one, for a long price). Her yearling son weighs 700 lbs. No. 2 is the largest fall yearling sow we have seen, weighs 550 lbs.

THE SEVEN FALL YEARLINGS BY LONG KING WEIGH 3,500 POUNDS

The spring gilts will average 400 pounds and the best we ever raised. (All bred to King of Wonders, that weighed 432 pounds at 11 months old.)

OUR AGED SOWS in this sale will average close to 700 pounds.

All are safe in pig to King of Wonders, the greatest living son of A Wonder; Big Ben, a strictly high class, big, smooth show boar, sired by Smooth Price, out of Mollie Jones 5th, by Longfellow, and A Wonder.

Write for our Catalog. It gives the history and breeding of the Long King Brood Sow Sale Offering.

Address all letters to

J. W. PFANDER & SONS,
Clarinda, Iowa.

H. S. Duncan, Auctioneer.

Ed. R. Dorsey, Fieldman.



DEMING RANCH POLAND CHINA SALE

FEBRUARY 25, 1913

The above picture is only a small view of the Deming Ranch, where we have 2500 acres devoted principally to the raising of pure bred stock. From our herd of 700 head of pure bred hogs, we offer you 50 bred sows and gilts, bred to our eight herd boars. Such as Receiver by Big Wonder, the 1000 lb. Iowa State Fair winner; Bud and All Hadley by Big Hadley's Likeness; Top Notch by Logan Ex.; Deming Chief by Bell Chief; "X" Wonder 34th, by Expansion Wonder, and others.

HORSES AND MULES

One span of work mules, weight 2600 lbs., sound and good. 5 mules coming two years old; four large brood mares; one black gelding saddle and driving horse, 5 years old, weight 1200, sound and can trot a mile in 2:40 and pace a mile in 2:35. Write for catalogue.

DEMING RANCH,
OSWEGO, KANSAS

AUCTIONEERS—Cols. Zaun and Sparks.

FIELDMAN—E. R. Dorsey, Capper Publications.

L. R. McClarnon's Sale of Big Type Poland Chinas

50—BRED SOWS—50

30 yearling and tried sows, 450 to 600 pounds and up, 20 large, choice gilts, 300 to 400 lbs. and over. 15 Sows bred to Big Orange and 25 Sows sired by Big Orange. The offering is strikingly representative of

BIG ORANGE

pronounced by good judges the greatest sire of herd headers and foundation material.

30 SOWS BRED to COLLOSAL and 5 SOWS SIRED by COLLOSAL

The son of big type grand champions, and a demonstrated sire of extraordinary scale, uniform quality and extreme finish.

Braddyville, Iowa, Wednesday, Feb. 26

IN HEATED, LIGHTED SALE PAVILION.

A special invitation is extended to every admirer of Poland Chinas to be present at this sale. The Catalogue will interest you. Write me for it. Entrust mail bids to H. S. Duncan, Auctioneer, or Geo. W. Berry, Fieldman.

L. R. McCLARNON, Braddyville, Iowa

Francis Olivier & Sons' Sale Of Big Type With Quality

Poland China Sows

One of the Best Offerings Ever Sold at Auction in
Southern Kansas, Size and Quality Considered

Danville, Kan., Friday, Feb. 28, '13

17 Tried Sows, 33 Spring and Fall Gilts
5 Spring Boars, (all immune)

These tried sows and gilts are either by or bred to such sires as Giant Expansion, Blue Valley Price and Blue Valley Hutch, two great breeding sons of the great sire, Blue Valley Quality. Others are by or bred to Cleveland Jim or J. R.'s Hadley.

The young boars are prospective herd headers, two of them are by Lu Expansion, by Blue Valley Expansion, and two are by Blue Valley Hutch and out of Expansion bred sows.

Most of the tried sows are by Giant Expansion, a half ton sire with plenty of quality and over an 11-inch bone, and are either bred to Blue Valley Price 65465 or Blue Valley Hutch, two of the best sons of Thomas Walker's great 1,000-lb. boar, Blue Valley Quality 43026.

We have the pork barrel kind. Farmers and breeders invited. Come to Danville or Harper, Kan.

Send bids to A. B. Hunter, who will act in your interest. Write today for Catalog.

OLIVIER & SONS, Danville, Kan.

Auctioneer—Col. John D. Snyder.

Clasen Bros. sell Durocs

Union City, Oklahoma

Thursday, February 27, 1913

Thirty-five head sired by and out of sons and daughters of prize winners. Twenty-five of these will be bred to my good herd boars. Ten head of tried sows will be sold, five head with litters at side sale day. One, by Oklahoma King, that farrowed 17 pigs and is raising 10. Fifteen bred gilts by Gold Mine, by the champion, Grand Master Col. II, and safe in pig to Clasen's Good E. Nuff.

The tried sows are mostly bred to M. H.'s Col., by G. & C.'s Col. Eight spring boars sell; among these are herd headers and show prospects; also two of my herd boars, Gold Mine and M. H.'s Col., as I now own a half interest in the great sire, Valley B., Hutchinson State Fair champion, 1912. Write today for Catalogs and address

Clasen Bros., Union City, Okla.

Auctioneers—Fred Groff, Fred Ball.

First Annual Joint Sale!

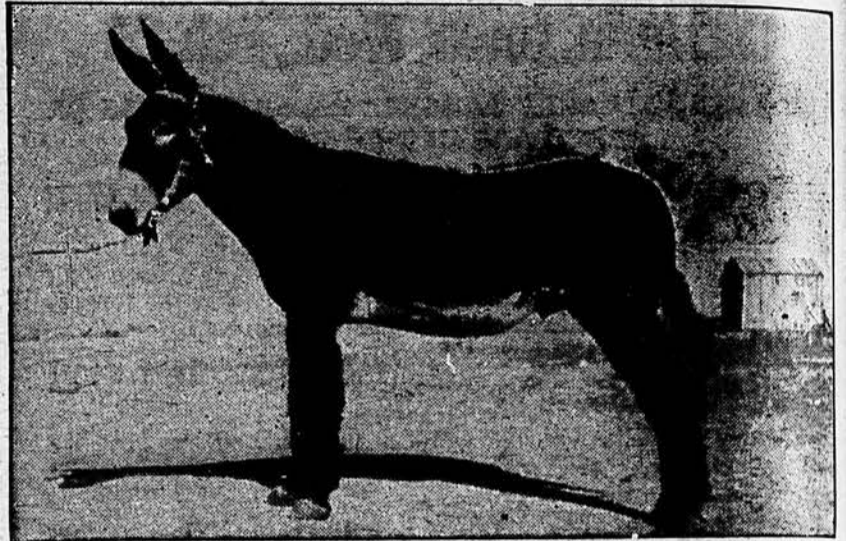
40 JACKS and Jennets 40

D. J. HUTCHINS, Sterling, Kan. **H. T. HINEMAN & SONS, Dighton, Kan.**

Will Sell at

**STERLING, KAN.,
Tues. Feb. 25**

25 JACKS 15 JENNETS



PHAROAH, GRAND CHAMPION AT TENNESSEE STATE FAIR IN 1910.

Select Numbers From Two of Kansas Best Herds. Every Animal Registered. Most Every Jack of Serviceable Age. The Jennets all bred or with colt at side. The Jacks are sired by and Jennets are bred to such noted sires as Pharoah, Jumbo, Hightide and Orphan Boy.

