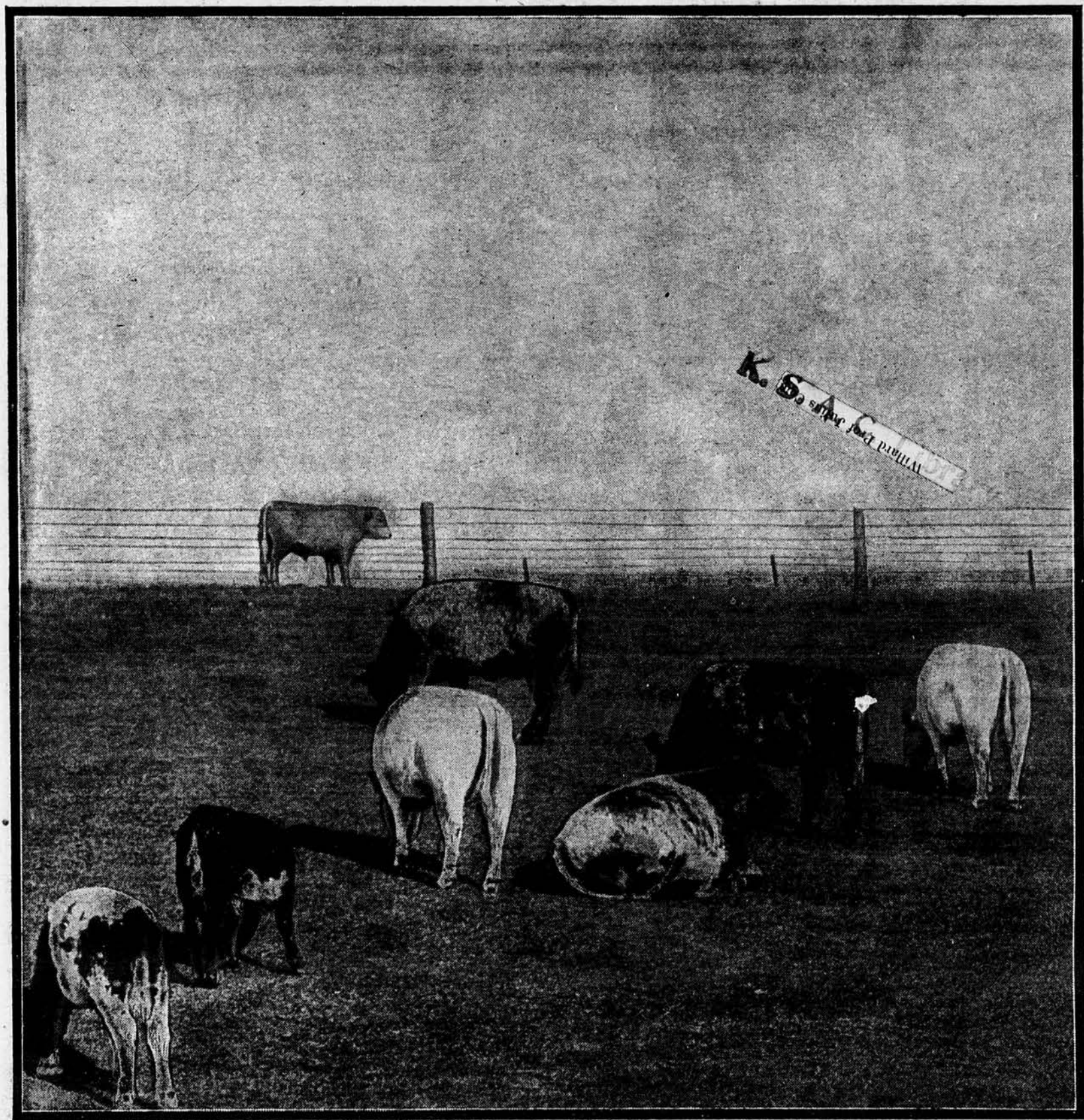


THE FARMERS MAIL AND BREEZE

Volume 43

April 19, 1913

Number 6



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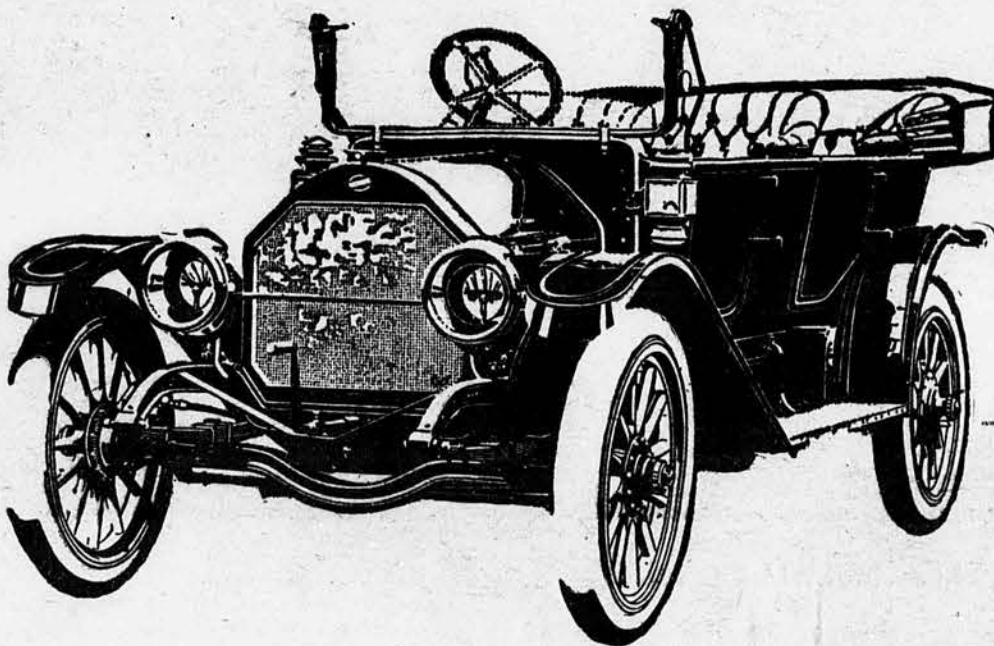
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Volume 43
Number 6

TOPEKA, KANSAS, APRIL 19, 1913.

Subscription
\$1.00 a Year

PROPER FEEDING OF THE PIGS MAY MEAN MUCH THIS YEAR

THE beginnings of the hog crop, that within the next nine to 18 months should bring so many millions of dollars to the pockets of the Middle West cornbelt farmers, will in the next 60 days be coming into the world by dozens, if not hundreds, on every farm. Having conditions favorable and everything moving safely and satisfactorily during the first two or three weeks of their coming may determine the year's prosperity, while neglect, or even some seemingly trivial details, may make the season one of loss and disappointment. A good start in the right direction is seeing that the sows, as farrowing time approaches, have dry, comfortable quarters, where other stock cannot disturb them, where they can take some exercise, and where they can and will receive nourishing, cooling, laxative food—not much corn—plenty of clean water, and a moderate amount of dry bedding. The period of gestation is about 112 days, but young sows with their first litters may farrow in 106 to 108 days, while old sows sometimes go as long as 115 days.

A friendly, quiet disposition, without fretful restlessness, are characteristics of a good brood sow. Any breeder of experience will know just what is meant when it is said that a sow is "motherly," but the exact meaning is difficult to set down in words. This maternal manifestation has an important bearing on success with her as a factor of farm profit. During the first weeks of a pig's life the sow's milk is its food and drink, and the feed of the sow should be of such composition that she will give milk not too concentrated or rich. If too rich it has a tendency to cause feverishness, constipation, cough and unsatisfactory growth.

When about 3 weeks old the youngsters will usually begin wanting some other feed than the dam's milk, which should be placed three or four times a day where they can get it, but out of the sow's reach. Cow's sweet milk serves the purpose well, but more should not be given each time than will be eaten up clean. The quantity can be increased as they grow older, and some shelled corn soaked 24 hours or more can be added, or almost any nourishing food that will promote growth and add to the variety. The pig's capacity is small, and he needs frequent feedings with fresh feed easy of digestion. Feed should not be permitted to remain in the troughs until stale, and the troughs should be kept clean. Between slop and swill there is a wide difference. Slop is properly a hog's relish, while swill is too frequently nothing more than water polluted with unhealthful refuse. The term swill may embrace a wide variety of feed or drink, ranging from ordinary dishwater to a mixture of milk, table scraps, soapsuds and other miscellaneous and possibly decaying ingredients. A supply of wholesome swill in connection with other feeds may be extremely valuable from the time pigs are weaned, but in a condition of decay, rancid, and mainly filth, such stuff may result in a loss of high-priced animals. Nutritious slop, however, may be considered as always in order.

Where refuse, grease, milk, whey and other things that go to make up swill are left in the barrel day after day, bacterial growths develop, fermentation occurs, and chemical changes take place which often more than counteract by their detrimental action any value that the swill might have. Such receptacles are the most natural breeding places for disease germs. Scours in pigs is often caused by compelling

Some Considerations of the Pig's Bringing Up Conducive to the Financial Betterment of His Owner

BY F. D. COBURN

Written Expressly For Farmers Mail and Breeze

them to eat such garbage. A breeder maintaining a filthy swill barrel need not consider it an act of Providence if his pigs become unthrifty, sicken and die. It is his own willful act that is responsible. A filthy, festering swill barrel is not alone unsightly, but dangerous, and should not have a place on any farm. Boiling water and an old broom applied once or twice a week will do much toward keeping it sanitary, and to an extent presentable.

For swine as well as for other livestock warmth is to a certain extent equivalent to food; consequently comfortable surroundings have a money value, the protected animals not only requiring less food but growing faster than their relatives exposed to inclement conditions. Damp beds and quarters are a tax not only on the vitality of pigs but on the feed bin as well, and afford the conditions under which disease germs multiply. Sunshine is a source of life to animal and vegetable. Sunshine warms and cheers, and our grandmothers knew its value as a disinfectant; knew when they exposed their milk

records of the Poland China and Duroc-Jersey associations especially, a fund of figures showing the fecundity of such a great number of sows of these breeds as to make their summing up beyond doubt quite representative of these as well as the other improved breeds. Observations of 14,703 Poland China litters in the five years, 1882-86, inclusive, disclosed an average of 7.04 pigs per litter. Observations of 39,812 litters of the same breed in the years 1898-1902, showed an average of 7.52 pigs. This was an increase in the latter five years of .48, or nearly one-half pig per litter, a percentage of 6.81. From 1893 to 1897 inclusive, 3,762 Duroc-Jersey sows averaged 9.22 pigs each. From 1898 to 1902 inclusive, 17,890 Duroc-Jersey sows averaged 9.27 pigs each, or an increase of .05 per cent. These figures would seem to prove erroneous the popular belief that as our swine are improved or more carefully bred they become less productive. Of the more than 76,000 sows of both breeds reported as under observation one Poland China farrowed 20 pigs and two Duroc-Jerseys a like number. A Barton county, Kansas, man, Mr. H. L. Ives, owned a Duroc-Jersey sow that in 11 months and 5 days bore litters of 13, 12 and 20 pigs, respectively, when she was yet but 23 months and 5 days old.

To discover the influence of the age of sows upon their prolificacy and the weight and growth of the pigs they produced, an investigation at the Iowa Experiment station gave some interesting results. It was found, for example, that 15 sows bred at 8 or 9 months of age averaged seven and two-thirds pigs

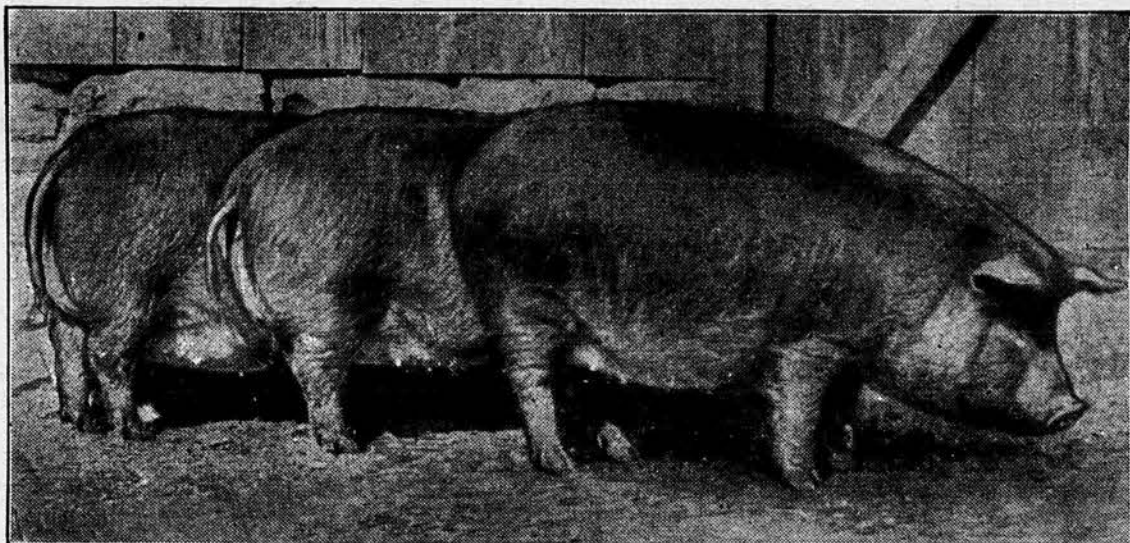
per litter, while 14 sows about 24 months old averaged nine and six-tenths pigs per litter, and more aged sows averaged 10 and six-tenths per litter. Pigs from the younger sows weighed on an average of 2.30 pounds per pig; from the 2-year-old sows 2.63, and from the aged sows 2.61 pounds. When about 6 weeks old the pigs from the young sows made an average daily gain of .32 pounds, while the pigs from the 2-year-old sows gained .40 pounds. No data is given on the gain of the pigs from the aged sows.

Stated in another way it was found that the 2-year-old sows farrowed 24 per cent more pigs than the young sows, while the old sows farrowed 30 per cent more. The weight of the pigs from the 2-year-old sows was 9 per cent greater than that of the

young sows, while the pigs from the old sows were 12 per cent larger than from the young sows. The pigs from the 2-year-old sows made a more rapid gain than those from the young sows, amounting to 26 per cent. In each instance the older sows farrowed more pigs per litter, pigs heavier at birth, and their pigs made the most rapid growth after birth.

No animal on the farm is better adapted to turning good feed quickly into marketable meat than the hog, and none can better repay, from a market standpoint, a discriminating system of feeding. This is particularly true as to first costs, for the hog is by nature planned to utilize the least expensive feeds, and will manufacture into toothsome pork much that might otherwise be reckoned of little value, if not waste. In the best farm economy the pig is a feature which cannot, wisely, be ignored, and his proper feeding has in innumerable instances been the one factor that gave the farm its profit.

F. D. Coburn



Some Kansas bred Duroc-Jersey gilts. In the best farm economy the pig is a feature which cannot wisely be ignored, and his proper feeding has in innumerable instances been the one factor that gave the farm its profit.

crocks and feather beds to it that they were destroying microbes and evil germs as surely as the scientist does when he is using "cures" and high-priced, loud smelling chemicals.

The state of the weather will govern the length of time it will be necessary to keep a newly farrowed sow in close quarters, but she should not be denied opportunity to exercise nor access to the open air. Pigs should not be allowed out in a cold rain or where they will receive the shock of chilling winds. When they can do so without danger they should be where the sun can reach them within 24 hours after birth, and later the best practice is to let them go in and out at will. Neither the sow nor very young pigs should be permitted to run in pasture early in the morning if the grass is tall or wet with rain or heavy dew, which injuriously affects the skin.

There is doubtless a widespread misapprehension as to the average number of pigs to which sows in general give birth. That is to say the number is smaller than popularly supposed. Bearing on this, the bureau of animal industry has compiled from

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ARTHUR CAPPER, Publisher. T. A. McNEAL, Editor

A. L. NICHOLS, Associate Editor.

E. W. RANKIN, Advertising Manager.

Editorial Contributors.

F. D. COBURN, PROF. W. M. JARDINE,
PROF. A. M. TEN EYCK, PROF. A. H. LEIDIGH,
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**PASSING
COMMENT**
by
T. A. McNeal.

THE STATE FIRE MARSHAL LAW.

Among the laws passed by the recent legislature was one creating the office and department of state fire marshal. The state fire marshal will have an office in the state house, will draw a salary of \$2,500 per annum and necessary traveling expenses and have a chief deputy fire marshal who will draw a salary of \$1,800 per annum and necessary traveling expenses.

The state fire marshal has the authority to appoint as many deputy fire marshals as he chooses in different parts of the state but these are not to be salaried officers. They will only draw necessary expenses.

It will be the duty of mayors and chiefs of fire departments in cities and towns and of the township clerks in townships outside of incorporated cities and towns, to report fires and the origin of the same so far as can be ascertained, to the state fire marshal. In case these officials do not draw salaries they will be allowed a fee of 50 cents for each fire reported. The expenses of the fire marshal and his department will be met by a special tax levied on fire insurance companies doing business in this state. The total expense of the department must not exceed \$15,000 per annum.

The purpose of this law is good. It is intended to prevent as far as possible the tremendous loss by fires in Kansas. The fire marshal and his deputies are empowered under this law to enter upon premises for the purpose of seeing whether they are properly safeguarded against fires. Also if the conditions surrounding a fire look suspicious they may summon witnesses and make an examination into the facts and if the testimony seems to justify it may file a complaint with the county attorney against the person suspected of setting out the fire.

Now I believe that the operation of this law will prevent to some extent fires in this state, but after all it does not go to the root of the difficulty.

As pointed out by the superintendent of insurance, over insurance is the crying evil with our present system of insurance in not only Kansas but practically the whole United States.

Insurance companies should not be permitted to carry more than three-fourths of the actual value of property in any case. Over insurance offers a temptation to crime and puts a premium on carelessness. Even people who would not think of committing the crime of arson when they know that their property is insured for at least its full value and probably more, are not going to exercise the watchful care they would exercise if they knew that part of the loss by fire would fall on them.

On the other hand, take the man who is in financial difficulty. He has a building worth, we will say, \$5,000 situated on a lot worth \$2,000, without the building. There is a mortgage for \$3,000 on the property. He finds that he is not going to be able

to meet the mortgage when due and is likely to lose the whole property. But he has an insurance policy on the building for \$5,000, every cent it is worth, and maybe more. Now if that building will conveniently burn he will have enough cash to pay the mortgage of \$3,000 and leave him the lot worth \$2,000 and \$2,000 in cash. There is a \$4,000 bid for him to commit the crime of arson. It is easy to start a fire and it is not easy to prove that it was set out intentionally.

The temptation is strong. Here is ruin staring him in the face on the one side. If the mortgage takes the property it will leave him without a dollar. On the other hand, the fire will leave him with cash and real estate to the amount of \$4,000. It takes a pretty strong man to withstand that temptation, especially in these times when there is such a general impression that it is no particular crime to swindle an insurance company anyhow.

Rather than continue the present system it would be better for the country that every insurance company should be put out of business entirely. To say nothing of the cost of maintaining the vast number of insurance companies doing business in the country, the direct loss by fires in the United States during the year 1910 amounted to \$214,003,300. In the year 1906 the loss amounted to \$518,611,800. That included the losses of the great San Francisco fire. In ordinary years the loss exceeds 200 million dollars. And that means a dead loss.

It is not like the losses in business where perhaps some gain what others lose, but it is property, the result of industry, actually destroyed. It means that the property representing in value four cities like Topeka is absolutely destroyed every year. How much of that is the result of arson, of course nobody knows. How much of it is the result of culpable carelessness nobody knows, but it is certain that a large part of it is the result of one cause or the other. If arson and rank carelessness were eliminated it is safe to say that the fire losses in the United States would not be one-tenth of what they are at present.

My own opinion is that the business of insuring property ought to be taken over by the state. No property should be insured by the state for more than three-quarters of its assessed value and the rate of insurance should be the actual cost. The premiums collected would be kept at home and could be lent by the state on good farm or city property.

The people of the state would then realize that unnecessary fires meant direct loss to them and as a result every right-minded citizen would feel it incumbent on him to help keep the fire loss down as low as possible.

A FOOLISH POLICY.

Last fall the people of Michigan voted on an amendment to the constitution of that state extending the right of suffrage to women. The vote was very close, so close that for a good while the result was in doubt. The advocates of suffrage claimed that they had carried the state but the count was finally decided against them. The other day the question was voted on again and suffrage was defeated by a large majority. Why the sudden change?

It is unreasonable to suppose that under ordinary circumstances several thousand voters would change their minds on this question. My opinion is that this change of sentiment was brought about largely on account of the actions of the women of England who have resorted to mob violence in order to carry their point.

The argument has been made by the opponents of woman suffrage that women are emotional to an extent that unfits them for the duties of citizenship. I take no stock in argument generally, but the actions of this band of women in England give color to that argument. The English speaking people are very generally strongly in favor of orderly government. It is that fact that has made them successful in establishing and maintaining popular government. Indeed they may be subject to the criticism of depending too much on law and of having too much of a passion for legislation. We make too many laws, the reason being that people are prone to think that everything can be regulated by statute, forgetting sometimes that no statute is self-acting. There must be efficient machinery to put it into operation.

This tendency to legislate on every subject under the sun and then let it go at that, has resulted in a good many dead laws on our statute books. While we as a people have this fault of trying to make too many laws, it shows, as I have said, the deep-seated sentiment in favor of orderly, law-regulated government. We have mobs, of course. Laws are frequently violated, but the vast majority of the people of this country are opposed to mob law and violence.

It has been said that these English suffragettes got their idea from our own Mrs. Nation. I do not know whether there is any truth in that statement or not, but while I never did approve of Mrs. Nation's

methods, there was this much to say for her. She never harmed the property of anybody except law breakers. She took the law into her own hands but she did what the law made it the duty of officers to do. The law provided that these persons should be arrested and the property used for unlawful purposes, destroyed. Mrs. Nation, impatient on account of the failure of local officers to do their plain duty, undertook to destroy the property without due process of law.

The suffragettes of England seem to be destroying the property of law-abiding citizens, on the plea that they are not granted rights of citizenship to which they are entitled. I do not understand conditions in England but I do know that their actions are doing the cause of equal suffrage harm in this country and the sooner the leaders of the suffrage movement make it known that they are most emphatically opposed to the riotous proceedings of the English suffragettes the better it will be for the cause.

THE PRISON FIRE.

The fire at the Kansas penitentiary last week, which destroyed more than half a million dollars worth of state property, was in one sense a calamity but on the other hand may prove in the end to be a blessing.

Anyone who has visited the penitentiary and observed conditions will not be much surprised to hear of this fire. The first buildings over there were constructed nearly 50 years ago and evidently when they were constructed mighty little care was exercised to build them so that they would be fire proof. On the contrary they were constructed in a way that made them little better than fire traps. Other buildings have been added from time to time but the construction, so far as guarding against fires was concerned, was little better than in the first buildings.

Warden Coddington begged for new buildings, or at least for more adequate fire protection, but got neither. So the state must stand the loss.

The destruction of the twine plant was a misfortune that is likely to cost the people of Kansas considerably more than the amount of actual property destroyed. The prison twine has undoubtedly resulted in cheaper twine to the wheat growers of Kansas, not that the prison has supplied all the twine, but the competition has kept the price down. The probability is that without this competition the price of twine will be higher than it would have been if the prison twine plant had been in operation this season.

That is the bad side of this fire. On the other hand, however, if the persons in authority act wisely the fire in the long run will prove to be a blessing. The new buildings should be modern in construction and as near fire proof as it is possible to make them. The state has a fine brick plant and good stone can be obtained convenient to the prison. In fact the state has a good stone quarry. With prison labor the work can be done at a moderate cost. The state ought also to tear down the old antiquated cell houses and build modern cell houses in their place. In fact the whole prison ought to be reconstructed so far as the buildings are concerned.

Another good thing connected with this great fire was the showing made by the prisoners. There was a report that some of the prisoners spread the fire by lighting papers and scattering them about, but Warden Coddington refutes this statement and gives the prisoners unstinted praise for their good conduct.

There was no attempt made to escape though that would have been comparatively easy in the confusion and excitement. Every prisoner was present and accounted for after the fire was under control. Many of them acted like heroes, risking their lives in trying to save the property of the state and save their fellow prisoners who were in great danger.

The personal influence of Warden Coddington was wonderful in controlling these men. He has during the time that he has been warden, continually preached the doctrine of humanitarianism and reformation by kindness coupled with firmness. He has insisted that there is no criminal class and that most of the inmates of the prison go wrong on account of defective education and bad environment for which society is largely to blame.

The conduct of this body of almost a thousand prisoners under most trying circumstances, proves the correctness of Mr. Coddington's theory. These men have a great deal of good in them. The difference in men is after all largely a question of education and environment. There may be and no doubt are some moral degenerates in the world, men who have no sense of right and wrong and who are criminals not at all on account of necessity and perhaps in spite of the best of environment and teaching, but they are the exception and not the rule even among the so-called criminal class.

In practically every man there are two contending forces, the one tending to good and the other to evil. As the weeds in the field often choke out the good grain, so in human nature the forces of evil, the weeds in human nature, are allowed to choke out the good and the result is a criminal. If the weeds had been eradicated by cultivation, by proper environment and training, the good would have had a chance and the result would have been a good man.

Warden Coddington has consistently acted on that theory and as a result has made the penitentiary at Lansing a real reformatory institution where many a man has been made over so to speak, and gone

The Farmers Mail and Breeze will be glad to have its attention called to any misleading or untrue statement, if such should appear at any time in any advertisement in its columns. Readers are requested to assist in protecting themselves and legitimate advertisers.

out to be a useful member to society instead of a criminal.

Without casting any reflections whatever on the gentleman who is to be his successor I feel that it is a misfortune to the state that Warden Coddington is to be displaced as chief officer. His personal influence with the prisoners is remarkable. They know that he is their friend and trust him accordingly. It was this personal influence that made the perfect order during the fire possible.

Of course it is idle to say that there is no other man who can run that penitentiary as well as he, but it is true men who are so well fitted for that place as he, are not easy to find. And when a public servant of that kind is found he ought to be kept in his place as long as he is willing to stay and as long as he demonstrates his fitness. Warden Coddington is a big man in every way, big in body, big in mind and big in heart and that combination isn't found so very often in one man.

RATE DIS-CRIMINATION.

I have here a letter from J. L. Stevens of Stockton, Kan., from which I quote the following: "If we cannot get fair railroad rates I am in favor of government ownership of railroads. It has just come to my attention that a man desires to ship apples from western Colorado to Stockton and the rate is 70 cents a bushel. Rate from the same point to Chicago is 35 cents a bushel. Why this prohibitive rate to Stockton and discrimination?"

"The same man tells me he saw 10 carloads of onions dumped by the side of the road. Onions sacked were worth out there 10 cents a sack, the sack costing 9 cents. Onions retail here at \$1 per bushel. The truth is no stuff can be shipped out of the irrigated district and make a decent profit to the raiser unless the prices are made abnormally high in the outside markets, on account of hold-up transportation charges.

"A coal dealer told me that he used to make a better profit retailing western coal at \$7.50 a ton than he can make now retailing the same coal at \$9 per ton, by reason of the advanced freight charges and also because the railroads own or control the mines. The mistake was made in the beginning that the government did not retain the ownership and control of the forests, coal, oil, gas, and water power sites and the transportation."

Mr. Stevens gets near the kernel of the transportation question. It is not so much the question of transportation rates, although of course freight rates ought to be as low as possible consistent with good service, as that rates should not discriminate against persons or localities. The government should own and operate the railroads. The government should have built the roads in the first place. The ownership of highways properly belongs to the whole people.

This principle was recognized by the earliest well established governments. Rome was a great road builder and some of the old Roman roads are in a fair state of preservation to this day.

When railroads commenced to be built it was not foreseen that the time would come when they would be as necessary for the transportation of persons and products as the common highways and a great deal more so. At first they were treated as private property that the owners had a perfect right to use just as other private property was used and to charge what they pleased as far as competition would permit.

As a result railroads charged all sorts of rates for transporting both freight and passengers. Special privileges were granted to both individuals and localities on account of favors to be given in return to the railroads or because these favored individuals were in a position to hold up the roads and enforce their demands.

The abuses of this kind became so flagrant that a demand was made on both congress and the various legislatures for relief. Undoubtedly the discrimination as to individuals, has been abated to a very considerable extent, but the discrimination as to localities has not been stopped.

It is utterly absurd to make a greater charge for instance, to haul a carload of apples from Colorado to Stockton than to haul the same carload to Chicago, more than twice the distance. It is obviously wrong to charge less to carry a car of freight from ocean to ocean than to carry the same freight only half way across the continent and yet that is the case.

The railroads are in fact the great public highways of the country and should be open to the people on equal terms. They should be owned and operated by the government at cost. When I say cost I mean that the charges should only be sufficient to pay the operating expenses and cost of up-keep of the road.

I have heretofore suggested a plan by which the government could get complete control of the roads and make them serve as a place for the safe investment of the savings of the people. After a careful physical valuation of the roads is made let the government take them over, issue stock in denominations running from \$25 to \$100 to the amount of the valuation of the roads. Let the people take this stock and out of the proceeds of the road pay 4 per cent dividends.

As fast as the stock is taken up use the proceeds to retire the bonds of the roads as far as the proceeds will go. If the actual value of the road is not equal to its outstanding bonded indebtedness pay the bondholders pro rata as far as the proceeds of sale at actual value will go. If the physical val-

uation of the road is greater than the outstanding bonded indebtedness pay the bonds and outstanding stock so far as the proceeds will go.

If the roads are not sufficient to do the business of the country, issue sufficient stock to build what additional roads or tracks and equipment are necessary. Put all roads in first class condition. Abolish all discriminations in rates so that one locality will have an equal chance in the markets with every other locality according to distance.

Make all stock non-voting so that it will not be possible to buy up the stock and thus get control of the roads. Put the system of roads under government management with a member of the cabinet as head of the transportation department. Instead of having the Interstate Commerce commission spend all its time in the impossible task of trying to reconcile rates that are irreconcilable, under the present system, let it act as a board of managers for the national system of railroads and fix a uniform schedule of rates that would be based on distance and character of freight so that a given amount of freight would be carried a given distance from or to the town of Stockton, for example, for the same amount that it would be carried the same distance from or to any other town in the United States.

Take over the water powers of the United States, develop those that are undeveloped and use the power for the purpose of furnishing electricity to operate factories and run the railroad trains. Fix this uniform schedule of rates so that it would pay a dividend of not to exceed 4 per cent per annum on the stock. Let the government guarantee the stock and if any stockholder desired to transfer his stock to the government, issue to him government non-interest-bearing notes, legal tender for debts public and private including taxes. So long as we adhere to the gold standard let these notes be redeemable in gold in the same manner that greenbacks are now redeemable.

THE TROUBLES OF A KING.

King Alfonso, of Spain gets a salary of something over 2 million dollars a year, which makes the king business seem to be a pretty fair sort of a job, but then there are things connected with it that must sort of grate on Alf's nerves.

He is now about 27 and has been king of Spain for nearly 11 years. During that time there have been 10 different attempts to put his light out, which isn't a comforting record except in the fact that so far none of the killers have actually got him, though they have come mighty close to it a number of times.

When he was only a kid of 16 on his way to the Chamber of Deputies to get his crown a man who sort of had it in for kings on general principles heaved a bomb at him. The fuse wasn't timed right and the bomb went off before it got to Alf, but it must have rather jarred the boy's nerves.

Three years after that while he was riding along in his carriage another person tried to explode a bomb under him. It missed Alf but killed a couple of other people, innocent bystanders. A little more than a year after that while he was visiting in Paris an anarchist chucked a bomb at him and the French president as they were coming home from the theater. That missed again.

Less than a year after that as Alf was coming back from his wedding some person who was dissatisfied on account of not getting an invitation or something, got peeved and threw a bomb at the bride and groom. It missed them but killed 16 other people who happened to be standing round in the neighborhood.

In 1908 a policeman in Seville jumped onto Alf. He claimed afterward that he didn't know Alf and mistook him for an anarchist, which goes to show that clothes have a lot to do with the appearance of a king. Alf was wearing a suit of clothes that didn't fit him at the time and a suit of that kind will make most anybody look like an anarchist.

In 1909 some person carelessly left a bomb with a fuse lighted in the royal palace. Fortunately the hired girl discovered it in time to spit on the fuse. In 1910 a bomb was exploded in Madrid where Alf was expected to be riding at a certain hour. He was expected back from London at that time but fortunately his train was late and the bomb went off before he arrived.

In January, 1911, while Alf was waiting for a train some one carelessly blew up the station. Fortunately for him Alf had stepped outside to buy a sack of peanuts or something and missed the explosion, or rather it missed him. This time the person who wanted to put Alf out of business tried to shoot him but Alf was a little too quick for his aim.

It is said that on all of these occasions Alf has shown remarkable nerve. He does not worry any, so far as appearances go, but it must be sort of getting on his nerves just the same. Some of these times some person is going to get him. He has come off 10 times without getting hurt but probably the

next time his royal person will be scattered over a considerable area of Spanish territory.

After all it is better to be a common plug citizen with a fairly good business and no one hankering for your life than to be the king of Spain with a large and apparently increasing number of persons going about with bombs concealed about their persons which they desire to place under the person of his royal nibs.

A DOUBTING THOMAS.

Under the caption, "Called McNeal's Hog Story," the Wellsville Globe has the following on its editorial page:

Last week the Globe reprinted a clipping from the Mail and Breeze, telling of a Harper county farmer who killed two light weight hogs that would have brought him \$28 on the market. According to the story the farmer put up his own meat from the hogs and netted a profit of \$30 over the light weight market price, for the labor of butchering.

A Globe reader figures that he wants to buy enough hogs from that herd to get a start. He thinks that there would be money in them—or else there's something wrong with the story.

According to the esteemed Mail and Breeze the lard from the two hogs brought \$32.80. Lard is worth on the market 14 or 15 cents, so that there must have been at least 220 pounds of lard; sausage brought \$9.60—there must have been at least 66 pounds of sausage; the bacon brought \$2.00—probably 10 pounds of it; the shoulders and hams brought \$18.25—which accounts for 70 more pounds, a total of 360 pounds, dressed weight.

The farmer could have sold the hogs for \$28 live weight, so that they probably weighed about 175 pounds each.

Will somebody please explain how they got 366 pounds of dressed meat from them?

The story was not "McNeal's hog story," but a statement made by the Harper county farmer, whose reliability I have no reason to doubt. It must be remembered that he did not give the live weight of his hogs, only an estimate of what he supposed they would weigh.

In view of the amount of lard obtained it is quite possible that he underestimated their live weight, although the weight of a hog is not a criterion for the amount of lard it will produce. I have seen hogs that would weigh 200 pounds that would produce hardly enough lard to grease a skillet and other hogs of the same weight that would produce a great deal of lard.

Truthful James

"It looks," said Truthful, "as if this is to be a good year for crops. I have seen some fertile years in Kansas. The way things did grow was indeed a caution. Of course, there have been a great many absurd lies told about crops, which ought to be frowned upon by every lover of truth.

"The year after the grasshopper year was a mighty good season for growing things. I never saw seeds germinate so quick as they did that year. One of my neighbors said that he finished planting a field of corn at sundown and the corn was up ready to plow when he got up at daylight the next morning; but his reputation for truth was not good in that community and I have always suspected that he lied to me about his corn. There were, however, some cases that came under my personal observation that have stuck in my memory.

"Zeb Alltizer moved into that neighborhood just after the war and settled down on the creek bottom. Zeb was in the habit of going barefoot all the time in the spring and summer and most of the fall. He got into the habit first, I suppose, because he hadn't money to buy shoes with and finally he got to the point where it just naturally hurt his feet to wear shoes, so he kept on running around barefoot even when he was able to buy shoes if he had wanted to.

"Another thing about Zeb was that he hated to sleep in the house. He said that sleepin' in a close room sort of smothered him. He was away ahead of this sleeping porch fad that people have now. He slept out on the porch all the time from the middle of March to the middle of December, mostly without any covers. The porch on Zeb's shanty was a small affair and Zeb was a long man. He was about 6 feet 6 inches long and about 6 inches across. So his feet stuck out over the edge of the porch.

"Another peculiarity about Zeb was that he never washed his feet. He insisted that washin' 'em made 'em tender and liable to get sun cracks in 'em. There was a good deal of fine rich soil that accumulated between Zeb's toes in the course of the summer. The dirt pressed his toes apart till they spread out like a fan.

"One night that spring Zeb went to sleep on the porch as usual with his feet sticking over the edge and a nice gentle spring rain came up in the night and moistened the rich earth between his toes. That caused a lot of rye and alfalfa seed that had gathered there as Zeb tramped round over the farm, to sprout. Zeb had a family horse that was allowed to graze round the yard and the rye and alfalfa growing up between Zeb's toes attracted its attention. The horse thought he had discovered a fresh pasture and started to graze on it.

"It would have been all right if the horse had been careful, but it was early in the spring and he was hungry for a bite of new grass. The first bite he nipped off two of Zeb's toes along with the growing rye and alfalfa. People heard Zeb yell nearly a mile away. Zeb got well, but he has been lame ever since, and after that he quit sleeping out on the porch."

Fining the corporations which violate the anti-trust laws does no good. The heads of these concerns must be sent to jail like other lawbreakers, if we are to have respect for law. —ARTHUR CAPPER.

Handy Farm Devices

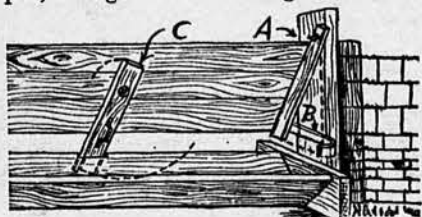
A Once-a-Month Page of Helpful Ideas

Do not think what you have to offer must be original. Make your instructions plain and send us as good a rough sketch as you can draw. Leave the rest to us. By way of incentive a year's subscription to the Topeka Daily Capital is to be the reward for the best device sent in before May 15, 1913. For second and third best, respectively, a year's subscription or extension of subscription to Farmers Mail and Breeze. Send your contributions to Devices Editor Farmers Mail and Breeze, Topeka.

Makes Slogging Hogs Easy

Awarded first prize, a year's subscription to the Topeka Daily Capital.

Mr. Editor—Here is my style of a hog trough, and it is too good to keep from the rest of the Mail and Breeze readers who may not have it. A section of the fence, the length of the pen, swings over the trough from side



Trough Is Built Into Fence.

to side, making it possible to shut the hogs away from the trough while cleaning it and putting in feed. A shows the bolt at one side on which the gate swings. B is a bumper, and C is a latch to hold the section back. Norwich, Kan. J. A. Crandall.

Loosens Up Crusted Rows

[Awarded Second Prize.]

Mr. Editor—This is a tool that I rigged up to loosen the surface crust that had formed after listing corn. I tested out this implement last year and the year before on fields so crusted that the corn could not possibly have come through. After going over the crop with this tool I secured a good stand. It is made of an old style corn sled with a 2 by 6 about 7 feet



Takes Three Rows at a Time.

long bolted across the back. Three logs are attached with chains and these heavily wrapped with barbed wire. Taking three rows at a time one can go over a field in a hurry at a season when time means money. I also found by putting heavy log chains in place of the logs I could pack the mellow earth after listing the corn. C. F. Mowrer.

R. 2, Herington, Kan.

Form For Concrete Blocks

Mr. Editor—I believe I have a better plan for making concrete blocks and bricks than that described in the last Handy Device page. For an 8 by 8 by 16-inch block I make a form of 1-inch lumber. Four 8-inch boards are cut—



two 16 inches long and two 10 inches. These are hinged together at top and bottom at all but one corner, with common strap hinges. The open corner should have two common staple and hasp fasteners. Set the forms on a wide board and tamped with cement just wet enough so it will stick together when squeezed in the hand. After smoothing it off unhook the form, open carefully and you will be ready for another block. After being well set the blocks should be sprinkled every day for ten days.