THE GREATEST JACK EVENT Kansas ever had. The Big Boned Prize winning kind. You will find it here. Sale under cover rain or shine. For catalogue address

D. J. HUTCHINS, Sterling, Kan., or H. T. HINEMAN & SONS, Dighton, Kan.

Auctioneers—Cols. Harriman, Snyder and Potter.

Fieldman—A. B. Hunter.

Two Days Combination Live Stock Sale

Percheron Horses, Shorthorn and Polled Durham Cattle, and Duroc Swine

Harper, Kansas, Wed. and Thurs., Feb. 19 and 20

30 Horses

Sell Wednesday, February 19, 1913

IMPORTED AND HOME BRED. 12 PURE BRED PERCHERONS all registered in the Percheron Society of America. 4 Stallions, 3 ready for service, one yearling. 8 Mares, 3 imported, 5 home bred, all of breeding age but one. Most of these mares are in foal to Vermouth III, the splendid 2,300-pound sire, or to his best son Vermin. 1 French Draft, a two-year-old stallion, that will weigh a ton at maturity. 17 HEAD OF BROOD MARES, work geldings and drivers.

30 Cattle

Sell Wednesday, February 19, 1913

20 PURE BRED SHORTHORNS AND POLLED DURHAMS—Reds and roans—5 DOUBLE STANDARD BULLS. 1 Shorthorn bull. They are all grandsons of the great show bull, Roan Hero, and from 6 to 24 months old. 14 Pure Bred Cows and Heifers. Several are safe in calf to Governor, the 2,500-pound son of Crown Prince. 10 Grade cows and heifers including one Jersey milk cow soon to be fresh.

30 Hogs

Sell Thursday, February 20, 1913

20 PURE BRED REGISTERED SOWS AND GILTS, 4 Boars, 3 summer boars and one two-year-old that should head some good herd. The sows and gilts are bred to such sires as J. P.'s Col, a grandson of King of Col's II. They represent the blood of such sires as Ohio Chief, Buddy K IV, Tip Top Notcher, and other fashionable strains. They are not heavy in fat but just in good breeding condition.

WRITE TODAY FOR CATALOGUE, Address

AUCTIONEERS—Cols. Jno. D. Snyder, S. F. Bowman, F. M. Oller.
FIELDMAN—A. B. Hunter.

J. P. HERSHBERGER, Harper, Kansas

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



ROBISON'S Percherons

One hundred and fifty Registered Percherons—Stallions, Mares and Colts. Fifty imported. All for sale.

J. C. Robison, Towanda, Kan.



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.

NICE Impr. 160, \$35 per a. Also nice improved creek farm near town at reduced price. J. H. King, Cawker City, Kan.

SOME good bargains in well improved Jackson Co., Kansas, farms. Price \$75.00 and up. Wm. Harrison, Whiting, Kan.

BARGAIN: 57 a. extra improved, 3 mi. out, \$3,500. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

FARM SNAPS in S. E. Kan. Buy from owner and save "4s." Write for prices and No. acres wanted. R. E. Exch., Pleasanton, Kan.

AGENTS WANTED, to sell Neosho Valley corn and alfalfa lands \$40.00 to \$65.00 per a. G. W. Clark Land Co., Chetopa, Kan.

220 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.

200 ACRE farm for sale, North Central Kansas. Good improvements, near town, \$65 per acre. Address Box 99, Farmers Mail and Breeze, Topeka.

WANT to purchase section Western Kansas land at \$5.00 per acre, on terms. J. R. Collins, 1029 Omaha Nat'l Bank Bldg., Omaha, Nebraska.

\$1,000 CASH, balance easy terms. 160 a. in N. E. Kingman Co., fair imp's; a good farm; corn and wheat land. Price \$7,500.00. Box 82, Belpre, Kansas.

SUMNER COUNTY—Farms—alfalfa, corn, wheat, oats, all other crops grown here. Dairy and stock raising. Sure crops. Write Lock Box 285, Wellington, Kan.

20 DAYS ONLY. 320 a. stock farm. Washington Co. One mile to shipping point. \$60 per a. Terms, 50 a. wheat free. PRALLE BROS. REALTY CO., Bremen, Kan.

160 ACRES Scott county, Kansas. Price \$1,050. We have all kinds of good cheap property for sale. Free list. DONWELL, 3612 Wyandotte, Kansas City, Mo.

FINE FARMS FOR SALE. Have several fine impr. farms of from 160 to 1,000 a. at from \$10 to \$15 per a. to sell with good terms. W. A. Derschlager, Ransom, Kan.

WRITE for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holtzman, Concordia, Kan. (Pioneer Kan. farmers.)

FOR SALE. A country store; will invoice close to \$3,000. Cash talks. Run elevator and sell coal on the side. Address Owner, care of Farmers Mail and Breeze, Topeka, 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.

FARM HOME for sale. Well improved, in good location; all kinds of fruit. Plenty of shade and ornamental trees. For particulars address R. R. No. 2, Box 55, Mulvane, Kan.

CENTRAL Southern Kan. alfalfa lands. 220 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.

159 ACRES well improved, one mile of town, all tillable and smooth, 60 acres clover, 25 acres hay meadow, 35 acres wheat, rest corn. 7 room house, barn 40x50, double corn crib holds 1,000 bu. corn, 50 acres hog tight. Other good outbuildings, all buildings new. \$4,000 down, remainder long time 6%. Price \$15,000 per acre. Come at once. MANSFIELD, Ottawa, Kansas.

CASH BARGAIN. 240 a. well improved, bottom land close to town. No waste. Part time. Price \$34. E. changes. Write JESSE SIMPSON, Scandia, Kan.

OWNER MUST SACRIFICE—Fine, whole section; 100 a. in fall wheat. Ideal community. 4 mi. from good town. Price \$7,200. Better than railroad terms. Investigate. WINONA LAND CO., Winona, Kansas.

DO YOU WANT this 80 acre farm? It is well improved, 1/2 mile of town. Fine schools. A small payment will handle it. Ask about it—you will be surprised. F. D. GREENE, Longton, Kan.

80 A. SNAP, 2 1/2 miles from town and graded school, all in cultivation, nearly all alfalfa land. Improvements worth \$3,500. Price \$6,000. Write us for full description. V. E. NIQUETTE, Salina, Kansas.

A SNAP. 240 acres valley and alfalfa land, running stream, small house and barn, 2-3 in cultivation close to town, 70 a. in wheat, price \$32.50 per a. Half cash, easy terms. TAYLOR & BRATCHER, Coldwater, 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.

ATCHISON CO. bargain: 154 acres 1 mile from town with county high school; highly improved; all smooth land in high state of cultivation, 28 in wheat, 52 in clover, bal. other crops. Price \$18,000. Good terms. JOHN E. SULLIVAN, Effingham, Kan.

FOR SALE BY OWNER: 300 acres 2 1/2 miles from Mound Valley, Kansas. 50 acres bluegrass pasture; 30 acres meadow, 15 acres alfalfa; 35 acres wheat; balance cultivated. Fine 10 room two story house, large barn and cattle sheds; scales; granary; corn crib; railroad switch on farm; running water. Part creek bottom, part valley land. Price \$60.00 per acre. No trades. CRUM & WASKEY, Oswego, Kansas.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of farms. Ask about this good farm. 80, 160, 240, 320, 408, 620, all above farms are good prices from \$30 up to \$56 per a. WM. GODBY, Arkansas City, Kan.

320 ACRE stock farm, 4 miles from Quenemo, Kan., 175 acres in cultivation, balance timber and pasture, running water, 7 room house, barn 40x54, barn 20x60, other outbldgs. An ideal stock farm, for only \$40 per acre, liberal terms. THE EASTERN KANSAS LAND CO., Quenemo, Kan.

FOR SALE BY OWNER: 160 acres 2 1/2 miles from County High School, Altamont, Kansas. Black limestone soil; 60 acres meadow; 20 acres pasture; 10 acres alfalfa; balance cultivated; 5 room house, good barn and outbuildings; well and spring. Price \$8,000, no trade. CRUM & WASKEY, Oswego, Kan.

280 A. 2 1/2 ml. from Garfield, Kan. In great Arkansas river valley. About 1/2 bottom land, remainder upland; about 200 a. broke, bal. pasture. Good new 7 room house; other outbuildings in good repair. This is an ideal location for a stock or dairy farm being close to main line of A. T. & S. F. R. R. Priced for quick sale at \$30 an a. Address owner, C. R. MURRAY, Garfield, Kan.

EASTERN KANSAS 1,000 acres, \$25 per acre KANSAS 1,730 acres, \$19 per acre RANCHES 1,871 acres, \$26 per acre. T. B. GODSEY, Emporia, 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 BARGAINS. Improved stock and grain farms, \$30 to \$65 per acre; write for list free. J. E. CALVERT, Garnett, Kansas.

MR. RENTER, ATTENTION. 320 fine acres, 1 1/2 ml. town, 140 cult., all can be; no bldgs. \$25 a. \$400 cash, bal. crop paym'ts. Have imp. farm close can rent you. Buxton Land Co., Utica, Kan.

COMANCHE COUNTY BARGAIN. 450 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.

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.

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.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/3 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

LINN and BOURBON CO. FARMS. Bigest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$30. 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 FATIGUES. 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.

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.

GREATEST JEFFERSON CO. BARGAIN. 160 a. 3 ml. to good R. R. town. Elegantly impr. \$55 per acre, 110 acres under plow, 10 a. fine wheat, bal. bluegrass pasture. A little timber. Several good 40 and 80 acre tracts from \$3,000 to \$5,000. Other great bargains. JOHN A. DECKER, Valley Falls, Kan.

110 ACRE SUBURBAN FARM ADJACENT TO CITY OF TWENTY THOUSAND POPULATION. Suburban farm half mile from business district and Union Depot of South Coffeyville, 1 1/2 miles from city limits of Coffeyville, Kansas, and street car line, land lays practically level, all dark loam soil, 85 acres in cultivation, 10 acres pasture, 15 acres meadow, 4 gas wells on farm paying annual cash royalty \$400, free gas for all heating and lighting and domestic purposes on farm, ideal good oil royalty in case oil is found, an ideal suburban farm at the very edge of a city of 20,000 people. Price \$75 per acre, 1/2 cash, balance 3 years 6 1/2% interest. Write for plat of farm and other information. THE ETCHEN BROS., Coffeyville, 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, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 ml. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

Osborne County Ranch

Improved 2,000 acres, \$15.00. SCHMEL & SHARP, Osborne, Kan.

180-Acre Home

1/2 mile town—all A No. 1 land—Nice 8-room house, barn, etc.—good water—free gas—R. F. D. and phone—\$60 per a. with terms. Foster Bros., Independence, Kan.

\$1.75 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.

The Great Sumner Co.

Anyone that knows anything about Sumner county will tell you the best soil is in the vicinity of Caldwell. I have a few high class well improved farms already to move on this spring that have a large acreage of wheat sowed, all of which goes to buyer. Also have some immense Chickaska river bottom farms at bargain prices. Write for list. Owner's price my price. WM. HEMBROW, Caldwell, Kan.

Sedgwick County Farm Bargains

200 a. farm, all good land, fair improvements, good location, only \$45.00 per acre. Just the price of grass land. 145 a. farm, good 7 room house, 2 barns, mostly alfalfa land, fine location, \$62.50 per a. Terms to suit. 240 a. farm, all alfalfa land, good improvements, only 10 miles to Wichita, the biggest snap in Kansas at \$60 per a. \$4,600 handles this. Come quick for this. Call on or write H. E. OSBURN, 227 E. Douglas 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.

CAN YOU BEAT THIS OFFER?

187 acres, 2 1/2 ml. from Iola, population 9,000. 1 ml. to Gas City, pop. 1,000; 1/2 ml. to rock road leading to each town, 3/4 ml. to electric interurban railway; 100 acres fine creek bottom soil; 12 acres in alfalfa, 30 acres in timothy and clover, 20 acres in wheat, 50 acres in pasture, 7 acres in fine timber and hog pasture; good five room house, barn, cattle shed, etc., natural gas; orchard 100 trees; plenty fine water; all newly fenced. Price \$65.00 per acre, one-half cash, balance time to suit. Will guarantee to take this farm back at same price paid in 1 year if not satisfied. H. HOBART, Owner, Iola, Kan.

Kansas Farms and Horses

Special 30-Day Price. C. D. McPherson, owner, R. 2, Topeka, Kan. 82 ACRES—in Johnson Co., near Olathe and Kansas City, on interurban survey. Line now completed nearly to this farm. Town promised for farm. Near golf club and Ocean Lake park, 1 1/2 miles from Santa Fe station. Good new limestone alfalfa soil. Good springs, plenty of fruit. Nearly new 5-room modern cottage, good cellar, cistern in house. Good granaries, wagon shed, stable, cow shed, chicken house, garage, etc. 640 ACRES—adjoining Beeler, good town on Santa Fe Ry. Improved, facing state boulevard road. Inexhaustible supply of good water at depth of 6 feet. Price, \$25 per acre. Easy terms. IMPORTED PERCHERON stallions and mares and grades. Also few imported home bred. Shetlands and Galloways.

REAL ESTATE WANTED.

REAL ESTATE DEALERS and property owners are getting big returns in the way of quick cash sales through the use of small advertisements in our classified advertising columns. Homeseekers and investors all over Kansas watch Topeka Daily Capital want ads for attractive offers. The Daily Capital is the only daily in Kansas with a state-wide circulation—total guaranteed 34,000. More classified ads than any other Kansas daily. Most consistent result-producer. Over half million dollars worth of property sold through its columns the past year. If you want to sell or exchange property at smallest cost and in shortest time, try an advertisement in our "For Sale," "Business Chances" or "For Exchange" columns—results will more than please you. Special trial offer: Send a 30-word advertisement and \$1.50 and we will publish your ad for seven consecutive issues. For each additional word, seven times, add 5c. Send advertisement and remittance direct to Daily Capital, Want Department, Topeka, Kan.

NEW MEXICO

FOR RENT. 320 a. well improved farm near Las Vegas, New Mexico. Write to N. F. J. SONDERGARD, Ramona, Kan.

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! 80 a. creek farm \$850; terms. Other farms. McGrath, Mountain View, Mo.

FOR SALE. Some of the best farms in Central Missouri. For list and particulars write W. B. Marshall, Ionia, Mo.