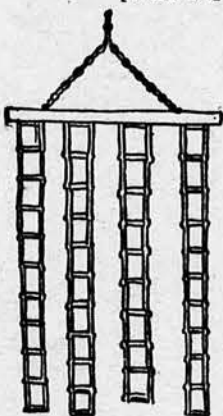
A brick mold may be made on the same plan. The forms can be lined with tin or galvanized iron and the block face may be made with a panel

effect by tacking molding around the face side of the form as shown in the lower drawing. If hollow blocks are wanted, one or more cores may be put into the forms, the lower end tapering slightly, so they may be pulled out before opening the form. The forms should be wet on both sides to keep from warping if used long at a time. I use 4 parts sand to 1 part cement ordinarily, but a 5 to 1 mixture also makes good blocks. I believe an amateur can do better work with an outfit like this than he could with many of the block machines on the market. Chickens or pigs will play smash with blocks that are still fresh, if allowed to get to them. O. S. Newberry.

Meade, Kan.

Helps to Get Stand of Corn

[Prize Suggestion.]



Mr. Editor—I have a chain drag which I fasten to my lister to pulverize and pack the earth over the seed, and it goes a long way toward getting a good stand of corn. It is made of four rows of 10 links each from a big binder chain. H. L. Loewen.

R. 1, Hillsboro Kan.

Closes the Mill From the House

[Awarded Third Prize.]

Mr. Editor—I have a plan of putting a windmill in and out of gear at a distance that saves many steps. I fastened an ordinary well bucket wheel close to the ground below the arm that closes the mill. The well chain was connected with the arm, passed around the wheel and fastened to a long, heavy No. 9 wire. Another well wheel was fixed to the mill frame about 6 feet high. One side of the chain which passes over this wheel was fastened to



Saves Steps Every Day.

the arm and the other to a weight swinging free. About 800 feet away four posts were set into the ground and two 2 by 12 oak planks bolted to them. We had the blacksmith put a crank on an old boxing from a disk, and he also notched the boxing on one side with a catch to fit it to keep it from turning back. The wire from the mill is fastened to this windlass. The mill is closed by turning the crank, and opened by releasing it, the weight pulling up the slack wire to allow it to open. Henry Guth.

Paxico, Kan.

A Study in Plow Points

Mr. Editor—I have a method of sharpening my plow points that I believe makes the plow pull a half horse lighter and also lengthens the life of the point. The usual method is to have the share square and thick at the point. The share is also left without temper, so it can be "cold hammered." I have my points made with the nose cut in diagonal shape and the edge is very sharp at the point. A shows the ordinary



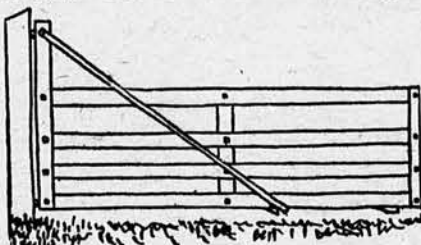
shape of point, B shows my way of shaping it. I also have mine thicker back from the point than the other. After getting it in the proper shape I have the point heated to a cherry red, the rest of the share a light red, then put it in the water. This makes the point as hard as a file and it will not break, as is often the case when tempered in the ordinary way. The point A will wear sharp as the rest of the share gets dull, and this throws the plow out of line. My point being thicker back from the edge it will hold its shape better. A. W. Lawless.

R. 6, Chetopa, Kan.

Farm Gate With Bolted Panels

[Prize Suggestion.]

Mr. Editor—I want to add a feature to the Elmquist gate given in a recent Mail and Breeze. Instead of nailing the panels I bolt them through the frame with one bolt at each place as shown. The brace is an old wagon



May Be Raised or Lowered.

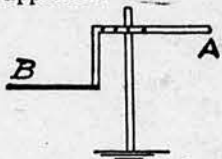
tire bent in the form of a hook at the lower end and bolted at the top. Blocks are nailed to the bottom board and the hook placed in front of the one that will make the gate hang level. The gate may be raised or lowered at will to let out pigs or to swing it over snow. In raising or lowering the gate the uprights remain perpendicular, the panels turning between them. In this as in other gates the main thing is to get a good, solid gate post in the ground from which the gate is to swing. G. F. Sandritter.

Blue Springs, Neb.

Wind Power For Washing

[Prize Suggestion.]

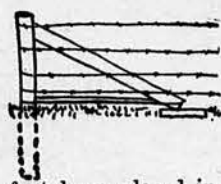
Mr. Editor—Here is a walking beam apparatus that I am using to run the washing machine with windmill power. The various specifications will depend on the style of machine, etc. A is the end of the rod that connects with the windmill. The end B is hooked up to the washing machine. Belleville, Kan. M. L. Snapp.



"Straight Pull" Corner Post

[Prize Suggestion.]

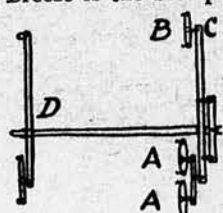
Mr. Editor—I have tried many different kinds of braces for corner posts, but have never found a better one than this. The worst trouble about the common brace is its tendency to pull the post out of the ground. The whole pull on my corner post comes at the bottom of the post. The brace is a 4 by 4 about 10 feet long, placed in a notch in the top of the post, and the other end rests on a flat stone. A wire is then drawn around the post and outer end of brace as closely as possible to the ground. Canton, Kan. J. H. Klinkerman.



A Three-Horse Cultivator Hitch

[Prize Suggestion.]

Mr. Editor—I think the Mail and Breeze is the best paper I ever read. I especially enjoy the page of "handiest things on the farm." I have heard many farmers asking for a good plan of hitching three horses to a riding cultivator. My plan is to make a three-horse even-er as shown, driving the two horses,



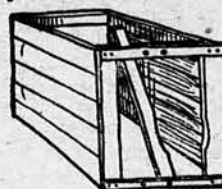
AA, as a team, and using a jerk line on the horse at B. D is a special neck-yoke, with the long end for the third horse. F. M. Nuzman.

Soldier, Kan.

To Hold Hogs While Ringing

[Prize Suggestion.]

Mr. Editor—I have a device for holding hogs while ringing or snouting them that makes less work of this job. The chute is 2 feet wide and 4 feet long, with solid floor. One end has a door and the other a stanchion arrangement. The hog is driven in, and in trying to get out the other



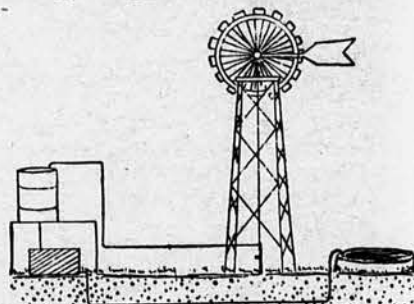
end the lever is drawn over, catching his head and holding him firm. Several holes should be provided in the frame at the top for hogs of different sizes. To hold the lever in place a bolt is placed through a hole at the top back of the lever. J. C. Clafflin.

R. 1, Manchester, Okla.

Water Pressure by Gravity

[Prize Suggestion.]

Mr. Editor—The handiest thing on the farm the year around is a good arrangement of the water supply. We have a screened porch on the west side of our house and adjoining this on the north is a milk room. The well is 20 feet west of the milk house. Water is pumped through an overhead pipe into a 40-gallon galvanized iron tank, which



The Greathouse Water System.

overflows into a 10-foot milk trough. From this trough the water overflows through an underground pipe into an 8 by 16-foot stock tank. The stock tank overflows into an irrigating reservoir for the garden. The pump has a 4-inch cylinder and 2-inch pipe is used all around. F. E. Greathouse.

Terryton, Kan.

Split Pipe For Fence Making

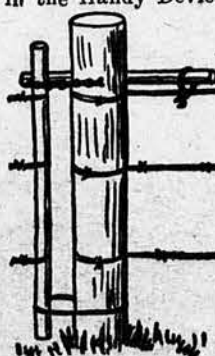
Mr. Editor—By accident I found the tool here described to be a big help in fence building. It is a piece of gas pipe 30 inches long that was split back about 6 inches by hammering it on an anvil. It saves hammer handles for stretching short lengths of wire. Abbeyville, Kan. E. L. Albers.



Fastener For Wire Gate

[Prize Suggestion.]

Mr. Editor—I take a lot of interest in the Handy Device page and want to add my mite. It is a handy wire gate fastener that tightens the gate up in closing, yet when closed is easy to open. A piece of chain about a foot long is stapled to the post at one end. The other end is securely fastened to an old wagon wheel spoke. The upright in the gate is set in the loop at the bottom of gate post and the lever passed back of the top. Pry it around and slip a loop of smooth wire on the top wire, over the end of lever. C. R. Herrick.



Clay Center, Kan.

New Plan to Banish Cholera

Not a Get-Rid-Quick Scheme But Something More Practical; Kansas Will Try It

A GOOD working plan to banish hog cholera from Kansas has been evolved by the veterinary department of Kansas Agricultural college and is already under way in Shawnee county. One hundred and fifty farmers in a section 7 miles long and 4 miles wide, near Silver Lake in that county have agreed to co-operate with the veterinarians of the college in a test of the plan to prove cholera can be controlled and finally eradicated by the use of serum. Later a similar test will be conducted in Smith county.

Before the college will agree to make a test every hog owner in a territory must consent to co-operate and follow out the directions of the college. These directions, mainly are suggestions regarding sanitary conditions, feeding, etc. The owner must agree to have all

cholera cannot be exterminated. Science and co-operation banished yellow fever from New Orleans, Cuba and the Panama Canal Zone, and hog cholera will go the same route when the right kind of effort is made. Here's hoping Kansas farmers will be first to make a success of the new plan.

Last week's government report indicated 6½ million hogs died in 1912 from cholera. So far this year the receipts of hogs at western markets are 1 million less than for the same months last year. In Kansas results obtained with the state's serum, manufactured at the college, have been uniformly successful where it was properly used. It costs the price of a hog or two to immunize a bunch of hogs, but nothing like what it costs to let cholera have them all. Hog cholera cost the farmers of the U.

"Fix" the Flies Now

(Cut this out and keep for reference.)

The first lazy flies of spring are beginning to crawl into the sunny corners. One fly killed now may mean 10 million less later on.

Flies breed more readily in manure than anywhere else. Remove the manure at least twice a week. Better keep it in a closed pit or bin. Every time manure is placed in this pit or bin sprinkle it with powdered gypsum or slaked lime.

If flies begin to breed in stored manure they may be killed by thoroughly spraying it with kerosene or paris green and then pouring on enough water to wash the oil or poison well in.

The objection to kerosene is that it ruins the manure for fertilizer. A solution of iron sulphate (1 pound to a gallon), applied at the rate of 1 gallon a day in a stable for every horse or cow kept, will kill all the maggots. It costs about \$1 per 100 pounds, so that the cost of keeping flies from breeding in the stable is about 1 cent a day per head.

Where old fashioned outhouses exist apply a small quantity of chloride of lime daily. Slaked lime will do but the chloride is stronger. Keep garbage cans covered or well sprinkled with kerosene.

his hogs vaccinated whether they are sick or not, and he must pay for the serum used. He must keep in close touch with the college and furnish information concerning the condition of the hogs.

In the Silver Lake neighborhood, in Shawnee county, the co-operation feature of the test was secured by a few farmers circulating petitions among their neighbors.

The college will send a veterinary physician into the territory as often as may be necessary, to vaccinate all the hogs and suggest such care in handling as he believes will be best. The salary and railroad fare of this veterinarian will be paid by the agricultural college, but the hog owners are expected to pay his other expenses.

This is not a get-rid-quick scheme for banishing hog cholera. It can't be done that way. The disease must be whipped in detail and whipped thoroughly, and this district plan looks like a feasible method.

We must get over our notion that hog

S. 66½ million dollars last year in good money that they sorely needed. If Kansas can prove that organized effort will eradicate the disease, it will confer a great blessing on the country and save enough dollars for its own people to fill a silo.

Big Business in Beef Cattle

Though almost all the big cattle companies have passed with the range it looks as if "big business" in the beef producing industry is coming back. The great slump in America's meat supply is proving attractive to capital. Corn-belt farmers with the silo to help them are the men from whom the country must get its prime beef in the future, and a big cattle company, whose business it will be to supply them with material with which to work, has recently been formed in Kansas.

Shawnee county, Kansas, is to be the operating center of the recently organized International Cattle company which has 1,037 acres of land in Osage county, and offices in Topeka, Kansas City, Omaha and Wichita. This company expects to sell and distribute not less than 35,000 head of registered cattle annually from its sale pavilion and feed lots, near the State Fair grounds, at Topeka, upon which it will expend some \$40,000 for equipment and buildings. The concern is capitalized at ¼ million dollars and chartered under the Blue Sky law of Kansas. Its president is Richard Morley of Chicago. Associated with him are Claud Makin, Grandview, Mo.; C. W. McCune, Olivet, Kan.; vice president; William L. Quail, Topeka, treasurer and I. D. Graham, secretary.

No Jayhawker Notes This Week

The Jayhawker Farm Notes are missing from the Mail and Breeze this week. The reason for their absence is given in the following brief note from Mr. Hatch:

I can send no matter this week. Father died last night, the best father a fellow ever had. I can say truthfully he never spoke a harsh word to me in his life. Next week you can depend on me again.

H. C. HATCH.

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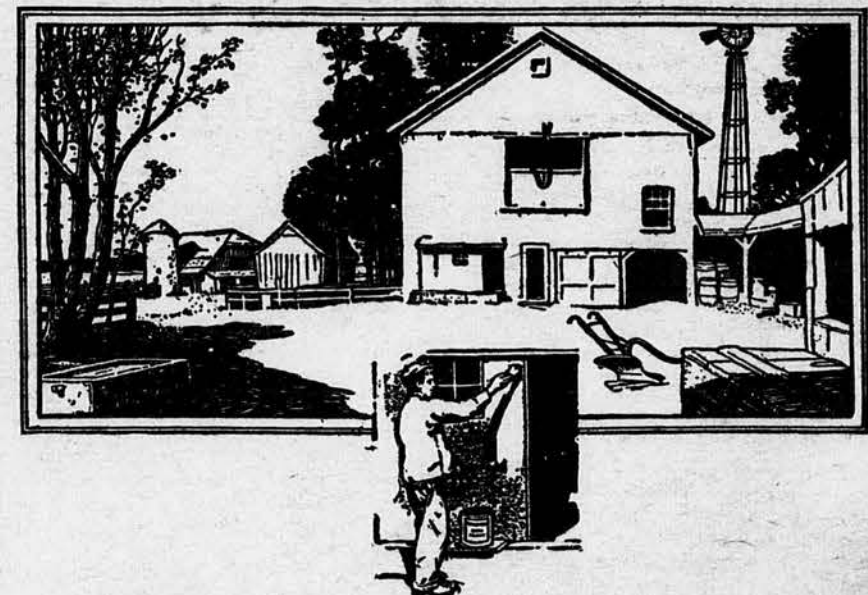
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Co-operation Saved Italy After Her Farmers Had Lost Their Land

BY ALFRED DOCKING, Riley County, Kansas
Written for Farmers Mail and Breeze

Editor's Note.—While Mr. Docking was in Europe last summer he learned how co-operation in credit by the Italian farmers and the industrial workers saved them and their country from disaster when it looked as if the Italian nation would have to go into bankruptcy or the hands of a receiver. He describes what he calls Italy's inter-linking system and what it has accomplished, then asks the question, "Is there anything in it for us?"

NOT long after Italy had attained her national unity, she found herself under a burden of public debt which was steadily increasing because of the heavy expenses of her new career, and which crippled her advance.



Alfred Docking.

The weight of this fell upon the owners of land or those who worked it, and of these the greater number had only small holdings, 25 per cent less than a quarter of an acre each. Coupled with this was a system of usury that advanced money to these farmers at ruinous rates, and speedily brought about a "lease" system by which many of the peasant farmers lost their holdings in land and personal property. The New World was entering the European markets with products from the virgin soil of the West, and Italy was handicapped for such an economic struggle.

Saved by Co-operative Credit.

Thinking patriots saw that improved methods of agriculture must come, and improved machinery must be adopted. But this called for money, and how could these poverty stricken peasants obtain it? There had been savings banks since 1822 and one of their cardinal principles had been that the accumulated funds should be used for the benefit of the members, and to push forward industrial and agricultural progress. A national congress of these banks in 1886 and new legislation in 1888 emphasized this, and made it more feasible. There was also in existence a number of people's banks partly found-

FRIENDS HELP

St. Paul Park Incident.

"After drinking coffee for breakfast I always felt languid and dull, having no ambition to get to my morning duties. Then in about an hour or so a weak, nervous derangement of the heart and stomach would come over me with such force I would frequently have to lie down."

Tea is just as harmful, because it contains caffeine, the same drug found in coffee.

"At other times I had severe headaches; stomach finally became affected and digestion so impaired that I had serious chronic dyspepsia and constipation. A lady, for many years State President of the W. C. T. U., told me she had been greatly benefited by quitting coffee and using Postum; she was troubled for years with asthma. She said it was no cross to quit coffee when she found she could have as delicious an article as Postum.

"Another lady who had been troubled with chronic dyspepsia for years, found immediate relief on ceasing coffee and using Postum. Still another friend told me that Postum was a Godsend, her heart trouble having been relieved after leaving off coffee and taking on Postum.

"So many such cases came to my notice that I concluded coffee was the cause of my trouble and I quit and took up Postum. I am more than pleased to say that my days of trouble have disappeared. I am well and happy."

Look in pkgs. for the famous little book, "The Road to Wellville."

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

ed on the Schulze-Delitsch model of Germany, but not having the unlimited liability principle of the German in their Raiffesen banks. In 1876 these had formed an association, and in 1877 held a congress. In 1883 the first of the village banks was started, and really marked the initial step in Italy's unique and successful system.

There are two classes of these village banks now, the Agrarian, which are practically branches of either people's or savings banks, and the rural banks which are self-governing and handle their own deposits. However, either of these two can draw upon the people's or the savings banks for the money they require to make loans.

All Savings Aid Agriculture.

The village banks have adopted the plan of joint and several responsibility for any default on the part of a member. This is Germany's plan in one of its systems. Loans are not made outside the village community of the local bank, and each resident being known it has been possible to lend money to men who could not get accommodation elsewhere. Moral worth, or the "character asset" has been sufficient, and the losses have been so slight that the recognition of this factor has been justified.

Loans in the village bank run mostly from \$15 to \$40, and are for livestock, implements, building, or repairs. By the joint and several security of all its members for each loan, the village bank is able to amply secure the people's or savings banks for the advances it gets. They in turn are able to give their working people depositors a better rate of interest and at the same time the farmer's rate is lower than under any other possible system. The savings of laboring men, domestic help, school children, even the inmates of charitable institutions, are thus made of direct service in aiding agriculture, giving the possibility of credit to the humblest toiler. And, in return, beyond this, the increased prosperity of the farms re-acts upon village work, more implements, etc., are needed and bought.

Syndicates Do the Buying.

But, Italy having found the capital for its poorer agriculturists, must enable them to purchase to advantage, both as to quality and price. Taking her model of financial co-operation principally from the German, she now organizes agricultural syndicates after the French pattern, the first in 1887. Now, a network of these covers all Northern Italy for the purpose of buying feeding-stuffs, fertilizers, machinery, etc.

There still remained one factor not supplied, agricultural education, how to carry on their farming and what to buy to make it a success. In France the state has done more or less of this, but the Savings Bank of Parma, which had already set in operation savings banks in its province, in 1893 appointed a traveling professor of agriculture to give the needed instruction to the farmers and to see that the money advanced them was expended properly.

The professor called conferences, where he discussed advanced methods of farming, and the help of organization, consulted personally with individual farmers, carried on experimental fields, held meetings of farm laborers in the evenings, edited a monthly journal, encouraged improving of livestock, and co-operation in dairying. As director of the local syndicate he advised the borrower about his purchases, and the bank about its loans. Thus, by this many-sided relation to the community, the professor at once became the connecting link in the union of financial, agricultural, and economic co-operation. Even before his advent there had been a wonderful unification of these necessary factors, but it is not too much to say that he doubled their efficiency by his skilled supervision.

Priests Helped the Cause.

In any account of Italy's agricultural progress, it would be very one-sided to leave out the part taken by the Roman Catholic clergy. They, in their various

(Continued on Page 35.)



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That's why he bought a K-r-i-t. That's why there are four thousand K-r-i-t farmers whose names and addresses we can give you.

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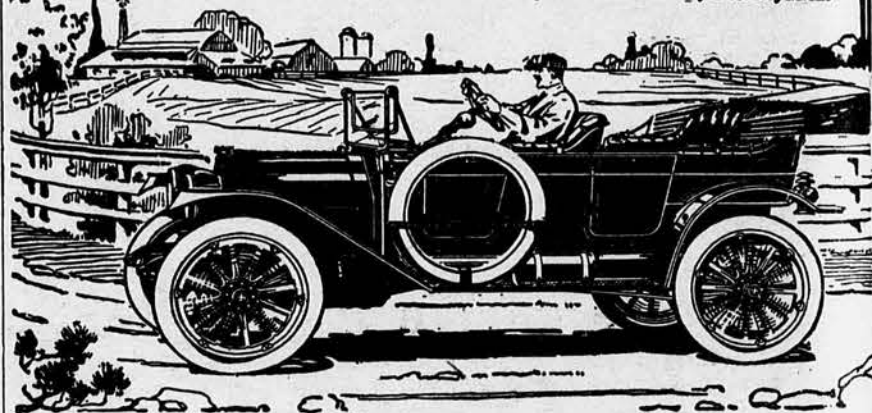
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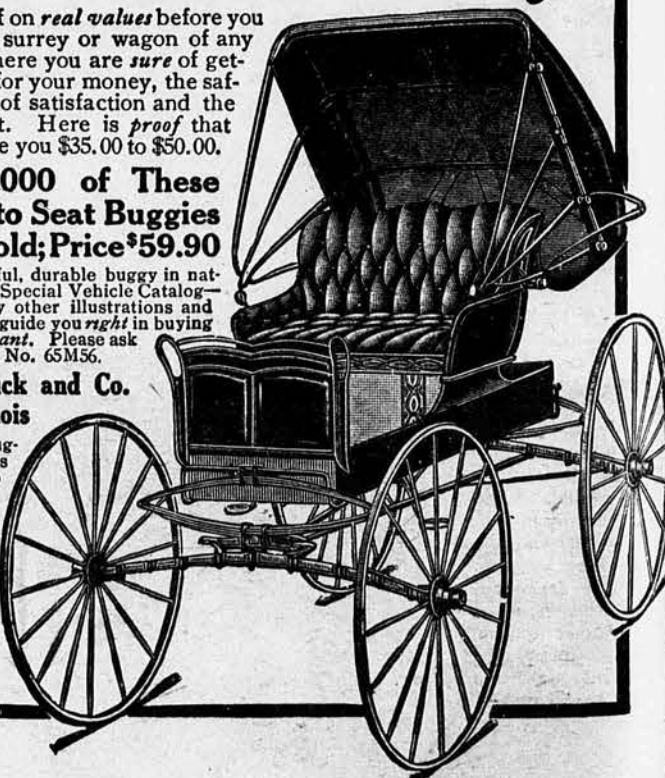
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Direct Marketing Must Come The Chicago Conference To Work For It

BY J. T. DUNLAP

Representing the Copper Publications at the Conference

A FEDERAL and state investigation into the demand and supply of farm products and daily reports on these two phases of the market by the federal government, was one of the suggestions made at the First National Conference on Marketing and Farm Credit held April 8-10 at Chicago.



J. T. Dunlap.

This demand that the government remove all such crop reporting from speculative influences came from the committee on distribution and marketing. The committee held that by this means the producer might send his products where they were wanted and could curtail over-production, avoid under-production and eliminate the cost of unnecessary handling of produce.

An organization in every state in the Union is being perfected for the purpose of working out a system of marketing, crop raising and farmers' credits.

Other recommendations were that the U. S. department of agriculture and the agricultural colleges of the country study and give instruction in distribution, marketing, packing and grading, so farmers could prepare produce for the retail trade without the assistance of intermediaries. The action of the United States department of agriculture in establishing a bureau on marketing was endorsed.

The conference went on record as favoring any co-operative plan, or legislation that would result in a more direct method of marketing, which would tend to increase the profit of the farm and at the same time decrease the cost of

living. It was admitted these were big problems and could not be worked out without careful study. The resolutions called for an investigation of these subjects by the national government and such laws as would tend to better existing conditions.

The committee of prominent men interested in agriculture which was appointed to take up the proposition with the government at Washington comprises: T. D. Harman, chairman, Pittsburg, Pa.; Arthur Copper, Topeka, Kan.; Dr. A. Caswell Ellis, Austin, Tex.; John Sebastian, Chicago; E. W. Kirkpatrick, McKinney, Tex.; Dr. J. H. Connell, Stillwater, Okla.; Vance McCormick, Harrisburg, Pa.; M. P. Myers, Chicago; Clarence A. Shamel, Chicago; Clarence Poe, Raleigh, N. C.; S. R. McKelvie, Lincoln, Neb.; and Edward Burns, Chicago.

W. J. Spillman, special representative of David F. Houston, secretary of agriculture, started a vigorous discussion when he said farmers would get no benefit by cutting out the middlemen, because when their profits were greater it would lead to over-production and consequent low prices. He declared the department of agriculture was in favor of a careful study of marketing and methods of distribution and that he believed the middleman would eventually have to go. In time plans would be perfected which would make it easier for the producer and consumer to deal directly with each other.

At a rough estimate I would say that nearly 1,000 delegates were present at this meeting. They represented practically every line of business. Bankers, railroad men, farmers, men prominent in the agricultural colleges and publishers of farm papers were there. It was the most important meeting of its kind ever held in this country. Just what results it will accomplish are to be seen.

Too Many Handle Products

The Cause of the High Cost of Living and Low Profit of Farming, Says President Waters

PRESIDENT WATERS, of Kansas Agricultural college, delivered a notable address before the First National Conference on Marketing and Farm Credit, held at Chicago, last week.

President Waters said that the distribution and sale of typewriters, calico, shoes, ice, dressed beef, evaporated fruits, and other things, have been reduced to a definite system and all unnecessary expense eliminated. But the distribution and marketing of farm products still are left to chance. The facilities for distributing and marketing farm products never were so ample and adequate as at present, yet it is costing more to get these products to the consumer than at any time in the past. The cost of living also is higher than ever, although the land never was so intelligently tilled.



H. J. Waters.

Too Many Handlers.

"In my judgment," said President Waters, "it is a clear case of too large a proportion of those who have quit producing finding a way to get a living by helping the food products on their way to the consumer."

Four men, with improved machinery and the help of science, now produce as much food as formerly was produced by 14 men. Where are the 10? One of the chief difficulties with the present system, President Waters said, is the fact that the 10 men forced out of the field of production by modern methods and machinery have not found employment that is profitable to society, no matter how profitable it may be to themselves.

Organization, President Waters believed to be the panacea, the remedy that would make Things As They Ought to Be. But this organization must be efficient. We must continue to educate men so they may take their places properly.

Home Market Our Chief Problem.

"Until recently," he said, "we were concerned chiefly in the world's markets that took our surplus; that which we marketed at home was of comparatively little concern. Domestic consumption in this country has caught up with production. Our exports are less than 5 per cent of our total production. The distributing and marketing of that which is to be consumed at home has become our chief problem. Yet we have not, until today, gotten around to studying this question in any serious way. The cities have organized in the interest of advantageous rates, but no one has studied how to eliminate the largest waste we have, the unnecessary moving about of our products. The high freight rates of which we complain are trivial compared with the waste I mention: the many hands through which our products pass without anything being added to their value."

Farmers are Slow to Organize.

President Waters said the farmer has been more difficult to organize than any other man. It is a common notion that he will never be interested in such matters until forced to it by poverty. But the speaker would not admit, however, that an exception in history might not be made in America. It used to be said that farmers never could be interested in soil conservation, but this has been proved untrue, and it has been done before the soil has attained any marked degree of depletion. Some system of education

(Continued on Page 35.)

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How They Are Farming in Norton County, Northwest Kansas

AN "ADVISER'S" REPORT.

The few farm demonstration agents in Kansas are learning as well as teaching, and therein lies the big opportunity to make themselves useful. Besides placing his scientific knowledge at the disposal of the farmers of the county, an adviser is supposed to constitute a sort of clearing house of helpful ideas and methods which he passes on from farm to farm. Clyde McKee, demonstration agent at Norton, in Norton county, northwestern Kansas, is working along these lines. He finds early spring disking is being practiced by many farmers. By disking, either single or double, as early as the ground can be worked in the spring, the soil is kept from packing, the moisture is conserved and the plowing and listing can be done better and it will be much easier on the horses.

Saving Time in Cultivating.

When plowing a field of corn, one man, near Alma, cultivates every other row across the field. In this way, he actually stirs up at least two-thirds of the surface. He can set the outside shovels of the cultivator so as to throw loose soil over the remainder and he covers the field in just one-half the time that it takes to cultivate every row. After a few days he plows those rows over which he has thrown loose soil. This method of cultivation he finds especially useful just after a rain because it is necessary to cultivate the ground quickly to conserve the moisture and prevent packing.

Many careful farmers get increased yields of corn or other cultivated crops by using the one-horse cultivators after the crop is too large to cultivate with the two or four horse power machines. The cultivation with the one horse tools is done usually just after a rain and only deep enough to stir the surface well and prevent the ground from baking.

"Contour Farming" a Success.

D. J. Rund'e of Alma, Kan., has been quite successful with "contour farming," that is, farming on a level around a slope rather than up hill and down hill. The usual practice is to list the ground, keeping the furrows as nearly level as

possible. In this way, the furrows catch and hold the water until it is absorbed, thus preventing a useless runoff.

A device for breaking the crust in listed furrows was made by splitting logs and attaching the halves (convex side down) to a 2 by 4 or 2 by 6 plank long enough to take three or four rows. These pieces of logs are fastened to the plank by using a short chain or piece of wire. Some heavy spikes are then driven in on the convex sides, leaving 2 or 3 inches of the spikes projecting to scratch the surface of the furrow and break up the crust. It is said that where there is not too much trash on the field, this device will do very good work.

Where the Lister is Used.

A few practices quite successful in different localities are: Early disking, followed by an occasional harrowing in preparing ground for listed crops; early spring listing and splitting the ridges at the time of planting; listing shallow early in the spring then listing deeper in the same furrows at the time of planting; fall listing and splitting the ridges in the spring; applying light dressings of straw or stable manure on winter wheat, preferably in the fall to prevent blowing and to lessen the evaporation. T. W. Davitt, of Jennings, Kan., did this.

What a Test of Sorghums Showed

BY J. M. GILMAN.

[Written for Farmers Mail and Breeze.]

In the Mail and Breeze of March 22 Mr. Hatch suggests it would be interesting and perhaps helpful for those who have had experience growing the various kinds of forage crops related to the Kafirs, durras, sorghos and kowliangs to tell something of their habits, methods of growth and relative values. As I have grown many of these under conditions as nearly similar as I could make them I venture to act upon the suggestion. In a general way in our county, with plenty of rain, the later varieties of saccharine sorghums are of the rankest growth and make the heaviest crop of forage, the two exceptions to this being Shallu and Red kowliang with their hybrids. The rankest growth we have ever had of any of these has been from Shallu hybrids but the quality of feed is not of the highest and the seed shatters badly.

May Make Good Silage Crops.

However I believe that in regions having plenty of moisture Shallu and Red kowliang will prove valuable crops for the silo.

With the exceptions as noted above I have found none of the other non-saccharine sorghums equal to the Blackhull and Red Kafirs, either for seed or forage during seasons of sufficient rainfall, but last year under conditions of excessive drouth five of the kowliangs and Dwarf milo continued to grow and developed seed to maturity while corn, sweet sorghums, Kafirs and durras stopped growing entirely until the fall rains.

Best Varieties for East Kansas.

Taken all in all the farmers of eastern Kansas cannot do better as yet than to plant the sweet sorghums and the old fashioned Blackhull and Red Kafirs of selected strains, although I would not be surprised if Red kowliang should prove to be another equally good if not better.

Rice corn, so called, is another name for Jerusalem corn or White durra. At least all I have secured under that name from several different sources is identical so far as I can determine with Jerusalem corn as sent out by the department of agriculture.

A Confusion of Names.

Again Feteria, Feterita, White milo and Sudan durra, secured from different sources seem to be absolutely identical.

Also White kowliang, White Amber cane and Freed cane seem to be identical.

Likewise Egyptian wheat, Indian wheat and South American wheat are simply different names wrongly applied to Shallu and Indian non-saccharine sorghum.

The durras, Kafirs and sorghos or sweet sorghums seem to be of African origin, while the kowliangs are from China or Manchuria but, as they readi-

ly cross, many hybrids are found, some of considerable value. I have no seed to sell of any of the above mentioned forage crops, nor do I know where it can be obtained.

R. 1, Leavenworth, Kan.

Treating Cane Seed For Smut

BY H. F. ROBERTS,

Botanist, Kansas Agricultural College.

[Written for Farmers Mail and Breeze.]

Smut in cane seed can be completely prevented by soaking the seed for two hours in a solution of formaldehyde made by adding 2 pints of formaldehyde to 49 gallons and 3 pints of water. In treating the smutted seed allow 3 pints of the solution to cover $4\frac{1}{2}$ pounds of the seed, or about $4\frac{1}{2}$ gallons to the bushel of seed. The same liquid may be used over and over again so long as the seed is kept covered.

The seed may be treated by enclosing it in a loose burlap bag, which is hung in a barrel in the solution. The top of the barrel should be covered to retain the fumes of escaping formaldehyde gas as much as possible.

Another method is to sprinkle the seed thoroughly with a solution by means of a common watering pot or hand spray, shoveling the seed over and over until it is thoroughly wet. The seed should then be heaped in a pile and covered with a tarpaulin, canvas, blankets, or the like to keep in the formaldehyde gas. Thus treated the seed should stand for 12 hours, and should then be spread out in a thin layer on a clean floor and shoveled over and over until thoroughly dry.

Do Not Plant Where Smut Has Been.

Treated seed should never be planted in ground which has grown smutted Kafir or sorghum the year before. The smut of Kafir and sorghum is due to a fungus, one of a lower order of plants, which attacks the head, and, in the case of the common sorghum grain smut, destroys the contents of the grains without changing their appearance materially, except to make the kernels grow a little larger, and to give them a rather dirty, blackish appearance on the outside. The interior of such smutted kernels will be found to be filled with a black mass of powder known as "spores." These are the reproductive bodies of the fungus, corresponding in a sort of way to the seeds of higher plants. These spores are blown about in the wind and fall on the soil, and many of them remain to germinate the following season. The fungus attacks the germinating grain by means of the spores.

Smutted Heads Should Be Burned.

To prevent sowing the field with spores, smutted heads should be cut and burned as soon as recognized in the field. The seed should be treated each year in the manner described and should be planted in clean ground. Special care should be taken to get pure formaldehyde. Pure formaldehyde full strength is sometimes difficult to obtain at local drug stores. If there is any doubt about the strength of the formaldehyde coming from a local drug store send to a wholesale drug house such as Faxon-Gallagher, Kansas City, Mo., and Henry Heil Chemical Company, St. Louis, Mo. Manhattan, Kan.

Cowpeas As a Hog Forage

Mr. Editor—Cowpeas are becoming recognized as a food of great feeding and fertilizing value. They do much toward restoring the fertility of the soil and many farmers are making use of them as a forage crop for hogs. The plant will also make a good growth on rather poor soil and will furnish feed in late summer and early fall when other green crops may be short. Hogs may be turned onto cowpeas from two to three weeks before corn is matured. They are especially valuable at this time for it comes at the beginning of the fattening period at which time the fattening hog needs a larger amount of protein in its ration than later. Much added food may also be obtained where cowpeas are sown in corn at the last cultivation.

Columbia, Mo.

W. H. Henderson, Edmond, Kan., sends \$1 and writes: "We cannot do without the Mail and Breeze, though times are close."

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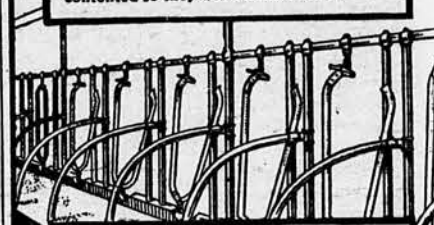
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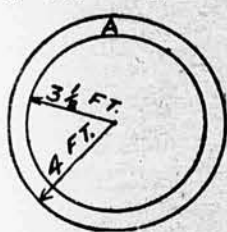
Nourishing, economical, delicious, "more-ish."

Two Good Pit Silos For \$25

BY CLYDE MCKEE,
Farm Demonstration Agent.

Editor's Note—The following report originally was sent to Prof. E. C. Johnson, superintendent of farmers' institutes for Kansas. Because it answered a query recently made by a reader of the Mail and Breeze, and contained much information of value to the man intending to dig a pit silo, the letter was forwarded to Farmers Mail and Breeze to give it a wider publicity. Mr. McKee is the farm demonstration agent stationed in northwestern Kansas by the Rock Island railway and Kansas Agricultural college.

One day last week I visited the farm of "Ed." Wray in Norton county. Mr.



Wray has two pit or underground silos in use and says that they are a success in every way. I thought perhaps you would like to know about them so will try to give you a description. These silos are round and the dimensions are 7 by 24 1/2 feet and 7 by 25 1/2 feet, respectively. He intended to dig them deeper but was afraid of water seeping in and spoiling the silage.

Curb Made Without Forms.

He began by leveling the surface where the silo was to be dug and then made a marker and marked off two circles as shown in the drawing. With a narrow spade he dug out the space marked "A" to a depth of 18 inches, taking care to have the surface of the trench very smooth, especially on the inside of the circle. He then filled the trench with concrete mixed "3 to 1". In this way, the collar, or curb, of the silo was made without the use of forms. After the concrete in the curb had set, the digging was begun, care being taken to keep the walls smooth and perpendicular. When the pit was deep enough, so a man could reach the top easily, plastering was put on.

Plastered While Being Dug.

This made the use of a platform unnecessary, as the plasterer could stand in the bottom of the pit each time and reach the last course that had been put on. Another reason for plastering while the pit was being dug was to prevent the walls from drying out and becoming crumbly. In a few cases, it was found necessary to dampen the walls slightly with a fine spray before applying the cement in order to keep the cement from drying too rapidly.

The cement for plastering the walls was mixed 2 to 1. After the plaster on the wall had set, it was brushed over with a cement wash to make it water and air tight.

The thickness of the plastering will depend upon the smoothness of the wall and the smoother the wall the less cement it will require. The wall should be thick enough to prevent the outward pressure of silage from cracking the cement over spots where the soil sometimes happens to be a little light or spongy.

The Silage Kept Well.

The surprising thing about these silos to me was the cost. Mr. Wray tells me that figuring in everything, the two silos had cost him about \$25. He had the sand and gravel on his place, so that made it a little cheaper.

I found the silage in excellent condition. Mr. Wray says that he has had very little spoiled silage and most of that could have been prevented, had he known more about handling it.

He uses a block and tackle for hoisting the silage from the pit. The box in which the silage is elevated has a false bottom so all he has to do when he gets it to the top is to "trip" the bottom and the load is deposited in the cart ready for hauling to the barn.

Norton, Kan.

One Big Silo or 7 Small Ones?

A READER'S SUGGESTION

Mr. Editor—"Count your stock, estimate the amount of feed needed and build your silo to fit the estimate." Such is the advice given generally to the would-be siloist.

As to economy in building, alone,

that may be good advice, but not so in filling or feeding. One large silo is good, but a number of small ones are better. Early crops for the silo mature the first of August. The latest crops in October. Sometimes there are 60 days or more from beginning to ending. The same delivery of feed to a 5-foot silo will fill it up four times as high as in a 20-footer. The weight in the smaller one would press the air out as fast as the generated heat performed its function and in a short time the contents of this silo would be compact, saved forage. When settled, completely filled and sealed at the top it could then be left in safety for 60 days or as many months.