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.

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.

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.

LAND BARGAINS—\$5 down, \$5 monthly buys 40 acres, good timber land, south Missouri; price \$200. Perfect title. Write for list Mo. lands. Fred Jarrell, Mt. Vernon, Ill.

FREE HOMESTEADS—261,230 a. now subject to entry. No swamps, no negroes; pure water. Free information. Ozark Homes Locating & Publicity Co., Harrison, Ark.

VALLEY FARMS, \$25 to \$50; unimproved lands, \$6 to \$20; orchard and berry farms, \$40 up; water and climate unexcelled. Literature and free list. ANDERSON REAL ESTATE CO., Anderson, Mo.

OZARK SPECIALS.

40 acres nice, improved, \$1,000, \$700 down. 120 acres, level, well impr., \$3,000, \$2,000 down. 135 acres 2 1/2 miles out, improved, \$2,885, \$600 down. All have orchards and springs. ELROD & CO., Norwood, 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 ml. 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 100 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. COTTRELL 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., New Madrid, Mo.

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., Ballwin, Mo.

Poor Man's Chance

40 acres, well improved, 6 miles Warrensburg, town 6,000, 3/4 mile school. All in cultivation, lots of water. Price \$50 per acre. O. J. TAPP, Warrensburg, 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; good well at barn; smoke house, other outbuildings; phone in house; handy to school and church; 6 ml. to North View on Frisco R. R. 5 ml. to Fairgrove; 8 ml. to Co. seat, Marshfield; price \$17,600. 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.

S.E. Mo. Corn Lands

We are in the heart of the drained lands of S. E. Mo. The soil is a fine black, sandy loam and adjoins town of Malden; population 3,000. Five thousand acres have been sold and is in cultivation. A Kansas farmer said he would not take \$1,000 for his bargain. The price on this land is \$32 per a. 1/2 cash, bal. one, two, three years at 6%. Write for literature. MALDEN REAL ESTATE CO., Malden, Mo.

TEXAS

FREE, Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

160 A. Improved, \$35. 40 a. Improved \$45. Easy terms. Close in, black soil. Artesian water. J. H. Cope, Paducos, Tex.

WRITE FOR FREE literature describing choice lands in the Eagle Lake district. Send your name today. Fidelity-Immigration Co., Eagle Lake, Tex.

RANCH of 1,500 a. near Brownwood, Tex.; best farming or cattle raising ranch in state; close to 2 railroads; title clear; no inc.; will sell ranch or cut into farms. Terms. C. W. NICHOLS, 631 Riato Bldg., K. C., Mo.

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, Ft. Worth, 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, plied 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, etc. 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. Stancilff Land Co., Houston, Tex.

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.

This Splendid Irrigated Farm For \$40 Down

I have a beautiful 20-acre irrigated farm—best fruit and alfalfa land in the Southwest—for sale. It is located under a complete irrigation project—one that has been in successful operation for the last two years, a district which has actually earned \$100 an acre in one season from alfalfa. Peaches, grapes and vegetables pay upwards of \$500 an acre in this district. This 20-acre farm is level as a floor, every acre is tillable, and excellent grape, peach and alfalfa land. Located close to the central townsite of Buena Vista, Pecos Valley, Texas. Beautiful, even climate; plenty of water, improved irrigated farms adjoin it on the north; other improved farms in all directions; you can count at least 25 improved farms from this property. Company's experiment station half mile away, long staple cotton paid \$72 an acre last year and alfalfa was cut five times. Dr. Harrington, former manager of the Texas state experiment farms, says this tract is worth at least \$125.00 an acre. I will sell at \$25 an acre less; \$40 down, \$100 when land is inspected within 60 days, and \$12.50 a month for 20 months; balance in four annual payments. One year's crop of alfalfa should pay at least 75 per cent of the cost. Write me today and I will give you full description, exact location, plat, etc. Don't wait a minute if you want a fine irrigated farm at a real bargain. Write now, postal or letter. Address me personally. This property may not be offered again. W. R. DRAPER, 996 Baltimore Ave., Kansas City, Mo.

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.

OKLAHOMA

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

600 FARMS and other prop. for sale or ex. Blackwell Real Estate Co., Blackwell, 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.

640 A. 3 mi. Hodgens, Okla., on main line Ry. In fine grass and timber; part tillable, close to oil and gas well drilling. For quick sale \$5 per a. W. F. Colnon, Heavener, Okla.

BARGAINS on farms in New Eastern Oklahoma. Good wheat, alfalfa and small grain land. 47 inch rain belt. Fine grass and several large ranches, cheap. Write today. Union Security Co., McAlester, Okla.

480 A. this county. Half level with good grass and scattering timber. Balance somewhat rough but all splendid pasture. Half million feet of yellow pine timber. Some tillable. \$4 per acre. Terms. No exchange. SOUTHERN REALTY CO., McAlester, Okla.

OKLAHOMA

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

1,040 ACRES, well improved, on ever running stream, Texas county, Oklahoma; 200 acres alfalfa, 100 acres good hay land, \$22.50 per acre. Lease on 1,440 acres State School land goes with the deal. If interested write for full particulars. I. L. ENNIS, Guymon, Okla.

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.

POCKET MAP OF OKLAHOMA for five names of persons in each of the 77 counties. Caddo county corn and alfalfa land. BALDWIN & GIBBS CO., Anadarko, 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.

OKLAHOMA, ARK. AND LOUISIANA. 15,000 a. in Oklahoma, 10,000 a. in Arkansas, 4,000 in rich red river bottom in Louisiana, in 40 a. tracts, up. We are owners. Write for literature on state desired. Agents wanted. ALLEN & HART, 308 Commercial Bldg., Kansas City, Mo.

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.

ARKANSAS

FARMS and fruit lands. All sizes and prices. T. A. Bayley, Ft. Smith, Ark.

GOOD fruit and farm land, cheap; terms. S. L. Consalus, Mammoth Spring, Ark.

LANDS CHEAP. Book and list free. Address J. T. Carkon, De Queen, Ark.

FOR SALE: Well imp. 240 a. near city, \$12.50 a. J. A. Webb, Russellville, Ark.

ARKANSAS RIVER BOTTOM plantations, virgin timber lands, small farms. Send for list. Dumas Realty Co., Dumas, Ark.

BENTON county. We have extra bargains in fruit and grain farms. Some exchanges. Address Frazer R. E. Co., Gravette, 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.

40 A. improved fruit farm near Gravette, \$2,000. 400 a. timber land N. E. Okla., \$5 per acre. J. T. OSWALT, Gravette, Ark.

80 ACRES improved, near Clarksville, Ark., county seat of Johnson Co. Price \$15.00 per acre. For further information write M. S. Park, Clarksville, 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.

ATTENTION. We have selected list of very best bargains in farm, fruit, alfalfa and timber lands in Ark. Get our list of bargains. A. W. Estes Co., Little Rock, Ark.

HOMES in N. W. Arkansas, fruit, stock and grain farms from \$5 per acre up. Living water, ideal climate, good soil, bargains; 25 acres well improved \$3,500. Hotel \$2,500. 18 acres well improved and close in \$2,700, and other bargains. Write HINDSVILLE REALTY CO., Hindsville, Arkansas.

33 ACRES 1 1/4 miles from Siloam Springs, Ark.; 25 a. in cultivation balance pasture. Good house, barn and outbuildings. 10 a. apples, 5 a. peaches, also pears, plums, cherries, blackberries, raspberries, strawberries and grapes. Well at house, springs in pasture. In the fruit belt of northwestern Arkansas. Fine climate, splendid water, nice people; price \$3,300. MRS. H. T. GRAVES, Siloam Springs, 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 graveled road, railway and phone line. 1 mile from town. \$6,000.00, 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.

CANADA

CANADA LAND For Sale: A few choice sections well located in Saskatchewan and Alberta. Very easy terms to actual settlers. Address Box 329, Minneapolis, Minn.

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.

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.

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

LOUISIANA

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.

NEVADA

"HOMESTEADS."

Do you or your friends want a 160 or 320-acre homestead? Here in Nevada you may take 23-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.

COLORADO.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, alms-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.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mdse. F. Gass, Joplin, Mo.

EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.

BATES CO., Mo., farms for sale and exchange. J. N. Duke & Co., Adrian, Mo.

WRITE for my new exchange list of Dickinson Co. Farms. Melvin Smeltz, Enterprise, Ks.

IF YOU have mdse., income property or land to trade, list it with Triplett Land Co., Garnett, Kansas.

SOUTH MO. imp. lands for sale and exchange; low prices. Write to or call and see Goff, Sass & Co., Willow Springs, Mo.

WE BUY, sell, exchange anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.

BOOK 1,000 farms, etc., everywhere, for ex. Get our fair plan of making quick square trades. Graham Bros., Eldorado, Kan.

BARGAINS in southern Kansas farms. \$40.00 to \$75.00 per acre. Exchanges. Send for list. N. F. Paulin, Parsons, Kan.

960 A. Trego Co.; 200 creek alfalfa land, impr. \$24,000. Would consider good 160 acre farm for part. Stevens & Ruby, Stockton, Kan.

FOR SALE OR TRADE. Two brick buildings, two story, seven room, with water and gas, Rosedale, Kan. S. C. Miller, Robinson, Kan.

EXCHANGES, cash sales of farms, city property, merchandise. What have you? Address Southwest Real Estate Exchange, Moriarty, N. M.

BARGAINS in Missouri farms. Also Texas Gulf Coast land to exchange for Missouri or Kansas farms. Write us: STANLEY-HATTON REALTY CO., Sedalia, Mo.

WANT MERCHANDISE for 320 a. alfalfa, wheat and beet farm. 240 under ditch, \$65.00 per a. Clear. Owner will put in some cash for No. 1 stock. Box 874, Garden City, Kan.

TOUCH a live wire. Our Red Letter Special will trade your property. List today. Guaranteed deal. Write for particulars. Midwest Realty Exchange, Riverton, Neb.

WOULD you trade your farm; city residence, rental property, mdse.; hotel; steam plow; auto or other property for good land? Write Kysar Realty Co., Goodland, Kan.

TO TRADE: One of best 200 a. farms in S. E. Kan. Price \$70 per a. Will take \$4,000 town property. Terms on balance. Box 16, care Farmers Mail and Breeze, Topeka, Kan.

TO EXCHANGE for merchandise or hardware, 320 acres improved, 3 1/2 miles from good town in south central Kansas. Address L. H. Whiteman, owner, 213 Biting Bldg., Wichita, Kan.

I HAVE for exchange several high grade stocks of hardware and implements. If you own a good farm that is clear or nearly so and want to get into business, write me at once. W. H. WINN, 207 R. A. Long Bldg., Kansas City, Mo.

WANTED—To trade for a 1913 model Ford automobile, either runabout or five-passenger. Our \$1,300 equity in an 8 room house four blocks from the center of Winfield, Kan. Must have auto soon. What have you? THE BENKENDORF LAND CO., Winfield, Kan.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. P. JOHNSON, Ordway, Colo.

BARGAINS in alfalfa and general grain farms, merchandise and income properties. Exchanges a specialty. Send for literature. J. D. PNEAU, La Cygne, Kansas.

FOR SALE—Choice wheat, corn, and alfalfa lands, in Clark, Ford, and Meade Cos. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

FOR SALE AND EXCHANGE Ozark lands in tracts to suit, \$4.00 acre up. List free. Anna E. Hockensmith, Ava, Mo.

FOR SALE AND EXCHANGE. Washington Co. improved farms at \$50 to \$180 a. Write F. E. Beeson, Washington, Ks.

FOR SALE AND EXCHANGE. Ness Co. lands and mdse., at low prices. No triflers. Fully describe and price your proposition. C. F. Edwards, Ness City, Kan.

WANT ARKANSAS LAND in exchange for good improved 160 acres Phillips Co. Other exchanges. I. R. ELDRED, Phillipsburg, Kan.

THIS MEANS YOU. Wipe the tears out of your eyes. We can trade that mortgage. Will get what you want. List your property. OWNER'S SALE & EXCHANGE, Independence, Kan.

WHAT HAVE YOU TO SELL OR TRADE? Horse? Auto? Mdse.? Etc.? We guarantee the desired results. Try our system. PERSONAL PROPERTY EXCHANGE CO., 532 Kan. Ave., Topeka, Kan.

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.

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.

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.

FOR EXCHANGE. Want to trade a good, well located home and good business of from \$2,400.00 to \$3,000.00 per annum for an 80-acre farm in southeast Kansas or northeast Okla. Want improvements. Would assume some incumbrance. Just the chance for a good broom-maker. Address 841 North Washington Ave., Iola, Kan.

ONE OF THE BEST PAYING PROPOSITIONS IN GARNETT COUNTY, KANSAS. Stone and brick hotel, double building, two story, on main street from Santa Fe depot, all furnished, 25 cents per meal. Does the biggest business of any hotel in Garnett. Price \$8,000.00 complete. Owner will exchange this for a good farm of about equal value worth the money. Best of reasons for disposing of the same. Address WILSON & RESSSEL, Agents, Colony, Kan.

Buy or Trade with us—Exchange book free Bersie Agency, Eldorado, Ks

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-Forssee Bldg., St. Joseph, Mo.

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, clster, 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, 313 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.

Want a "Buick" Auto?

Have two model "F" Buick automobiles to trade for livestock of any kind if priced worth the money. Cars have been owned by farmers and are in excellent condition. M. W. PETERSON, Hanston, Kan.

COLORADO

FARM bargain: Colo., fine irri. Part cash. Terms. Trade mdse. Box 123, Minneola, Ks.

BEAUTIFUL irri. farms, fruit, sugar beets, grain, alfalfa. Ordway Land Co., Ordway, Col.

550 A. El Paso Co., Colo. 400 bottom alfalfa land, bal. valley. Water 10 to 30 ft. Farming 300. \$18. A. snap. E. J. Votaw, Wichita, Kan.

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 ml. 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.

182 ACRES 3 1/2 miles from Ft. Collins, 1/2 mile to good school. Last year 50 acres beets sold for \$5,000; 50 acres alfalfa sold for \$5,500. Best water rights guaranteed. First class improvements all around. Can be leased to present tenant for \$1,500 net per yr. for 5 years. \$11,000 cash and time on remaining \$10,000. Let me send you particulars of this and other bargains in stock ranches, irrigated farms and garden tracts. F. S. DOTY, 437 Ry. Ex., Denver, Colo.