Silos for Corn, Forage, Protein.

A number of other silos, six or less, could be filled as needed to receive the crop that has reached the proper stage for siloing. One should contain 60 bushels-to-the-acre-corn for fattening purposes and one be filled with thickly planted forage for the calves. Another should have a protein supply to balance the rations as needed. In fat years one or more silos should be carried over for an emergency. In lean years the empty silos with a temporary bottom put in will hold the corn chop, bran or other grain feeds and keep them safe from rats.

The same elevator that elevated the cut fodder will elevate corn or oats as well. Every year a small silo should be opened when dry weather makes "short picking" for the stock. In feeding out, if in midwinter, we sell part of our stock, as frequently happens, the large silo with a shallow feeding each day would soon contain spoiled or injured silage, while the silage in a smaller silo would not suffer because of less stock to feed.

Economies of the Plan.

As to cost, one set of iron forms for small silos for a group of four farmers, a power and cutter for the same number, would not make silage expensive but very valuable to the farm that has had nothing but dry feed in the past. In fact silage even under adverse conditions is the cheapest and best feed known. One large silo is good, a number of small ones are better.

FRANK B. SMITH.

Rush Center, Kan.

The man is Kansas who knows most about the practical side of the silo proposition is probably G. C. Wheeler, specialist in animal husbandry at Manhattan, and editor of the "Feeds and Feeding" column in the Mail and Breeze. In regard to Mr. Smith's suggestion Mr. Wheeler writes:

"The Agricultural college has always advised farmers to be wary of building silos of too great size, recommending that a man build two small or moderate sized silos instead of a large one. However, generally, it would not be advisable to build a silo smaller than 10 feet in diameter, the reason being that the silage in an extremely small silo would not settle anywhere near as solidly as in a larger silo. The capacity of a silo increases as the square of the diameter. Whereas the area of the walls increases in direct proportion to the increase in the diameter only. This difficulty can be overcome to some extent by making the small silos as high as possible, therefore tending to overcome the greater amount of friction on the walls."

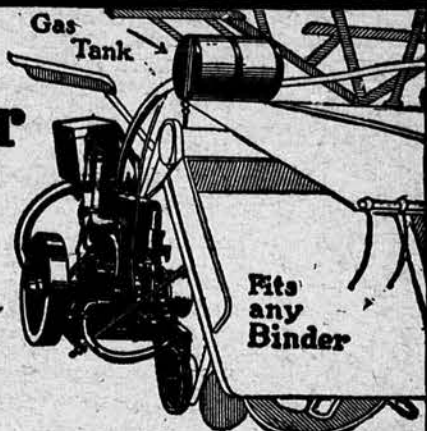
In other words it is necessary to build the small silos higher in order to get sufficient weight in the column of silage to overcome the resistance to the downward pressure, exerted by the surface of the walls. This is one important reason why the walls of a silo should be as smooth as possible.

A \$200 Corn Contest in Edwards

Mr. Editor—It may be of interest to Mail and Breeze readers to know that Edwards county will have a corn contest this year all her own. The prize money put up by public spirited citizens totals \$200. First prize for the best acre-yield of corn is \$125, second prize \$50, third prize \$25. Every man, boy, woman and girl in the county is eligible and entries for the contest are pouring in on every mail. Is there any other county in the state doing better? J. C. Gibson, Sec.

R. 1, Kinsley, Kan.

Operate Your Binder with a Cushman Engine



THE Farm Cushman Engine saves a team and makes grain cutting easy. All the horses do is draw the machine. The engine does all the work of operating.

Steady power is supplied. The sickle never stops when the bull wheel skids.

It is a great advantage in low, wet ground. More work and more satisfactory work can be done in all conditions of weather and grain.

Hundreds of these engines are now in use—on grain binders everywhere—on rice binders in the South and on corn binders.

Operating cost is low—30c to 50c a day. That's actual experience of users.

The Farm Cushman is the original binder engine. It is the first engine ever adapted to binders and the only one in successful use.

The engine is 4 cycle, 4 h.p., weight under 200 lbs. It speeds to 5 h.p. easily. Built on the automobile engine plan—high efficiency and great power in light weight.

It is fitted with high grade Schebler carburetor. Its automatic throttle governor measures out just enough fuel to do its work at any required speed and no more.

The Farm Cushman fits any binder. It can be detached and used separately to run any other farm machine.

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Yes, Sir.—I will sell you a genuine Galloway Guaranteed New All Steel Wheel Harrow Cart for \$5.50, and a Galloway Guaranteed All Steel Flexible Lever Harrow as low as \$11.00—both for \$16.25—less than your dealer would have to pay for inferior articles in car load lots! Last year we sold thousands of these carts and harrows. This year we are going to sell three where we sold one before. The price will do it. Here is your chance—act quick.

My Particular Hobby

This Galloway Harrow Cart is a pet of mine. I made my start with Harrow Carts—sold 4,400 the first year, 7,500 the second year and have been selling thousands every year since at prices that smashed all competition.

My All Steel Harrow Cart is different—original—with special patented features that put it in a class by itself. It will successfully follow any harrow without interfering with levers and sections, and at the same time will turn perfectly without changing position of driver in seat. It is closely connected to the harrow and has high spring seat that raises operator up out of the dust. Heavy steel angles; axles have oscillating arms made of solid steel bars; dust proof boxes.

Prices F. O. B. Waterloo or Kansas City
N1993—New High Wheel Harrow Cart, 30-in. wheels; dust proof boxes; weight, 90 lbs.; price, \$5.50
N1994—New High Wheel Harrow Cart, 32-in. wheels; dust proof boxes; weight, 95 lbs.; price, \$6.25

You can't afford to walk behind a harrow, when you consider the saving in time and shoe leather my Harrow Cart makes you. It means at least one hour a day besides the greatest saving in labor for the money ever offered a farmer.

World's Greatest Harrow
Since developing my Harrow Cart, I have perfected Galloway's New All Steel Flexible Harrow—the only harrow made that can be adjusted with levers. For years when I traveled on the road I sold a wooden flexible harrow to dealers and it was a good one, but it didn't have any levers. It was not adjustable. It was wooden, which naturally in time, exposed to the weather and elements, would soon give out and warp out.

of place. I sold these harrows at wholesale to dealers at \$1.00 per foot. I am now selling my new Galloway All Steel Flexible Harrow direct to the farmer for less money than they used to pay for the old style wooden harrows.

Some Special Features

On account of its flexibility, the teeth of this harrow go down into the lowest places, clear to the ground, go into all the low places and over the ridges without skidding a foot of space. Each section and each bar is entirely independent of the other; no side motion, no danger of one section riding on the other. With the teeth slanting back, this harrow is ready for corn stalk ground, smoothing or weeding grain ground, etc. When teeth are straight up it is ready for pulverizing fall plowing, and on account of the oscillating movement the teeth dig and tear up the ground similar to a cultivator.

Harrow Prices F. O. B. Waterloo and Kansas City
N5065—2 Section Harrow (50 teeth); Width, 11 cut ft.; Weight, 198 lbs.; price, \$11.00
N5066—3 Section Harrow (120 teeth); Width, 16 1/2 cut ft.; Weight, 306 lbs.; price, \$16.50
N5067—4 Section Harrow (160 teeth); Width, 22 cut ft.; Weight, 432 lbs.; price, \$22.00

Special Combination Prices

If you order one of these New Harrow Carts and New All Steel Flexible Lever Harrows together, we will make you the following special combination prices F. O. B. Waterloo factory or Kansas City.
N1993—30-in. Cart and 2-section Harrow... \$16.25
N1993—30-in. Cart and 3-section Harrow... \$21.50
N1970—30-in. Cart and 4-section Harrow... \$26.50
N1978—32-in. Cart and 2-section Harrow... 16.75
N1979—32-in. Cart and 3-section Harrow... 22.00
N1980—32-in. Cart and 4-section Harrow... 27.45

I would like to see one of these High Wheel Harrow Carts and All Steel Flexible Lever Harrows on every farm in this country. You can safely order direct from this announcement, or if you prefer I will send you

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CAPPER BOYS' CORN CLUB

Founded 1907



by Arthur Capper

"EVERY week when the Mail and Breeze comes I turn first to the Capper Boys' Corn Club page," writes Fay Holstein of Densmore, Kan. "I will work up a good seedbed, plant some wellbred seed, and will try to win in the single-ear contest." Fay is on the right track and doing the right thing by looking for the Club page each week for there will be some good suggestions in it every time it appears.

Corn planting time is almost here. Perhaps some of the boys in southern Kansas and Oklahoma have already done some planting. I hope you have prepared a deep, fine seedbed so the seed will find everything favorable for

ing over the field twice. The second time over he ran the planter wheels a few inches from the first tracks. The seed was drilled in, the kernels being spaced 16 inches apart in each planting. His corn made 153 bushels per acre. His acre had been in clover pasture for five years and was fall plowed. No fertilizer of any kind was used. Here in this part of the state, I would make my rows between 3 and 4 feet apart, and space the kernels 15 to 20 inches in the row. Where soil is rather poor, or where rainfall is lighter, the spacing should be greater both ways.

Corn Contest Rules

Any boy under 20 years old may enter the Capper Boys' Corn-growing Contest, for which cash prizes are offered in 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.

There is a separate contest for boys in Shawnee county, Kansas, in which \$25 is offered for champion ear in that county, \$15 second prize, \$10 third prize.

All contestants in the Capper Boys' contest are to furnish their seed and must do all the work of preparing the ground and planting and cultivating their crop themselves.

In the acre contest each contestant will keep track of the number of hours' work performed by himself and his team and be prepared to render a report of the methods he used, on a blank to be sent him at his request before the end of the contest, December 1, 1913. The acre may be a part of a field of corn or a single acre.

Capper Girls' Tomato Club

Vivian Ring of Louisburg asks if it will be all right to have her 10-year-old sister help her with her tomatoes. Well, that wouldn't be strictly according to the rules. The thing for Vivian's sister to do is to get in the contest with a plot of her own. Then, besides trying for the club prizes they could have a two-cornered contest right at home.

Several of the girls do not seem to understand how the contest will be decided and want more light on that subject. Each girl will weigh her own tomatoes as they are picked and keep a record of the weight. The girls who get the biggest crops by October 10 next, will then be asked to have two witnesses, a couple of neighbors, or friends vouch for their results. These witnesses will measure the ground and testify that the reports are correct, see that the figures are added up properly and that no mistake has been made.

In case you are going to buy your plants it might be well to engage them beforehand. If possible, speak for the first plants that are large enough to set out and so get an early start. Of course, there is no need of being in a hurry about putting out the plants as it is likely we still have two or three bad frosts to come.

TOMATO 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 October 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.

To join the Capper Girls' Tomato club and participate in the contest fill out and mail the entrance blank on this page as directed and you will be ready to begin your preparations.

Capper Boys' Swine Club

Orris Culver of Lyndon writes the litter from which he will pick his pig was farrowed March 9. "They are just doing fine," he says, "and I expect to bring my pig to the fair at Topeka this fall." Some of the boys seem to think it is too late now to join the club and that they should have sent in their membership before their pig was farrowed. Well, they are mistaken about that. But entries may close in a week or two. If you are not yet in, and there are some purebred pigs on the place farrowed since March 1, fill out the blank at once and you will be "in" in good season.

SWINE 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 on or 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.

Treat and Train Your Own Horses

Prof. Gleason's Big Book, Given Free To Mail and Breeze Readers, Shows How To Prevent and Cure Most All Livestock Diseases and How to Break, Tame and Train Wildest Horses.

This is an announcement that should interest every reader of the Mail and Breeze who owns a horse or livestock of any kind. Professor O. W. Gleason's great veterinary hand-book is admittedly the most authoritative work of the kind ever published. It contains more than 500 profusely illustrated pages dealing with the cause and cure of practically every disease known to horses, cattle, sheep, poultry, swine and dogs, with tried out, proved remedies for each disease.

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, Distemper, 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.

Part Two contains Prof. Gleason's Famous System of Horse Breaking, Taming and Training. Gleason's marvelous skill in training and treating horses is known throughout the entire world and he is considered the world's greatest authority in this field.

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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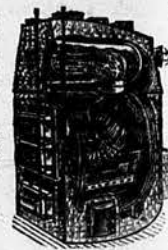
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This Blank Enters You in the Contest

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.....

State.....

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.

Mulching For Late Potatoes

READERS FAVOR IT.

Mr. Editor—Any farmer can grow enough potatoes for table use every year, barring hail storms. My experience bears out this statement.

In this part of the state it will be necessary to have a good piece of ground, plant the seed in every third furrow as the ground is replowed, and then use a straw mulch. I plant good seed, northern grown preferred, not more than two eyes to the hill. In this part of the state April 10 is early enough to do this planting. When the plants appear through the ground I mulch with dry wheat straw 10 inches deep.

W. G. Harnden.

R. 2, Liberal, Kan.

It Saves Several Workings.

[Prize Letter.]

Mr. Editor—I plant my main crop of potatoes on fall plowing. This ground is replowed about April 20, harrowed level and planted. I lay off the rows 18 inches apart with a small plow and drop the potatoes about a foot apart. I cover the seed with a harrow, going over the patch crosswise first, then lengthwise. Just before potatoes begin to show through the surface they are harrowed again, which is the last working they get. When the sprouts begin to show I cover the patch with 12 inches of wheat straw. When settled the mulch will be about 4 inches deep, which will keep down all weeds and grass and hold the moisture. No matter how dry it gets you will have some potatoes. Last year, on a small patch of less than 1/2 acre, I dug 30 bushels.

W. J. Hardy.

R. 1, Drummond, Okla.

No Failure in 20 Years.

[Prize Letter.]

Mr. Editor—I have been mulching potatoes for 20 years and during that time have never had a single crop fail. I plant 10 rows then mulch them, leaving the last row unplanted as a guide for the next strip. By doing this I need not drive over the planted ground to distribute the straw. One needs to put on a good, heavy coat, as a thin cover will let the weeds and volunteer wheat come through. I never plant potatoes for mulching until some time in April, but plant a few bushels in the garden several weeks earlier, which are cultivated. My standard varieties are Triumph and Early Ohio. Many a straw pile is burned in Oklahoma that would be worth many dollars to the owner if spread on the potato patch. One need not wait until the potatoes are up before mulching. The best time is when the ground is fresh and mellow.

Thomas, Okla. Henry Willert.

May Planting Came Out Best.

[Prize Letter.]

Mr. Editor—The best way to grow potatoes in the Shortgrass country is to mulch them with straw. Fall plowed ground, harrowed well, is best. At planting time, mark off the rows with cultivator and drop the seed about a foot apart. Later cover with 8 inches of straw. Two crops should be planted—one the last part of March and the second the first part of May. Those planted in May have brought me the best returns. If no straw is available, the next best way is to select some good wheat stubble land, plow with a 14-inch plow, and drop the seed in every third furrow

about 15 inches apart. The ground is kept harrowed until the potatoes are up. Then use the cultivator frequently.

Dighton, Kan.

W. E. Camp.

Crops For Hog PastureBY O. O. CHURCHILL,
Oklahoma Experiment Station.

What would be the best kind of grass or forage plant for a permanent hog pasture on upland where alfalfa will not grow? Would vetch do, and would it do as a soil renovator?—J. G., Pottawatomie County, Oklahoma.

Bermuda makes the best permanent grass pasture on upland in your portion of the state. There seems to be no other grass which will grow successfully in the greater portion of this state. Vetch would not make a permanent pasture and is not a very successful crop, even under the best of conditions. Vetch being a legume, it is very good as a soil renovator, especially if it is plowed under, but we would never recommend the growing of this crop where wheat is grown for market as it is apt to become a weed. If you are looking mainly toward the building up of your soil, I believe it would be well to grow some of the annual crops, making the legumes especially prominent.

On farms where the fields are fenced in small paddocks it is possible to have a number of pastures from annual crops. Early sown wheat would furnish winter and spring pasture. This could be followed in another field by a mixture, such as oats, rape and vetch. The wheat field could be plowed as soon as the pasture played out and seeded to some crop such as cowpeas, sorghum, millet, etc., for later pasture. When the oat pasture played out some other forage crop could be planted on the same field. By properly selecting the crops to be grown and pasturing one field a while and then another, reseeding when necessary, a large number of animals may be kept on a small area. It would be well at the same time to have a permanent grass paddock to run stock into when the cultivated fields are muddy, or if the animals crop the pasture too closely.

Peanuts do exceedingly well on sandy land and may be harvested by the hogs themselves when they are ready. If you grow them for this purpose it would be well to grow the Spanish variety. Two fields, one of peanuts and one of corn, have been found very profitable for feed in this way. The combination gives better results than either crop by itself.

Not So Chilly For Advisers

While the farm adviser idea has been pretty roundly scored in Kansas, the four or five counties in which the plan is being tried out are sending in very encouraging reports. In Montgomery county where E. J. Macy is in charge of the demonstration work, there are more applications for membership to the club than can be accommodated. In one township it became necessary to call a meeting and decide by vote which farmers were to receive the regular visits of the agent. According to the vice president of the club it was only by this procedure that hard feelings were avoided. In another county 125 farmers have paid their membership fee of \$5 and 50 others are on the waiting list, ready to join as soon as they can be cared for.

The Mail and Breeze is indispensable. Could hardly run the farm without it.—J. M. Franklin, R. 13, Rossville, Kan.

Farmers Using Office Aids

Do farmers make use of certain office conveniences to keep track of the business of the farm and do some of these men find it a convenience to have a room, or corner of a room, set apart for a farm office? Certainly they do. The Mail and Breeze has some 600 excellent letters from its readers—some of them type-written—which answer this double-barreled question affirmatively, or discuss the subject from a practical viewpoint. The prizes offered for the best four instances cannot be awarded until the letters have been carefully reviewed and an investigation made to see if the presumptive winners have fully complied with the conditions. This is going to take a little time and contributors are asked to be as patient as they can meanwhile.

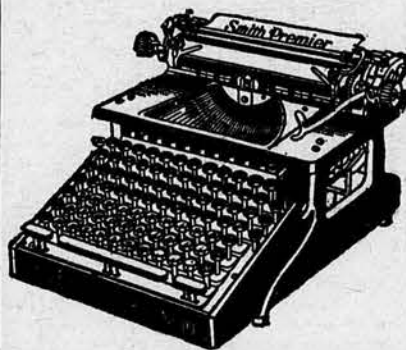
A

Writing Smith Premier Typewriter

Machine

With

3 Pen-Power



Just as the electric-light gives candle-power and the gas-engine gives horse-power, the typewriter offers you *pen-power*. You can write *three* letters on the Smith Premier Typewriter, after a little practice, in the same time it now takes you to write *one* with pen and ink.

The Smith Premier Typewriter is a labor-saving machine for the *business department* of your farm. It saves your valuable time. And what is even more important, it can give you an exact record of every written business transaction—a carbon-copy duplicate of every letter and contract. This one feature alone makes a typewriter worth ten times its cost.

Then think of clean, legible, business-like letters written on letter-heads bearing the name of the farm of which you are so proud. Think how they will *advertise* your farm. Other farms no better than yours, have appropriate names which are printed on their owner's letter-heads—not merely as a matter of pride but as *good advertising*.

You can write with this machine at once. Its famous "key for every character" makes the Smith Premier Typewriter the easiest to learn to operate without instruction—an important feature. Another point is the gear-driven carriage. This, and simple construction, make the Smith Premier least likely to get out of order. It is just the typewriter you need—*get it*. We will be glad to tell you "where" and "how much."

Smith Premier Department
REMINGTON TYPEWRITER CO.
(Incorporated)
327 Broadway, New York

Stannard's Processed Crude Oil Kills Lice and Cures Mange.

One application of my Processed Crude Oil will do more to rid your stock of lice and cure them of mange than three applications of any other preparation on the market, for the reason that it kills the nits as well as the lice, and remains on your stock for so long that it thoroughly cures them of mange. Put up only in 52 gallon barrels, and sold for \$5.00 per barrel. Why pay \$1.00 per gallon for a dip when you can get the best for less than 10c per gallon? My PURE CRUDE OIL is an excellent lubricant for all kinds of farm machinery and for painting farm tools to keep rust off. \$4.00 per barrel of fifty-two gallons. See my advertisement of refined oils at wholesale prices in next week's issue. Send cash with order. Address **C. A. Stannard, Box M, Emporia, Kan**

Write for this Free Book and grow rich Baling Hay!

Stacks of ready cash waiting any man of fair intelligence! For baled hay brings fancy prices. And every grower in your district will pay you handsomely to bale his.

Yes, here's the very business for you—for your boys! "Net profits per day \$18 to \$22" write Swartz & Mensch, Dixon, Ill. Scores now making \$200 to \$300 clear profit monthly! And these men are their own boss.

You, too, can earn independence. You, too, can start with small capital and soon pay us from your profits. But you must have the

Sandwich (money maker) Motor Press

Each year hay press buyers are more careful. They demand better machines with bigger tonnage. Yet each year Sandwich sales have gone ahead—by leaps and bounds. For under every working test, the Sandwich beats all ordinary presses 2 to 8 tons daily. 25 tons are an every day job for the Sandwich, and 30 to 40 if you hustle.

Gas Engine on Same Truck

This combination makes the Sandwich Solid Steel Motor Press the most complete hay baling outfit in existence. You can't wear it out and it doesn't break down. The heavy steel roller driving chain does away with slipping belts—with their dangers and delays.

Gas Engine is high grade, hopper cooled

type, gear driven magneto, 4, 6, 8 or 10 horsepower—and develops more than rated.

Simple Time-Tried Self Feeder

Rises high up out of the way of the operator and will stand hard crowding. The motion is slow, steady, sure and strong. And rain or shine the bales come out slick, clean and solid—from 1 to 2 a minute. It's great for windrow work.

Write for "Tons Tell"—now FREE

This surprising book—free to those who are wide-awake—tells you the enormous profits waiting the touch of your hand. What hundreds like you are doing—you can do. So write for it today.

Can Stop Instantly

2 1/2 to 3 1/2 tons per hour



If you're interested in Horse Power Hay Presses, or steel frame or wood, large or small, ask about our big line of these.



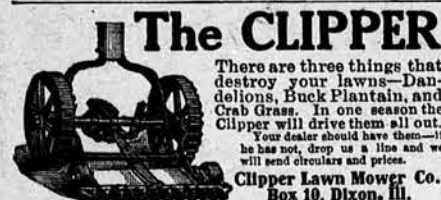
Solid steel Coupled up short

Sandwich Mfg. Co., 180 A St., Sandwich, Ill. Box 180, Council Bluffs, Ia. Box 180, Kansas City, Mo.



For you to use and keep a month as your own, would you then agree to show your bicycle to ten or more of your friends and tell them the ridiculous offers I would make, all of which I will explain to you if within ten days from seeing this you will say in a letter or on a postal "write people particularly" and on your letter or card mark it.

Personal for J. L. MEAD, President
MEAD CYCLE CO. 131 Mead Block, Chicago



The CLIPPER
There are three things that destroy your lawns—Dandelions, Buck Plantain, and Crab Grass. In one season the Clipper will drive them all out. Your dealer should have them—if he has not, drop us a line and we will send circulars and prices.

Clipper Lawn Mower Co.
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\$35 Only \$35 For an 8 foot galvanized steel windmill and a 20 foot 4 post galvanized steel tower. The best that money can produce and guaranteed for 5 years. ONLY \$35. and money back if your not satisfied. We make all sizes of mills and towers from 20 to 200 feet high. Write us to-day send us your order and save \$25 to \$30. Write to-day—Lest you forget.

THE CLIPPER WINDMILL & PUMP CO.
TOPEKA, KANSAS.

Cow Peas—Soy Beans

The Fertilizer That Pays
Send us P. O. money order for \$1.50 and we will send you by parcel post 10 lbs., enough to plant space 50 by 70.
Booklet and prices on quantities on request.

RONEY & COMPANY, Specialists
Southern Cow Peas and Soy Beans
Memphis, Tenn.



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\$4.50 and up per thousand. Hill's fine, hardy nursery-grown evergreens never disappoint. Protect crops—Increase value of land—make house and barn warmer—save fuel—save feed. Free Evergreen Book illustrated in colors tells how and lists 50 Bargain Offers. Write today.

D. Hill Nursery Co., Inc. Evergreen
228 Cedar St., Dundee, Ill. Specialists

Seed Corn Reid's Yellow Dent, Boone County White
Strictly pure bred, grown on our own farms from extra choice seed. Quality good as the best. We won 1st in Capper Corn contest for best single ear in state and 1st for best 20 ears at Missouri State Corn Show, 1912. Guaranteed to please you. Send for samples and prices.

F. M. RIEBEL & SON, ARBELA, MISSOURI

SEED CORN
ST. CHARLES RED COB WHITE CORN
THE BEST CORN FOR ENSILAGE
Grown only in St. Charles county, Mo.; buy it direct and get the genuine article. Write for prices.

LOUIS F. MARTEN, - St. Charles, Mo.

SEED CORN
Plant the best. I have Boone County White, Hill's Reid's and Reid's Yellow Dent. Carefully selected, thoroughly tested, and graded. Write for prices and samples. I sell only my own growing. Money back if not satisfactory upon receipt of shipment.

M. T. KELSEY, NORTHWOOD FARM,
106 Arter Ave., Topeka, Kan.

SEED CORN
Four leading varieties, grown and selected by myself. Reid's Yellow Dent, St. Charles White, Bloody Butcher, University No. 3 (an extra fine 90-day corn.) Seed is certified by our association. Write today for illustrated catalogue.

FRANK J. RIST, HUMBOLDT, NEBRASKA

High Yielding Seed Corn
Bred for BUSHEL. Largest yield in Northeast Kansas. Boone and Reid's. Write for folder and prices.

J. T. Bristow Seed Corn Farm, Wetmore, Kan.

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Are great soil builders and money makers. Renew the fertility of your land and harvest a crop the same season.

Dwarf Kafir, Dwarf Milo, Broom Corn and other profitable crops suitable for the great Southwest. Quotations and 1913 Seed Book free for the asking.

Ross Brothers Seed House
318 E. Douglas Ave., Wichita, Kans.

ORCHARD & GARDEN

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

Catawba is a good variety for early roasting ears.

The strawberry patch is better off for not being worked until after the crop is picked.

Puddle the roots of plants in mud when transplanting, and they will never stop growing.

Plant pepper seeds now and transplant later like tomatoes. They are fine for pickling purposes.

No matter how long the stem, cabbage plants should set into the ground up to the first leaf.

To get a good stand plant 8 or 10 cucumber or melon seeds in each hill, then thin the plants to two or three of the best.

In plowing near orchard trees one must remember the roots are near the surface. A light skimming is deep enough.

The best planned farm garden is the one that will allow most of the work to be done with horse tools. Few people like to hoe.

Watering bedded sweet potatoes too much is a common mistake. It does not take much moisture to rot them and then there will be no slips.

It is a good plan generally to harrow the potato patch once or twice before the sprouts appear, especially if there have been heavy rains since planting.

Easy to Beautify the Home Place.

Mr. Editor—Nothing is more attractive than a well kept yard, whether in city or country. It indicates more than anything else the taste and public spirit of the owner or tenant. Early spring is perhaps the best time to begin preparations. We are not all landscape gardeners nor able to employ such, yet with a little thought and judgment, one may greatly beautify the home surroundings. A grassy, well-kept yard, may be made even more attractive by the planting of roses or shrubbery. A wise selection will prove a joy to the owner.

Belleville, Kan. William Hay.

Frost Warnings to Fruit Growers.

During April and May the weather bureau will issue advance warnings of temperatures liable to prove destructive to fruit. More than 5 million farmers receive the government's weather forecasts daily over the rural telephone. Forecasts are telegraphed by the weather bureau to the central offices and thence distributed free to all patrons of the line; most companies being anxious to furnish this service as an inducement to new subscribers. If a farmer has a telephone and does not receive the daily weather forecasts, he should call up central and find out why.

Protect Your Garden from Pests.
[Prize Letter.]

Mr. Editor—When I plant seeds of the different vine plants I make the hills low and have the soil as fine as I can make it. I put in each hill a teaspoonful or more of strong tobacco dust, place the seeds on this dust and cover with about 1/2 inch of earth. Then I have no striped beetles to contend with, in fact I have hardly seen one in 10 years. These beetles lay their eggs at the root of the vine after the plant is up and the young larvae feed on the tender roots before emerging as beetles to feed on the leaves. If the beetle finds the tobacco at the root of the plant she will go elsewhere to deposit her eggs. At the same time the tobacco makes a fine fertilizer for the plants. If a little tobacco dust is scattered around a newly-set plant few insects will bother it. To prevent worms from preying on your garden take a straight tough stick

5 or 6 feet long, split the end and put in a piece of window screen about 10 by 12 inches in size. This makes a good weapon to swat the moths or "millers" and if you begin early and kill off the early ones there will be no eggs laid to hatch into worms. But if any worms are found they should be killed off to get rid of the second crop of moths.

A good way to get the worms off cabbage is to cut off the outside leaves on which worms or eggs are found just as the cabbages are beginning to head, then give them to the chickens. The cabbage will also head up better then as there will be no outside leaves to support.

J. F. Rambo.
Republic City, Neb.

Hold the Pear Orchard Back.

I once saw the statement in a paper that pear trees do better when the weeds and grass growing among them are cut and not plowed under.—H. B., Comanche county, Oklahoma.

The writer you mention probably referred to the susceptibility of the pears to blight. In this western country we are forced to keep pear trees growing very slowly, otherwise they are attacked by the bacteria which causes blight. Since weeds take part of the moisture and part of the plant food out of the soil they will keep pear trees from growing so rapidly. N. O. Booth, horticulturist of the Oklahoma station, says some growers overdo this matter, and before they realize it have their pear orchards so badly injured by the presence of too many weeds that the trees either die outright or are so slow in getting of sufficient size to bear, that they are unprofitable.

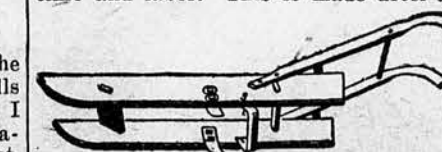
Chance of Capper Boy Seedsmen.

Mr. Editor—It is surprising what quantities of garden seed are shipped into western towns every spring. I believe Smith county buys as much as \$20,000 worth of garden seed alone, without mentioning seed potatoes, seed oats, etc. In looking through catalogs I find such common crops as beans, peas and sweet corn listed at 1/4 pound rates. That would make a bushel worth from \$5 to \$40. One acre of these crops should yield about 50 bushels. I am not kicking on the seedsmen. If it were not for them we wouldn't have any gardens. No seedsmen ever died in the poor house and no other agriculturist is of so much benefit to the community in which he lives. But I do condemn the farmers and their families down to the 10-year-olds for not saving enough vegetable and flower seed for their own use. Opportunity is knocking at the door of the Capper Boys' Corn Club members, and is begging them to be Capper Boy Seedsmen.

Athol, Kan. Edward Lind.

Cutting Sod For the Home Yard

The method of sodding lawns from other grass plots has come into general vogue in recent years, especially in the cities. Although a little more trouble and expense than seeding, it is a sure method of getting a stand of grass established. And there will be no bare spots where the seed failed to come up. Sodding also has the added advantage of providing a grassy lawn at once instead of having to wait until the sod establishes itself from seed. For small plots a sharp shovel is a good tool to take up the sod for transplanting. For larger areas a horse tool saves much time and labor. This is made after the



Let a Blacksmith Make the Knives.

plan of the accompanying drawing. The knives must be kept sharp to do good work. The turf should be cut to a uniform depth—about 2 1/2 inches—so as to leave the surface level after relaying. The turf is cut in long strips and these strips rolled up to facilitate moving. Before laying the sod the surface of the lawn should be smoothed and left loose to give the grass roots a chance to take hold. The strips are then unrolled side by side, fine earth put in crevices and joints, and the sod rolled or rammed down with a wooden maul. Frequent watering insures a good start.

The Jayhawk HAYING TOOLS.



Also a full line of implements on which we can save you money. Write for Big Free Bargain Book.



Increase Your Crop 8 to 15 Bushels to Acre

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

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Dept. 412, Moline, Ill.
KANSAS MOLINE PLOW CO.,
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\$400. Auto Free!!



This 5-Passenger Touring Car and 5 OTHER GRAND PRIZES

Given Away in Our Great SUBSCRIPTION CONTEST

This great Prize Contest starts immediately and will close July 4th, 1913. Our object in conducting this contest is to secure more subscriptions for our big home, story, fancy work and general family magazine, "The Household". It is easy work for any one anywhere to get subscriptions to "The Household" and in this contest it will be especially easy because we furnish you a stock of very beautiful free premiums to distribute among your subscribers.

For a one-year subscription at 25 cents you get 25 points to your credit in the contest—a three-year subscription at 50 cents gives you 75 points, and a six-year subscription at \$1 gives you 150 points.

The six contestants having to their credit the greatest number of points at the close of the contest on July 4, 1913, will be awarded the Six Grand Prizes as follows: First, a \$400 "Krit" 5-passenger Touring Car; Second, a \$350 Genuine Mahogany Player-Piano; Third, \$100 in Gold; Fourth, a \$50 Gold Watch; Fifth, a \$40 New Model Bicycle; Sixth, a \$30 Talking Machine Outfit.

Any man, woman, boy or girl may secure subscriptions in this contest anywhere in the United States, except in cities of more than 100,000 population.

1000 FREE POINTS and Big Cash Commission for All Who Enter Now

To all who mail at once the Entry Coupon printed below we will give 1,000 points free, thus giving you a fine start in the contest.

Furthermore we will pay you a cash commission of 40% on every subscription you secure—in other words, you keep 10c out of each 25c, 20c out of each 50c and 40c out of each \$1 you collect for subscriptions as your pay in addition to the chance you have of winning the Auto or one of the other Grand Prizes. You should be able to earn \$2 to \$5 a day on this liberal commission offer.

Send your name and address on the Entry Coupon at once for the 1,000 free points, sample copies of Household Magazine, pictures and description of the Six Grand Prizes, subscription blanks, full instructions how to work, etc. Make your start for the big prize today! Address

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Please send me free full information regarding great Household Prize Contest, Commission Offer, Samples, etc., and enter my name with 1,000 free points to my credit as per offer.

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Vines For Summer Shade

BY EBEN E. REXFORD.

[Written for Farmers Mail and Breeze.]

Perhaps the best annual vine for furnishing shade, all things considered, is the wild cucumber. It makes a wonderfully rapid growth. I have known it to climb to a height of 25 feet during the summer. It has pretty, bright green foliage, and about midsummer it bears a great profusion of tasselly white flowers that give the vine the appearance of being covered with frost. It is of the easiest possible culture, and I most heartily recommend it to those who like shade, do not care to wait a long time for it, and want a plant that requires the least possible amount of care to provide it. Bring the seed in contact with the soil and the vine will do the rest, if you give it something to climb by. Coarse wire netting is as good as anything. The seedlings are easily transplanted when small.

The Good Old Morning Glory.

The morning glory has the merit of rapid growth, ability to furnish dense shade, and easy culture. It will climb to the second story if given something to twine about. Wire netting does not suit it. The best support for it is a stout cord. It begins to bloom early in the summer, and from that time to the coming of frost it will be covered with dainty, trumpet shaped flowers of white, pink, blue, violet, and crimson. It is the best vine one can select for use about porches, and for training up about doors and windows, because of its cleanliness. It will do well in almost any soil.

The flowering bean is a very pretty vine for the porch, where a height of only 8 or 10 feet is desired. Its scarlet flowers are as showy as those of the geranium, but it is lacking in the density of foliage which characterizes the morning glory. It is fine for covering screens. If you have a summer house to cover depend on the wild cucumber or the morning glory rather than this.

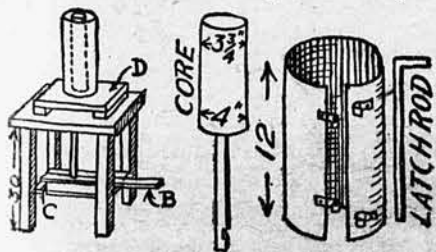
Two Good Perennials.

Among the perennial vines there is nothing superior to clematis flammula, a native plant, and clematis paniculata, a variety of recent introduction. Both are of rampant growth, and furnish a quantity of shade. Clematis flammula blooms in midsummer, but clematis paniculata does not come into flower before September as a general thing. This variety has the finest foliage and bears crops of flowers that are simply wonderful in profusion. They are of the purest white, and so freely produced that they entirely cover the upper part of the vine, making it look as if snow had drifted over it. Like its relative, flammula, it is entirely hardy anywhere at the North, and is of the easiest culture. In fall both of these varieties of clematis die to the ground, but they make an early start in the spring and often extend 20 or more feet in a season.

A Garden Tile-Making Outfit

[Prize Letter.]

Mr. Editor—The drawings show how I made an outfit for making cement tiling. By using the proper shaped core and shell, flower pots, vases, and other vessels may be made. The table is 16 inches square and has a 4-inch hole through the top through which the core passes. About 14 inches below the top there is a support, C, for the lever, B, which holds the core in place. The pal-



All You Need for the Work.

let board, D, is then placed down over the core. The pallet board is 8 inches square with a 4-inch hole in the center. It is necessary to have a number of these boards as the tile must remain on them at least 24 hours after being made. The shell may be made by any tinner, of a sheet of galvanized iron, 20 by 12 inches. Four hooks are riveted on the

edges as shown and to close it the latch rod is inserted through these hooks. The shell is placed over the core and concrete tamped into it. The concrete is made of 3 parts sand to 1 part cement, which makes a very porous and desirable tile. To remove the tile the lever B is slipped out of the notch in the core handle, then tap the core on top and it will slip out as it is smaller at the top than bottom. The shell is removed by taking out the latch rod. The tile is then carried away on the pallet and the operation repeated. There must be no play in the core handle passing through C or the core is likely to break the tile in taking it out.

The concrete should be mixed with just enough water to make it pack well. After several hours old the tile should be sprinkled with water every 6 or 8 hours, for several days. But they may be laid in the ground when but a few days old as the dampness of the soil is sufficient to complete the hardening. The metal parts of the mould will readily free themselves from the concrete if frequently oiled. The other parts of the mould should be coated with shellac. Jacob M. Friesen.

R. 2, Jansen, Neb.

Wanted—A Canning Factory

Mr. Editor—In this locality we are in need of a canning factory to furnish farmers with a market for their garden and fruit products. There are a number of good mining towns in close touch here—Baxter Springs, Columbus, Miami, Webb City, Galena, and Joplin, which would furnish an excellent market for canned goods. We would all be glad to help make such a factory a success. William Brugger.

R. 1, Baxter Springs, Kan.

Trees, Lightning Rods and Posts.

(1) Are lightning rods necessary on buildings surrounded by a high grove of trees? (2) Would the European beech and Spanish cork oak be profitable trees in Kansas? Has any effort been made to introduce drought-resistant trees from the deserts of Asia and Africa?

(3) I have noticed that posts do not decay in alkali soil. Would soaking them in salt water for 10 days make them insect and fire proof?—E. L., Smith county, Kansas.

(1). Personally, I think lightning rods are not a necessity when a building is surrounded by trees taller than the building itself, as the electricity is conducted to or from the ground by the highest point, which would be the tree tops in case they are higher than the lightning rods would be on the building.

(2). The European beech and the Spanish cork oak would be absolutely worthless in Kansas because they grow under entirely different climatic conditions. A large number of trees introduced from European countries to different parts of the United States, where rainfall, temperature and elevation conditions are about similar to those found in European countries, are proving very hardy and desirable. Among those in this state are the Russian mulberry, the Russian wild olive, the Chinese arbor vitae, and in the eastern part of the country the Lombardy poplar. In the northern states they have introduced many of the Russian apples with more or less success. I do not know of any species that have ever been introduced from Africa.