I AM THE SOLE OWNER of the following irrigated alfalfa farm, which I wish to dispose of without delay, with special inducements for quick sale.

220 acres, half in alfalfa, 40 acres fall wheat, 10 or 15 acres ready for sugar beets, new four room house, shed, barn, etc. Fine neighborhood, phone and R. F. D. Four miles from growing R. R. town, one mile from station, Bent county, Colo. Will accept reasonable cash payment, and long time for balance. Low interest.

GEO. R. WILSON, Lamar, Colo. COLORADO BARGAINS. Stock ranches, irrigated farms. H. E. KEELEB, 1649 Champa, Denver, Colo.

NEW YORK

FOR SALE—425 acres with two sets improvements; stock and grain farm; Lyon county, Kansas; good water, timber, fruits; raise anything; near to school, church, railroad. Price \$50 acre; no trade. Address BLOOD, Cattaraugus, N. Y.

THIS IS THE KIND everybody buys—ready for business and a money maker. 150 acres, lays fine, 12 room house, three barns 28x30, 25x30, 20x30, and straw barn, sheds, hen house good condition, three good work horses, three cows, one heifer, two hogs, 50 hens, two sets heavy harness, lumber wagon, mower, rake, sulky plow, sulky cultivator, potato digger, harrows, top buggy, hay, straw, potatoes, grain, hay fork, pulleys and ropes. All ready to run. Many other things to ton. All for \$4,000; \$2,750 cash, balance time. HALL'S FARM AGENCY, Owego, Tioga Co., New York.

\$1400 Cash Needed

188 Acres, 12 Cows, Machinery

The dairy farms of Delaware County, N. Y. earn \$4,000,000 yearly; this is one of them, and a good one, too; spring and brook-watered pasture for 20 cows, smooth fields cutting 30 tons hay, 80 cords wood, 100 barrels apples in season; 2-story 7-room house, barn 40x40, other outbuildings; near neighbors and school; owner unable to care for it longer, must retire; if taken now he includes 12 cows, brood sow, 5 sheep, machinery and tools; only \$3,500, very easy terms; this farm will pay for itself in two years; read all about it and traveling directions to see it and a 124-acre farm for \$1899, page 58, "Strout's Farm Catalogue '13," 2nd Edition. Write today for free copy. Filled from cover to cover with reliable information about soils, products, markets, climate, schools; and bargains in money-making farms throughout the Eastern States. More for your money here today than the same money will buy anywhere else on earth. Get the facts. Station 3125, E. A. Strout Farm Agency, Union Bank Bldg., Pittsburg, Pa.

Editorial News Notes.

(Continued from Page 56.)

the book "Electricity on the Farm." Write for a free copy of it to Electric Storage Battery Company, Philadelphia. Say you saw the offer in Farmers Mail and Breeze.

Buy Your Nursery Stock Direct.

Cooper & Rogers, wholesale and retail nurseries located in Winfield, Kansas, have just issued their descriptive catalog for 1913. This firm saves you the agents commission and pays the freight by buying direct from them at wholesale prices. For reference they refer you to the First National Bank, Winfield, Kansas, or any of the thousands of satisfied customers. Write for the catalogue and price list and compare it with any similar catalog and you will find that they are as low and in many cases lower than their competitors. Kindly mention this paper when writing. See ad on page 27.

Acorn Brand Seeds Will Grow.

Ross Bros. Seed House, Wichita, Kans., has just issued their 1913 Seed Book which is chock full of useful information regarding seeds, the kind, when and how much to plant and their adaptation to your soil and climate. It also has a department descriptive of the useful articles for the poultry yard, chemicals for the orchard, pumps, sprays, etc., bee hives and smokers for the bee keepers. It is artistically designed and original in detail. If you are a farmer, truck grower, gardener or in fact an agriculturist or florist of any kind you will find this book contains many helpful hints. It is free. Write them a postal today. Address Ross Bros. Seed House, 318 E. Douglas, Wichita, Kans.

Interesting Fire Insurance Figures.

The Farmers' Alliance Insurance Co., of McPherson, Kas., in its recent statement of fire, lightning, and windstorm losses for 1912 has some interesting figures. The total number of losses sustained by this company by fire was 264 while the number of losses for the same period by lightning and wind was 919. The number of losses by wind alone was 625, or nearly three times as many as by fire, or more than by fire and lightning combined. The company paid out \$63,307.28 for total and partial fire losses, \$20,769.28 on account of losses by lightning and \$39,311.55 for wind losses. The company sustained losses in all but eight of the counties in the state.

The 1913 J. I. Case Catalog.

The J. I. Case Threshing Machine Company is, of course, one of the great institutions of its kind. It has been in existence over 71 years and is still growing, and on the merits of its products. One of the most interesting catalogs, as well as one of the most attractive, is the 1913 catalog of the Case company. It is, of course, beautifully illustrated, and it tells all about the following Case manufactured products: Steam tractors, Case boilers, gas and oil tractors, threshing machines, feed carriers, wind stackers, grain handlers, sweep horse powers, gang plows, husker-shredders, corn shellers, baling presses, sprinklers, rock crushers and last, but not least, the splendid Case automobile. Write for it to the J. I. Case F. M. Company, 633 State St., Racine, Wis.

Cotton Seed Meal Dealers Organize For Protection of Farmers.

Thirty of the leading cotton seed and alfalfa meal dealers of Kansas and the Southwest met in Kansas City last week and perfected an organization designed to protect consumers of these commodities from the sources through which they are supplied with an inferior grade of cotton seed meal and alfalfa meal. H. G. Cherry, perhaps the largest dealer in the country, through whose offices more than 80,000 tons of cotton seed meal was distributed in 1912, was elected president of the new organization. The organization will contain a total membership of 7,000 dealers. Recently complaint has been heard among feeders that much of the cotton seed meal and alfalfa meal placed upon the market contains too large percentage of fiber—and not enough fat. The object of this new organization, according to Mr. Cherry and his brother dealers, is to provide against such business methods as have brought about these complaints. In other words, they propose to see that nothing but the highest standard of cotton seed meal and alfalfa products, containing the proper percentage of protein, gets into the hands of the farmers of the Southwest.

An Agricultural Masterpiece.

The great artists, whose work of character has lived after them for centuries, each had in his time one masterpiece, his climax, and greatest of all his achievements—the canvas, it may be, on which he poured out his very soul and lavished all the powers of his being. He lived his subject, he dreamed it—it was the creature of inspiration more clearly than all the rest of his work, and he alone realized it more fully than anybody else. This sort of inspiration is not dead, nor is it confined to artists only, for in every avocation of life you occasionally find men so wrapped up in their work that not only does their interest find expression in the product of their hands or brains, but at some point in their lifework they bring forth that which unmissably excels all their former efforts. And so it comes that Samuel L. Allen, a practical farmer who, nearly half a century ago, caught an inspiration for lightening labor and increasing the yield of the field, and who turned his practical experience into inventive genius for producing the results of that have accomplished the results of his dreams, has now brought forth the creature of his long experience and untiring study—a veritable agricultural masterpiece—which he calls the new Planet, Jr., No. 10 Horse-Hoe. He feels, as does the artist, that the supreme effort of his life has been rewarded in a way that he has never before recognized, even in the wonderful labor-saving devices he has previously invented. The No. 10 Planet, Jr., is remarkable in that it does not only what every other horse-hoe ever did, but it combines many additional features of practical usefulness. It works a number of crops from the beginning to the end of their cultivation in the most admirable manner to the last stage, such as

The Most for Your Money in the Best Part of the South

Unless we can show you more for your money than you can get elsewhere, we certainly do not expect you to locate on THE LAMPTON LANDS.

LOCATION. Located on "The Big Red Level" in Southeastern Mississippi, near the county seat, close to the Alabama line and only forty miles from Mobile, the location is exceptionally fine. Steady and good markets are close at hand. Superior educational, religious and social advantages are already established. The highways are the best natural wagon roads you ever saw. Farming is no experiment in this locality. One farm in our area has been under cultivation over one hundred years, another over sixty years; both are still producing well.

NEW SETTLERS. The best proof of our proposition is the character of the settlers we are locating on these high, level, table lands. The fact that these new settlers are practical and prosperous farmers and stockmen and that they come from all over the North and West is, in itself, a strong testimonial.

HEALTH. The U. S. Census (1910) shows our area to have the lowest death rate of any part of the Union. The explanation is our elevation of 300 feet above the Gulf, only 18 to 40 miles away, with an average fall of about eight feet to the mile. This gives perfect drainage, which means almost no mosquitoes, and, as a result, freedom from fever and malaria.

SOIL. The predominating soil is the "Orangeburg Loam" type, as defined by U. S. Agricultural Dept. expert, strong but warm, responsive, friable red dirt. The subsoil is a stiff red clay, but not a hard-pan.

DIVERSIFIED PRODUCTS. While THE LAMPTON LANDS are essentially suited for all staple crops of corn, hay, cotton, sugar cane, oats, upland rice, potatoes, etc., they are also well fitted for Satsuma oranges, paper-shell pecans, figs, peaches, pears, and all vegetables, and field crops, such as Bermuda onions, cabbage, tomatoes, and many more.

FREE BOOKLETS. The cost of this space prevents our stating full details in this advertisement, but if you will drop a postcard we will send you booklets giving complete and accurate information. Address:

THE LAMPTON REALTY CO., Owners, Dept. 47, 1627 First Nat'l Bank Bldg., CHICAGO

tomatoes, peas, potatoes, etc., and it is valuable in cucumbers, cantaloupes and other vine-growing vegetables for its ease in working close to the plants. This is accomplished by using the special vine-turner attachment. This new tool No. 10 Hoe is at once lighter and stronger than any horse-hoe he has ever made. The variety of its work and its wonderful efficiency are a revelation to any farmer or gardener, accustomed only to the old-style horse-hoe, and is well worth looking into, especially if you need such a tool, or if you have a friend that does. Additional information may be obtained by addressing the Company of which Samuel L. Allen is the head—S. L. Allen & Co., Box 1195P, Philadelphia.

The "Plow Man's" New Plan.

Nearly every reader has read or heard about the "Plow Man." He's the Farmer's representative, in a company that makes and sells Plows, Drills, Harrows, Cultivators, Spreaders and many other farm tools. The "Plow Man" supervises the construction, makes sure of the quality and puts the prices down so low that farmers naturally keep his factory busy. Any one who has ever read the "Plow Man's" fine catalog, knows that the Monmouth Plow Factory has grown to its present immense proportions by methods that will build any business of any kind. Highest quality comes first, lowest possible prices come second, dealing direct from factory with farmers comes third, quick service in every transaction comes fourth and fair, square dealing naturally follows. Now we come to the "Plow Man's" new plan. For many years he has quoted freight-prepaid prices in his catalog. His customers knew what the implement would cost them, delivered to their railroad station. There was no guesswork, no chance of being overcharged, no occasion for delays. Nearly everybody is agreed that the best way to get goods when dealing direct with the factory, is to have the company prepay the freight. This year, the "Plow Man" quotes Freight-prepaid prices, and in addition quotes F. O. B. Factory prices. This gives you a fair basis for comparison. It enables you to compare the "Plow Man's" prices with others, whether the others pay the freight or not. It removes every element of uncertainty. It makes you sure you are not being overcharged on freight as you can order either way. This new plan is bound to appeal to our readers because of its fairness. It is only another way in which the "Plow Man" proves that all his customers get a square deal. If you want to read one of the finest implement catalogues we have ever seen, if you want to know about quality that is beyond question, if you want to know the 1913 low prices that the "Plow Man" is making—write a postal now to "The Plow Man" with Monmouth Plow Factory, 421 So. Main St., Monmouth, Ill. In return, you will get some mighty interesting Farm Tool Facts. We urge you to get this book. It will be mailed free to all who are interested enough to write a postal. See ad on page 31.

Don't use a wash to keep the rabbits from eating the young trees. Wrap them with something that will stay on through the winter storms.

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, 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.

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.

Wouldn't Be Home Without It.

Our home would be almost lost without the Mail and Breeze.

A. M. Turner.

R. 3, Box 44, Hoxie, Kan.

Farms That Pay

In 'The Land of Fulfillment'

Rich undeveloped lands in the Eastern part of Oklahoma or Texas, or the Western part of Louisiana, Arkansas and Missouri can still be bought at low prices and good terms. This land is in the proven rain belt where the climate is so even that agriculture is continuous with no crop failures! Give up struggling in a cold climate with short growing seasons. Change mere existence into real life. Come where you can live well, make money every year and save some, and where your children can have a future. Wheat, corn, alfalfa and forage crops do as well as anywhere, and cotton, cane, rice are especially profitable crops, native to the south. Vegetables, fruits and nuts will yield enormous crops. Two to four crops on same land each season is possible in places. A single season's crop should more than pay the cost of the farm. A splendid stock country, good grazing land \$5 to \$7 per acre. I have no land to sell, but if you are dissatisfied where you now are, there's a place for you in "The Land of Fulfillment" and I want a chance to tell you of the money making opportunities awaiting you in the country through which runs the

KANSAS CITY SOUTHERN RAILWAY

Write For Free Books

If you would like to know more about the profits farmers are making in "The Land of Fulfillment" write me today for interesting free books. Wm. Nicholson, Immigration Agent, K. C. S. Ry. 660 Thayer Building, Kansas City, Mo.

BUSTED!

Biggest Price Wrecking Sale in the history of this Company. An excellent opportunity to save 30 to 50 per cent.

PRICES

Never again will such remarkably low prices exist. Don't delay—Send your order at once or write us. Act now.

ROOFING

Corrugated Steel Roofing
1 1/4c Per Square Foot

Here is the chance of a lifetime to buy the best roofing in the world, at a mere fraction of its real value. Our enormous buying power enabled us to pick up for spot cash a stock of this brand new, perfect corrugated, "V" crimped and Standing Seam Roofing and Brick Siding, at a tremendous sacrifice—way under what it is actually worth. Immediate cash needed made possible this purchase. Just another chapter added to the long list of our famous bargain sales.

Corrugated Steel Roofing
Practically Indestructible

There is nothing else that compares with corrugated steel roofing for real protection. It makes a long, lasting roof. Is fire, rain, frost, wind, sun and lightning proof—warmer in winter—cooler in summer; and under ordinary circumstances does not leak, rot or warp, neither does it rain water. You can depend upon it that Corrugated Steel is the best material for roofing, siding and ceiling.