(3). You are entirely correct in your observation that posts set in an alkali soil or that are impregnated with salt do not decay readily. This is because the fungus which destroys the posts cannot endure the alkalinity of the soil. The objection to soaking posts in brine before setting them is that salt is soluble in water and is easily washed out, and the results of such treatment as far as prolonging the life of the posts does not warrant the expense of the treatment. Salt will not make the fence posts fire proof nor insect proof except for the short time the salt remains in the wood. Charles A. Scott.

State Forester, Manhattan, Kan.

In root growth alfalfa resembles Red clover, but sends down a stronger tap root. When properly handled it will produce three or four cuttings each year and remains productive for many years. Land which is adapted to Red clover usually grows alfalfa when any lack of inoculation and of lime is supplied.

"Alfalfa is the richest hay food known."—J. W. Spillman.

The Adriance Binder

For Over Fifty Years a Favorite
the World Over

The above reproduction from a photograph shows an **Adriance Binder** in use in Siberia where thousands of **Adriance Binders** and **Mowers** are giving excellent service under most trying conditions.

In all parts of the world this time tested Binder is growing in favor, more and more each year.

It is growing because it is a better binder than any other. Gives better service—is more simple in construction—lighter draft—costs less for repairs. Its design is such that it works easier—without the strain and wear of other binders, consequently less time lost and less breakage.

Its materials are the very best and every wearing part has been carefully and scientifically designed to produce the greatest durability with lightness of draft.

**FOR LONG OR SHORT GRAIN
FOR HEAVY OR LIGHT CROPS**

The **Adriance Binder** will handle long or short grain, heavy or light crops equally well. It can be instantly changed, without the driver leaving his seat, to bind grain anywhere from 20 inches down to 7 from the butts, making a square butted, well-tied bundle in every case.

ADRIANCE BINDERS GIVE BEST SERVICE FOR LONGEST TIME AT LEAST EXPENSE.

Write for FREE ILLUSTRATED BOOKLET.

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FOR nearly 14 years
Firestone Tires have
proved themselves the most
economical for any car on any
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**SMOOTH TREAD
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Made in all types to fit any standard rim. Write for Free Book "What's What in Tires"—by H. S. Firestone. Ask for Rim Catalog, too.

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Address **McBETH & DALLAS, GARDEN CITY, KANSAS.**

For Spring Sowing. From locality where it grows best and most abundantly. Our seed won the Gold Medal at the St. Louis World's Fair, in competition with the world. All our seed is native grown, plump and vigorous. Write us today for

BILL BROOK FARM SEED CORN

Boone County White and Reid's Yellow Dent. Well matured and well selected. Shelled and graded \$2.25 per bu. In ear, crated, \$2.75.
H. O. TUDOR, HOLTON, KANSAS.



Dairy Farming

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

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

Clipping flanks and udder is a step toward cleaner milk.

An acre of good corn put into a silo, will more than feed one cow through a winter.

The cream separator requires the most particular care of any piece of farm machinery.

A patch of ground near the feedlot, planted to sweet corn, will make a good soiling crop when pastures get short.

This is a good time of year to invite three or four neighbors to join you in buying a purebred dairy sire of known quality.

Our calves are doing finely on silage. If a young calf gets the scours feed him silage and you cure him.—S. W., Emporia, Kan.

For lumpy or stringy milk we give a teaspoonful of pulverized saltpeter in the feed once a day for four or five days.—Mrs. J. J. W., Kensington, Kan.

We found it takes little more feed and no more care to keep a cow that produces 250 pounds of butter fat, than one which produces only 125 pounds.—G. L. M., Marion, Kan.

A reader recommends a solution of alum in water to remove warts from the cow's udder. He puts the water in a bottle and adds as much alum as the water will dissolve, then applies it to the warts.

Jersey Breeders To Meet in New York.

R. M. Gow, secretary, writes the Mail and Breeze that the fifth annual banquet of the American Jersey Cattle club is to take place at Hotel Manhattan, New York City, the evening of May 6, 1913. The annual meeting will be held at the headquarters of the club 324 West Twenty-third street, New York City, the morning of May 7. Mr. Gow may be addressed at headquarters if further particulars are desired.

From One Good Cow in Three Years.

Mr. Editor—Three years ago, after a course in the Kansas Agricultural college, J. C. Blake, of Glasco, Kan., decided to go into the dairy business. At a public sale nearby he bought a registered Jersey cow with a heifer calf by her side for \$100. A year later this cow dropped another heifer calf, and the following year a bull calf. On a ration of corn silage, alfalfa hay and corn chop, she produced 8,000 pounds of milk and 492 pounds of butterfat during the year. The two heifers are now in milk, each having produced a heifer calf and the older one a bull also, making four female and two male descendants from

this cow in three years. Mr. Blake has been offered \$175 for one of these heifers, and the old cow, her daughters and granddaughters would probably sell for \$750.

This is an illustration of the profit to be made from good dairy bred cows. The value of the milk from this cow was sufficient to pay for her feed and care, and also for feeding the calves up until the time they came into milk. Consequently, there has been a net profit of the present value of the four female and two male descendants, or something like 200 per cent per year on the original investment of \$100.

A. S. Neale.

Kansas Agricultural college, Manhattan.

Make Sure of Your Herd Sire.

Mr. Editor—For the average dairyman the best course to pursue is to buy a bull calf on the strength of his ancestors, preferably the dam, and trust that he will transmit the desirable characteristics. In the selection of a sire give reliance to close ancestry, in preference to blood of the fourth, fifth and sixth generations. We so often hear a man say that his bull is a "Golden Lad" or a "De Kol," when an examination of the pedigree shows the famous individual is five or six generations distant, which means that it has about 1½ to 3 per cent of the noted individual's blood.

When buying a sire, see his dam if possible. She should be of good size for the breed, a regular breeder, possessing a strong constitution and vitality, with well developed barrel and mammary system, and she should have a good yearly official record.

The history of dairying in the older dairy sections is a history of purebred dairy sires. Why should our dairymen be so long in applying time tried methods that have proven the success of this industry in other states?

W. A. Barr.

Colorado Experiment station.

Feed Value of Ship Stuff.

What is the relative feeding value of gray and white ship stuff, also of the same by-products of soft wheat and hard wheat?—G. W., Riley county, Kansas.

It is rather difficult to give an accurate answer to this question for the reason that such terms are not well defined. The term "ship stuff" is used in some of the eastern states, which probably includes Missouri, as a mixture of the byproducts of wheat. In Kansas it usually refers to shorts, or especially to shorts which have little or no low grade flour added.

In the manufacture of shorts this product is frequently divided into two classes of material, known as "brown shorts" and "white shorts," the brown shorts consisting of the fine inner portions of bran and the wheat germ with a small percentage of carbohydrate material. The white shorts contain some particles of germ, some fine bran, and a large amount of white starchy material that is too fibrous to be used for flour.

Sometimes ½ or 2 per cent of low grade flour is added to this class of material and makes a grade of white shorts that is sold on the market as "fancy white shorts." If the brown shorts and the white shorts are mixed together, it produces what is known as "standard shorts," and is also sometimes spoken of as "gray shorts." The addition of larger amounts of low-grade flour to this material gives it a whiter appearance and enables a standard shorts so treated to be sold as "white shorts."

In a general way, the brown shorts are higher in protein and fat and higher in crude fiber than white shorts, although there may not be a great deal of difference in the protein content. The more low-grade flour there is added, the lower the crude fiber will be. For feeding pigs, the white shorts are often preferred because they are comparatively rich in protein, fat and carbohydrates and low in crude fiber.

Ordinarily, the byproduct from hard wheat is higher in protein and slightly higher in fat than from soft wheat. Soft wheat bran cannot be milled so closely as hard wheat bran, and therefore more of the carbohydrate material is left clinging to it. The hard wheat bran would probably show a little higher percentage of crude fiber.

L. A. Fitz.

Superintendent of Milling Industry, Kansas Agricultural college.



How do you handle your milk?

ARE you getting every cent, per quart, out of your daily milking? It's all a matter of method. When you know that you are disposing of your dairy products in the most profitable way—only then can you take the interest in your dairy that will make it a complete success. Make a comparison by actual figures of your present dairy earnings and what they would be with a

SHARPLES TUBULAR CREAM SEPARATOR

This is easy to do. There is a Sharples agent near you who can quickly bring the facts down to a basis of dollars and cents. Have a talk with him.

He will demonstrate the Sharples to you—the unequalled skimming power of its wonderful tubular bowl—the bowl that has only 3 simple parts, which naturally makes the washing and cleaning a very simple matter.

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And the Sharples name is your bond—as it has been for hundreds of thousands of farmers and dairymen for 32 years. Write for our Separator literature. And if you do not know our nearest agent, mention the fact in your request.



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If you milk twenty or more cows, the Sharples Mechanical Milker holds out wonderful new prospects for you. Write for catalogue.



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Farmer Onswon says:

Years of experience have taught me one indisputable fact: There is only one separator which combines high quality with moderate price—that is the BEATRICE.

Most every farmer is aware that the average high-grade separator of big capacity costs from \$100 to \$110. My BEATRICE, with 1000 pounds capacity, cost me \$75. Why pay more? There is no better machine.

Less than 2 minutes is all the time it takes to clean the machine with the patented device. It will leave the machine thoroughly clean and sanitary. Try it and see.

My BEATRICE beats any machine I ever had for easy running. Then, the close skimming. Why, I've let skimmed milk stand for a day and a half and you couldn't find a speck of cream on it. And—I haven't done so little repairing since I owned a separator. That's a point you want to consider.

The BEATRICE is a guarantee of separator satisfaction. That's what you want. Ask your dealer or write for booklet to the nearest address below. 600 lbs. capacity, \$55. 800 lbs. capacity, \$65. 1000 lbs. capacity, \$75.

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Dairying in Old York State

BY F. W. EDMUNDS.

[Written for Farmers Mail and Breeze.]

Editor's Note—Mr. Edmunds is the proprietor of the Independent creamery at Council Grove, Kan., which he bought three years ago. He soon found that if the local farmers were to make money at milking cows they must have better cows. To help them get such cows he has been making regular trips to eastern states to buy stock of dairy quality, which he distributes among the patrons of his creamery. Following a recent trip to New York state, Mr. Edmunds wrote this interesting account of his observations.

MY BUSINESS in New York was to buy choice, high grade Holstein dairy cows for shipment to Kansas. I visited many farms in five of the leading counties in the state where dairying is the principal business. In territory where the railroads are convenient cheese factories and creameries have given way to the milk-shipping station or the condensary. Towns are small and close together yet each has its milk stations where from one to four carloads of milk are shipped daily to New York City.



F. W. Edmunds.

Pure food laws now require milk for city use to be of a high standard, richer in butter fat, clean and with keeping qualities, without the use of any kind of preservatives. To produce such milk farmers must have milk houses with plenty of cool water or ice. They have to be very clean in stable work, and milk early every morning so the milk may be prepared at the station for shipment. The consumer pays 9 to 15 cents per quart and the producer gets 3 to 3½ and in a few cases 4 cents per quart for the milk. Note that the producer owns the farm, the dairy herd and does all the work. The farm is supposed to grow the corn for the silo, all or nearly all the hay required. The grain is all bought and is no small item.

Only the Best Cows Pay Out.

Only the best cows possible to get, with warm and comfortable stables, can show profit to their owners. Such cows must be strong, healthy animals and great eaters. The silo is indispensable and most of the farmers have two. Some have more. The silo generally used, and which gives the best satisfaction, costs about 65 per cent of what the Kansas silos cost. It is a homemade affair and not patented. We are going to erect one to show farmers interested the latest and best ideas in silos.

The labor question is even a greater problem than in Kansas. I find mostly aged or middle-aged men doing the work. In the stores older men and women are selling goods. The young men have gone to the shops and the city. The business men and farmers all agree that the population in the country districts is fully 50 per cent less than a few years ago. School records confirm this. I noted that back from the railroads, too far for hauling milk daily to the milk station, many farms are abandoned.

Dairying in New York state is now possible only with the best of cows, large and costly barns, and labor employed long hours each day. I could see no possible way for more milk to be produced and no way to lessen the cost or even hold the cost at present prices for milk. The cities are calling for men. This cry must be answered by more modern methods or by some method of preparing whole milk for city use by farmers in the West. Foreigners who know the fruit and vegetable business will come to the abandoned lands and produce this class of food for the city's use. Butter, cheese and condensed milk must be produced in the West.

I attended a farmers' institute one Saturday. The director had for one of the principal subjects, "Dairying in the West." Briefly he could only give his experience on a farm in northern Illinois. He saw only the very expensive machinery used and the awful wind storms. He came out flat-footed and talked against the West and advised the

young men to stay in New York. How I did want to answer him. But he had met me at the hotel and knew I was full of the West. After the meeting I called him down good and plenty and he admitted he knew little of the West and wanted the farmers of New York state to know even less.

Born in New York state, working on a farm until old enough to go away and learn my trade, with 25 years' experience in New York as a butter and cheese maker, with 16 years' experience in the same business in Nebraska and Kansas, I feel able to advise farmers who have the help at home, who have small farms, to get ready to answer the call from the people of the East to our Kansas farms, not only for bread and meat but for butter, cheese and milk. It is coming, it is at hand now.

Kansas Butter Better Every Year.

A few words about Kansas' dairy products. We market our own butter in Chicago. On my way East I visited the house that handles our butter. They said "Your Kansas butter grows better every year. It is noticeable that your butter lacks the winter or stable flavors so noticeable now in Minnesota and Wisconsin butter. We have customers who demand whole milk butter that are now using Kansas butter and prefer it to what they have been using." Kansas has better creameries than are found in the East. We also have the climate, the feed and the people to furnish the East with the best of dairy products.

Council Grove, Kan.

Dairying With a Silo

BY A. L. WYMAN.

[Written for Farmers Mail and Breeze.]

For the last six or seven years it did not take much of a figurer to figure out that with the price of grain and hay and the price of butter fat or milk, the old cow was not paying for the feed it took to keep her. So it is no wonder people dislike to milk cows. But I will give you figures on a feed for old Spot that will make her a paying investment and you can milk a small dividend from her twice a day.

I am giving below a test sheet of common grade cows—which does not look so big in yield perhaps, but when you follow it through you will readily see that Alfonso is not working for fun or losing any money. Now, if you who are feeding grain, bran and oil meal with your alfalfa and cornstalks in the field to your cows, will figure the cost of your product you will find your profits are on the wrong side of the ledger. Get you a Babcock tester, weigh and test your milk and weigh your feed and you will be surprised to find your pet cow is not paying for her feed.

Here is a seven-day record of milk and butterfat from nine Holstein cows, that were fed 40 pounds of silage and 10 pounds alfalfa each daily:

Name of cow.	Milk Lbs.	Butterfat Lbs.	Butter \$
Blackey	156	4.99	\$ 5.82
Browney	172	5.84	6.81
Ruth	161	6.11	7.02
Jumbo	229	8.24	9.61
Snowball	155	5.27	6.14
Ruby	208	6.24	7.28
Granny	120	4.80	5.60
Rachel	185	7.40	8.63
Betty	157	5.33	6.22

Total 1,553 54.22 \$63.13

Hall county, Nebraska.

A Cow With Lasting Qualities.

[Prize Letter.]

Mr. Editor—I have just read the letters on "Making the Farm Dairy Pay". I am still new at the dairy business, having been at it only two years, but I have learned a good deal during that time. If farmers would keep more cows of the right kind they would always have spending money in their pockets. We have been milking one cow since April 15 of last year. During January, February and March she made us 1½ pounds of butter a day, or 10½ pounds a week, besides what cream a family of two used. We have this cow in town and so know exactly what she is doing. We also have a nice little bunch of Jerseys on the farm to help pay our way in town. They are all purebred, registered Jerseys. The one we keep in town was fed 2 gallons of bran and 1 pint of cotton cake daily for grain, and for roughness had as much White cane as she wanted. Who can give a better record for a 4-year-old cow with the same care? Mrs. E. N. Redfield.

Wilmore, Kan.

\$65,000,000 would be saved annually by the exclusive use of DE LAVAL CREAM SEPARATORS

It is estimated that a million cow owners in the United States are still skimming their milk by some wasteful "gravity" method.

At an average of four cows to the farm and an average cream loss of \$10. per cow per year (it is more often from \$15. to \$25.) all of which could be saved with the use of a De Laval Cream Separator, this alone represents an annual cream loss of \$40,000,000.

Then there are, all told, perhaps a half million inferior and old and worn out machines in use whose owners could easily save \$5. per cow per year by exchanging their "cream wasting" machines for De Laval's, and figuring on an average of six cows per farm, this represents another loss of \$15,000,000 at least.

Then to this tremendous cream waste through the use of inferior separators must be added the excessive cost for repairs on cheap and inferior machines and the cost of replacing machines which should last from ten to twenty years but which are ready for the scrap heap in two or three years. There must also be taken into consideration the loss in lower prices received for cream and butter due to inferior quality of cream produced by poor separators, all of which must easily equal at least \$10,000,000 more.

This makes a grand total of \$65,000,000 which would be saved to the cow owners in this country by the exclusive use of De Laval Cream Separators.

At first sight these figures may seem startling but any experienced dairyman or creameryman will agree that the cream and other losses without a separator or with an inferior one will average a good deal higher than the above estimates and that these figures are really very conservative.

Any cow owner who is selling cream or making butter and who is not using any cream separator or an inferior machine, is really paying for a De Laval in his cream losses and at the same time depriving himself of the benefit of its use.

De Laval Separators are not only superior to all others in skimming efficiency but are at the same time cheapest in proportion to actual capacity, while they are so much better made that they last from two to ten times longer.

No cow owner can logically make the excuse that he

cannot afford to buy a De Laval, because it will save its cost over "gravity" separation in six months and over any other separator in a year and is sold for either cash or on such liberal terms that it will actually pay for itself while it is being used.

It will surely be to your advantage to join the million and a half satisfied users of De Laval's. A little investigation will prove to you that the truth of the matter is you really cannot afford to sell cream or make butter WITHOUT the use of a De Laval Cream Separator.

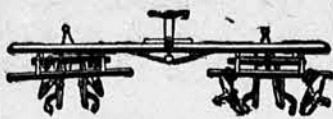
The nearest De Laval agent will be glad to demonstrate this to your own satisfaction or you may write to us direct.

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 catalogue also mailed upon request. Write to nearest office.



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Swanson's Two-Row Sled Disc Cultivator

The one cultivator that does the work right. With it you can get to the corn just as it is peeping through the ground and stay with it up to 12 inches.

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This Farmers' Cattle Knife

is a beauty. It has one large scimitar, one spaying and one congress blade; Extra quality steel, double German Silver bolster and shield, brass lined, stag handle. This beautiful useful knife will be sent you FREE, postpaid, for securing only four 3-months subscriptions to the Mail and Breeze at the regular rate of 25 cents or we will send you our paper one year for \$1.10 and the knife free as premium. We guarantee the knife and will return your money if you are not satisfied. We know you will like it as we have given away hundreds and have never had a complaint. This illustration is one-half actual size. Write today.

**MAIL AND BREEZE
Topeka, Kansas**



Feeds & Feeding

QUESTIONS ANSWERED
by Prof. G. C. Wheeler
(Address queries to Farmers Mail and Breeze)

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

What Mineral Matter for Hogs?

Where can I buy a ton of rock phosphate for my hogs?—A. W., Rush Springs, Okla.

I think you would find your hogs could make little use of rock phosphate. Slack coal, charcoal, ashes, etc., are often given to hogs as mineral correctives. Some of our experiment stations have fed ground bone meal to hogs as a source of phosphorus and mineral material. Hogs receiving rations containing considerable variety undoubtedly receive about all the mineral material they need.

G. C. Wheeler.

Packing Meat on the Farm.

I am planning to make sausage, potted ham, bacon, etc., out of the meat I do not salt down in winter, and thus make more money out of my hogs. Would I need to have these products inspected by the government before selling them? I have a home canning outfit which I intend to use for this purpose.—A. W., Rush Springs, Okla.

Your plan of working up your meat products at home and selling them in finished form ought to be a very satisfactory method of securing greater returns from the production of pork. Government inspection is required only on inter-state shipments. As long as you handle your product locally no inspection is necessary.

G. C. Wheeler.

What Cement Mixture for a Silo.

A contractor wants to put up a cement silo for me and has shown me a silo he put up last year. I can take my knife and cut the cement. He takes 5 parts sand to 1 part cement and uses no crushed rock. Is this mixture strong enough? Is it just as good without rock in it? He uses a 3-foot form.—D. H. R., Butler county, Kansas.

Concrete which can be cut with a knife is not of sufficient density or hardness for a silo. Where clean crushed rock is available concrete walls should be made of 1 part cement, 2 parts clean sand and four parts of clean crushed rock. This rock should be of a hard, flinty nature. Where crushed rock is not available or too expensive to ship a concrete consisting of 1 part cement to 3 parts clean sand should be used. In either case the inside wall should be brushed with a slush coat of pure cement as soon as the forms are raised. When properly reinforced the 1 to 5 concrete would be strong enough but would be too porous to properly preserve the silage. A pamphlet on cement silo construction has been mailed to you under separate cover. This gives the fullest of details concerning the construction of the concrete silos.

G. C. Wheeler.

Would a Small Silo Be Practical?

I own one-fourth block of ground in town, keep a couple of Jersey cows, a horse and a few chickens. Can a small silo, say of 25 tons capacity, be successfully operated? Jersey cows are my hobby and if a small silo can be successfully operated with a profit I desire to have one constructed. I expect to buy two more cows and build a concrete separator room.—G. W. M., Butler county, Kansas.

The small silo can be successfully operated, although the cost of building one will be greater in proportion to its capacity than the larger silo. It would be impossible, of course, for the owner of such a small silo to own the necessary filling outfit. If it can be hired in the neighborhood at a reasonable price a man would be justified in putting up a silo as small as 25 tons capacity, provided he had thoroughly good cows to feed on the silage. It would require about seven head to consume silage from a 10-foot silo rapidly enough to prevent spoiling between feeds. A silo of this diameter and 20 feet high has an estimated capacity of 26 tons. A silo as small as this should preferably be of the stave type, as a concrete silo so small would cost entirely too much in proportion to its capacity.

G. C. Wheeler.

Stone Silos Would Be No Cheaper.

We have building rock here at Glen Elder 9 inches thick and not very hard. It can be broken in any shape desired. We think the best building rock in the state. It

makes excellent fence posts. Would this rock, say broken 12 inches wide by 36 inches long, be good material for building silos? An answer to this question in Farmers Mail and Breeze would be appreciated by many Mitchell county men.—C. A. G., Mitchell county, Kansas.

In the early history of the silo in this country stone silos were quite commonly built. The reports coming to us from that period are that they were not very satisfactory. Of course at that time cement was not generally used, and in all probability the interiors of these silos were not coated with a cement plaster. A rock silo could probably be constructed from the excellent building stone found in Mitchell county, but it would undoubtedly have to be carefully plastered on the inside with a smooth, rich coat of cement plaster in order to be thoroughly satisfactory. Proper reinforcing would be another important consideration in the building of a silo of this kind. It is questionable whether such a silo could be built any more cheaply than a concrete silo. Considerable high-priced labor would be involved in such an amount of masonry work.

G. C. Wheeler.

College Help for Silo Builders.

Why is it the Agricultural college of Kansas will send out a man at the expense of the state to oversee the construction of cement silos but never offers their services in building any other kind? It seems to me that if a farmer wanted to build a pit, a 2 by 4, or a stave silo he should be entitled to the help of the state the same as if it were made of cement.—F. W. G., Douglas county, Kansas.

For the last three years the Agricultural College has been furnishing expert assistance in the construction of silos anywhere in Kansas. Since the first year all this supervision has been along the line of supervising the erection of cement silos. The first year our men assisted in putting up a number of ordinary stave silos. This service has been offered and furnished to farmers at no cost, except the railroad fare of the men sent and their board while on the job. The railroad fare in some places has amounted to as much as \$12 or \$15.

The principal reason the cement silo has been given all the attention during the last two years is because few men understand thoroughly the construction of the cement silo. The wood silo is manufactured ready to set up and a farmer has, ordinarily, no need of the services of an expert from the college to supervise the simple matter of erecting a stave silo. The same is true of the pit silo. A farmer who would consider it necessary to pay \$12 or \$15 in expenses in order to have a man from the college come to his place to show him how to dig a hole in the ground would be the laughing stock of his neighborhood. The plans and specifications of the 2 by 4, or the "Common Sense" silo are sold by lumber yards in all parts of the country and it would be unnecessary for a farmer to incur any outside expense in putting up a silo of this kind.

An illustration of the danger of attempting to build the concrete silo without thorough knowledge of its construction is furnished by the collection of pictures of cement silos having failed which are being distributed over the country as an evidence that cement silos are failures. It is to prevent such costly mistakes that the college is offering expert supervision and has published a carefully prepared pamphlet giving with careful detail the methods that must be followed.

G. C. Wheeler.

Shorthorn Breeders Protest

The Central Shorthorn Breeders' association, through its secretary E. M. Hall, Carthage, Mo., has presented a strong protest to Missouri's general assembly against the absurd and ridiculous measure proposing to prohibit the slaughter of female cattle for 3 years. The memorial not only shows that such a law, even if constitutional, would work a distinct hardship on the producer, and that it would actually result in diminishing the breeding operations of farmers instead of increasing the supply of beef, the alleged object of this remarkable proposition. The petition was the result of unanimous action taken by the organization.

I have taken the Mail and Breeze for a good many years and think it the best farm journal I ever read. T. A. McNeal's writing is simply fine.—J. A. Reed, Bellville, Kan.

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30 Days' Free Trial Buy the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Sinks 95 qu. per hour. Made also in four larger sizes up to 5 1-2 shown here. It saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half.

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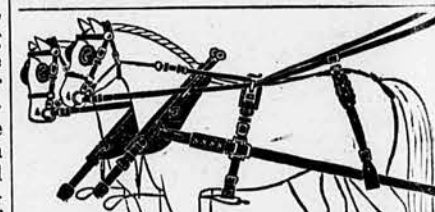
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Were awarded the Blue Ribbon at Kansas and Oklahoma State Fairs in 1912. They are used by the Borden Condensing Company, a thirty million dollar milk company; the New York Industrial Farms, and numerous large feeders, all with great profit and satisfaction. It has adjustable front. Can push ensilage out on level, do not have to fork it up over doors and cross bars, two to three feet high. Can tighten every hoop from ladder. Doors weigh 14 pounds. You cannot bind, or stick. Write for prices. Agents wanted.

Central Unadilla Silo Co., Des Moines, Ia.

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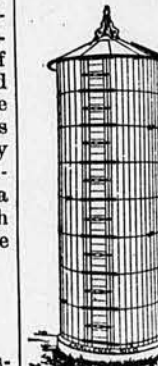
When a buyer asks you if you want to sell some cattle or hogs the question—What is your stock worth?—always comes up. Very often you sell your stock for less than worth and the buyer makes a large profit. You can get top prices and valuations by writing Ryan-Robinson Commission Co. No charge for information. 421-25 Live Stock Exchange, Kansas City, U. S. A.



I Can Save You \$10 a Set on Harness

Bridles 3/4 inch; lines 1 1/2 inches, 18 feet long; hames steel bound, ball tops, Concord bolt; traces 1 1/2 inches wide; bread straps 1 1/2 inches wide; Moline pads. Price less collar, \$26.65. Write for Free Harness and Vehicle Catalogue.

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CROPS and FARM WORK

Soil Moisture Plentiful Now and Crop Conditions Most Favorable
—Corn Planting Waiting on Dry Fields—General Movement
Toward Growing More Feed and Livestock, in Semi-
Arid Sections
(Crop Reporting Service of Farmers Mail and Breeze.)

Sections of country which had seen no real rain since last August were soaked last week. With the exception of a few spots the rain was general throughout Kansas and Oklahoma. In western Kansas a 3 to 5-inch snow followed the rain, adding more moisture which has been so badly needed for weeks and months. W. H. Booth of Tulsa county, Oklahoma, reports 3½ inches of rain and says the ground is holding more moisture than it has at any time in five years. H. L. Ferris of Osage county, Kansas, says the 3-inch rain there stopped water hauling for stock which some stockmen had been forced to do since last summer. "Never saw wheat fields look better," is the report from P. O. Hawkinson of Riley county, Kansas, and the same statement would apply to quite a number of other counties in Mail and Breeze territory. The soil is in tiptop condition, both for planted and unplanted crops although some of the earliest sowings of oats are having a struggle, where rains have been heavy and the seedbed beaten down. Corn planting will be pushed as soon as fields dry off enough to work, so as to make the best use of the moisture on hand.

Evidences of a general trend toward more livestock farming are to be noticed on every hand this spring, especially in the dryer sections where grain farming has barely paid expenses for several years. In Thomas county, Kansas, J. D. Graham says the talk is all for quitting wheat and going in for livestock and feed raising. Ed. Erickson of Republic county says farmers are going in for dairy cattle out there. In Norton county the importing of many Shorthorn and Holstein cattle indicate which way the wind is blowing there. All of which speaks for better farming conditions in the West, in the future.

KANSAS.

Wilson County—Cool for the time of year. Wheat looks good. Grass and pastures coming on fine. All stock in good shape and prices high. Four-fifths of the plowing done at this writing. Oats up well.—S. Canty, April 11.

Butler County—Good rain April 7. Oat sowing nearly finished. Corn planting started. Gardens being made. All kinds of cattle selling high. Fat cattle bring as much as \$8.70, fat hogs \$8.50, corn 50 cents, eggs 15.—M. A. Harper, April 9.

Doniphan County—Extremely wet spell in this county. Not many oats sown yet and what are out are in bad shape on account of ground packing so hard. Farmers have

been able to do little field work in last four weeks.—C. Culp, Jr., April 12.

Norton County—Plenty of rain and snow lately. Oat sowing delayed. Wheat looking fine. Big crop of potatoes planted. People taking extra care of hogs and cattle now. Good many purebred Shorthorn and Holstein cattle being shipped in.—Sam Teaford, April 12.

Republic County—Rains of past week have put ground in fine condition. Wet weather has delayed oat sowing. Wheat coming out fine and grass starting. Many farmers going in for dairy cattle. Corn 40 cents, Wheat 74, cream 30, eggs 14.—Ed Erickson, April 12.

Cheyenne County—Rain April 8 turned to sleet and snow until about 5 inches covered the ground. The high wind drifted snow somewhat. Storm was hard on stock, especially pigs and calves. Farmers who have their grain sown are feeling good.—Mrs. J. S. DeLong, April 11.

Crawford County—Have had a wet, cold week. Too wet for corn planting. Oats and wheat look well and show good stand. Pastures coming on slowly and feed getting scarce. Few hogs on feed. Spring crop light. Hogs \$8.50, eggs 14 cents, butter fat 32.—H. F. Painter, April 12.

Greeley County—Several inches of snow in the west part of county Tuesday. Soil in good condition for working but not much spring grain put in yet. Grass greening up slowly. Stock doing fairly well. Many families leaving the county and few coming in.—Jacob Skillman, April 12.

Jefferson County—Past week has been very damp and cloudy. Good deal of rain has fallen. Work in fields stopped. Several fields of oats still to be sown. Weather has been bad on young stock. Roughness still plentiful. Corn about 50 cents, hay \$8 to \$10.—Z. G. Jones, April 11.

Morton County—Farming has begun generally. About ½ inch of moisture the second week of April. Grass has made a good start. Where soil has been stirred lately the recent high winds have not caused it to drift. Most horses in good condition for spring work.—M. McGee, April 12.

Russell County—Weather cool and clear. Had a good rain April 8 ending in a snow storm. Ground is in good condition and spring work is in full swing. Some wheat dead in spots but enough left to make a fair crop. Wheat 76 cents, corn 55, potatoes 90, eggs 13.—Mrs. Fred Claussen, April 12.

Decatur County—Rain and snow of this week put ground in fine condition. Some wheat was damaged by winds before moisture came but most of it is in fine shape. Not much oat sowing done yet. Corn acreage will be increased over last year. Have heard of no damage to fruit.—G. A. Jern, April 12.

Wyandotte County—Ground is thoroughly saturated. Rain, with cool, cloudy weather for four days. Wheat and grass are the best ever. Fruit showing up fine. Ground too wet to plow. Potatoes all planted. Some cholera about. Light supply of cattle and hogs. Feed much cheaper than a year ago.—G. F. Espenlaub, April 12.

Sheridan County—Fine rain and snow April 8. Wheat seems to be backward but thistles are holding their own in wheat fields. Not much barley or oats sown yet. Stock cattle and shippers find ready sale at \$5. Good work horses selling around \$300 a team. Hogs \$7.70, cream 29 cents, eggs 13.—R. E. Patterson, April 9.

Riley County—About 2 inches of rain fell during the week. Not all oats sown yet. Fields too wet. Never saw wheat fields look better. Grass coming on nicely. Corn ground will be prepared as soon as fields dry off. Good prospects for fruit. Farmers building houses and buying motor cars. Hogs \$8.40.—P. A. Hawkinson, April 12.

Thomas County—Fine rain and snow this week was good for wheat. Spring very backward. Large per cent of oats and barley still to be sown. Farmers are talking of quitting wheat raising and growing feed and livestock instead. Can't tell how much wheat has been damaged by wind. Corn 50 cents, barley 40, oats 35, eggs 15.—J. D. Graham, April 12.

Rice County—Wheat shows a good stand and color but needs rain. Oats coming up and some to be sown yet. High winds have dried ground considerably. Corn planting will begin as soon as rains come. Cattle in good shape for pasture. Hay plentiful. Many horses have died the last two months. Hogs \$7.75, wheat 80 cents, corn 47½.—Henry S. Wilson, April 8.

Roos County—Oat sowing about finished. Corn planting will be on in full blast in a week or 10 days. Wheat looking well but there is some complaint of flies on early sowings. High winds have done considerable damage on thin and sandy fields. No horses being bought except for actual needs on account of danger of horse plague returning.—C. O. Thomas, April 11.

Harper County—Wheat doing nicely but needs rain. Harper county has not had its spring rains yet. Oats all up. Farmers planting corn. Spring has been very backward and too cold for farm work. The county in general looks prosperous and everybody is in good spirits. Cattle and hogs scarce and high. Horses and mules lower than a year ago.—H. E. Henderson, April 12.

Cheyenne County—Between 5 and 6 inches of snow fell April 9-10 which was splendid for fall wheat and spring seeded grain. Not more than 50 per cent of spring seeding done. Some summer fallowed wheat was damaged by high winds of last week. Plenty of moisture in ground which means

(Continued on Page 39.)

Buy your Tires as you would a Binder

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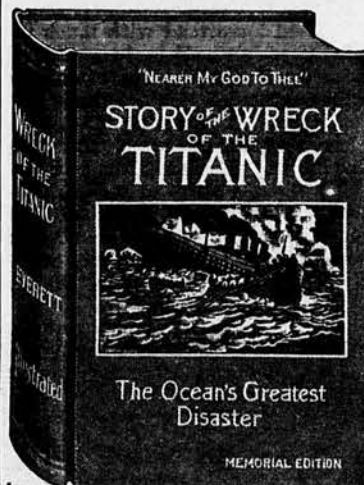
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What Farmers Are Thinking

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.

Disappointed in the Parcel Post.

Mr. Editor—I sent some seed corn by parcel post just to Stillwater but it never got there at all. And for other reasons I don't like the new way at all. It is not private, for anyone can meddle with and handle what you send, and I think it is unsanitary. Then if you lose your property in transmission you have no law to come back on anyone and your money is gone and your parcel too, as in my case.

Beulah, Okla. J. A. Kolley.

"Everybody's Mail and Breeze."

Mr. Editor—I tell you we think Farmers Mail and Breeze a great paper. It is everybody's Mail and Breeze with us. Comes right next to our church paper with each of us, husband and I and two boys and a girl. And the boys think Mr. Capper a great man. They have entered the corn contest and hope some day to see Mr. Capper. When this younger generation, you are helping so much, grows to the voting age, I think Mr. Capper can have any office he seeks from governor of Kansas to president of the United States. Mrs. W. R. Randle.

R. 3, Mound City, Kan.

If War Money Were Used for Peace.

Mr. Editor—If the government would take the money spent for useless military fixtures and displays and create a fund to lend money at low interest to the poor men struggling to hold down a claim in the West what a God-send it would be. There is no uplift to war, every vice and shameful practice is tolerated and indulged in. History tells us that in the siege of Jerusalem the unhappy Jews that were taken prisoners were killed and their stomachs and intestines ripped open. Their captors were looking for bits of gold that they thought that the Jews had swallowed just before their surrender. It is always the rich man's war and the poor man's fight and then to pay the expense of this legalized murder the poor man must pay an excessive tariff on the actual necessities of life.

Ematon, Kan. G. W. Bowers.

The Auto a Road Improver.

Mr. Editor—I have been reading a lot of the "rot" put out by farmers and farm papers in regard to taxing automobiles to keep up the roads, because the auto is so destructive to them. The man who asserts the auto is a road destroyer doesn't know what he is talking about. The broad soft tires of the auto smooth down the ruts and humps left by the iron shod wheels of farm wagons and buggies, and if there were enough autos to run over the roads, the drag, which the road overseers too reluctantly use, would not be half so necessary.

There is a deep-seated prejudice among the average farmers against the advance of our modern ways of civilization. The auto has received the same cordial (?) reception at their hands the bicycle did. The roads are for all kinds of con-

veyances, and the farmer who is lucky enough to be located on a road where some kind of a conveyance passes every minute of the day can sell his farm for \$300 per acre more easily than another farmer living where scarcely anyone passes his place in a day, can sell equally productive land for \$50.

Let's fix up our roads. Let as many as can afford it buy autos. Invite the city man to use our roads and welcome, and we will go to town and use his paved streets. The auto is here for keeps, and they are becoming more numerous and necessary each year. I have spoken plainly here, but as I am a farmer myself, having the management of some thousand acres of land, I feel I have not over-stepped the bounds of propriety.

B. M.

Independence, Kan.

"Mutt and Jeff" Won't Make Farmers.

Mr. Editor—Mr. Walter's remarks on keeping boys and girls on the farm in a recent Mail and Breeze I thought could not be beaten. Think over the list of young people you know who are dissatisfied with the farm, kind reader, and see if the parents are not to blame a great many times. I know a family, good citizens and neighbors, who never take farm papers, but always take the "Mutt and Jeff" newspapers and that is what their boys are interested in. While "a little nonsense now and then is relished by the wisest man" if such good wholesome reading as is contained in the Mail and Breeze was furnished for the boys and girls might this not be a step toward interesting them in farm life? Young readers when thinking of life in the city don't think of the poor day laborer but the rich man and his family.

E. J. K.

Republic county, Kansas.

Why the Tenant Finds Hard Picking.

Mr. Editor—If the landlords would give the tenants a little better chance the call of back to the farm would not be so pressing. The landlord figures he must have 5 or 6 per cent on his investment. Some even want as high as 12 or 15 per cent. The average tenant has an investment of about \$1,500. When the crops get light as they have been the last few years, after the tenant gets a living for his family where does his per cent come in? The tenant gets behind one year, and then another, and the next thing he is selling out or forced to sell because he is a little in debt. I have been reading a good deal about government loans of late. The government is expending about 300 or 400 million dollars on the Panama Canal. Would not about one-fourth of that amount do a good turn for the poorer classes on loans at small interest, say 2 or 3 per cent? Then nearly everybody could own at least a small farm and have a home in which to rear his family and keep from moving every year or two.

Louisburg, Kan. V. J. Pfannes.

Overloading Children With Study.

Mr. Editor—I have read with much interest Mr. Capper's article in the Mail and Breeze on the school system and I think nine-tenths of his readers will heartily agree with most of it.

There is another phase of the subject Mr. Capper did not touch upon, but which I think worthy of serious consideration. The over-crowding of the course of study causes the majority of pupils to take books home to study evenings when they are scarcely out of the primary grade. This cannot but be detrimental to their health and eyesight. What man would carry his work home with him and dig and delve for hours?

In Next Week's Mail and Breeze

There is a general call this spring for ways and means of putting the cutworm out of business in corn fields and gardens. In next week's Mail and Breeze, George A. Dean, "the bug man" of the Agricultural College, will have an illustrated article on the cutworm, giving all the practical methods by which cutworm "troubles" can be met and conquered. It will help many folks to put an end to this expensive nuisance. The farm correspondents of the Mail and Breeze will discuss how living expenses may be cut down on the farm without cutting down on the living. They will offer a number of suggestions based on experience and experiment.

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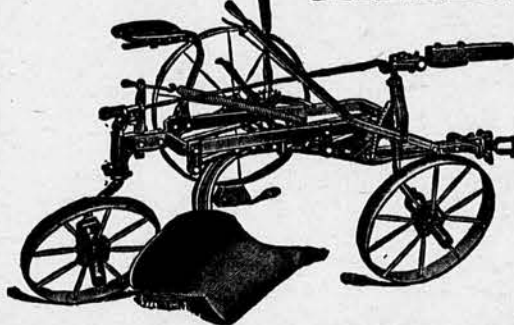
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Acme Steel Shares are made by our own process in our own factory. They are used only on Best Ever and other Flying Dutchman Plows of our make.

THE BEST EVER PLOW



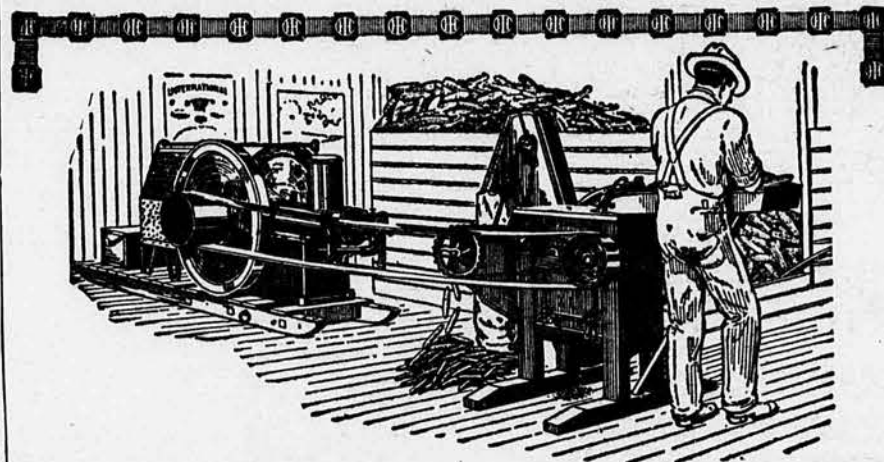
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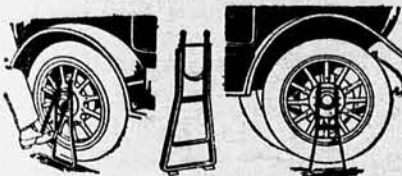


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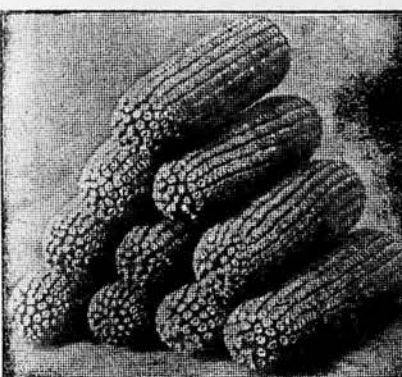
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We propagate our stock from known trees, selected because of their superior fruit and productive-ness. Our trees bear young and produce big regular crops of fancy fruit, because they are bred from parents with a record for both quantity and quality. Observe orchards of ordinary trees, half of them are barren, or producing poor quality. You can save three to four years, and have every tree a producer of fancy fruit, if you plant our pedigreed fruit trees.

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Are superior to all others. Let me show you.
KOUNS, Salina, Kansas

Surely children need the relaxation and recreation much more.

It seems to me this urging and prodding discourages the child and he begins to cast about to avoid it. This, I think, accounts in a great measure for the low and irregular attendance. Make things interesting and instructive and the average school boy will be right there with his hat in the ring.

Then after he has been rushed and pushed through the grades, and is ready for high school, he is confronted with a course of study, it seems to me, far in advance of children of that age. For they are but children yet. The outcome of the whole matter is that the great majority become discouraged and disgusted and leave the high school before they have well begun.

Some patrons blame the teachers and accuse them of over-loading the pupils with work. As a matter of fact the blame rests with the educational leaders of the state, for adopting such a course of study. While the educators are largely to blame for the conditions, so ably depicted by Mr. Capper, I am inclined to be lenient with my censure. Their life work has been along educational lines and it has had a tendency to develop one idea, and that idea is book education. They seem to make that the main object in life, instead of using it as a means to an end.

If Mr. Capper is the Moses who can lead us out of this educational wilderness, it is the duty of every one in sympathy with his ideas to give him their hearty unqualified support.

F. L. Hodgson.

Harveyville, Kan.

Wide Influence of Mail and Breeze.

Mr. Editor—I am responding to your appeal for some information pertaining to the farmer's office. The idea of a farmers office is in keeping with the progressive spirit of your moral and agricultural guide. I am a great admirer of the Mail and Breeze. While I cannot say the Mail and Breeze is the best farm journal published in the United States, I will say that the others will have to go some to be better than the Mail and Breeze. I have not yet read all the farm journals published in the United States.

I am keenly appreciative of the wonderful influence the advice found in the columns of your weekly excerpts in the agricultural affairs of Kansas, and I take pleasure in supplying you with a couple of names of neighbors whom, I think, are sadly in need of this cheaply gotten advice.

The editorial comment by Mr. McNeal is truly interesting. I find more real enjoyment out of reading his comment than I can possibly get from a like source. Thomas E. Dehoney.

Effingham, Kan.

Unfair to Rural School Teachers.

Mr. Editor—The law requiring common school graduates to take high school work before they are granted certificates to teach is an imposition on the common people of the rural districts and should be repealed. For instance, a large number of our teachers, on their first term, are conducting successful schools. They are as well qualified as any high school graduate and very often better qualified for they are in line for that kind of work. This law will bar these teachers from teaching this year. Yet if they were qualified to teach last year they certainly would be more competent to teach this year.

If the prospective teacher goes before the examining board and succeeds in passing in all studies required in common school teaching what difference should it make whether they were graduates from Yale (where they have decided on beer as their drink) or the city high school and learn the haughty ways of the dude and some of the more wealth that go only to have "a good time"? Isn't the good old rural district, the ideal place to turn out the best teachers?

If this law must stand why not extend it to make the boundary of each township the limit of a school district and consolidate the different schools into one central high school? Most every parent would be willing and anxious to pay an additional tax if it was necessary in order to keep their boys and girls closer at home during the most critical period of their lives.

Selden, Kan. George B. Shields.

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Failure To Breed.

I have a good 2-year-old Jersey heifer that is in good flesh and seems healthy otherwise but she will not breed. She is valuable and would like to know if anything can be done.—R. E. H., Sumner county, Kansas.

It is difficult to say just what is the trouble with your heifer. There are some things recommended which might possibly produce oestrus but it is doubtful if such remedies are practical.

Trembling Shoulders.

I have a mare 8 years old that is in fair shape but while working she always has a trembling in her shoulders. Can this be cured?—E. N., Cherokee county, Kansas.

The trembling may be due to weakness of the muscles or it may be due to some nervous lesions. It is doubtful if you could get anything to bring about a cure. Good feeding, moderate exercise will bring about the desired results as rapidly as anything.

Bloody Milk.

I have a cow that gave bloody milk from one teat during 1st year after calving. She will soon be fresh again and would like to know what I can do to prevent this as she is a good cow.—E. F., Reno county, Kansas.

Bloody milk may be due to an injury or possibly to a weakness of the blood vessels. It is possible that the cow may not be affected when she again becomes fresh. If she does give bloody milk I would suggest that you bathe the quarter with cold water once or twice daily and give a teaspoonful of tincture of iron in a little water as a drench twice daily for a week or ten days.

Early Breeding.

I have a mare colt that will be 2 years old in May. She weighs 1,300 pounds and is large for her age, being built on the rangy order. Some people advise breeding her and others say it would stunt her. What do you advise?—J. W. H., Brown county, Kansas.

If your mare is well developed and has had proper care it would be just as well to breed her when 2 years old as to wait for another year. Of course a person should give good care and feed well during the time she is carrying the colt. Large draft animals develop quite early, and I think it is just as well in this case to breed this mare at 2 years as to wait till later. I think it would have a tendency to broaden her rather than to stunt her growth.

A Case of Azoturia.

I have a Standard bred mare 6 years old, weighing about 1,000 pounds, that I have been using for driving and riding. A few days ago while exercising her rather violently she began to sweat profusely and suddenly became stiff. After a few minutes I led her home but she seemed to be stiff in her entire body. She seemed to be all right a few days later. She is in the best of condition and would like to know if there is danger of permanent injury.—R. J. R., Ness county, Kansas.

Your horse was troubled with a disease known as azoturia. Although you do not mention this in your letter, I would suspect that your animal had been resting for a day or so before you

worked her. You also state that the animal is in excellent condition, a circumstance which favors development of this disease. In order to avoid this, exercise your animals daily or if it is not possible to do this restrict them in their feed. One attack may predispose toward another although if an animal is handled carefully, regarding the work and feeding, there is no reason why an animal should get a second attack. This disease does not usually occur while the animal is at pasture unless it has a very rich succulent kind of food.

Coughing Pigs.

I have some shoats about 9 months old that have had a cough for about six months, with a whitish discharge from the nose. They have not done much good. What is the trouble?—L. W. G., Kiowa county, Kansas.

It is probable that your hogs have either catarrh or lung worms. They probably will improve with warm weather. I would suggest that you give them a tablespoonful of the following mixture for four shoats once daily:

Ammonium chloride, ¼ p. nd.
Bicarbonate of soda, ¼ pound.
Glauber's salts, ¼ pound.
Common salt, ¼ pound.
Charcoal, ¼ pound.

Throat Troubles.

We have some cows that have been sick for five days. They began by coughing, then their throats would swell, and finally they were unable to chew their feed. They seem to be well otherwise. What would you advise for treatment?—J. L., Anderson county, Kansas.

The trouble with the cows may be due to some irritant that they have had in their feed or it may be laryngitis or inflammation of the throat due to some other cause. It is rather difficult to give any specific treatment but I would suggest that you give a tablespoonful of the following solution two or three times daily: Carbolic acid 1 teaspoonful, alum 1 teaspoonful, water 1 quart.

Ailing Gelding.

I have a yearling colt that hasn't done well the last three months and lately discovered that the front of his sheath was badly swollen. I gave him a teaspoonful of saltpetre twice a day and the swelling soon disappeared. But in a few days it came back and he is now also swollen under the body. What can be done for this?—W. E. H., Wallace county, Kansas.

Some geldings have an excessive secretion of material in the sheath and it is necessary to cleanse the parts rather frequently. Swelling also appears on the body from the irritation and I would suggest that you try a tablespoonful once daily of the following mixture:

Sodium carbonate, ¼ pound.
Glauber's salt, ¼ pound.
Common salt, ¼ pound.
Pulverized hydrastis, ¼ pound.

Lameness; Udder Trouble.

(1) I have a horse weighing about 1,300 pounds that became lame last December in the left front leg. He goes lame when running but not when walking or pulling. I could find nothing wrong with his hoof so put shoes on him but he is still lame. What can I do for him?

(2) I have a cow with whom the calf was allowed to run last year. This year one of the teats gives a very small quantity of milk while the other three are all right. What could cause this?—H. F. B., Marion county, Kansas.

(1) It is difficult to say where the trouble is as there seem to be no marks to indicate the trouble. I do not know that you could do anything except to give the animal a long rest.

(2) Possibly the calf injured one of the quarters while running with the cow last year so that the milk secreting part of the gland has been replaced with connective tissues.

Running Eye.

My 5-year-old mare had the ball of her eye burst when she was a colt. It did not bother her until lately when it began to run and the matter has a strong odor. I think the sand and dust caused it. On one side there seems to be a growth of

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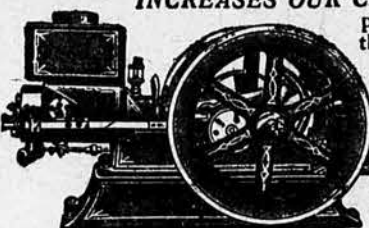
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proud flesh, next the nose. I have tried sugar lead, powdered calomel, and a few drops of carbolic acid.—W. M., Kiowa county, Colorado.

The trouble with your horse I think may be due to the collection of dirt and possibly it may be cancerous growth. If it is a cancerous growth it should be completely removed. Carbolic acid would be indicated but the condition of the parts would have to be considered. A weak solution of about a teaspoonful to a pint of water would be proper for a wash, or if you wish to have the caustic effects then the strong carbolic acid could be applied. You should consult a good veterinarian if possible regarding the trouble.

Stump Sucking.

One of my colts has developed what I believe to be the stump sucking habit. The colt was hand raised as its mother died and it got the habit of sucking the slats on the cribbing after getting its milk.—G. M., Republic county, Kansas.

Stump sucking, cribbing, and wind sucking are habits that are difficult to overcome. Sometimes the trouble may be produced by an irritable condition of the stomach or it may be simply a habit. In addition to keeping the animal from objects that it can get hold of I would suggest that you give a tablespoonful twice daily of the following mixture: Bicarbonate of soda 1/2 pound, charcoal 1/2 pound, nux vomica 2 ounces, pulverized ginger 2 ounces.

Sweeny; Scours.

(1) I would like to know of a good cure for sweeny. One of my mares is affected with it and our veterinarian seems to be doing her no good.

(2) I also have a horse that is apparently sound and hearty but can scarcely drive him on account of scours. What is your advice?—M. C., Lorena, Okla.

(1). Sweeny is a wasting of the muscles of the shoulder. Frequently it is the result of injuries to the nerve supplying these parts. Massage and the application of blisters sometimes will be followed by beneficial results. Mixtures are also injected under the skin to produce a filling of the wasted parts but this latter treatment should be done by a qualified veterinarian.

(2). You will find the reply to the inquiry of F. O. N., The Dalles, Ore.

Tuberculous Cows.

I would like to know if Jersey cows are more subject to tuberculosis than any other breed of dairy cows? How can one tell when a cow is tubercular?—C. W. M., Comanche county, Kansas.

Jersey cows are probably a little more susceptible to tuberculosis than some of the other breeds of cattle. This is probably due to their being bred principally for the production of milk and have not had the range to produce a rugged constitution. Then again we might say that all dairy cows are more susceptible to tuberculosis, then the beef cattle, as they are housed more and not allowed the exercise and fresh air which the beef cattle get.

The best means for determining whether an animal is tubercular or not is to test it with tuberculin. One cannot tell by the appearance of the animal whether it has tuberculosis or not. Generally an animal, unless it is in the last stages is in a thrifty condition and would be above suspicion as far as the outward appearance would show.

Ailing Sheep.

Recently one of my sheep got sick, seeming to have a pain inside. In about five days she was unable to get up without helping her. Her bowels became loose and there was a very offensive smell about her. I thought the lambs she was carrying might have been killed through an injury and were rotting, so I killed and opened her. She had two nice, big lambs but they were evidently alive until the sheep was killed. There seemed nothing the matter with her. Another sheep has been standing around with head hanging down and seems to have the same trouble the other one did. What would you do for them?—J. B., Garfield county, Oklahoma.

It is rather difficult to tell just what the trouble with your sheep is. From the post mortem appearances it would seem as if there were very little wrong. It might be indigestion. I would suggest that you give them about a teaspoonful twice daily of the following mixture:

Sulphur, 1/4 pound.
Epsom salts, 1/4 pound.
Nux vomica, 1/4 pound.
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An Old Bean For Dry-Farmers

The "tepary" bean (pronounced tep-ary), obtained from the Papayo Indians of Arizona by R. W. Clothier of the University of Arizona, is demonstrating that it is likely to make a valuable dry-farming crop. It was grown on experimental plots at the Arizona Experiment station for four years before its rediscovery was formally made known. It has been found to be more prolific under dry conditions than any other variety of bean, yielding as high as 730 pounds per acre with no water other than the scant rainfall of Arizona, plots of ordinary beans under the same treatment yielding only from 66 to 144 pounds per acre. An eastern canning company reports that the new bean will make 40 per cent more cans of beans than the same weight of navy beans.

What Followed a Talk on Silos

The question is sometimes raised as to whether farm folks who go to hear institute speakers ever act on the suggestions they hear. An instance out in Hodgeman county sheds some light on this question. While on an institute trip something over a year ago, P. E. Crabtree, one of the college speakers was caught in a snow blockade at Jetmore. He didn't cuss the weather and bewail the fact he was losing good time, but made use of his enforced stop-over to talk silos and silage from pulpit, platform, and anywhere else he could get an audience. As a result 10 silos were built in that vicinity last spring and it would be hard to even estimate how many more will be built this spring as the silo fever has become contagious there as everywhere else.

Where Big Crowds Are Scarce

Hamilton county, way out on the Colorado line, evidently has a thriving farmers' institute according to a report furnished the Mail and Breeze by M. W. Yonally of Syracuse. The last county institute was held in Syracuse, the county seat, and the attendance broke all records for institutes in that part of the state. The afternoon session of the second day drew more than 300 persons and represented the largest audience of farm folks that ever crowded into the city hall. A large share of the credit for the attendance is due the president, C. A. Calkin, who seems to be the right man in the right place.

Hutchinson Backs Its Fair

The recent legislature gave Hutchinson the State Fair, but no appropriation to establish such a fair. Hutchinson business men last week pledged themselves to contribute \$20,000 as a guarantee fund for the expenses of the fair next fall and the fair will probably go on as it has in previous years making what advance it can toward permanency and betterment. Topeka is maintaining its state fair in the same manner.

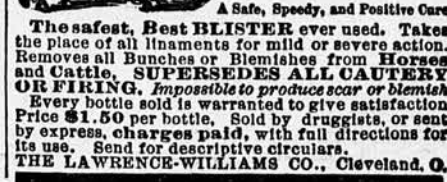
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Blackberries do best in a cool, moist soil where the roots can feed freely.

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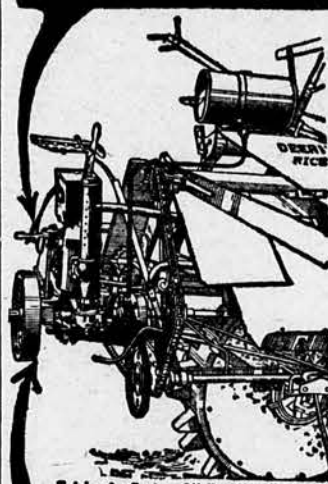
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Combination Prices
If you purchase the Galloway Improved Washer with Engine and Truck as shown in illustration, we will furnish a sufficient amount of Belt Free and ship it with the machine. The engine is the regular Galloway and there is nothing on the market to equal it for pumping or running any kind of light machines.

	ENGINE WITH TRUCK	13 H.P.	15 H.P.	24 H.P.
No. 1 Washer Complete (belt free).....	\$49.75	\$57.50	\$63.50	
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NOTE—In case you wish the outfit without truck, just deduct from above prices \$5.00 if engine is 13 h. p. size, or \$6.00 if engine is 24 h. p. size. (321)

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The new ring, entirely different from all other rings. Be the first to get one. Warranted to wear for years. We send you one with your initial engraved on it for only 15¢. S. V. TAYLOR & CO., Boone Block, Covington, Ky.

Corn, Peanuts, Peas and Hogs

[Prize Letter.]

Mr. Editor—For peanuts I prepare the ground as for corn or wheat and furrow it out in rows 3 feet apart and 4 inches deep. I plant the seed without hulling, 12 to 14 inches apart, and cover about as deep as corn. If the nuts are first soaked in water they will come up in three days. A sled cultivator with trough attachment is the most satisfactory tool for the first cultivation. Later cultivations are shallow, sweeps being used for this purpose until the crop is made.

Peanuts are a warm weather crop and we begin planting them in April and continue to the middle of July. The most money I ever made with peanuts was when I planted 15 acres to corn and peanuts in alternate rows. The rows were spaced 3 feet apart and the corn planted first. The corn was worked once and then the peanuts planted. The nuts were cultivated twice and at the last working peas were sown in broadcast. I found that the peanuts did best where the peas were sown with them in the corn. The corn made 45 bushels per acre. I gathered 50 bushels each of nuts and peas, then turned in the hogs to get the rest. The hogs that fattened on these nuts and peas had no other feed. I sold \$700 worth and carried over a bunch of shoats from the same field that sold later for \$525.

These four crops—corn, peanuts, peas and hogs—are the best mixers I ever tried. The peas and peanuts seemed to improve the quality of corn as well as the land. This is not a fake story but a reality.

R. I. Cloudechief, Okla.

Knew the Worth of Good Seed

Mr. Editor—I believe a former neighbor of mine, in Iowa, who could not read or write, understood the worth of good seed. He procured 15 bushels of good wheat, put it in a brine that would bear up an egg, skimming off 4 bushels then sowed the remaining 11 bushels. I remember well that that man, ignorant

of books, generally had the best crops in the neighborhood.

The real use of the fanning mill on the farm is to raise the vitality of our seed, which must increase the yield and quality of our crops. The market value added to grain, by cleaning it, usually pays well for the labor, sometimes very well. Yet this desirable profit does not approach the rewards to be realized from improved seed and larger yields of better quality.

C. H. Starrett.

R. 2, Clayton, Kan.

Kansas Not a Rainy Place

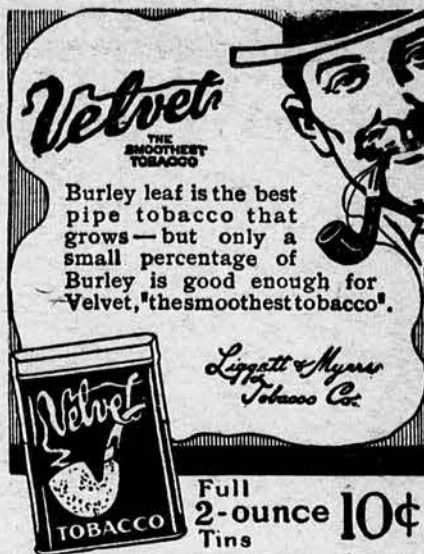
An inch of rainfall means 27,154 gallons or 113 tons of water per acre. The average rainfall for the globe, including land and water areas, is estimated to be about 5 feet per year. The town of Cherra Punji in Assam, India, is the wettest spot on earth where rainfall records are kept. The average fall there is 500 inches per year. The highest year's record being 905 inches, recorded in 1861. For a single month's precipitation in this country, Helen Mine in Lake county, California, probably holds the record. In January, 1909, 71.54 inches of rain were recorded there. It has been computed that 1 inch of rain falling in the eight corn states at a critical time, would mean an increase of 180 million dollars in the value of the corn crop. These are

some facts gathered from the weather bureau records by Prof. J. W. Smith, at Washington, D. C.

In Kansas the annual rainfall is highest in the southeastern corner of the state where the average is 44.7-10 inches. On the Colorado line it is 15.9-10 inches, the average decreasing at a uniform rate from east to west.

Grain Belt About Stationary

The figures of the last census, when compared with those of the previous census reports back in 1850, indicate that the production of grain under natural conditions has reached its western limit. Since 1850 the "median point" (center) of production of the six great crops—corn, wheat, oats, barley, rye and buckwheat—was about 20 miles west-southwest of Burlington, Ia.; but its western movement in the last 10 years was comparatively very small. It remains to be seen what effect the great irrigation work now planned by the government will have upon the location of the great grain fields of the country.



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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!

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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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Poultry Keeping

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

The shade of a tree makes a good place for the drinking fountain.

Nests are better off for being near the floor. And keep them darkened.

"From producer to consumer" in the poultry business, is a good slogan for both.

The warmer the weather the oftener food and drinking vessels ought to be scalded.

With the coming of warm weather corn or other fattening feeds should not be fed heavily.

Feather pulling is a result of too close confinement, idleness, or lack of meat food in the ration.

A sick chicken can soon infect a whole flock. The safe thing is to take it away at the first sign of illness.

A hand force sprayer will earn its way in one season. It comes in handy both in the poultry house and garden.

Two conditions may cause soft shelled eggs: The hens may be too fat or may not get enough mineral or shell-making food.

After the breeding season is over all cockerels not wanted for breeding purposes next year will be a dead expense. Better take a coopful to town.

An Effective Lice Powder.

Mr. Editor—I find the best and cheapest lice powder is made by mixing 1 peck of freshly airslaked lime and 1 ounce of pure carbolic acid. When mixed I add an equal amount of tobacco dust, then mix thoroughly. I have a sifting box made of a baking powder can, and dust the hens well. Tobacco dust can be bought from any of the catalog houses for 3 cents per pound. Mrs. S. N. Norris.

Eads, Colo.

A Knack in Turning Eggs.

Mr. Editor—I have just discovered a new wrinkle in turning eggs in the incubator tray, that works fine. I simply use a lead pencil with a new, clean rubber. This will not slip and it turns the eggs in a moment. When the tray was full it was always an annoyance to get hold of the eggs and it jiggled them unnecessarily in turning. Of course, I have them all marked on one side so I will know how far to turn them each time.

Limon, Colo.

Mrs. Fred Davis.

Don't Hatch Them in the Hen House.

[Prize Letter.]

Mr. Editor—I raise from 400 to 500 chicks every year, but I never set hens in the poultry house. Nearly every farm has some building or shed that may be used for a hatching house. A building with an earth floor is preferred. I do not take a hen too seriously when she shows the first signs of wanting to sit. She may not have fully made up her mind yet. I put her in a nest in some outbuilding and give her one egg to see if she is really in the hatching notion. I cover the box with a second one and leave the hen until the next afternoon when I remove the

Tells Why Chicks Die

J. C. Reefer, the poultry expert of 1828 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This remarkable book contains some new scientific facts on white diarrhoea and tells how to prepare a simple solution that cures this terrible disease over night; everyone interested in poultry should certainly write Mr. Reefer for one of these free books.

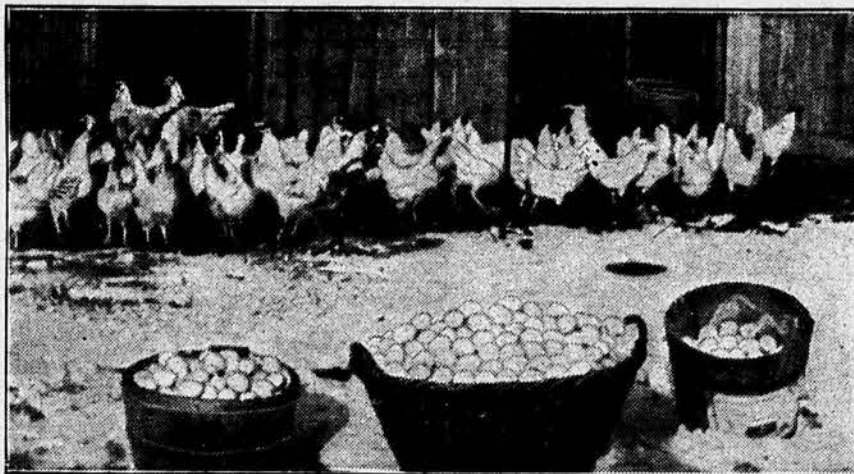
cover and leave food and water in the building for her. The eggs are slipped under her at night. I do not bother a sitting hen except three days before the hatch is due when I dust her with a good insect powder. As the eggs hatch I throw out the shells but leave the chicks in the nest. During this time I keep the box covered as at first to keep other hens from interfering. I do not feed the chicks until 48 hours old. It will not hurt them to go without food longer than that. But they have water all the time. I keep the coops clean, dust the chicks with a lice powder about once a week and lose few chicks.

Mrs. Agnes Wilson.

R. 1, Arkansas City, Kan.

How a Larger Lamp Helps.

Mr. Editor—I am sending you a picture of my 60 White Leghorns and the 607 eggs they laid. This picture was taken February 1 and all the eggs went into incubators, filling four of them. Just a word in regard to incubator lamps. I find most of the lamps that come with incubators are a little small for winter use, unless the machines are kept in a room that does not get cold. Most lamps must be turned as high as possible to get the heat up and this causes them to smoke easily, fill the lamp with soot, and there is danger of



A flock of White Leghorns and the eggs they laid for a Mail and Breeze poultry raiser. Mr. Davis does not state how long they were on the job.

an explosion or of the light going out. To avoid these troubles I put a No. 3 lamp in the place of a No. 2 which gives plenty of heat without straining the lamp. It burns much better when turned low and there is no smoke.

Nickerson, Kan. W. H. Davis.

Blue Barred Rock Markings.

Mr. Editor—I am raising Blue Barred Rocks and am often asked what they are like. They are a member of the Plymouth Rock family. The dark bars on the feathers are black with a bluish tint which gives a glossy, dark blue appearance. The light bars are perfectly white and where the two bars meet on the feather they should be as distinct as if you sewed white cloth on dark. The bars should meet evenly in the middle of the feather as you would match wall paper. They are fine layers, and a good table fowl, having a yellow skin.

Lawrence, Kan.

Milton Diehl.

An Inexpensive Chick Ration.

[Prize Letter.]

Mr. Editor—I used to buy high-priced chick food but believe I have solved that problem by saving every crust and scrap of light bread, cake and biscuit through the winter. A flour sack is kept handy and the scraps dropped in as they accumulate. If pieces are not too large and the scraps dropped in as they accumulate will not mould. This bread will keep for months and when the chicks come in spring I run some of these crusts through a food chopper and let the chicks have the crumbs dry, or moisten with sweet milk. A few days later I begin adding Kafir ground in a coffee mill, and when they are large enough to eat whole Kafir the bread is dropped.

Mrs. R. F. Morton.

R. 2, Toronto, Kan.

T. G. Maxwell, Supply, Okla., sends \$1 and writes: "Here's to Mail and Breeze and Democratic prosperity. I have been a constant reader of your valuable paper for the last 15 years and cannot farm without it."

Langshans First During March

RECENT LAYING RECORDS.

Nineteen pens of 10 hens each laid more than 200 eggs per pen during the month of March, in the National Egg-laying contest at Mountain Grove, Mo. A pen of Black Langshans led the race last month with 248 eggs to its credit. The best individual record was made by a Buff Orpington pullet which laid 29 eggs in 28 consecutive days, laying two eggs in one day. The pen of English White Leghorns is still far in the lead for the 4½ months the contest has been running. The English birds have out-distanced their nearest competitors, a pen of Silver Wyandottes, by 129 eggs. The 12 highest pen records made from the beginning of the contest, November 15, 1912, to April 1, are as follows:

Breed.	Eggs Laid
S. C. White Leghorns.....	890
Silver Wyandottes.....	761
Black Langshans.....	736
Silver Wyandottes.....	711
Barred Plymouth Rocks.....	668
Buff Orpingtons.....	640
Black Langshans.....	637
Buff Wyandottes.....	633
White Wyandottes.....	627
White Wyandottes.....	627
White Orpingtons.....	627
S. C. Rhode Island Reds.....	620

Out of the 12 best pen records for

Breed.	Eggs Laid
Black Langshans.....	248
S. C. White Leghorns.....	234
White Orpingtons.....	233
Black Langshans.....	224
Silver Wyandottes.....	223
Buff Plymouth Rocks.....	222
R. C. Rhode Island Reds.....	220
Silver Wyandottes.....	220
Black Minorcas.....	219
Barred Plymouth Rocks.....	219
S. C. Brown Leghorns.....	218
Black Langshans.....	216

White Diarrhoea

Dear Sir: I see reports of so many losing their little chicks with bowel troubles, so thought I would tell my experience. I used to lose a great many of my little chicks from this cause, tried a good many remedies and was about discouraged with the chicken business. Two years ago they began to die and I thought I would try Walker's Walko Remedy. I used two 50c packages, raised 300 White Wyandotte chickens and never lost one or had one sick after getting the medicine. Readers can get it by sending 50c (M. O.) to the Walker Remedy Co., L-8, Lamoni, Iowa. I wouldn't try to raise incubator chicks without it.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.—Adv.

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 it 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 days' trial. Money back if not satisfied. Send for the free catalog.

FOSTORIA INCUBATOR COMPANY,
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World's Champion
140-Egg Incubator
Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder. \$4.95. Ordered together, \$11.50. Freight Paid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres. Belle City Incubator Co., Box 21, Racine, Wis.

BEE SUPPLY HOUSE
Everything for the Beekeeper. We manufacture the latest and most approved supplies and sell direct from factory at factory prices. We're old-time bee people in the heart of a bee country. We know your needs. Send for catalogue. Early order discounts. Don't buy till it comes. THE LEAHY MFG. CO. Roll Street, Higginsville, Mo.

The Poultry Leader Incubator
Beats anything you ever saw. Will outmatch any other. Catalogue and lowest prices free. Write to Emil Ochauer, Box 2, Saffron, Neb.

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SINGLE COMB REDS, direct from two of the best strains in America. Eggs \$1.50 and \$3.00 for fifteen. Mrs. I. L. Lafferty, Fredonia, Kan.
THOROUGHbred REDS, both combs, good show record. Eggs \$1.50 to \$3. Express prepaid. Mating list free. T. N. Marshall, La Cygne, Kan.
R. C. RED eggs. Pens mated to 4 grand Buschmann-Pierce roosters, sons of Wildfire 2nd, first pen cock Chicago, 1912, he by the \$2,500.00 Wildfire; other pens headed by as well bred roosters. 15 eggs \$1.50; 30, \$2.50; 50, \$4. Range flock, 50 \$2. W. R. Huston, Americus, Kan.

Reliable Poultry Breeders

RHODE ISLAND REDS.
SINGLE COMB RED eggs, \$1.50, \$2.50 \$4.00 per 15. Winners Kingman, Pratt, Wichita, Hutchinson shows. H. A. Scott, Cunningham, Kan.
ROSE COMB REDS. Silver cup winners. Eggs from pens, per 15 \$1.50 and \$2. Range \$1, \$4.50 per 100. Mrs. Alice Clinkenbeard, Wetmore, Kan.
\$3 FOR 50 EGGS from our brilliant Red strain Single Comb R. I. Reds. Free mating list. Mrs. Francis Culver, Culverdale Farm, Red Oak, Iowa.
DARK RICH RED R. C. Reds. Sibley strain eggs, 15 \$1.00, 50 \$3.00, 100 \$5.50; utility \$4.00. Nora Luthye, North Topeka, Kan., Rt. No. 6.
ROSE COMB REDS. Successfully bred seven years. Successfully exhibited four years. Free catalog. F. A. Rehkopf, Topeka, Kan., Route 7.
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.
PURE BRED R. C. REDS. Prize winners. Eggs strictly fresh. Range flock \$1.00 for 15 or \$5.00 per 100. Baby chicks 10c each. Nell E. Balla, Walnut, Kan.
R. C. RHODE ISLAND REDS—Best winter layers. Eggs from high scoring stock \$1.00 per 15, \$5.00 per 100. Mrs. A. J. Nicholson, Manhattan, Kan.
SINGLE COMB Rhode Island Reds exclusively. 15 eggs 75c, 100 \$3.50. Baby chicks 10c each. J. B. Scott, R. 1, Colony, Kan. Formerly located at Gas, Kan.
R. C. R. I. REDS. Large, heavy boned, laying strain. Eggs, 15 \$1.25, 30 \$2.25, 100 \$6.00. From selected high scoring stock only. Mrs. G. W. Berry, R. 1, Topeka, Kan.
RHODE ISLAND REDS, both combs. Hatching eggs low price, fertility guaranteed, securely packed, parcel post or express. Mating list free. H. A. Sibley, Lawrence, Kan.
ROSE COMB REDS, all yearling hens, Miller and New Combs strain. Free range. 45 eggs \$2.25, \$4.00 100. Guaranteed 80 per cent fertile. James A. Harris, Latham, Kan., Box 65.
SINGLE AND ROSE COMB Rhode Island Red eggs from best laying and richest colored strains in this country. 15 for \$1.00, \$5.00 per 100. Col. Warren Russell, Odessa Farm, Winfield, Kan.
IT PAYS TO RAISE chicks from Whiteley's Lay-more Strain Single Comb Reds. Eggs, \$1.50, \$2.50, \$3.00, and \$5.00 for 15. Twelve chicks guaranteed. Write Clyde C. Whiteley, Wichita, Kansas.
SINGLE COMB RHODE ISLAND REDS. Winners at Kansas State and other shows. Eggs 7 to \$3.00 per 15, \$4.00 per 100. Fertility guaranteed. Catalog free. Karl Spellman, New Albany, Kan.
ROSE COMB RHODE ISLAND REDS exclusively. First prize winners Chanute, Parsons, Coffeyville, Independence, Iola, Pittsburg. Incubator eggs and baby chicks specialty. Express or parcel post delivery. Walter R. Meeker, Erie, Kan.
STOVER & MYERS, Rose Comb Reds, choice quality. Winning 28 ribbons at Oswego, Tulsa, Fredonia and Kansas State Show. Eggs cheapest in West, quality considered; Yard A & B. \$5.00 per 15; C & D. \$2.50 per 15; Yard E. \$4.50 per 100. Free circular. Fredonia, Kan.

LEGHORNS.

SINGLE COMB B. L. eggs, 100 \$3.00. P. B. Cole, Sharon, Kan.
FINE S. C. W. LEGHORN eggs, \$5 100. Geo. Patterson, Lyndon, Kan.
S. C. BUFF LEGHORN eggs from cup winners. F. Weeks, Belleville, Kan.
ROSE COMB BROWN LEGHORNS. Eggs \$3 per 100. Earl Eversoll, Agra, Kan.
SINGLE COMB BROWN LEGHORNS. Eggs 100 \$5. Mrs. Mattie Story, Cleo, Okla.
SINGLE COMB BROWN LEGHORN eggs, 100 \$3.00. Mrs. A. Anderson, Greenleaf, Kan.
PURE Single Comb Brown Leghorns. Eggs, 100 \$3.00. Mrs. H. Wohler, Hillsboro, Kan.
SINGLE COMB BROWN LEGHORN eggs, \$3.00 per 100. Sophia Hunt, Blue Rapids, Kan.
SINGLE COMB BUFF LEGHORN eggs, 15, \$1.00; 100, \$5. Emery Babb, Wakefield, Kan.
SINGLE COMB WHITE LEGHORN eggs, \$5.00 per 100. Mrs. Mary Helm, Topeka, Rt. 5.
SINGLE COMB WHITE LEGHORN eggs 15 \$1.00, 100 \$5.00. Royal Yeoman, Lawrence, Kan.
BUFF LEGHORNS. Baby chicks 12 1/2 cts. each. 100 eggs \$5. Mrs. John Wood, Solomon, Kan.
SINGLE COMB BROWN LEGHORNS. None better. 100 eggs \$3.50. Mrs. Kenyon, Tyrone, Okla.
S. C. B. LEGHORNS. Eggs 75c per 15, \$4 per 100. Mrs. Chas. Ellison, Brame, Okla., R. R. No. 2.
SINGLE COMB WHITE LEGHORNS exclusively. Eggs, 100 \$5.00. Hattie Roth, Milton, Kan.
EGGS from S. C. Brown Leghorns, \$1.00 for 15, \$4.00 per 100. H. N. Holdeman, Meade, Kan.