At 1 1/4c per square foot, we furnish our grade AB-700 Steel Roofing, in sheets 22 x 24 inches x 1 1/4 inches. This price is delivered on board cars at Chicago.

Galvanized Steel Roofing
2 3/4c Per Square Foot

Another big Steel Roofing Bargain. Several thousand squares of the very highest grade specially coated, corrugated, galvanized roofing and siding, made of specially prepared steel, of superior quality. Best roofing, and will last indefinitely. We will furnish it in suitable lengths for any purpose. Only a limited quantity on hand, so we urge you to send us your order immediately. Don't wait to write us again—order today, while this stock exists. Price only 2 3/4c per square foot, and will outlast 4 to 1. Just drop us a line, and tell us the size of your studding and general facts, and we will help you to select proper sheets. If you are not ready to use the material now, we will reserve it for future delivery, if you will give us a small deposit on account. This price of 2 3/4c per square foot is for our Lot AB-800 corrugated material, and is delivered on board cars at Chicago. If you prefer some other style, we will furnish it. We have this same grade in "V" crimped, Standing Seam and Brick Siding. Samples on application.

Ready Roofing With Supplies
62c Per 108 Square Feet

We have several thousand squares of a superior quality Ready Roofing, which we are offering in our AJAX BRAND, 1-ply, at a price of 62c per square of 108 square feet, including necessary cement and caps to lay it. This is undoubtedly the most remarkable bargain ever offered in Ready Roofing. This famous brand is put up 3 or 4 pieces to a roll. The price of 62c per square of 108 square feet is loaded on board cars at Chicago. We will, however, make a freight prepaid price on this same grade of roofing, including nails and necessary cement of 60c per roll of 108 square feet, and at this remarkably low price

We Pay the Freight

in full to any point east of Kansas and Nebraska and North of the Ohio River. We will also furnish 2-ply, at 90c; 3-ply, at \$1.05. This Ajax Roofing is guaranteed to wear as long, and give as good service as any Rubber Surface roofing on the market. We have other grades of roofing which we offer 30 per cent lower than others quote. Samples free. Get our free Roofing Book before buying roofing of any kind. This is a chance to lay in your roofing. You must send in your reservations at once—use the coupon shown in this advertisement, or merely write us a letter and tell us where you saw this advertisement. While the stock we have on hand would be considered large for any other concern, remember we have hundreds of thousands of customers who are waiting and watching for these bargains, and who will quickly take advantage of our offer; therefore, we urge you to get in your order at once, even though you are not ready to have the material come forward today. Send us your order and tell us when you want it shipped, and we will ship it according to your requirements. Do not overlook this chance—take full advantage of this offer while it lasts.

Send for Special Roofing Catalog and Samples

Write at once for our Special Roofing Catalog. Free samples and full instructions for laying roofing. No need to write a letter, simply use the free inquiry coupon shown in this advertisement. We will understand that you simply want full information, samples, prices and specifications, which will be sent you at once, prepaid. Just send your name and address. If you are in a big hurry, send in your order direct from this advertisement. We will fill it for you correctly, and will ship forward without any delay. In any event, write us today.

SMASHING BARGAINS

EXPLANATION

The Chicago House Wrecking Company known to the commercial world as the "Great Price Wreckers" is easily acknowledged the bargain house of the earth.

Our Mammoth plant covers 40 acres, and our list of customers are numbered by the hundreds of thousands, and include people from every walk in life. We sell practically everything under the sun at unbeatable prices. We buy our goods at Forced Sales, taking advantage of Sheriff's, Manufacturers' and Auction Sales. In this way we can sell brand new, clean high-grade goods at prices, in many instances even less than the cost of manufacture.

We Supply Everything Needed

Our stock includes everything for the farm, home and personal use, Building Material—Lumber, Roofing, Doors, Millwork, Fencing, Hardware, Plumbing, Heating Apparatus, Furniture, Household Goods, Clothing, Shoes, in fact, every single article needed to clothe a man, woman or child, Sporting Goods, Harness and Vehicles, Jewelry, Sewing Machines, Groceries, etc. You cannot think of a single manufactured article but what we can supply it to you at a saving in price.

OUR GUARANTEE

Our capital stock is \$2,000,000. Any bank or Commercial Agency, or any publisher will confirm our responsibility. We have advertised in this paper for many years. Ask any publisher what he thinks of the Chicago House Wrecking Company; get their personal opinion of the values, and our square methods of doing business. We guarantee each and every article that we sell to be exactly as per our representations. Should you buy anything from us that fails to come up to our representations, or does not agree with your expectations, we will take back such unsatisfactory merchandise at our freight expense. We want satisfied patrons.

FENCING

Brand New Wire Fencing Less Than 1c Per Running Foot

Biggest of all offers of the past. We come to you with the most wonderful proposition ever known, and offer you the very best woven wire fencing at a fraction of its real value; lower in price than ever before, notwithstanding that all other merchants and manufacturers have advanced their prices on fencing. We are determined to simply get all the business in sight, and with that in view we bought up from manufacturer's sales, 150 carloads of High Grade Woven Wire Hog, Cattle, Field and Poultry Fencing, Barb Wire and Nails, in quantities sufficient to take care of our regular customers and those who will quickly respond to this advertisement.

Barb Wire Less Than 2c Per Rod

Galvanized, two-point Barb-Wire, full weight (not the light kind) put up regular on spools, containing about 100 lbs. to a spool. It is made of No. 12 1/2 wire, with good weight barbs. Price per 100 lbs. during this sale, only \$1.95. Order by Lot No. AB-600. Several thousand spools of this Barb Wire, Painted, price per 100 lbs. \$1.75. Order by Lot AB-500. Also have in stock 1000 spools of light weight, new galvanized barb wire, put up 80 rods to the spool, made of No. 14 galvanized wire, No. 15 barbs, barbs 5 inches apart; price per spool of 80 rods \$1.45. Lot AB-400. We also have several other bargains. You never had a chance like this before, and we advise that you send us your order today. Don't wait until the material is sold—we cannot hold this quotation open.

Galvanized Hog Fencing
At a Material Reduction in Price

100,000 rods of 26 in. Galvanized Steel Spring Wire, 26 in. high, hog fence, put up in 10, 20, 40 and 60 rod rolls, made with 7 bars, spaced 12 in. apart, with No. 9 top and bottom wires, No. 11 intermediate wires, heavier than the regular fencing offered. Price per rod, during this sale, only 15c. Order by Lot B-900.

Same fencing spaced 6 in. apart, per rod during this sale, only 21c. Order by Lot AB-1000. Other heights at proportionately low prices.

High Grade Poultry Fencing
48 in. High, Per Rod 27c

A complete stock of all heights of Woven Wire Fencing for every purpose. Send it in at once, even if you are not ready to have it shipped. We will hold the material ready to deliver when you want it.

Several Carloads of Galvanized Wire Shorts

This is smooth wire, put up 100 lbs. to a coil, first class for general use. Comes in sizes from 6 to 12 gauge. Price for 9 gauge, \$1.25 per 100 lbs. Lot AB-1200. Other sizes in proportion.

Some Big Bargains in Nails

At last we have the bargain of bargains. A large stock of genuine galvanized wire nails; will outlast any other kind. Put up in regular kegs. Price per keg of 10 lbs., as follows:

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