Reliable Poultry Breeders

LEGHORNS.
PURE S. C. BROWN LEGHORNS, exclusively. Eggs, 30 \$1.00, 100 \$3.00. S. Oveson, Osage City, Kan.
ROSE COMB WHITE LEGHORN eggs \$1.00 setting, \$4.00 per 100. Cora Chittenden, Liberal, Kan.
TOP NOTCH S. C. White Leghorns. Superior layers. Eggs, chicks. Armstrong Bros., Arthur, Mo.
S. C. BUFF LEGHORNS, State Show winners. Eggs. Circular free. Hillcrest Farm, Blackwater, Mo.
ROSE COMB B. LEGHORN eggs. Quality first class. Specialty 11 years. Olive Hoskins, Fowler, Kan.
PURE BROWN ROSE COMB LEGHORN eggs 3 1/2 cents each; 100 \$3.50. Laura A. Hazen, Hollis, Kan.
IF YOU want egg producers write for my mating list. S. C. W. Leghorns. A. L. Buchanan, Lincoln, Kan.
ROSE COMB Brown Leghorns. Kulp's strain. Eggs 75 cts. 15, \$3.50 per 100. Otto Borth, Plains, Kan.
S. C. WHITE LEGHORN eggs, \$1.00 per 15. White Orpington, \$1.50. Chas. S. Borden, Circleville, Kan.
S. C. BUFF LEGHORNS. Eggs from choice birds, 30 \$2.00, 100 \$4.50. J. A. Reed, Route 2, Lyons, Kan.
PURE Single Comb White Leghorn eggs, 15 \$1.00, 100 \$4.00. Cockerels \$1.00. R. H. Volkman, Woodbine, Kan.
S. C. WHITE LEGHORNS. Free range; great layers. Eggs, 100 \$3.00, 13 75c. C. B. Wilson, Burlingame, Kan.
SINGLE COMB BUFF LEGGHORNS of quality. Prices right. Mating list free. Mrs. H. A. Stine, Holton, Kan.
SINGLE COMB WHITE LEGHORNS, the big thrifty kind; 15 eggs 75c, 100 \$4.00. C. W. Connelly, Wellston, Okla.
EGGS FOR HATCHING. Pure bred S. C. W. Leghorns. \$4.50 per 15, \$1.00 per 15. Adolph Berg, McPherson, Kan.
HART'S Single Comb Buff Leghorns are layers, winners and payers. Prices reasonable. W. D. Hart, Ashland, Mo.
SINGLE COMB White Leghorns exclusively. 15 eggs \$1.00; 50, \$3.00; 100, \$5.00. R. E. Davis, Holton, Kans., Route 5.
EGGS FROM PURE BRED S. C. White Leghorns. \$3.00 per hundred. Extra fine stock. Harry Givens, Madison, Kan.
ROSE COMB WHITE LEGHORN eggs. Fifteen, one dollar. One hundred, five dollars. Mrs. C. S. Wade, Miltonvale, Kan.
THOROUGHbred Buff Leghorn eggs, \$1.50 per 15; range \$1.00 per 15, \$4.00 per 100. Mrs. Frank Wempe, Frankfort, Kan.
DORR'S prize winning pure Single Comb Brown Leghorns. Eggs \$3.50 per 102; 32 \$1.25. Chas. Dorr & Sons, Osage City, Kan.
SINGLE COMB BROWN LEGHORNS. Choice stock; farm raised. Eggs \$1.00 per 15, \$5.00 per 100. Mattie Ulm, Kincaid, Kan.
ROSE AND SINGLE COMB Brown Leghorns. Winners. Eggs, 75c per 15, \$4.00 per 100. Mrs. Ida Standiford, Reading, Kan.
EGGS FOR HATCHING. Single Comb White Leghorns. Only breed on farm. Satisfaction guaranteed. Miss Skelley, Delia, Kan.
SINGLE COMB BROWN LEGHORN eggs, 75 cents for 15, \$3.00 per 100. Choice stock, fertility guaranteed. Barker Bros., Indianola, Iowa.
S. C. BUFF LEGHORNS. Shape and color specials and silver cup won wherever shown. Eggs, 15 \$1.00, 100 \$4.00. Geo. Dorr, Osage City, Kan.
SINGLE COMB WHITE LEGHORN 1st pen, Standard I. R. duck, Pearl Guinea eggs, \$1 setting, 100 \$8. Pearl W. Usher, Eustis, Neb.
SINGLE COMB BROWN LEGHORNS. 52 prizes at Newton, Arkansas City, Hutchinson, Wichita. Eggs \$5.00 per 100. W. J. Roof, Maize, Kan.
R. C. BROWN LEGHORN eggs. Range flock, \$5.00 per 100. Pens, \$1.75 and \$2.50 per 15. For show record write Claude Darling, Enid, Okla.
ROSE COMB BROWN LEGHORN range stock. Eggs \$3.00 per hundred, 75c per setting. Safe delivery guaranteed. O. C. Haworth, Fowler, Kan.
SINGLE COMB BROWN LEGHORN hens and pullets from best laying strains in this country. \$1.00 each. Col. Warren Russell, Odessa Farm, Winfield, Kan.
DORR'S prize Rose Comb White Leghorns, grand champion silver medal winners. Eggs \$1.00 per 15, \$5.00 per 100. A. G. Dorr, Osage City, Kan., Route No. 5.
SINGLE COMB BROWN LEGHORNS. Standard birds. Farm raised, vigorous, extra heavy layers. Eggs \$4.00 per 100. Mrs. J. A. Jacobs, Manchester, Okla.
S. C. W. LEGHORNS of quality. Standard bred, heavy egg producers. Eggs. Orders booked now. Prices right. Mating list. Freeman & Post, Colony, Kan.
S. C. BROWN LEGHORNS. Eggs, 15 \$1, 105 \$5.00. Pure bred; safe delivery; satisfaction guaranteed. A. B. Haug, Centralia, Kan. Ship from Centralia or Seneca.
WHITE RUNNERS and Single Comb White Leghorns. Eggs from trapnested stock cheaper than asked for guess-work breeding. Free catalog, pictures of Runners and Leghorns. Send for it. Jas. R. Snyder, Box T, Frazer, Mo.

Reliable Poultry Breeders

LEGHORNS.
EGGS from choice pure bred Rose Comb Brown Leghorns, 15 \$1.00, 100 \$5.00. J. J. Goetz, Cunningham, Kan.
SINGLE COMB White and Buff Leghorns. White Wyandottes, Buff Rocks. Eggs 15 \$1.00, \$5.00 100. Buff Wyandottes \$2.00 15, V. M. Davis, Winfield, Kan., Route No. 2.
PRIZE WINNERS. S. C. Buff Leghorns. 100 eggs \$4.00. 15 75 cts. Baby chicks 10c. Indian Runner ducks, light fawn and white, 13 eggs \$1.00. Ella Beatty, Lyndon, Kan.
ROSE AND SINGLE COMB Brown Leghorns. Prize winners and egg production. Guaranteed 90 per cent fertile. Eggs, \$1.25 15, \$5.00 100. M. Earnshaw, Lebo, Kan.
SINGLE COMB BROWN LEGHORNS exclusively for 10 years. High-scoring, heavy laying strain. None better. Eggs at farmer's prices. J. F. Crandall, Barnes, 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.
HATCHING EGGS from "bred to lay" S. C. W. Leghorns at \$1.00 per setting of 15, \$2.50 per 50 eggs and \$4.00 per hundred. Peter Hoffmann, Pretty Prairie, R. 1, Kan.
S. C. W. LEGHORNS. My specialty 24 years. Snow white, persistent layers, vigorous, beauties and debt payers. Eggs, \$1.50 for 15; \$5 per 100. Geo. S. Phillips, Tecumseh, Neb.
CHERRY GROVE POULTRY FARM, Rockyford, Colo. Thoroughbred Single Comb White Leghorns. Winter laying strain. Cockerels and pullets for sale. Orders taken for baby chicks. J. A. Hochstedler.
YOUNG'S STRAIN Single Comb White Leghorn eggs, from large, white birds scoring 94 and above. Four grand matings, \$1 \$2, \$3 and \$4 per 15. Wm. A. Sanford, Manhattan, Kan.
ROSE COMB WHITE LEGHORN eggs for sale. From Pen No. 1 \$3.00 for 15 or \$4.00 for 30; Pen No. 2, \$1.50 for 15 or \$2.00 for 30; Pen No. 3, \$1.00 for 15 or \$1.50 for 30. Mrs. W. E. Masters, Manhattan, Kan.
ROSE COMB BROWN LEGHORNS. Kulp's 242 egg strain. Winners first pen Hutchinson, 1913. Eggs \$1.00 15; \$5.00 100. Infertiles replaced once. (Golden Seabright Bantams.) A. B. Boylan & Co., Lakin, Kan.
LANGSHANS.
BLACK LANGSHAN eggs, \$1 per 15, \$5.00 100. J. Stulp, Hartford, Kan.
WHITE LANGSHAN eggs, \$1.00 per 15. Wm. Wischmeier, Mayetta, Kan.
BLACK LANGSHAN eggs for hatching. C. C. Cunningham, Kinnard, Neb.
PURE BLACK LANGSHANS. 15 eggs \$1, 100 \$5. Mary McCaul, Elk City, Kansas.
GOOD farm raised Black Langshans. Eggs, 15 \$1.50, 100 \$7.50. Mrs. Geo. W. King, Solomon, Kan.
KLUSMIRE'S Ideal Black Langshans. Eggs from choice matings. Write for prices. Geo. Klusmire, Holton, Kan.
BLK. AND WHITE LANGSHAN. Choice mating eggs \$3.00 15; range flock, \$6.00 100. H. M. Palmer, Florence, Kan.
BLACK LANGSHAN eggs. Select matings, \$1.50 for 15. Range flock \$3.00 for 50. W. S. L. Davis, Nickerson, Kan.
BLACK LANGSHANS. Eggs, 15 \$1.25, \$1.50, by parcel post. Baby chicks 15 cents. Mrs. J. B. Stein, Smith Center, Kan.
BLACK LANGSHAN, Houdan cockerels two fifty to five dollars each. Write for mating list. E. D. Hartzell, Rossville, Kan.
LANGSHANS, Black, White and Buff. Grand matings of each breed. Eggs. Roscoe H. Gosney, Langshan Specialist, La Belle, Mo.
PLEASANT VIEW FARM. Black Langshan cockerels. Eggs scored pens \$1.50, \$2.00. Range \$6.00 100. John Bolte, Axtell, Kan.
BLACK LANGSHAN eggs from high scoring stock, \$1.50 per setting, \$5.00 per 100. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.
BUFF AND BLACK LANGSHAN eggs \$2.00 15, \$6.00 100. Positively no better Langshans in America. John Lovette, Mullinville, Kan.
TENNEHOLM LANGSHANS. The big black kind. Eggs, \$1.50 per 15, \$2.50 per 30. A few good cockerels left. Mrs. E. S. Myers, Chanute, Kan.
BIG BONED, greenish glossy, black eyed Black Langshans, scored 92 to 96; eggs \$3 for 25, guaranteed; cockerels \$3.00 each. H. Osterfoss, Hedrick, Iowa.
BLACK LANGSHANS. Prize winners, 36 ribbons in five shows. Eggs pen 1 and 2 \$2.50. Pen 3 \$1.50. Baby chicks for sale. W. L. Bush, Osage City, Kan.
EGGS FOR SALE. White Langshan, \$2.00 per 15. Black Langshan, Pen No. 1 headed by second prize cockerel at Kansas City Royal, \$2.50 per 15; Pen No. 2, \$1.50 per 15. Frank A. Vopat, Lucas, Kan.
GEESSE.
GEESSE eggs all engaged. F. B. Cole, Sharon, Kan.
EGGS from large Mammoth Toulouse geese, \$1.00 per setting of five. A few good young ganders \$2.00 each. S. H. Lenhart, Abilene, Kan.
HAMBURGS.
SILVER SPANGLED Hamburg eggs \$3.00 per 13. Dr. Pierson, Spring Hill, Kansas.

Reliable Poultry Breeders

PLYMOUTH ROCKS.

BUFF ROCK eggs, 15 \$1, 100 \$5. H. H. Carson, Muncie, Kan.

WHITE ROCK eggs, 15 75c, 100 \$3.50. D. S. Cumming, Adair, Okla.

PURE BARRED ROCK eggs, \$1.50 per 15. W. J. Rye, Albany, Mo.

BARRED ROCK eggs 15, \$1.00; \$5.00 per 100. Bertha Evans, Lyons, Kan.

WHITE ROCK eggs 7c each, 10 years a breeder. James Jensen, Kinsley, Kan.

PURE BARRED ROCK eggs, 15 \$1, 100 \$5. Mrs. H. Buchanan, Abilene, Kan.

BARRED ROCK eggs, choice stock, 3c each. Wm. Speelman, Marysville, Kan.

BUFF ROCK eggs \$1 per setting, \$5 per hundred. William Small, Wilson, Kan.

PURE BRED BARRED PLYMOUTH ROCK eggs \$1.50 per 15. Fred Warren, Todd, Okla.

BUFF ROCK EGGS \$2.25 per 50; \$1.00 per 15. J. H. Mellenbruch, Morrill, Kan.

QUALITY WHITE ROCKS. Eggs for hatching. J. A. Kauffman, Abilene, Kan.

BUFF ROCK eggs from good quality stock. Mrs. Perry Myers, Fredonia, Kan.

SHELLEY BROS.' pullet line. Eggs, 15 \$1.50, 60 \$5.00. Oscar Daub, Elmdale, Kan.

BUFF PLYMOUTH ROCK eggs, four dollars hundred. Thos. Moore, Osage City, Kan.

WHITE ROCKS. Fishel strain. Eggs, 15 \$1.25, 100 \$5.00. Mrs. Frank Powell, Buffalo, Kan.

EGGS. White Rocks exclusively, \$1.00 15; prepaid 2nd zone. Alma Kinney, Roxbury, Kan.

BARRED ROCK eggs. 15 \$1.50. Extra fine quality. Write Milton Delhl, Lawrence, Kan.

"RINGLET" BARRED ROCK eggs, four dollars per hundred. Chas. Carey, Peabody, Kan.

BUFF ROCK eggs \$2.00 per 15, prepaid. Circulars free. Ferris & Ferris, Effingham, Kan.

PURE BARRED ROCK eggs, 15 75c, 100 \$4.00. Mrs. Grace Anderson, Hiawatha, Kan., R. 1.

BUFF ROCK eggs, \$1.00 for fifteen, \$4.00 per hundred. Mrs. S. H. McNeeley, Cedar Vale, Kan.

BARRED ROCKS exclusively. Eggs, 100 \$4.50, 30 \$1.75. Catherine Beightel, Holton, Kan.

BARRED ROCK eggs \$4.00 per hundred. Fine large birds. Chas. Cornelius, Blackwell, Okla.

WHITE ROCKS. Free range. Eggs, 15 75c; 100 \$3.00. H. F. Richter, Hillsboro, Kan., R. 3.

BARRED PLYMOUTH ROCK eggs, 100 \$4.00. Setting 75c. Mrs. Julia Keim, Scranton, Kan.

BIG BONED, yellow legged Barred Rocks, 15 eggs \$1.00, 100 \$5.00. Mrs. L. A. Poteet, Butler, Mo.

BARRED ROCKS. Fine, vigorous farm flock. 50 eggs \$2. Mrs. Ernest Rowe, Jewell, Kan.

EGGS from prize Buff Rocks, \$2.00 15; good cockerels reasonable. A. L. Nice, Columbus, Kan.

FANCY BARRED ROCK eggs, mated pens, \$1.00 and \$2.00 per setting. M. P. Thelen, Russell, Kan.

PLYMOUTH ROCK eggs for sale at \$1.00 per setting, \$3.00 per 100. Ernest Peters, Lorraine, Kan.

WHITE ROCK eggs, farm range, 15 \$1.00, 50 \$2.50, 100 \$4.00. R. M. Rehm, Hutchinson, Kan., Route 1.

BAKER'S BARRED ROCK eggs, 15 \$1.00, 100 \$5.00. Dave Baker, R. No. 2, Conway Springs, Kan.

WHITE ROCK cockerels and eggs. Fine, pure white. Write W. J. Lewis, Lock Box 153, Lebo, Kan.

100 BUFF ROCK eggs \$4.00. From pens \$1.50 and \$3.00 per 15. Mrs. M. E. Stevens, Humboldt, Kan.

SELECTED PEN Barred Rocks from winners Kansas, Nebraska. Eggs, 15 \$2.00. Clay Dawson, Rulo, Neb.

PURE BRED Barred Plymouth Rocks exclusively. Eggs, 15 75c; 100 \$3.50. S. B. Shaw, R. 3, Goff, Kan.

BARRED ROCKS—Eggs \$1.00 15, \$2.50 50. Scored stock \$2.00 15. Mrs. A. M. Markley, Mound City, Kan.

WHITE PLYMOUTH ROCKS—Eggs from show winners \$1.50 per 15, 100 \$5.00. W. H. Beaver, St. John, Kan.

BUFF PLYMOUTH ROCKS—Eggs and baby chicks at reasonable prices. Mrs. Fred Miller, Wakefield, Kan.

EGGS from pedigreed Barred Rocks \$1.50 per 15, express paid. Catalog free. Gus Schaback, Atchison, Kan.

BARRED ROCKS exclusively; 8 years' careful breeding. Eggs, 15 \$1.00, prepaid. Jeff Burt, Macksville, Kan.

BARRED ROCK eggs; fine exhibition matings; fifteen eggs \$3.00, 30 eggs \$5.00. Frank McCormack, Morrowville, Kan.

BIG TYPE blue Barred Plymouth Rocks. Fine birds, none better. Eggs, 15 \$1.00, 100 \$5.00. Mrs. T. B. Mitchell, McPherson, Kan., R. No. 5.

Reliable Poultry Breeders

PLYMOUTH ROCKS.

WHITE ROCK eggs, Fishel and Bickerdike strains. Ed Clausen, Mead, Neb.

WHITE ROCKS—Scored to 94½ by Stoner. Eggs, \$1.00 15, \$4.00 100. Mrs. J. W. Hoornbeek, Winfield, Kan.

BARRED ROCK eggs. Prize winning stock. \$1.50 for 15, \$7.00 per 100. Star Breeding Farm, Elk City, Kan.

WHITE PLYMOUTH ROCKS. Great prize winners. Eggs reasonable. Write for prices. Sidney Schmidt, Chillicothe, Mo.

WARRENBURG'S Barred Rocks. Eggs, 15 \$3.00, 100 \$12. Quality makes price. O. Warrenburg, Centuria, Kan.

PURE BRED BARRED ROCKS exclusively. Eggs for hatching, 15 \$1.00, 100 \$5.00. Mrs. C. E. Moore, Horton, Kan.

BARRED ROCK eggs. 15 \$1.00, 50 \$2.50, 100 \$4.00. From pens \$3.00 and \$1.50 per 15. Mrs. C. N. Bailey, Lyndon, Kan.

WHITE PLUME Poultry Farm, Bogue, Kan. White Rocks, baby chicks, eggs; White H. turkeys, White Pekin ducks.

IVORY WHITE ROCK eggs from special matings, \$3.00 15. Grand farm flock, \$5.00 100. Minnie Clark, Haven, Kan.

BIG TYPE BARRED ROCKS. Thirty-five years' scientific breeding. Eggs and stock. A. H. Duff, Larned, Kan.

PURE BRED WHITE ROCKS. Farm range. Eggs, 15 \$1.25, 100 \$4.00. Satisfaction guaranteed. G. M. Kretz, Clifton, Kan.

PURE BRED Barred Rocks exclusively. Eggs 50 cts. per 15, \$2.50 per 100. Mrs. Jessie Seabloom, Stockton, Kan.

PURE BRED BARRED ROCKS; farm raised. Eggs, 15 \$1.25, 30 \$2.00, 100 \$5.00. Mrs. John Yowell, McPherson, Kan.

FRED HALL'S Barred Rocks have won 60 premiums in 1912 and 1913. Eggs \$2.50 and \$1.50 per 15. Lone Wolf, Okla.

WHITE ROCK eggs from birds scoring 93 to 96½ points by Atherton. 15 \$2.00, 30 for \$3.00. W. T. Blackwell, Quinter, Kan.

WHITE ROCK EGGS, best strains, extra layers, \$1 for setting, \$5 per one hundred. Mrs. E. E. Williams, Sabetha, Kan.

EGGS—Buff and Partridge Rocks. Great winter laying strain. Prices and quality right. W. F. Alden, Ellsworth, Kan.

WAGNER'S BARRED ROCK prize winners; eggs \$1.50, \$2.00. Write for mating list. Mrs. E. C. Wagner, Holton, Kan.

WHITE ROCKS EXCLUSIVELY—Bred 12 years. Eggs well packed \$1.00 per 15, \$5.00 per 100. S. M. Chestnut, Holton, Kan.

WHITE P. ROCKS. Eggs for hatching. Range, 100 \$2.50. Excellent stock. Mrs. C. E. Peterson, Windom, Kan., R. 1, Box 65.

EGGS from prize winning B. R. 75 cents per 13, \$4.00 per hundred. Twenty years' breeding. G. E. Allegee, Osage City, Kan.

BARRED ROCKS, large type, bred for winter laying. Eggs, \$1.00 per 15, \$5.00 100. Rosa M. Shreckengast, Kaw City, Okla.

MAMMOTH Snow White Rocks. Bred 10 years from world's best strains. Egg circular free. Charles Vorles, Wathena, Kan.

THOMPSON'S "Ringlet" Barred Rocks. Best layers, finely barred. Fifteen eggs \$1, 100 for \$5. Tracy's, Conway Springs, Kan.

PURE BRED BARRED ROCKS exclusively. Eggs \$1.00 per 15, \$4.00 per 100. Safe arrival guaranteed. C. E. Romary, Olivet, Kan.

WHITE IVORY ROCKS. Two pens mated from prize winners past season. Settings reasonable. A. F. Holmgren, Lincolnville, 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.

BARRED ROCKS, Blue Jacket Ringlets. Eggs for hatching. Pen, \$2.00 15; utility, \$1.00 15, \$5.00 100. Mrs. P. A. Pettis, Wathena, Kan.

BARRED ROCK eggs. Cockerels from choice scored stock; red eyes, yellow beaks and legs. Latham strain. Mrs. H. Schmidt, Humboldt, Kan.

BARRED PLYMOUTH ROCK eggs, thoroughbred, fifteen \$1.25, hundred \$5.00 prepaid. Nebraska, Kansas. Ethel Richardson, Belleville, Kan.

BARRED P. ROCKS exclusively. 6 years' careful breeding for layers; good laying strain. Eggs 15 \$1.00. Mrs. F. L. Branch, Pawnee Station, Kan.

WHITE ROCKS only for 16 years; large flock. Can fill large orders promptly. \$1.00 per 15, \$4.00 per 100 eggs. Josias Lambert, Smith Center, Kansas.

PLYMOUTH ROCKS that are Barred. State Show winners. Both matings. Eggs \$2.50 per 15 up. Write for mating list. C. V. LaDow, Fredonia, Kan.

BARRED ROCKS—Fine birds chosen especially for color and size. 15 eggs for \$1.00. C. D. McIlree, Lorraine, Kan. Member Kansas Poultry Federation.

SHELLEY BROS.' BARRED ROCKS won 82 premiums at Kansas' largest shows—35 firsts, specials and sweepstakes. Eleven premiums last state and central Kansas shows. Eggs, 15 \$3.00, 30 \$5.00. Elmdale, Kan.

WHITE ROCKS, pure white, big boned, farm raised. Baby chicks 15c a piece by the 50 or 100, 20c a piece by the doz. Eggs \$1.00 for 15, \$2.50 for 50, \$5.00 for a hundred. Good laying strain. Prize winners. B. E. Miller, Newton, Kan.

Reliable Poultry Breeders

PLYMOUTH ROCKS.

BUFF P. ROCKS. Eggs from prize winners, high scoring birds, won silver cup for best pen in American class. Write for special price. J. S. Humphrey, Pratt, Kan.

BARRED PLYMOUTH ROCKS exclusively. Ringlet strain; good layers, rich color, fine, narrow, regular barring to the skin and good size. \$2 per 15 eggs. L. P. Coblenz, La Harpe, Kan.

BUFF ROCKS exclusively for eleven years. Eggs from high scoring pens, \$3 per fifteen, \$5 per thirty. Farm range, \$3.75 per hundred, \$2 per fifty. Mrs. Homer Davis, Walton, Kan.

PARTRIDGE PLYMOUTH ROCK stock and eggs for sale. Prize winner of Chicago, St. Louis, Mo., Detroit, Boston and many other places. All farm raised. Paul Lafromboise, Mt. Pleasant, Mich.

PARTRIDGE ROCKS. Noftzger strain. Beauty eggs. Chks. for sale. 30 eggs \$5. W. Wyandottes, R. C. Reds, B. Rocks 50 eggs \$5. Poland Chinas. Polled Shorthorns. Centerdale Stock Farm, Pratt, Kan.

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.

BARRED ROCKS—68 premiums, Topeka, Manhattan, Clay Center, Denver, 24 regulars, 9 firsts, 4 specials in the show season. Eggs, 15 \$3.00, 30 \$5.00. Utility, 12 premiums, 15 \$1.25, 60 \$4.00, 100 \$6.00. Mrs. D. M. Gillespie, Clay Center, Kan.

TURKEYS.

WHITE HOLLAND turkey eggs, \$2.00 for 11. Mrs. Grace Dick, Harlan, Kan.

MAMMOTH White Holland turkey eggs, \$2.50 per 11. Mrs. Ada Poindexter, Medicine Lodge, Kan.

EGGS from prize winning Mammoth White Holland turkeys, \$2.50 per setting. S. H. Lenhart, Abilene, Kan.

BOURBON RED turkey eggs, \$3 for 11; with directions for raising them. Mrs. C. B. Palmer, Uniontown, Kan.

EGGS. White Holland turkey 20c each. W. C. Geese 15c each. Buff Orpingtons 10c each. C. A. Hasenyaeger, Bern, Kan.

TURKEYS—Pure Mammoth Bronze. Tom 40 lbs., hens to 25, pullets 16-19; some score 97. 10 eggs \$4. Cecil McArthur, Walton, Kan.

BOURBON RED turkeys. Mostly two-year-old breeders. Standard size and markings. Eggs \$3.00 per 11. Stover & Myers, Fredonia, Kan.

A FEW SETTINGS of Bourbon Red turkey eggs, \$3 per 11. Light fawn-white Indian Runner duck and Kellerstrass White Orpington eggs, 13 \$1.50. Ernest Bailey, Luther, Okla.

ANCONAS.

MOTTLED ANCONAS exclusively. Eggs, 15 \$1.00, 100 \$5.00. Lucie House, Haven, Kan.

ANCONAS pay because they lay. Dr. Fred Jones, Girard, Kan.

PRIZE WINNING Mottled Anconas. Eggs and baby chicks. Circular. W. Hardman, Frankfort, Kan.

MOTTLED ANCONA eggs \$1.00 per 15, \$3.00 per 50, \$5.00 per 100. Prize winners. Walter Wright, Bronson, Kan.

13 YEARS a breeder of Anconas from best imported and domestic strains. Eggs. Adaline Gosler, Matfield Green, Kan.

MOTTLED ANCONAS. 75c per setting of 15, \$3.00 for 50 eggs, or \$5.00 per hundred. Mrs. W. H. Hoskinson, Vinland, Kan.

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BUFF COCHIN eggs \$2.00 and \$3.00 per 15. Mrs. L. O. Housel, Smith Center, Kan.

FOR SALE—Buff Cochins of quality. Send for mating catalog. J. C. Baughman, Topeka, Kan.

SEVERAL VARIETIES.

R. C. R. I. RED, Pekin ducks, Toulouse geese eggs. C. Shumway, Manhattan, Kan.

STOCK, EGGS, BABY CHICKS. Leading varieties. Circular free. K. I. Miller, Box B, Lancaster, Mo.

LIGHT BRAHMA, White Wyandotte, Runner duck, Bronze turkey eggs. Emma Ahlstedt, Roxbury, Kan.

ROSE COMB REDS, Silver Laced Wyandottes, Eggs 17, \$1, 100, \$5. Mrs. Ola Elliott, Delphos, Kan.

BLUE ANDALUSIAN and R. C. Rhode Island Red eggs, \$1.50 and \$1.00 for 15. Marilla Officer, Hillsdale, Kan.

BREEDER AND JUDGE of all land and water fowls. Terms and catalog free. C. W. Brehm, Route 4, Harvard, Neb.

SINGLE COMB Buff Orpingtons. Single Comb Black Minorcas. Eggs and birds for sale. E. L. Hadley, Trumbull, Neb.

S. C. BUFF LEKHORNS, Blue Andalusians. Eggs, \$1.25 to \$5.00 15; \$5.00 100. Circular free. John A. Huber, La Crosse, Kan.

BARRED ROCKS, Pekin ducks, Embden geese, Bronze turkey eggs. Circular on request. Mrs. John Steele & Son, Chillicothe, Mo.

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SEVERAL VARIETIES.

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

EGGS! EGGS! EGGS!—From Brd. Ply. and W. F. B. S. chickens, \$1.50 per setting. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.

WHITE ROCKS, White Wyandottes (Fishel) eggs \$2.00 setting or two settings \$3.00. Mrs. W. E. Cochran, 1916 Cypress, Kansas City, Mo.

STANDARD BRED REDS, Single Comb Barred Rocks. Bred for utility. Eggs, 15 \$1.00, 50 \$3.00, 100 \$5.00, 12 years a breeder. E. B. Dorman, Paola, Kan.

FAIRVIEW POULTRY YARDS, Americus, Kan. Black Langshans, Buff Orpingtons and White Rocks. Eggs 75c to \$1.25 per setting. Baby chicks reasonable.

EGGS from White Rocks, White Wyandottes, White Holland turkeys, White Cochins bantams, Pekin ducks. Have some fine Spitz pups. A. T. Garman, Courtland, Kan.

EGGS. White, Buff, Barred and Partridge P. Rocks, Buff Orpington, White Wyandotte, S. C. Rhode Island Reds. Mammoth Bronze turkey. Free catalog. A. D. Murphy & Son, Essex, Iowa.

EGGS—All three kinds of pure Indian Runner ducks; white egg strains. S. C. Black Minorcas, S. C. White Leghorns. Eggs guaranteed. Write for prices. D. M. Christy, Blackwell, Okla.

SILVER LACED WYANDOTTES, Rose Comb, farm raised, well laced, big bone birds. Can ship from Barnes or Hanover. Eggs 75c per 15, \$4.00 per 100. Mrs. Earl Ballard, Hanover, Kan., No. 3.

EGGS FOR HATCHING from pure bred Mammoth Bronze turkeys, \$2.00 per 6, \$4.00 per 12. Rouen duck, Barred Rock and Brown Leghorn eggs, \$1.50 per 15, \$2.75 per 30. The Hillside Farm, St. Peter, Minn.

WHITE WYANDOTTES. Fancy stock—Pen No. 1, hens scoring to 94½, cockerel 95. Eggs \$2.50 setting. Farm range—cockerel 94 points, \$1.25 setting, \$5.00 hundred. Mammoth Bronze turkeys, \$2.50 setting. I. B. Pixley, Wamego, Kan.

ROSE COMB RHODE ISLAND RED eggs. Pen A, \$1.50 per 15; Pen B, \$1.00 per 15. Barred P. Rocks, range stock, 75c per 15; \$4.00 per 100. Light fawn and white Indian Runner ducks \$1.00 per 12. C. J. Woods, Chiles, Miami, Kansas.

SUNNY DELL Farms purebred poultry eggs. S. C. R. I. Reds, big bone, red to skin, \$1.00 15, \$5.00 100. S. C. B. Leghorns. Excellent layers, \$1.00 15, \$4.00 150. Bourbon Red Turkeys, extra fine color, big, hardy and gentle, \$3.00 12. Mrs. T. A. Wooddall, Fall River, Kan.

HATCHING EGGS from A-1 stock of Buff and Barred Rocks, S. C. Br. Leghorns, Indian Runner ducks, at \$1.50 per 15. M. B. turkeys \$3 per 7 or \$5 per 15. Write for prices on incubator lots. Exhibition Buff Rocks \$5 per 15. Houchin Ranch, Poultry Dept., Isabel, Kan.

FOR SALE! Eggs, eggs, eggs. S. C. Buff Orpingtons, Light Brahmas, and R. C. R. I. Reds, Buff, White and Partridge Cochins, Indian Runners and Rouen ducks, White Chinese, Toulouse and Embden geese. The above is pure bred and first class. Prices reasonable. Write your wants. Chiles Poultry Yards, Chiles, Kan.

THE LINWOOD Poultry Farm, Ewing, Mo., offers eggs for hatching from blue ribbon winners, S. C. W. Leghorns, S. C. R. I. Reds and Indian Runner ducks. I guarantee fertility and eggs from pens ordered. Send for free catalogue; also breeder of English blood hounds, American fox hounds and Duroc-Jersey hogs. Joseph Keller, prop.

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 highest quality at let live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

Cook's Barred Rocks

My last exhibit at Topeka in Jan., 1911, I won 1st, 3rd chl.; 2nd cock; 4th, 5th hens; 3rd pen, silver cup for best display, and GRAND CHAMPION MALE. TOPEKA CHAMPION was declared by expert opinion to be beyond question the best cockerel ever shown in the west; he won \$34 in cash, a beautiful silver cup and silver medal for best cockerel in the show. His blood greatly predominates in my flock. Better try some eggs which I am selling at \$1.50, \$per 15; \$3.50 per 50 and \$6 per 100. CHAS. J. COOK, Box 8, Marysville, Kan.

DR. PIERSON'S No Cure No Pay Poultry Cholera Remedy, \$1.00 per box. SPRING HILL, KANSAS.

DR. PIERSON'S Poultry Insect Powder, "Does the Work" 75c per box. DR. PIERSON, Spring Hill, Kansas.

Poultry Magazine Big 40 to 80 page illustrated monthly magazine of practical common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising 4 months on trial only 10c. Poultry Culture, 904 Jackson, Topeka, Kan.

The WOMEN FOLKS

Conducted by 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.

Makes Water Carrying Easier.

If the windmill is located at a place unhandy from the house, which is often the case on the farm, I find it a great help to have a small express wagon and creamery can to bring the water in. One can bring four bucketsful in the can with but little exertion. This is especially handy on wash day.

Pence, Kan. Thressa Kough.

For Women Who Like Gravy.

Here is something that came to me a few days ago, and it pleases me so well I should like to pass it on to other lovers of gravy: Take 1 pound of dark brown sugar and add 1 cup butter. Cover with water and boil and boil. Keep adding water as it gets too thick. It will grow darker until it is a rich brown, almost black. When finished it should be the consistency of cream. Set it off to cool, and skim off the fat, then bottle the liquid and keep on hand for browning gravies. It will be a dark brown, and of a delicious flavor. This quantity will last an average family nearly a year.

Mrs. W. H. B.

Rule for Breakfast Muffins.

[Prize Recipe.]

I have found so many good recipes on the Woman's Page that I want to send one that may help others. We always like warm bread for breakfast, and for one kind I make muffins as follows: One well beaten egg, 1 tablespoon sugar, 1 tablespoon melted butter, 1 teaspoon salt, 1 cup sweet milk, 2 cups flour, 2 rounded teaspoons baking powder. This amount makes just a dozen muffins baked in gem pans. Sometimes I use 1 cup white and 1 cup graham flour for graham muffins.

Mrs. Charles D. Thompson.

Webb, Colo.

A Useful Wall Pocket.

I have a wall pocket which I find very handy. It measures 16 by 22 inches. At each end is a long, narrow pocket which is convenient for scissors. Next to these are smaller pockets, one for pen, the other for lead pencil. In the center at the top is a pocket the size of a paper of pins, and it is used for that purpose. Just below is another patch pocket the size of a large needle case. Below that one is a patch measuring 4 by 8 inches that I find very convenient for day book, bank book, etc.

Pence, Kan. Thressa Kough.

How To Make Buns.

[Prize Recipe.]

Take a quart of bread sponge, measured when light and foamy. Add 1 egg, 1 scant cup of sugar, 1 cup butter, and 1 cup of warm, sweet milk. Mix into a large loaf as soft as can be handled easily, and let rise until very light. Knead down and let rise again, then mold into ordinary sized biscuit. Let them rise again, then press them down flat and in the shape of buns; let rise until very light and bake. Give them plenty of room in the pan, as when they are pressed flat they need room to spread out in. This will make about three dozen buns. They are delicious, and if kept in a tin bread box will keep fresh for several days.

Mrs. Lee Allen.

R. 1, Eskridge, Kan.

Children Need Fairy Tales.

Replying to "Reader," Oswego, Kan., would say that it seems to me fairy tales are a necessary part of the education of our children. They fill the mind with beautiful fancies, leaving no room for bad thoughts, and the child who reads many fairy tales will gain a conviction of right and wrong not to be

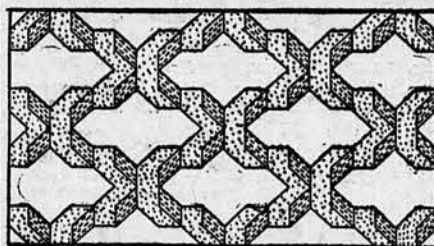
had in any other way. To quote Eva March Tappan: "And if one would demand, also, a moral reason for knowing them (fairy tales) well, with the familiarity which comes only from many childish perusals, it is found in the stern justice that lies behind all the charming fancies."

A child needs to know biography, that he may respect and imitate; but he needs more than a knowledge of facts, no matter how interestingly they may be told. The imagination plays an important part in everyday life. Fancy, ability to see that which is invisible, must be cultivated; and here the fairy story is a real help.

Jennings, Kan. Pearl Chenoweth.

Endless Chain Quilt Pattern.

The beautiful quilt known as the Endless Chain is made of two colors set together with white. It may look hard to make, but really nothing is easier. Perhaps it will make it plainer to take a lead pencil and draw lines from each point in the illustration down to the next point below, then draw lines cross-



ENDLESS CHAIN QUILT.

ways from each point to the next point. When you have done this you will see that it is all divided into squares. To make your pattern take a plain sheet of wrapping paper and draw squares on it the size you want in your quilt. Then all you have to do is to make them like the picture and your pattern is ready, squares and diamonds and triangles.

Hill City, Kans. Fannie Sandlin.

Baked Ham (Southern Style).

[Prize Recipe.]

Choose a good sized ham with a moderate amount of fat and wash thoroughly, using a vegetable brush. Cover with cold water and let soak for 24 hours, then wipe dry. Put the ham in an agate kettle, cover with sweet cider and set on top of the stove, allowing it to simmer gently 15 minutes for each pound of meat. Then let it cool in the liquid in which it has been cooked. Remove the skin and with a dry cloth take up all moisture from the fat. Stick cloves into the fat at about inch spaces, gash the top and rub it thoroughly with brown sugar. Put into dripping pan and let it cook until it is crisp and brown on top, basting every 10 minutes with cider and drippings.

Garnish with squares of jelly. Vinegar and water may be used in place of cider.

Bertha Thompson.

R. 4, Parsons, Kan.

What To Do For Rancid Butter.

A Mail and Breeze reader, replying to the query of two weeks ago on how to sweeten rancid butter, says to put the butter on the stove and melt it, then slice a potato into it. Leave it on the stove till the edges of the potato are brown and beginning to curl, then skim out first the potato then the butter, and the butter will be sweet and good. The salt will have dropped out in the melting, so more will need to be added.

Another friend, Mrs. Ed Nelson, of Walter, Okla., says: Iowa Reader may very easily sweeten rancid butter by sprinkling it with soda and working it in, then washing several times with sweet milk. Where the butter is not too rancid two or three washings of milk will be enough, but of course the worse the butter the more washing it will need. Try it, and you will have butter as fresh and sweet as though just made.

Frame for Drying Yeast.

[Prize Letter.]

I made a light frame from narrow strips of half-inch lumber and tacked screen wire over it. When a cloth is laid over this and the yeast spread on the cloth it dries much quicker than if it were placed on the bread board or on plates, since the air can get to all sides of it. Once using will pay for the trouble of making, and you will never want to be without it again.

Mrs. C. H. Thompson.

Stillwater, Okla.

Dressmaking Lessons Free

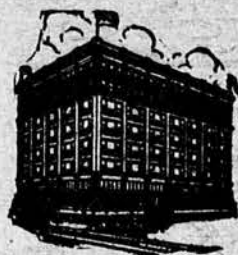
Complete Illustrated Course of Lesons Given to Women Readers of This Paper for a Short Time Only.

We have just published in one large volume one of the most valuable and most comprehensive courses of instruction in home dressmaking ever written. This course of lessons covers practically every phase of the subject of dressmaking. It tells you how to make most every garment, from the simplest, house apron to the most elaborate evening gown.

This valuable book, "Every Woman Her Own Dressmaker," will be found of great assistance to beginners as well as experienced dressmakers. You can turn to this book and find a satisfactory answer to practically every dressmaking question which might come up. It illustrates and fully describes 200 very latest styles for ladies and children. It gives valuable instructions on fitting and finishing—instruction needed by every woman. Here are some of the interesting subjects taught in these lessons:

How to sponge and shrink wool goods.
How to shrink wash materials.
How to make a tailored coat at home.
How to make a plain shirt waist by the newest and easiest method.
How to make a boned lining.
How to make stylish suits, skirts, waists, dresses and dressing saques.
How to make wrappers, kimonos and underclothes.
How to make children's coats and school clothes.
How to make baby clothes, long and short.

We are giving these valuable dress-making books away absolutely free just to introduce our popular publication. Send us your name and address at once, together with 4 cents in stamps to cover mailing expense, and secure one of these valuable books before the offer is withdrawn. Address ARTHUR CAPPER COMPANY, Dept. DM-11, Topeka, Kansas.



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THE MILLS DRY GOODS CO.

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Feather Bed Bargains

Send us this ad with \$10.00 Money Order and we will ship you one first-class, New 40-pound Feather Bed; one pair 6-pound New Feather Pillows, worth \$2.50; one 6-pound New Feather Bolster, worth \$2.50; and one pair Full Size Blankets, worth \$3.50, all for \$10.00. All New goods and no trash. Biggest bargain ever offered. Satisfaction guaranteed. This offer is good for a short time only. Mail money order now or write for circular and order blanks. Reference, American Exchange National Bank. Address SOUTHERN FEATHER AND PILLOW CO., Dept. 54, Greensboro, N. C.

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SEND FOR THESE: 25 SPLENDID GAMES, Checkers and Chess with Men, Dominoes, Fox & Geese, 9 Men Morris, Authors—48 cards, 22 Songs, 19 Fun Cards, 48 Magic Tricks, 10 Great Puzzles, 24 Jokes & Riddles, 58 Money Making Secrets, 12 Love Letters, 175 Ways to Win, How to Charm Others, to Tell Fortunes and 500 other things to entertain the entire family all winter. This 50c Package sent for 10 cts. SAMUEL COOPER & CO., Box 43, Horton, N.Y.

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

YOUR OPPORTUNITY is NOW in the Province of SASKATCHEWAN Western Canada

Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable. New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homestead left. A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead March, 1906, with about \$1000 worth of horses and machinery, and just \$35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 50 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta. Send at once for Literature, Maps, Railway Rates, etc., to

Canadian Government Agent

125 W. 9th St., KANSAS CITY, MO. or Address, Superintendent of Immigration Ottawa, Ont., Canada



WONDERFUL!

Greatest Sewing Machine Offer!!

WE want to tell you about our offer which makes it possible for every woman reader of our paper to secure one of these magnificent \$40 "Gold Medal" Sewing Machines without cost—and without any canvassing or soliciting or public work of any kind. It is the most liberal, most attractive, most astonishing offer ever made. This beautiful Sewing Machine may be yours almost for nothing. Of course we expect something from you in return for the machine—but we do not ask you to go out and "peddle" anything, nor do any sort of disagreeable work in order to get

Will You Send 10 Names of Friends to Get This "Gold Medal" Sewing Machine FREE

Don't send the names until you get the free instructions about our Club Plan. We have placed more than a thousand Gold Medal machines in the homes of our readers on our easy-payment, no-money-down Club Plan. In order to increase the membership of our club to 2,000 immediately we are making a special proposition to first members in certain localities which makes it possible to secure a Gold Medal Sewing Machine absolutely free. The Gold Medal is constructed throughout

of best grade materials and is fully warranted for 10 years. The Gold Medal is worth \$40, but we sell it for just about half this price on payments amounting to only a few cents each week—and on our new Club Plan first members have a chance to secure the Gold Medal Sewing Machine absolutely free. Send your name and address today for large illustration and complete description of the machine and our liberal first member Club plan. Address

MAIL AND BREEZE SEWING MACHINE CLUB, 301 Jackson St. Topeka, Kan.

HOME DRESSMAKING

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



The girls' dress illustrated in No. 5734 is cut in sizes 6, 8, 10 and 12 years. Age 8 requires 4 yards of 36-inch material and 2 1/4 yards of braid.

5884—The misses' and small women's middie blouse No. 5884 is slipped on over the head, and has a removable shield to fill in the neck which may be worn or not as one prefers. The pattern is cut in sizes 14, 16 and 18 years. Size 16 requires 2 7/8 yards of 36-inch material with 7/8 yard of contrasting goods.

Ladies' dress No. 5944 is made with a four-gore skirt. The pattern is cut in five sizes, 32 to 40 inches bust measure. Skirt of dress size 36 measures 2 1/2 yards around lower edge. A dress of this size needs 5 7/8 yards of 36-inch goods.

USE THIS COUPON FOR PATTERN ORDERS.

Farmers Mail and Breeze, Pattern Department, Topeka, Kan.

Dear Sir—Enclosed find cents, for which send me the following patterns:

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

Name

Postoffice

State

R. F. D. or St. No.
BE SURE TO GIVE NUMBER AND SIZE.

Women Attend Movable School.

A letter received a few days ago from one of our good friends in Leoti gives the following account of the movable school in domestic science which was held there last week.

"A movable school under the auspices of the State Agricultural college is being held here this week. The city hall has been fitted up for this work with stoves, tables, dishes, etc. Over 30 women, the most of whom are housekeepers, are enrolled. Some of them have come as far as 10 and 14 miles and their husbands are 'batching' in order that the housewives may have the benefit of the instruction given.

"The first part of the morning is devoted to the study of foods; that is, their composition, use in the body and

nutritive value, also the best methods of cooking. This is followed by the preparation of these foods, after which they are served and then criticized by the teacher.

"The afternoons are spent in sewing. The class works buttonholes, takes measures and drafts patterns according to their own measurements. This work is interspersed by general talks on dress and the altering of boughten patterns to fit the form. The students are very enthusiastic, and the entire community is giving its support to the work. Mrs. Mary Lane Simmons from the agricultural college is conducting the school."

Raising Cannas From the Seed. [Prize Letter.]

Perhaps many of the Farmers Mail and Breeze readers would be glad to learn how to have a bed of beautiful cannas at much less expense than would be incurred if bulbs were used. When the heavy spring work comes on there will be little time to bother with them. But the woman who takes time to germinate the seeds now will be amply rewarded by masses of gorgeous bloom later in the season.

Some people plant the seed of the canna as it comes from the florist, expecting the tiny germ to break through its hard protective coat; but if it finally does succeed in breaking through it does it so late that it does not mature and bloom.

Having procured the seeds drop them in a cup and pour hot water over them, then listen. You can hear them snap or pop when the hard covering breaks. Set the cup on the back of the range until the water cools, then take out all that have a small black or brown place puffed up or loosened. Some will be left that have not opened. Repeat the process of pouring on hot water until as many as possible are opened, each time removing the opened ones before putting on more hot water. It has been my experience that there will always be a few seeds that will not open.

With a knife carefully remove the puffed place and a tiny brownish white germ will be seen. If the surface of this germ is convex, or rounded, the germ is good and will grow; but if concave, or sunken, it will not. Place the good seeds in a box of good garden soil having drainage, planting not too deep, and being sure to place the seed upon its side, as both root and stem start from the same end.

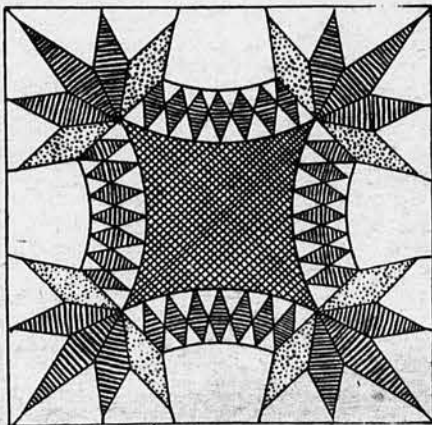
Transplant when two or three leaves appear, giving more room and deeper soil. Finally, when all danger of frost is past, transplant to the open ground. The soil of the bed must be rich and deep.

Grace B. Herzberg.

Yorktown, Ia.

New Design for Quilt Block.

A beautiful design for a quilt has been sent in by Mrs. E. T. Livesay of Rocky Ford, Colo. She gives it no name, but it is quite as pretty without. The pieces that are striped in the illus-



Made in Three Colors.

tration are red. The dotted pieces are green, and the square in the center is pink. The block is set together with white. The size of the block finished is 12 inches.

Try This Furniture Polish.

Take 1/2 pint sweet oil, 1/2 pint lemon juice and 1/4 pint cornstarch. Mix all well together, put in a bottle, and it is ready to use any time. This cleans and polishes the furniture better than any you can buy.

Mrs. Rosa M. Thorpe.

R. 1, Fulton, Kan.

For Dainty Girls or Husky Boys

"Tess and Ted" School Shoes for Girls and Boys

Public School authorities declare that many of the ills of childhood are due to badly fitting shoes, but "Tess and Ted" School Shoes are recognized as the ideal footwear for children.

These famous shoes are made in about 100 different styles for boys and girls of all ages. They are designed to fit properly and the best of leather is put into every shoe. Ask to see Style 3385, for girls.

"Tess and Ted" School Shoes look better, fit better, and wear longer than ordinary shoes made for children. You may pay a few cents more for them, but the cost per day is less because they last longer.

Our 23 big "Star Brand" factories employ 10,000 expert shoemakers. The most skilled artisans on children's shoes have been selected to make "Tess and Ted" School Shoes.

"Tess and Ted" and other "Star Brand" Shoes are sold by 20,000 good merchants. Don't just go into ANY store and ask for them, but hunt up the "Star Brand" dealer, or write to us for name of nearest merchant who sells them.

Beware of shoddy shoes. Always insist upon having "Star Brand" Shoes. Every pair is made of good leather. No substitutes for leather are ever used.

This Star on Every Heel
"Star Brand Shoes Are Better"

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MODERN apartment building in steel district near Pittsburg. Want farm. N. Ruth, Morland, Kan.

WANT AUTOMOBILE for 1/4 section of land. Trade 320 acre relinquishment for auto. T. W. Paschall, Holly, Colo.

30 HORSE POWER five passenger Kissel automobile in good condition, to trade for live stock. Ira McSherry, Meade, Kan.

TWO good 1/4 sections to trade for groceries and merchandise. A good restaurant and southwest Kansas land for sale cheap. Box 113, Garfield, Kan.

WE HAVE something you may want. You may have something we can use. We handle trades on land, merchandise, autos and stock. Write us. Demaray & Paschall, Holly, Colo.

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MEN AND WOMEN wanted for government jobs. Write for free list of positions open. Franklin Institute, Dept N 53, Rochester, N. Y.

WILL PAY reliable women \$250.00 for distributing 2,000 free packages perfumed soap powder in your town. No money required. O. Ward & Co., 218 Institute Pl., Chicago.

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WANTED—Reliable men in every County to sell nursery stock. Liberal terms. Outfits free. Experience unnecessary. Write F. H. Stannard & Co., Ottawa, Kans.

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.

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.

GOVERNMENT positions open to men and women. \$90.00 month. Annual vacations. Short hours. No "lay offs." Parcels post means thousands of postal appointments. "Pull" unnecessary. Farmers eligible. Write immediately for free list of positions open. Franklin Institute, Dept N 53, Rochester, N. Y.

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AGENTS—\$173 in two weeks, made by Mr. Williams, Illinois, selling the Automatic Jack. Combination 12 tools in one. Used by auto owners, teamsters, liveries, factories, mills, miners, farmers, etc. Easy sales, big profit. Exclusive county rights if you write quick. Automatic Jack Company, Box O, Bloomfield, Indiana.

LOCAL REPRESENTATIVE WANTED. Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. All or spare time only. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and become independent for life. Write at once for full particulars. National Co-Operative Realty Company, L-157 Marden Building, Washington, D. C.

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ROD your own buildings. Any number of feet at wholesale prices. Harvey Kinzie, Hiawatha, Kan.

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OLIVER VISIBLE TYPEWRITER for sale cheap. Perfect condition and does splendid writing. Could send on trial. Write to Charley Rickart, Route 5, Rosedale, Kan.

MISCELLANEOUS.

WANTED—150 head of cattle and 25 head of horses for pasture. L. J. Farrell, Nadeau, Kan.

MARKET PROBABILITIES

Cattle Market is Practically in Stockmen's Hands With Packers Unable to Break it on Any Pretext—Hogs Rule Ready—Sheep Reached High Level of Year Last Week and Good Demand For Mutton is Expected to Hold up Prices

[Written Specially for the Farmers Mail and Breeze.]

Liberal receipts of fat steers Monday weakened the market about 10 cents, but demand for butcher grades remained active at firm prices. Stock and feeding grades were scarce and prices firm. The liberal receipts of fat steers were caused by the approaching farm work, better country roads, after two weeks of rain and the improving tone in the market late last week. More tidy weight heifers sold above \$8 than for some time past.

The cattle market last week brightened up some, and naturally believers in higher prices are sure another general advance is in store. On the other hand the bears see many reasons why there should be a drop in prices. Between the two is about the course of the market. Prices are already high, and further advances mean higher retail prices for beef and a natural reduction in demand. At the same time feed lot supplies have dwindled to small proportions, and killers stocks of beef are small. One important factor in increased demand will be improved railroad transportation east. For nearly three weeks past shipments of beef have been far below normal, and surplus supplies have been absorbed. The renewal of normal demand will have to be supplied from Chicago and river markets, consequently killers will have to increase their orders. Last year the upturn in the market started in April and this year similar conditions are expected by many. Proposed tariff revision now seems to have less force in the market than two weeks ago. Packers worked overtime to make it a factor in reducing prices, but holders of fat cattle see their strong position based on the law of supply and demand. From now on they can control the market, if they guard against crowding demand.

The Course in Steer Prices.

A run of 28,000 cattle in Chicago Monday of last week, together with fairly liberal supplies elsewhere turned steer prices down, but on Tuesday trade strengthened moderately and in the next few days the early loss was organized except in Chicago where some of the plain heavy kinds held to the low level up to the close and 10 to 20 cents under the close of the preceding week. Smooth, tidy weight, well fattened cattle have the call over other classes, and the rough heavy kinds are the hardest to move. Packers are on a bargain hunt and any class that approaches relative cheapness is snapped up quickly. Heavy finished steers are not plentiful, but they have not sold at the usual April premium. For the bulk of the cattle it is \$8 to \$8.75. The Chicago top price was \$9.20 and elsewhere \$8.85, though \$9 would be paid at all points if the proper kinds were offered. Some caked grassers from Southern Texas have sold as high as \$7.25 and the top prices for dry fed steers from below the quarantine line ranged from \$8.40 to \$8.65. Oklahoma steers sold at \$7.40 to \$8.75, and Colorado steers at \$7.75 to \$8.65.

Butcher Cattle Prices Stronger.

With expanding shipping demand, due to improved railroad service through the

MISCELLANEOUS.

MISSOURI AUCTION SCHOOL, largest in world. Own largest living mule. 1404 Grand, Kansas City.

STOP DISTEMPER—Send 50 cents for powders to prevent and stop distemper. Coan Drug Co., Barnes, Kan.

HARNESSES—Our harness is correctly made and prices right. Write for catalogue. Ed Klein, Lawrence, Kan.

TUITION may be paid out of earnings after course is completed. Dougherty's Business College, Topeka, Kan.

BAD DEBTS collected without suit. Everywhere. 24 years exclusively in this work. Bank references given. N. S. Martin & Co., Arkansas City, Kan.

LOUISIANA pure sugar cane syrup. Put up at the mill in sealed pails. No glucose or any sulphur dioxide in our syrup. 12 one gallon pails for \$8.00. We pay all the freight. Mary & Tuma, Washington, Louisiana.

POULTRY MAGAZINE—Big 40 to 80 page illustrated magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10c. Poultry Culture, 904 Jackson, Topeka, Kan.

STOP THOSE HEAVES! Have you a horse you cannot sell on account of heaves? If so, let me send you Baird's Heave Remedy. Does not shut them down, but cures them. Absolutely guaranteed. Write for particulars. Baird Mfg. Co., Dept. 11, Purcell, Okla.

LEARN how to double your egg yield; how to mate and breed for best results; how to produce and market \$100 fowls. Get on the "big money" side of the poultry business. This is not a book-selling scheme. Full information free. Address R. V. HICKS, Dept. L, 801 Jackson-st., Topeka, Kan.

recently flooded areas, prices for butcher cattle have been advanced 15 to 25 cents. At the higher prices demand seems more urgent than when the market was at the low point two weeks ago. Tidy weight heifers, and steers and heifers mixed figured conspicuously in the demand. A good many bunches sold at \$8 to \$8.65, and prime kinds would attract better prices. The medium to good heifers are selling at \$7.25 to \$7.95. Cows are quoted at \$2.75 to \$7.75. Veal calves are selling at \$6 to \$11, the highest prices being paid in St. Louis. Bulls are quoted firm at \$4.50 to \$7.50.

Restricted Feeder Trade.

The small supplies of stockers and feeders received at the principal markets last week, naturally restricted the volume of business. However demand was active, and prices were quoted higher. Some prospective buyers have become discouraged by the continued light receipts and given up the idea of getting cattle before fall. As cattle take on grass sap in the next few weeks, prices will be shaded some, but it is the general opinion that no bargains will be on the thin cattle counter this summer.

Hog Market Shows Hesitation.

The hog market opened strong to 5 cents higher on Monday but towards the close the advance was lost. The top price in Chicago and St. Louis was \$9.40, Kansas City \$9.25, St. Joseph \$9.20 and Omaha \$9.05.

The hog market is still unable to get very far from the price level of preceding weeks. Shippers became a very strong factor in the market last week, and prices for light weights were boosted, but the packers still hold the final say on the weightier class. St. Louis and East prices were \$9 and better, West they were both below and above \$9, with the top \$9.20. Chicago and St. Louis reported \$9.40 top. Packers are still hoping to keep the price of lard hogs under \$9, but there is a strong tendency to boost them above that level. Many farmers figure that corn is worth more fed to hogs than sold for cash, and many market men argue that the supply of fat backs will continue beyond seasonable demand. The light weight hogs which are selling at a big premium are going for the fresh pork trade, and while that reduces future supply of hogs, it cannot be counted on as lasting long in fresh pork channels. One factor to be considered is that country roads have been bad for some time, and as soon as they improve some very large receipts may be expected. The eagerness to be undisturbed during the rush of farm work will be a further incentive to ship hogs in the next few weeks.

Lamb Market Unsettled.

The season of variety is here for the sheep market. A few carloads of early Texas grass fat wethers sold last week at \$6.25, clipped grades are moving freely, and the supply of unshorn stock is in the last lap of marketing. All told there is a great difference in quality and dress. However, the disrobed kinds are selling 75 cents to \$1 under the unshorn class, and the grassers have not appeared in sufficient numbers to be of any material consequence in the price making. Early last week lamb prices were elevated slightly to \$9 or better, but later fell back 25 to 35 cents, closing with a slight net loss for the week. Sheep persisted in strength and closed last week at the high level of the year. Just how the market will manage to care for the diversified offerings that will show up in the next few weeks is hard to say, but there is a good demand for mutton. Wool prices were off fractionally as the result of tariff agitation. However, the sheep industry of the United States is not on a wool basis, but a dual basis, mutton and wool, the former prominent. Therefore flockmasters should not be unduly excited if wool goes on the free list. Hides went on the free list and in the past six months were a big factor in high prices for cattle.

Stronger Demand For Horses.

As in other lines of the market so in the horse trade the renewal of railroad traffic south and east after the flood delays, benefited demand. Prices strengthened materially and in many cases dealers quoted \$10 a head advance. Southern requirements are not large for this season of the year, but in connection with large requirements elsewhere there is a big volume of demand. Farm requirements are large, and dealers say that a good trade is expected for several weeks to come. Prices in one part of the country are as high as another, and buyers say it is hard to get either horses or mules at marketable margins.

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	31,300	43,600	46,300
Chicago	52,200	118,000	99,000
Omaha	15,900	40,400	38,800
St. Louis	11,175	33,800	8,600
St. Joseph	6,500	24,400	15,500
Total	117,075	260,200	208,200
Preceding week	98,750	345,300	175,300
Year ago	93,750	309,500	211,975

The following table shows receipts on cattle, hogs and sheep at the five western markets, Monday, April 14, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City	9,000	9,000	13,000
Chicago	29,000	37,000	20,000
Omaha	4,800	6,100	15,000
St. Louis	2,700	7,500	2,600
St. Joseph	2,500	5,800	8,000
Totals	48,000	65,400	58,600
A week ago	45,200	69,600	65,200
A year ago	36,400	63,800	42,950

The following table shows receipts of cattle, hogs and sheep in Kansas City and Chicago for this date and one year ago:

	Cattle	Hogs	Sheep
Per 100 lbs. 1913 1912	1913 1912	1913 1912	1913 1912
Chicago ..	\$9.20 \$8.85	\$9.40 \$7.97 1/2	\$8.50 \$7.10
Kan. City ..	8.80 8.60	9.25 7.95	7.00 7.10

Grain Prices Up; Hay Steady.

The movement of grain to primary markets continues light and though requirements are not large prices have advanced moderately. Wheat is relatively lower than either corn or oats, but corn is higher now than at any time since the crop began to move in large quantities. Reports on the growing wheat are favorable. Recent rains have supplied enough moisture in all the wheat states to start spring growth and with a half chance from now on, a big crop is assured. In some cases prairie and timothy hay were higher, but low grade alfalfa was lower. Other hay was unchanged though in slow demand.

The following prices prevail for grain in Kansas City and St. Louis.

	Wheat	Kansas City	St. Louis
Hard No. 2	87	87 1/2	91
Soft No. 2	1.01	1.06	1.08
Corn—			
White No. 2	56	56 1/2	59 1/2
Mixed corn	55 1/2	56 1/2	58
Oats—			
No. 2 white	36 1/2	37	38
No. 2 mixed	34	34 1/2	34

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

	Wheat	Corn	Oats
1913 1912	1913 1912	1913 1912	1913 1912
Chicago ..	\$1.08 \$1.18	57 81 1/2	36 1/2 59 1/2
Kan. City ..	1.06 1.12	56 1/2 84 1/2	36 1/2 61 1/2

Kansas City Hay Quotations.

Prairie, choice	\$10.50 @ 11.00
Prairie, No. 1	9.50 @ 10.00
Prairie, No. 2	8.00 @ 9.00
Prairie, No. 3	6.00 @ 7.25
Timothy, choice	12.75 @ 13.00
Timothy, No. 1	12.00 @ 12.50
Timothy, No. 2	10.00 @ 11.50
Timothy, No. 3	6.50 @ 9.50
Clover mixed, choice	12.00 @ 12.50
Clover mixed, No. 1	10.50 @ 11.50
Clover mixed, No. 2	8.50 @ 10.00
Clover, choice	11.00 @ 12.00
Clover, No. 1	9.50 @ 10.50
Clover, No. 2	7.00 @ 9.00
Alfalfa, fancy	16.50 @ 17.50
Alfalfa, choice	15.00 @ 16.00
Alfalfa, No. 1	13.00 @ 14.50
Alfalfa, No. 2	8.50 @ 11.50
Alfalfa, No. 3	5.00 @ 8.00
Straw	4.00 @ 4.50
Packing hay	4.50 @ 5.00

Seeds.

Kafir corn, No. 2 white, 82c a cwt.; No. 3 white 83c a cwt.; alfalfa \$9 @ 12 a cwt.; flaxseed \$1.05 a bushel; timothy \$1.50 @ 1.75 a bushel; cane seed 55c @ 90; millet seed \$1 @ 1.30.

Seeding For Broom Corn.

In Oklahoma, Texas and some points in Kansas the planting of this year's crop of broom corn has begun. A fairly liberal acreage is promised. The general market for broom corn continues in the same rut that has characterized the trade for some time past. Countrymen are either too busy or roads interfere with delivering corn. Some small trade was reported by warehouse men. Choice, green, selfworking corn is quoted at \$8 @ 90; fair to good, \$40 @ 75; common to fair, \$25 @ 40 a ton.

Livestock in Kansas City.

Steer prices last week started lower, but on Wednesday and Thursday the loss was regained and the market closed the week firm. Butcher cattle prices did not change any until Wednesday and then prices were boosted 10 to 15 cents. Stockers and feeders were quoted up 15 to 25 cents. Calves were weak to 25 cents lower. Good to prime fat steers are quoted at \$8.25 @ 89; fair to good, \$7.75 @ 8.20, and common kinds as low as \$6.75. Cows brought \$4 @ 7.75; heifers, \$5 @ 8.50; calves, \$5 @ 9.50; bulls, \$4.50 @ 7.50; stockers, \$3.50 @ 8.10; feeders, \$7.25 @ 8.40; stock cows, \$4.50 @ 6.50; stock heifers \$5 @ 7.25.

Net advances of 10 to 15 cents were recorded in hog prices last week and trade was active for the entire period. Light weights show a 10 to 15 cent premium over heavies, and shippers have taken most of the light hogs. The top price today was \$9.20, and bulk, \$8.90 @ 9.15.

The following table shows the range in

prices of hogs last week and in the preceding week:

	Last week	Preceding wk.
Monday	\$8.75 @ 9.05	\$8.80 @ 9.05
Tuesday	8.80 @ 9.10	8.85 @ 9.10
Wednesday	8.85 @ 9.10	8.85 @ 9.10
Thursday	8.90 @ 9.15	8.75 @ 9.07 1/2
Friday	8.90 @ 9.20	8.80 @ 9.05
Saturday	8.90 @ 9.20	8.80 @ 9.05

Lambs early in the week sold up to \$9, but later the top price was only \$8.75, and the early advance was lost. Sheep gained 15 to 25 cents and held firm up to the close. Woolled lambs are quoted at \$8 to \$8.75, clipped lambs, \$7 to \$8; wethers, shorn, \$5.75 to \$6.75; unshorn, \$6.50 to \$7.25; ewes, clipped, \$5 to \$6; unshorn, \$6.50 to \$7.

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	436,332	400,883	35,449	.....
Calves	24,205	23,743	462	.....
Hogs	708,036	875,055	.....	167,019
Sheep	552,977	627,279	.....	74,302
H. & M.	32,787	33,381	.....	594
Cars	30,186	31,557	.....	1,371

Livestock in St. Louis.

The top price for steers here last week was \$8.85, and a good many choice steers brought \$8.50 to \$8.75. On the quarantine side steers sold up to \$8.50. Except early in the week the market showed a stronger tone, and is not considered in a fairly firm condition. Railroads south and east that were delayed by the recent high water are running on regular schedules. Prime steers are quoted at \$8.75 @ 9; good to choice, \$8.25 @ 8.75; medium to good, \$7.75 @ 8.25, and common up to \$6.70. Prime heifers are quoted at \$8.50 @ 8.75, good to choice, \$8 @ 8.50; common to good, \$6.50 up, bulls, \$5 @ 7.50, cows, \$5 @ 8; calves, \$5 @ 11; stockers, \$6 @ 7.75, and feeders, \$7.25 @ 8.25.

Steady improvement was noted in the hog market after Tuesday, and the week closed with a 10-cent net advance. The top price Saturday was \$9.25. Light weights sold at \$9.10 @ 9.25; butcher grades \$9.20 @ 9.35, and heavies, \$9.10 @ 9.30. Receipts have been moderate.

Sheep receipts continued small and demand was active until near the close of the week when lambs were quoted down moderately. Thursday some Colorado lambs brought \$9.25, clipped lambs, \$8.00; yearlings, \$8.75 and wethers, \$7. Clipped sheep are quoted at \$5.50 @ 6.50, and in strong request.

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	233,888	192,541	41,347	.....
Hogs	755,898	858,904	.....	103,006
Sheep	183,834	254,715	.....	70,881
H. & M.	54,136	67,029	.....	12,893
Cars	19,513	20,436	.....	923

Livestock in St. Joseph.

After a moderate setback in prices early last week the market strengthened and closed the week strong. Demand came from all sources and while the supply was fairly large it was cared for easily. Tidy weight steers were shown a preference, and rough heavy kinds discriminated against. Butcher cattle were stronger the entire week. An active snipping demand forced packers out of their indifference. Few stockers and feeders were offered. Choice steers are quoted at \$8.35 @ 8.85; fair to good, \$7.50 @ 8.30; cows, \$4.50 @ 7.75; heifers, \$5.50 @ 8.30; bulls, \$4.50 @ 7.25; calves, \$5 @ 9.25; stockers, \$6.50 @ 7.75; feeders, \$7 @ 8.25.

Hog prices showed an upward tendency after Tuesday, and closing quotations were at the highest level of the week. Demand has been broad both from local and shipping sources. The top price Saturday was \$9.20, and bulk of sales \$9 to \$9.10.

The sheep market closed last week with lambs selling up to \$9, and mutton grades up to \$7. The advance compared with the preceding week was 15 to 25 cents. A few clipped lambs sold at \$7.75 to \$8, and clipped sheep at \$6 to \$6.25, but the bulk of the offerings have been of the unshorn class.

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	126,327	140,159	.....	13,832
Hogs	490,105	694,289	.....	204,184
Sheep	239,262	237,847	1,415	.....
H. & M.	11,562	17,274	.....	5,712
Cars	13,097	16,076	.....	2,979

Butter, Eggs and Poultry.

Elgin, April 14.—Butter this week is firm at 33 cents.

Kansas City, April 14.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 17 @ 18c a doz.; seconds, 14 @ 15c; current receipts, \$5.00 @ 5.10.

Butter—Creamery, extras, 31 @ 32c a lb.; firsts, 29 @ 30c; seconds, 28 @ 29c; packing stock, 23 @ 23 1/2c.

Live Poultry—Broilers, 28 @ 30c a lb.; spring chickens, 15 @ 16c; hens, 14 @ 14 1/2c; old roosters, 9 @ 10c; young roosters, 11 @ 12c; young turkeys and turkey hens, 17 @ 18c; old toms, 14 @ 15c.

Produce Prices Now and One Year Ago.

	Butter	Eggs	Hens
1913 1912	1913 1912	1913 1912	1913 1912
Chicago	34 31	18 19	17 1/2 14
Kan. City	32 31	18 18 1/2	14 1/2 13

The Good Word From Oregon.

Mr. Editor—I began taking the Mail and Breeze only a few weeks ago, and although I live out in Oregon I get a great deal of information from it.

F. O. Newton.

The Dalles, Ore., March 12, 1913.

BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

Special Notice

All advertising copy, discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

FOR absolute bargains in any sized farm find C. D. Kregar, Lincolnville, Kan.

GOOD farms for sale or ex. in Bourbon Co., eastern Kan. Fred L. Kent, Uniontown, Kan.

STEVENS county; land on new R. R. in Stevens and Morton Cos. \$8 to \$20 per a. Write or see John A. Firmin, Hugoton, Kan.

FINE residence in Wichita, \$5,000, want good 80, 160 a. 3 mi. town, Brown Co., \$15,000. Send for list. Walter Hanson, Sabetha, Kan.

WRITE for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holtsman, Concordia, Kan. (Pioneer Kan. farmers.)

1,800 A. Marion Co. alfalfa and stock farm \$75,000. 16,000 a. N. M. sheep ranch, \$250 per a. 5 imp. farms \$35 per a. Gus Schimpff, Burns, Kan.

FARM LOANS. If in need of a farm loan anywhere in Cen. Kan., if you will write us your needs perhaps we can accommodate you. Dawson & Zutavern, Great Bend, Kan.

BEST bargain in Jefferson Co. 160 a., 90 a. in cult. 50 a. dandy wheat; bal. timothy, alfalfa, timber. Dandy improvements. Price \$8,400. P. O. Box 203, Valley Falls, Kan.

SACRIFICE sale; 320 acres, 60 acres pasture and hay, 2 good wells and a spring; 70 acres wheat, bal. in crops. Possession August 1st, 1913. 1/2 of all grain to purchaser; \$14,000. LOCK BOX 285, Wellington, Kan.

160 A. 2 miles town, 1/2 mile school; 7 room house, large barn, 100 a. bottom; 40 a. alfalfa; fine orchard, fine improvements, nice home. Price \$65 per acre. GILE & BONSALL, South Ha en, Sumner Co., Kan.

1,250 A. 300 a. alfalfa bottom, running water, up-to-date impr. 900 a. finest blue-stem pasture, fine location. 8 mi. Eldorado. \$40 per a., 1/2 down, as long time as desired on bal. at 6%. Other ranch bargains. V. A. OSBURN, Eldorado, Kansas.

ALFALFA AND WHEAT LANDS at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

IN MONTGOMERY COUNTY. 320 acres fine meadow and pasture at \$20 per acre; improved 80 acres at \$2,500. Nice acreage tracts adjoining Independence, easy terms; other bargains. FOSTER BROS., Independence, Kan.

50 ACRE FARM, A BARGAIN. 50 a. joining town. 7 r. house, shade, 2 barns, calf shed, hog sheds and pasture, 2 hen houses, corn crib, wood house, milk house, 2 cisterns, 2 wells, 1 a. small fruit. 8 a. alfalfa. 15 a. hog tight fence. Blue-grass pasture. 20 a. fine bottom land. F. W. BERTSCHINGER, Lecompton, Kan.

FOR SALE. 320 acre improved farm in eastern Kansas. Ideal for dairy farm. Adjacent to county seat town of 3,000. 100 acres under cultivation, balance fine pasture. Abundance pure spring water. Easy terms. For further description, terms, etc., address DALLAS ROGERS, Mapton, Kansas.

Stevens County Write for prices on R. R. lands. Easy terms. Santa Fe Land Co., Hugoton, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

For Sale—7400A. Stock Farm Two sets good improvements, living water; five miles Mo. P. R. R. in Ness county. A snap. Liberal terms. Write J. C. HOPPER, Ness City, Kan.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, 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 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

Improved Stock Ranches 6,000 acres. \$5.00 per acre for 3,000 acres. Balance lease land, all fenced; mountain trout creek runs through place. 1,250 acres, highly improved, two good springs. 500 acres farm land, balance first class pasture land. 30 miles south of Denver, on main road from Denver to Colorado Springs. Price \$20 per acre. 550 acres, dandy mountain ranch, 125 acres in hay and farming, 9 room house, barn, and corral. Water piped through house. 25 head of horses, 14 head Durham cattle, all farm implements. Price \$15,000. JOHN HUGHES, 213 Colo. Bldg., DENVER, COLO.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

BARGAIN: 160 a. nicely improved, 1/2 mile out, \$6,000. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

AGENTS WANTED, to sell Neosho Valley corn and alfalfa lands, \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

CENTRAL Southern Kan. alfalfa lands. 320 a. valley land, 200 suitable for alfalfa, \$8,000. 160 a. in valley, 120 in cult., \$4,800. For free list write P. H. THORNTON, Coldwater, Kan.

A BARGAIN—Two 160-acre tracts; fine, smooth, unimproved land, northeast part Finney Co., Kan. \$7.50 a. 1/2 cash will handle. A. D. TILSON, 3220 Laf. St., St. Joe, Mo.

100 IMP. and unimp. farms for sale in Edwards, Ford and Hodgeman Cos., \$1,100 1/2 up. For further information and list call on or address THOS. DARCEY, Offerle, Ks.

A BARGAIN—680 acres, 3 miles from town; 150 acres in wheat, balance in pasture. Price \$15 per acre if sold soon. Write PIONEER REALTY CO., Protection, Comanche Co., Kansas.

672 ACRE farm. 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 160, 240, 320, 480, 620, all above farms are good prices from \$30 up to \$56 per a. WM. GODEY, Arkansas City, Kan.

158 ACRES 5 miles of Ottawa, all tillable smooth land, 35 acres bluegrass, 40 acres timothy and clover, orchard, 9 room house, barn 40x60; double corn crib; holds 3,000 bu. corn, other outbuildings; buildings in good condition. Owner must sell; will loan \$8,500 6%. Price \$85 per acre. MANSFIELD, Ottawa, Kansas.

280 A. 2 1/2 mi. 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.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/2 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

SOUTHWEST KANSAS FARM LANDS. Honest prices. Where wheat leads the world. Corn crop values beat wheat and alfalfa growing leads the continent. LISTON DENNIS, Stafford, Kan.

COMANCHE COUNTY BARGAIN. 480 a. improved, 9 miles from Coldwater. 177 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

100 ACRE FARM BARGAIN. 2 1/2 mi. town. No waste land. Woven wire fence. New 7 r. house, furnace, 2 large new barns. Shade, orchard. 60 a. wheat, 40 a. grass. R.F.D. Tel. Ideal home. \$12,000. L. H. MOORE, Conway Springs, Sumner Co., Kan.

LINN AND BOURBON CO. FARMS. Biggest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$80. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illus. folder free. EBY-CADY REALTY CO., Pleasanton and Ft. Scott, Kan.

SHARON VALLEY FARM. 160 acres, 3 mi. of Sharon, Kan., good 6 room house, barn 40x80, 2 chicken houses, cave and smoke house, good orchard, 30 acres pasture, 8 acres wheat, 10 acres alfalfa, balance for spring crop; no waste land; a bargain at \$65 per acre. No trade. E. E. FOLEY, Wichita, Kansas.

Making Money Is no trick if you invest in Plains, Kansas, town lots, where prices are certain to advance. Cheapest locations, today's prices \$17.50 to \$50, easy monthly payments. Only a few to be sold at these low prices. ACT QUICK if you want to make a profitable investment. Write for list and literature. JOHN W. BAUGHMAN, Desk C, Plains, Kan.

Buy or Trade with us—Exchange book free Bersie Agency, Eldorado, Ks

Early Dawn Stock Farm 320 a. Grant Co., Kan., 5 mi. Co. seat. 160 a. imp. 6 r. house, barn 48x52, poultry, milk and hog houses, jack barn, well and mill, corral, free range. Snap for young man. Sell acct. my \$4,800 cash, bal. to suit. Wm. Bethelheimer, Bearden, Ark.

Along the New Railroad 5 quarters in Haskell, Grant and Stevens counties, near new railroad towns on D. C. & C. V., for \$7 per acre, on easy terms. Can sell single quarters. HAVE GOOD PROPOSITION FOR AGENTS. DON VAN WORMER, Richfield, Kan.

Something Unusual Farm and grazing combination, 1,046 a. Kan. land, blocked solid, well located, on the market short time for \$6.25 per a. Terms. \$1,812.00 cash. Bal. two to eight years, six per cent. Ask for plat and particulars. JOHN W. BAUGHMAN, Owner, Liberal, Ks.

FOR SALE 480 a. good wheat land, located Pawnee Co., Kan., with house, barn, windmill, granaries, fencing. 1/2 in wheat, bal. still unbroken. Will sell at \$65 per a. Also 160 a. wheat land, 1/2 in wheat, good buildings and fences, \$65 per a. Owners will loan \$40 per a. at 7%. Write B. A. Plumer, Marietta, Ohio, or W. R. Adams, Larned, Kan.

SOME good bargains in well improved Jackson Co., Kansas, farms. Price \$75.00 and up. Wm. Harrison, Whiting, Kan.

IF YOU WANT TO BUY LAND in western Kan. for \$5 to \$10 an a., write Geo. M. Lynch, Co. Treas., Tribune, Kan.

4 STOCK FARMS for sale at \$36, \$41.50, \$60 and \$62.50 per a. PRALLE BROS., Bremen, Kansas.

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.

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.

KANSAS RANCHES FOR SALE. We have Kansas ranches for sale from 1,000 to 25,000 acres. Prices \$12.50 to \$30.00 per acre. Write for free list. V. E. NIQUETTE, Salina, Kan.

HAY FARM FOR SALE. 160 acres of land 3 miles from Colony, Anderson Co., Kansas. 100 acres in native meadow, 15 acres pasture, 45 cult., improved with house and barn, good water. The hay alone has been making \$500 per year. Am offering this at the low price of \$40 per acre as I have other interests and cannot see to it. For sale only. Address J. F. RESSEL, Owner, Colony, Kansas.

WOULD THIS INTEREST YOU? 160 acres 3 1/2 mi. from Anthony, county seat of Harper county, Kansas, on county road, one-half mile from school. 155 acres in cultivation; rich loam soil, no sand or gravel; 30 acres in alfalfa, balance first class alfalfa land; unimproved except fencing; over 100 acres fine growing wheat. Must be sold; can give reasonable terms, but absolutely no trades. Price \$40 per acre. J. E. COUCH LAND CO., Anthony, Kan.

SEDGWICK COUNTY FARM BARGAINS. 280 a. first bottom farm, improved, one mile to good R. R. town. Biggest snap in state \$45 per a. terms to suit. 240 a. valley farm, a crop producer, good improvements, 10 miles to Wichita, every acre good. Short time, \$55 per a. Be quick for this. 80 a. first bottom farm, near Sedgwick, well improved, in home of alfalfa, \$100 per a., worth \$150. 4 new modern cottages, 5 rooms each, in Wichita, rents \$45 per month, \$6,500. Trade for farm. Call on or write H. E. OSBURN, 315 E. Douglass Ave., Wichita, Ks.

TEXAS FREE. Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

CORN, cotton, potatoes and rice are making our farmers good money. Prices from \$25 an acre up. A few special bargains. Fidelity Immigration Co., Eagle Lake, Tex.

GERMAN CATHOLIC colonization proposition. 6,000 a. in South Texas, near Co. seat; good church and schools; 9-10 population German Catholic. \$20 per a. Also smaller tracts. D. W. GRANT, Palacios, Texas.

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.

BUY COAST FARM LANDS. We make a specialty of locating the best for the money for the homeseeker and investor. For list and free information write C. H. Stancliff Land Co., Houston, Tex.

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 RICHEY LAND CO., 2nd Floor Carter Bldg., Houston, Tex.

Mid-Coast Country of Texas Lands in tracts to suit. Prices are rapidly advancing. NOW is the time to buy. New list and free abstract of information. INFORMATION BUREAU LAND CO., Bay City, Texas.

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.

ILLINOIS DO YOU want to sell your farm or town property? By my system I am able to bring buyers and sellers together. Write me, try me. UNION EXCHANGE, Harvard, Ill.

CANADA For sale, improved farms, ranches and raw lands in Southern Alberta. LYNN W. BARRETT, Aldersyde, Alberta.

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.

HOMESEEKERS farm list. Southwestern Land & Imml. Co., Springfield, Mo.

IMPROVED 200 a. bargain; Douglas Co., Mo. F. H. Brown, owner, Mayview, Mo.

Chicken ranch, \$600. Terms. Other farms. Pictures, maps, free. Box 594, Mt. View, 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.

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.

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.

I HAVE for sale fine farms from 40 a. to 1,000 acres, at \$5 per a. and up, in one of the best counties in the state of Missouri; new railroad now building. For list and particulars write W. D. Blankenship, Buffalo, Mo.

ONE of Howell Co., Mo., good farms. 279 a.; 170 cult., 9 room house, good cellar. Large barn, other buildings. Orchard, fine water. 3 mi. railroad town. 6 mi. county seat, West Plains, on R. F. D. and phone line. 1/2 mi. school. \$40 a. No trade. A. P. COTRELL LAND CO., Pomona, Howell Co., Mo.

FOR SALE. Your chance! Act! \$5,760 is the benefit or added value of the average 160 acres as reported by the commissioners appointed by the court to find the benefits on the 63,000 acres in our new levee and drainage district. These are as fine corn lands as can be found. As we are selling these lands at \$30 an acre the man who buys now before work begins on these improvements will get the increase in value. Free literature and further information furnished bonafide inquiries. EDWARDS BROS. REALTY CO., New Madrid, Mo.

BATES COUNTY FARMS ranging from 40 to 800 acres; \$40 to \$75; located 60 miles south of Kansas City, Mo. J. D. SAGE, Amsterdam, Mo.

A SNAP FOR THE CASH. 200 acres, 160 fenced, 120 cultivation. 2 1/2 miles to postoffice, 1 mi. to school, 10 to county seat. Good house and barn; everlasting spring, fruit; price \$4,000. Will give terms. KIRWAN & LAIRD, West Plains, Mo.

MISSOURI AND KANSAS FARMS. We can show you some splendid farm values. We have an excellent farm of 240 acres. SPECIAL PRICES and TERMS! Ask us about it. STIFF & CHAPPELL, Merwin, Mo.

OZARK LANDS FOR SALE. 40 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 5 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

POLK COUNTY FARMS For Sale or Exchange Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Bolivar, Mo.

A Remarkable Bargain 320 A. all level land, 65 a. in cult., 80 a. pasture, bal. saw and tie timber. 180 fenced, wire and rail; 9 room house, good well at house; barn 70x70; good well at barn; smoke house, other outbuildings; phone in house; handy to school and church; 6 mi. to North View on Frisco R. R. 5 mi. to Fairgrove; 8 mi. to Co. seat, 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.

Ozark Unimproved Farm Bargain 150 acres of good unimproved farming land, near Van Buren, county seat of Carter Co. Fine pasture land, good for dairy, fruit and in fact you can raise almost anything you can raise in the North. Located in the Ozarks of Missouri. Makes the climate the very best. Excellent water. Price \$10 per acre. For full particulars write JOHN M. CARNAHAN, Van Buren, Mo. (County Recorder Carter Co.)

FLORIDA FOR SALE BY OWNER: Four very desirable—improved pieces of property in Alachua county, Fla. 90, 20, 30 and 30 acre tracts on large lake. Not to be classed with the ordinary Florida lands being offered for sale. Terms to suit customers. T. S. McMANUS, Waldo, Fla.

ARIZONA ARIZONA for good government land. Climate healthy, summers cool, winters mild, soil fertile. Grain, fruit and dairy. 200 mile auto ride through valleys. ELGIN COMPANY, 723 Finance Bldg., Kansas City, Mo.

CALIFORNIA CALIFORNIA alfalfa and fruit lands. Only \$50 to \$110 per acre including water right. Terms, one-fourth cash, bal. 8 payments commencing second year. Send for booklet 161. Agents wanted. The Cal-Tex Inv. Co., 908 Security Bldg., Los Angeles, Cal.

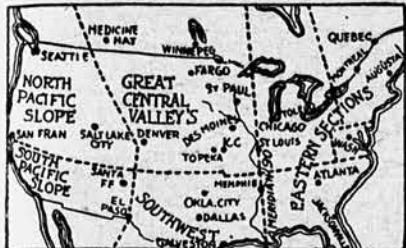


FOSTER'S FORECASTS

(Copyright 1912 by W. T. Foster.)

Washington, D. C., April 19—Last bulletin gave forecasts of disturbance to cross continent April 19 to 23, warm wave 18 to 22, cool wave 21 to 25. The forces will be again increasing at the time this storm crosses the continent and as the storm forces will be greater than usual all should be on the watch for them; but we are not expecting it to be of great force as compared with those of recent dates.

Next disturbance will reach Pacific coast about April 25, cross Pacific slope



(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.

by close of 26, great central valleys 27 to 29, eastern sections 30. Warm wave will cross Pacific slope about April 25, great central valleys 27, eastern sections 29. Cool wave will cross Pacific slope about April 28, great central valleys 30, eastern sections May 1.

Temperatures will average above normal from April 18 to May 3 and rain of that period will average below normal for the continent but in a few small sections excessive rains will fall. That is always the result when severe storms cross the continent.

Picked Men For Roads Meeting

Good roads sentiment is making headway in Kansas and other states. The most encouraging sign is the practical direction it is now taking. Kansas has increased its maximum for maintaining a dragged road to \$15 per mile and the Kansas Good Roads association will send a delegation of 20 picked men to attend the National Good Roads convention, April 24-25, at Birmingham, Ala., where the matter of road laws, and the financing and systematizing of road work will receive special attention. Arthur Capper, president of the Kansas association, has appointed the following delegates:

G. J. Hinshaw, Garden City.	P. H. Albright, Winfield.
W. S. Gearhart, State Engineer.	E. E. Trowbridge, Kansas City.
R. H. Faxon, Garden City.	Warden J. K. Cod- ding, Lansing.
J. C. Nicholson, Newton.	Sen. Paul Klein, Iola.
Frank A. Davis, Herington.	Rep. Jasper T. Kin- caid, Olathe.
H. W. Loy, Chanute.	C. F. Osborne, Howard.
Dr. W. S. Yates, Junction City.	A. J. Wood, Haviland.
Dr. H. M. Casebeer, Cherryvale.	D. E. Watkins, Kansas City.
Oscar Jensen, Coffeyville.	W. J. Bilson, Eureka.
J. H. Edwards, Sedan.	H. G. James, Independence.

He Knows of No Better.

Mr. Editor—I have been a Mail and Breeze reader for several years and think it is about the best farm paper I know of.

Dewey, Okla.

Co-Operation Saved Italy

(Continued from Page 8.)

parishes, have given a great impetus to the cause. Their congresses have emphasized the need of the priest's leading his people in this advance. While part of this was undertaken, no doubt, as a reaction against the progress of Socialism as it was in Belgium, yet there is assurance that underlying it all was a great desire for the uplift of the people industrially. A very large number of the societies were fostered directly by the village priests and they, like the other and non-clerical ones, have been uniformly successful.

A social commission, investigating the

agricultural advance in the country, called it a "resurrection", such was its substantial progress and its influence for betterment. More land has been brought under cultivation, and larger crops per acre realized. One little village, near Foggia, increased its vineyard acreage in 10 years by 8,000 acres, due to the help of the people's bank. Quality of stock improved, ramshackle buildings were repaired, co-operative dairies sprang up. In fact a general revival of country life was brought about.

Anything in It For Us?

Is there a lesson? Our savings banks, like those of Europe, are filled with the savings of the poorer classes, working people of the cities, factory toilers, miners, newsboys, and others. What better outlet for the investment of this money owned by the masses in the uplift and progress of the agricultural masses, what better security, what better stimulus to the work and success of those who originally deposited the savings? For, give us agricultural prosperity and national prosperity is assured. Cripple agriculture and stock raising on account of any conditions whatsoever and every industry in the land feels it. Italy's inter-linking system is a marvel. It has many points worthy of careful study.

To Many Handle Products

(Continued from Page 9.)

with regard to the need for the details of co-operation and organization, the speaker believed, would produce results as striking in less time and with less effort.

"The colleges of the country must teach the principles of marketing and distributing and co-operation," President Waters said. "The high schools must teach the girls how to buy economically for the farm, and teach them, also, the relationship their purchases bear to the development of their community or the state. Efficiency is of transcendent importance on the farm. Without it we might as well have no organization."

ARKANSAS

FOR SALE: Well imp. 240 a. near city, \$12.50 a. J. A. Webb, Russellville, Ark.

CHEAP homes. Send for literature. F. & M. Bank and Trust Co., Horatio, Ark.

OZARK fruit farm. Income \$7,000 in 1912. Heart's delight. H. Hall, Waldron, Ark.

891 A. alfalfa and cotton land; some improved, tracts to suit. \$75 per a. New list free. Pope Co. R. E. Co., Russellville, Ark.

IF you want to know about Ashley Co., Ark., send 10c in stamps for Hamburg Budget, for 3 mos. Add. Budget, Hamburg, 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.

160 ACRES one mile from Oliver, Ry. town; church, school; partly improved; good timber. In Scott county, Arkansas. Price \$3 per acre, cash. Box 308, Heavener, Okla.

17,000 ACRES, no rocks, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 20 yrs. at 6%. Employment. TETER & Co., Op. Union Depot, Little Rock, 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.

ARKANSAS lands for all staples at reasonable prices, on good terms. Prices are steadily advancing. Now is the time to buy. New list free. HORTON & CO., Hope, Ark.

157 A. Improved rich valley farm; 57 cultivation; bal. timbered; 2 ml. Ry., on public road; white neighborhood; \$12.50 per acre. SESSIONS BROS., Winthrop, Ark.

DO YOU want a home? Do you want unimp. land for an investment? Let us show you some bargains. Some exchanges. STAR LAND CO., Gentry, Benton Co., Ark.

260 A. rich 2nd bot. land, nearly level; springs, running water. 30 a. high land, red sub-soil, no stone. \$8 a. Terms. Write NOW. F. & M. Bank & Trust Co., DeQueen, Ark.

FOR SALE: 177 a. excellent stock farm. 70 a. cult., bal. good timber. 3 room house, barn, fine water. Near school, phone, and R.F.D. 6 ml. Cabot on public road. Price \$20 a. Hudson Real Estate Co., Cabot, Ark.

ARKANSAS FARMS. New list and state map free. FRANK BATES, Waldron, Arkansas.

OKLAHOMA

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.

FOR SALE—An alfalfa farm of 160 acres in Grant county, Oklahoma, 85 acres of which is now seeded to alfalfa. F. L. PATTEN, Kingfisher, Oklahoma.

OKLAHOMA

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

20 FINE farms, bargains. N. E. Okla. valley. Dennison & Griswold, Claremore, Ok.

FOR SALE—Quarter section 9 miles from Kingfisher. \$4,100, part cash. E. M. WORL, Kingfisher, Okla.

800 ACRES black land, 2 1/2 miles from railroad. 450 acres in cultivation, 4 sets of improvements. \$30 per acre. E. HOLCOMB, Durant, Oklahoma.

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.

SPECIAL snaps listed every day. 960 a. stock ranch S. W. Okla. Want land. \$10,000 flour mill doing a good business. Want land anywhere. Write for information and lists. Owner's Sale & Exchange, Independence, Ka.

MUSKOGEE county, corn, cotton and alfalfa lands in rain belt of Eastern Oklahoma at \$20 to \$35 per a., near good towns, schools, churches and markets. Easy terms. Maps and lists free. Beard Land Co., Muskogee, Okla.

240 A. 9 ml. 13 R. R. towns, one of which is McAlester. 190 a. tillable valley bot. land, no rock. Never overflows. 20 a. timber, 115 a. cult., 35 a. meadow. Productive as any land in Okla. \$20 per a. Terms. No exchange. SOUTHERN REALTY CO., McAlester, Okla.

CADDO COUNTY WINS First on agricultural products at State Fair. Write for information, corn and alfalfa lands. Baldwin & Gibbs Co., Anadarko, Okla.

INDIAN FARMS for sale in rain, corn and oil belt of N. E. Oklahoma at from \$15 to \$35 per acre. Easy terms. A perfect title is guaranteed. For description and prices write the owner, W. C. WOOD, Nowata, Oklahoma.

COLORADO

EASTERN COLORADO—The new home-stand law. Bargains in relinquishments. Farm land. You can buy it, if you try it; come and see it and you will do it. Lock Box 713, Garden City, Kan.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, aims-receiving Kansas" become the wealthiest state per capita? Only a few hours' west of Salina, no finer soil on earth; 60 schools, 4 banks, churches, best of Colorado. Now. Pamphlet. R. T. CLINE, Towner, Colo.

THE INTERNATIONAL REALTY & INV. CO. 618-20 Gas and Electric Bldg., DENVER, COLORADO Write us for highly improved irrigated and dry farms, choice Fruit Tracts in Colorado, and City Property in Denver.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mdse. F. Gass, Joplin, Mo.

EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.

OZARK farms and mdse for sale or trade. Noah Atkinson, Marshfield, Mo.

WRITE Fred L. Kent, Uniontown, Bourbon Co., Kan., for honest prices on farms.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. P. JOHNSON, Ordway, Colo.

960 A. Trego Co.; 200 creek alfalfa land, impr. \$24,000. Would consider good 160 acre farm for part. Stevens & Ruby, Stockton, Kan.

PROPERTY owners, if you want a quick trade list with us. Now preparing new list. Send for listing blank. Buxton Land Co., Utica, Kan.

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.

WHAT have you to trade for Arkansas level cutover land? Close to railroad; no over-flow; no negroes; no rocks. Shaeffer Land Co., 640 Reserve Bk. Bldg., Kansas City, Mo.

SNAP—Good flour mill in heart of grain belt. Cash price \$15,000 clear. Would exchange for good land. Full description on request. A. W. Bremeyer & Co., McPherson, Kan.

TO TRADE, for South Kan. farm or stock of goods, modern 9 room house and two fine vacant lots in N. E. Okla. town of 5,000 people. Would also trade S. W. Ark. farm worth \$4,500.00. Chas. C. DePue, Vinita, Oklahoma.

EIGHT room house, gas, electricity and city water, large lot, paved street, one block from high school. \$2,000 equity. Will trade for small farm, registered Jerseys or Percheron mares. Jas. S. Taylor, owner, Iola, Kan.

FOR SALE—Choice wheat, corn, and alfalfa lands, in Clark, Ford, and Meade Co. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

CHOICE alfalfa land for sale or exchange; from 40 acres to a section. Also a few extra good bargains for cash. CHAS. D. GORHAM, Garden City, Kan.

FOR SALE OR TRADE. A fine large 28 room hotel on 3 lots in Co. seat town of 900. Electric lights, water system, other bldgs. \$15,000. For a ranch or farm up to value. W. A. DOERSCHLAG, Ransom, Kansas.

Grocery Stock Wanted!

In exchange for one or two good quarters of fine land in east end Hodgeman county, Kansas. Land is clear, but want mortgage back on land for one-third value. Don't write about anything else. Don't want buildings. M. W. PETERSON, Hanston, Kan.

NEW YORK

MUST GO AT ONCE.

Stock, tools and 124 acres. 16 a. timber, bal. cultivated; spring watered; 8 room house, plastered, papered and painted; two barns 40x60, 30x40; granary, hen and hog house, plenty fruit; insurance on buildings \$1,400. 5 ml. to city. Included: 1 pair horses, 10 cows, 2 mowers, wagons, buggies, harness, plow, cultivators, harrows and everything ready for business. All goes for \$3,800, part cash. HALL'S FARM AGENCY, Owego, Tioga Co., New York.

LOUISIANA

DON'T be a renter; we sell finest improved corn land in North Louisiana on 15 years' time. Write HUGO JACOBSON, Salina, Kansas, immigration agent.

Ruston, Louisiana

Is the best place for a tenant farmer that only has a little money to own a farm. Rich fertile soil—Ample rainfall.

Healthy Climate

Two crops a year—Good markets. \$10.00 to \$25.00 an acre, easy terms. No floods, mosquitoes or swamps. Write for illustrated literature. NORTH LOUISIANA REALTY & INV. CO. RUSTON, LOUISIANA.

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.

FOR results list your property for sale or exchange with S. H. Rhea Real Estate and Auction Co., Moline, Kan.

BOOK 1,000 farms, etc., everywhere, for ex. Get our fair plan of making quick square trades. Graham Bros., Eldorado, Kan.

\$16,000 GENERAL merchandise, never changed hands; for good Kansas land. A. W. BREMEYER & CO., McPherson, Kan.

\$9,000 STOCK of mdse. to trade for land. Exchanges made. Buyers found. Can trade anything. Send for list. H. E. PETTY, Neodesha, Kan.

160 ACRE farm in Bourbon Co., Kansas, 5 miles from Hepler, 100 acres in cultivation, all first and second creek bottom, and good alfalfa land, 10 acres timothy, 5 acres prairie hay meadow, balance good bluegrass pasture, with creek running through, two good wells, orchard, 5 room house, stable for 6 horses, cow stable and other outbuildings, 1/2 mile to school, R. F. D. and tel. Price \$65 per acre. Will sell with terms, or exchange for good clear 80 in eastern Kan. and carry difference. The Eastern Kansas Land Co., Quenemo, Ka.

FOR SALE AND EXCHANGE. Washington Co. improved farms at \$50 to \$180 a. Write F. E. Beeson, Washington, Ka.

WANT ARKANSAS LAND in exchange for good improved 160 acres Phillips Co. Other exchanges. I. R. ELDRED, Phillipsburg, Kan.

WILL EXCHANGE 200 A. FARM \$15 per a., Sherman Co., Kansas, for automobile, rental city property or small farm. Write M. A. ALEXANDER, Owner, Goodland, Kansas.

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 TRADE

2,100 a. ranch in eastern Nebraska, 20 ml. from O'Neill, Holt Co., all bottom land and good grass and hay land. This is the making of the best ranch in the state. One-third equitable trade, some cash and carry bal. Also \$4,200 first mortgage on 313 a. farm, St. Clair Co., Mo. Due in less than 2 years at 6%. Will take mdse., hardware preferred. Submit your offers. W. L. BOWMAN REALTY CO., King City, Missouri.

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kan.
John W. Johnson, 820 Lincoln St., Topeka, Kan., 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, Kan.
Harry W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
Ed R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kan.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Percherons.

May 21—J. C. Robison, Towanda, Kan.

Poland China Hogs.

May 7—C. L. Branic, Hlawatha, Kan.
May 27—H. C. Graner, Lancaster, Kan.
Sept. 6—J. C. Stalter, Jasper, Mo.
Oct. 21—H. B. Walter, Effingham, Kan.
Oct. 15—R. B. Davis, Hlawatha, Kan.
Oct. 17—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.
Oct. 24—Howard R. Ames, Maple Hill, Kan.
Oct. 29—Walter Hildwein, Fairview, Kan.
Oct. 30—Merton Williams, Valley Falls, Ks.
Feb. 10—H. B. Walter, Effingham, Kan.
Feb. 12—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.

Hereford Cattle.

May 6-7—Breeders' sale of Herefords, Kansas City, Mo. R. T. Thornton, Mgr., 1317 E. 15th St.

Shorthorn Cattle.

April 22—George Allen & Sons, Lexington, Neb., at South Omaha.
June 4—John M. Bay, Aledo, Ill.
June 10—C. S. Nevius, Chiles, Kan.
June 10—Bellows Bros., Maryville, Mo.
June 11—H. Reese & Son, Omaha, Neb.
June 12—Owens Bros., Williamsburg, Ia.
June 13—Whittitt Bros., Preemption, Ill.

Aberdeen Angus Cattle.

May 27—P. J. Donahoe, Williamsburg, Ia.
Oct. 22—W. F. Eckles, Green City, Mo.

Market Day Sales.

Col. L. R. Brady, the popular auctioneer, so well known to breeders of purebred livestock in Kansas and adjoining states, a resident of Manhattan, Kan., always a booster for his town and his state, for the past year has been holding Market Day sales in his home town. The offerings at these sales include a multitude of things as Col. Brady advertises that he will sell, or offer for sale on the market days anything having a commercial value. These sales are held every second Saturday and are a decided success. The 27 sales thus far, have averaged about \$3,000 each. Horses have been brought as far as 50 miles, to put in the sales. In the last three sales 38, 23 and 25 horses have been sold. Not only have the sales been a decided success from the standpoint of the consignors and Col. Brady, but they have proven a great stimulus to the city's business. Merchants say they can easily see the increase in their sales on market sales day as compared with the alternating Saturday.

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

Tatarax Durocs.

Hammond & Buskirk of Newton, Kan. are offering fall boars and gilts from the Tatarax herd sired by the grand champion Tatarax and G. M.'s Tat Col., and out of their best producing sows. These boars and gilts are extra choice and will please any of our readers who want strictly high class Duroc-Jerseys.

Pleasant Valley Herd of Big Type Polands.

The Pleasant Valley Stock Farm, Watonga, Okla., not only has the best herd of Shorthorns to be found in the Southwest, but a splendid herd of big type Poland Chinas as well. The herd consists of over 100 head at the head of which is the exceptionally boned boar Col. Hadley, by Big Hadley's Model. His dam was a sow of exceptional quality and size, one of the best daughters of Designer. The herd sows of this herd are uniform in type with plenty of scale and among which are such sows as Queen Short Stop, by Long King 2d, by Spangler's Hadley; Keystone, by Designer; Queen Expansion, by Columbia Expansion; and Keystone Queen, by Keystone, and others of equal breeding. If you want a good fall boar at a price well worth the money asked, don't delay but write today. Address Pleasant Valley Stock Farm, L. W. Cutright, manager swine department, Watonga, Okla.

G. E. Hayden to Oregon.

G. E. Hayden, the well known Poland China and Shorthorn breeder of Newkirk,

Okla., writes under date of April 11 that he is making arrangements to start for Oregon in a short time in the interest of a lumber company. Mr. Hayden has been identified with the knights of the grip for a number of years and while he is one of the most enthusiastic breeders of hogs and cattle in the new state, he is never quite satisfied unless he is trying to talk a merchant out of an order for goods. He says that he would not be content without the weekly visit of Farmers Mail and Breeze. He also says that he is still breeding a superior type of Poland Chinas and Shorthorns on his Willow Springs Farm. His son John is in charge of the farm and breeding operations during his absence. Mr. Hayden recently purchased a very fine boar from Roy Johnston of South Mound, Kan., which is to head the Willow Springs herd. This young boar is used on the herd and was especially bought to mate with the good Leader gilts.

N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

Write C. C. Ingram, Bloomington, Neb., for prices on summer and fall boars and gilts. Strictly big type breeding.

A. N. Waechter & Sons, Riverton, Neb., are offering for sale choice Poland China fall boars. A few very choice ones at moderate prices. Strictly the big type breeding. Satisfaction guaranteed on these boars.

Have you written to J. H. Harter, Westmoreland, Kan., for descriptions and prices for your choice of the 25 September boars he is offering in his advertisement in this issue? Better write today if you want one of the tops, as they are being sold at prices that are sure to move them.

Wear's Coach Horses.

Jos. Wear & Son, Barnard, Kan., are breeders of Oldenburg German Coach horses. They have for sale both stallions and mares. For information and prices address them at Barnard. If you are interested go to Beloit and phone them and you will be taken out to the ranch. At the leading western shows last season their horses won about everything in sight. They won more in these shows than any other exhibitor and made a host of friends for their beautiful Coach horses. Ask for further information.

Poland China Gilts.

In this issue L. E. Klein, Zeandale, Kan., is offering for sale some choice fall Poland China gilts, either bred or open. They are a very choice lot of young sows of early fall farrow and he will hold them and breed them or ship them open just as you desire. Write him for further information and prices. Remember that the Klein herd of big type Poland Chinas is one of the good herds. These gilts are from big type sires and dams and will grow into great sows. Write to Mr. Klein today for prices on a few of these young sows. His advertisement appears regularly in Farmers Mail and Breeze. Look it up.

Ames's Poland Chinas.

Howard R. Ames, Maple Hill, Kan., who has a nice herd of registered Poland Chinas at that place, writes that conditions are very favorable for the hog business in that locality this spring. He says that there is no disease in that section and that there are not many hogs there at present but the outlook for business is good. Mr. Ames reports nine sows farrowing for him 72 pigs and saving 60, which is a pretty good indication as to the value or his herd. The foundation of his herd is strictly big type breeding and some of the best known families of big type breeding are represented in this herd.

Good Demand for Red Polls.

Look up the advertisement of Chas. Morrison & Son, Phillipsburg, Kan., which may be found in Farmers Mail and Breeze the year round. Mr. Morrison says, in a recent letter, that he has never received so many inquiries for Red Polled bulls as he has recently. He is sold out of bulls over 6 months, but has a fine crop coming on. He is pricing some choice cows and heifers, sired by Laufal 13221 and Crema 22d. They are also breeders of strictly big type Poland Chinas and have some choice registered boars ready for service, for sale. Recently they have sold to J. J. Coltrane, Oklahoma City, five head of Red Polls consisting of four cows and heifers and a choice bull. Mr. Coltrane is a prominent breeder down there and the selections he has made from the Morrison herd are to fill out his next season's show herd. The Morrises will be pleased to have anyone in-

terested visit their herd. They have an auto and will call for anyone at Phillipsburg and return to that place in time for evening and night trains going either east or west. Phone them when you get to Phillipsburg. Mention Farmers Mail and Breeze when you write them for further information and prices.

Bancroft's Duroc-Jerseys.

D. O. Bancroft of Osborne, Kan., sends in change of copy for his regular card ad in Farmers Mail and Breeze. He says that he has had a splendid trade on his Duroc-Jerseys the past season, selling 109 head for breeding purposes. Mr. Bancroft makes a specialty of the mail order business. He holds no public sales and sells only his tops for breeding purposes. At present he is offering 12 choice spring boars, September gilts bred and open, and 90 March pigs. He makes a specialty of pairs and trios not related. His prices are right. That his business methods are correct is evidenced by the fact that he has satisfied customers in eight different states. Write him, telling him your wants.

Noffsinger's Shorthorn Bulls.

L. M. Noffsinger, Osborne, Kan., is offering for sale a Shorthorn bull 4 years old. He is red and a low down blocky fellow weighing close to 1,900 pounds. He is nice and quiet and Mr. Noffsinger pronounces him an unusually good bull. He was sired by Scottish Gloster 236978 and his dam is Beauty of Elmdale, got by Brave Knight 3d 182522. He is well bred as will be readily seen and is an equally good individual. His dam is one of the best cows on Mr. Noffsinger's farm and will weigh 1,500 pounds. He is a great bull and will be sold very reasonably and will be guaranteed in every respect. Mr. Noffsinger is a well known Shorthorn breeder and his herd at Osborne is one of the good ones of the state. Write him if at all interested for a better description of this great 4-year-old bull and for his price on him. Mention Farmers Mail and Breeze when you write.

High Grade Holstein Cows.

In this issue will be found the advertisement of Arnold & Brady, Manhattan, Kan. They are offering for sale 30 head of extra selected high grade Holstein cows and heifers, two registered yearling bulls. The offering, which is being sold at private sale, consists of four yearling heifers, five 3-year-old heifers carrying their second calf, and 17 matured cows, all with calf. The offering is one of real merit and the men back of it are known all over Kansas as men who would not dicker or deal with anything in the purebred stock line, but as men who have always advocated raising and buying the best that was to be had. While the cows and heifers in this offering cannot be registered they are nevertheless of the best of breeding and individual merit. They all have purebred sires and have been carefully selected and handled and are a high class offering of good useful dairy cows, that will be sold worth the money. For further information as to prices and descriptions, address Arnold & Brady, Manhattan, Kan. Please tell them where you saw their advertisement.

Anderson Sells on Merit.

In this issue C. O. Anderson starts his advertisement again and is offering choice Duroc-Jersey pigs, at weaning time. These pigs are early spring pigs and will be shipped at weaning time or booked for delivery later on. Mr. Anderson never makes public sale but sells his pigs usually at about weaning time. He has been very fortunate in doing this and has built up a fine trade. He says that he can sell them for a very low figure then as compared to what he has to get later on in the season. Besides the express is much less. He has about 50 pigs, three litters of them of January farrow. Their dams are Lady Perfect 2d 279994, by B. & C's Col.; Red Lady, a granddaughter of B. & C's Col.; Baxter's Model and Anderson's Queen 2d, by Kant Be Beat. Mr. Anderson attended the Davis dispersion sale at Glenwood, Mo., where he bought a very fine herd boar to place at the head of his herd. He is registered as Model Chief and was sired by Ohio Col. 87047 and out of Model Queen, one of the great sows of the breed. Mr. Anderson bought the top from the lot of sensational fall boars offered in this sale. Red Boy, by old Tatarax, is also in service in this herd. Look up Mr. Anderson's advertisement in this issue and write him about his offering of pigs for delivery at weaning time or later. He will please you with what he sells you or stick to you until you are pleased. This is the way he built up his big business selling on mail order.

Pleases His Clients.

Jas. T. McCulloch, Clay Center, Kan., is the breeders' favorite auctioneer in north central Kansas. He has been on the job 11 years and has arrived at the place in his career where he is being called on by some of the best breeders in the West to conduct their sales. One of the most prominent breeders in the state who has employed him regularly for three years and who attends many of the big sales, recently told me that he considered Mr. McCulloch the equal of any of them. Last winter he sold

almost exclusively for breeders and all of his dates were taken and he turned down a number that were offered him because he did not have the open dates. "Jim" McCulloch is an unassuming man with the ability to make friends on and off the auction block. He has gained the reputation of being absolutely square and of being able to get the value of an offering of purebred stock, either cattle, horses or hogs, that many older auctioneers do not possess. His prices are reasonable and the service he is able to render will assure you of the truthfulness of every statement made by him many friends over north central Kansas. Write him for dates.

N. E. Kansas and N. Missouri

BY C. H. WALKER.

Buy Jerseys in Missouri.

"Buy your Jerseys in Missouri," is an invitation B. C. Settles of Palmyra, Mo., as manager of three Jersey cattle sales to be held in May and June, extends to all farmers and breeders interested in this great breed of dairy cattle. The sales in question are those of M. A. Sullivan to be held at Humphreys, Mo., on Monday, May 5; R. T. Tesson at Clayton, Mo. (a suburb of St. Louis), on Wednesday, May 7; and H. J. Morris at New Cambria, Mo., on June 11. Mr. Settles announces that something over 200 head of imported and American bred Jerseys will be sold in these sales, representing the very best breeding of the Island and the United States. Missouri farmers are taking a keener interest in good dairy stock than they have manifested for a long time and they are fortunate in having three as good sales from which to select breeding stock. A feature of these sales aside from the rich breeding, individual merit and performance at the fall is the fact that every animal over 6 months of age will be tested before sale day and a health certificate furnished the buyer. Entry and transfer certificates will also be given upon payment for the animal. Mr. Settles' work in pushing the Jersey cattle interests of this state deserves a considerable interest on the part of Missouri farmers who appreciate the value of a good milking animal and realize in them a very necessary adjunct to their agricultural operations. These sales doubtless will be an impetus to the business for the coming year. Further information will be cheerfully given by dropping a card to Mr. Settles at Palmyra.

"To the Manor Born."

Examples of the old saying that "An artist is born, not made" are to be found in abundance among men in Missouri who are identified with the livestock and agricultural interests. In this instance the saying applies to breeders of purebred or pedigreed livestock. One doesn't have to be over observant to note that a great big percent of the successful breeders are born, not made. Of course a knowledge of the breeding business may be acquired, but one must have the love of the profession in his heart. It is an inherent quality that makes for the most successful of our breeders. An example of this was called to mind the other day in visiting the herd of A. C. Brockman of Centralia, Mo. Mr. Brockman realized the necessity of handling purebred stock in connection with his farming operations and selected the Duroc-Jerseys. No one has heard him express any regrets about selecting the wrong breed, though he would have been as successful in producing a highly improved type of any breed. He had no special training along the lines of improved breeding, but he has been producing a type

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen:—We have been overrun with inquiries for the bred sows advertised in Farmers Mail and Breeze and other papers and Farmers Mail and Breeze did its part. We received 159 letters in the past 6 weeks. Inquiries for our Shorthorns are also very heavy. Shows a good healthy condition of our business. Yours very truly,

C. S. NEVUS,
Breeder of Shorthorns and Poland Chinas,
Chiles, Kansas, March 22nd, 1913.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen:—I advertised a cheap 40-acre tract in your paper, sold the next week to the first man that came to see it from this ad and also received over 100 letters of inquiry and three men came to see the farm after it was sold. From the benefit I received from this little ad I took out \$100.00 worth of advertising with your agent.

Yours very truly,
O. J. TAPP,
Real Estate Dealer,
Warrensburg, Mo., Dec. 15th, 1912.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.



HEREFORD SALE

90 HEREFORDS, 50 BULLS, 40 COWS
BREEDERS' COMBINATION SALE KANSAS CITY, MO.
In the Fine Stock Sale Pavilion at the Stock Yards
MAY 6, 1913

50 Big Strong Bulls of serviceable age, royally bred, showing both character and quality, including 7 good Polled bulls. 10 Young Cows of superior quality and most popular breeding. A carefully selected and reserved lot of High Class Herefords, both males and female, from 10 of the best herds of Missouri, Kansas and Iowa, contributed by the following well known breeders:

Gudgell & Simpson, Independence, Mo., 15 cows.
Z. T. Kinsell, Mt. Airy, Iowa, 12 cows.
E. E. Wall & Son, Leeton, Mo., 15 bulls, 1 cow.
Samuel Drybread, Elk City, Kan., 15 bulls.
John Schmitt, Tipton, Kan., 8 bulls.
O. S. Gibbons & Son, Atlantic, Iowa, 2 bulls.
Kan. Agricultural College, Manhattan, Kan., 4 cows.
J. L. McGinnis, Moulton, Iowa, 8 bulls.
E. D. Gorman, Linnville, Iowa, 3 bulls.
R. M. Fields & Son, Lees Summit, Mo., 2 bulls, 2 cows.
E. W. Elliott, Montezuma, Iowa, 4 cows, 7 bulls Polled.
Ed. Walton, Bowen, Ill., 3 bulls Polled.

Sale to begin promptly at 10 o'clock a. m.
For Catalogs or other information address

R. T. THORNTON, Sales Manager, 1317 E. 15th St., Kansas City, Mo.

of hogs that have done much to improve the stock of his community and gradually each year the demand for his stock spread until today he has calls from a wide range of territory. He just naturally knew a good animal, had a good type in his mind and set about to produce it. As a result of careful selecting and mating he has a herd of sows that for uniformity, prolificacy and breeding worth are seldom excelled. It wasn't a question of any special line of breeding, though of course he was careful in selecting his foundation stock from reputable breeders and of popular strains. But it goes to show that the qualities of patience, perseverance, a natural eye for good stock, a love of the business and a desire to improve his own stock and that of his community with the commercial side of it a second consideration, has been rewarded by a demand for his produce that is making him big money and giving him a whole lot of satisfaction over what the speculator or the man who has acquired but superficial knowledge of the business can possibly get.

An Important Hereford Event.

The wave of prosperity which the breeders of Hereford cattle have been enjoying for the past 12 months continues unabated and if supply and demand have anything to do with it the good times will continue for years to come. R. T. Thornton of Kansas City who has been closely identified with this particular breed, both as a breeder and as manager of the well known annual sales held at Kansas City, says a new era for cattle breeding is at hand. "From the four corners of the earth come the cries of high prices and scarcity of beef," says Mr. Thornton, "and the cattle breeder is coming into his own. The Herefords have stood the test of time and are now riding on the top wave of prosperity. There isn't any reason why this condition shouldn't continue indefinitely, for the shortage is so marked and the demand so heavy that it will take years to catch up. There never was a more propitious time for the farmer or young breeder to get into the cattle business, to discard his grades and tie to a good purebred." Kansas City as a distributing point for purebred stock has long taken first rank. breeders and farmers from all over the world come to Kansas City for breeding stock. A big event in Hereford circles will be the sale of 90 head at the pavilion at Kansas City on May 6. This is a combination sale managed by Mr. Thornton and will include consignments from the following well known herds: Gudegill & Simpson, Independence, Mo.; Z. T. Kinsell, Mt. Airy, Ia.; E. E. Wall, Leeton, Mo.; Samuel Drybread, Elk City, Kan.; John Schmitt, Tip-ton, Kan.; O. S. Gibbons & Son, Atlantic, Ia.; Kansas Agricultural college, Manhattan, Kan.; J. L. McGinnis, Moulton, Ia.; E. D. Groman, Lineville, Ia.; R. M. Fields & Son, Lees Summit, Mo.; E. W. Elliott, Montezuma, Ia.; and Ed Walton, Bowen, Ill. Fifty bulls and 40 females have been listed for this sale. The male offering includes five Polled bulls and any number that are of superior quality and good enough to go to the best of herds. The females are said to be of a superior quality; will sell safe in calf to herd bulls of established reputation. Mr. Thornton in speaking of this sale said: "The stock we will offer is the kind to buy in starting a herd, the kind for the older breeder to buy to strengthen his herd. I do not believe there is a cow in this offering whose first calf will not pay for her when 15 months of age. These cattle have not been pampered, but will be sold only in good, thrifty, breeding condition. We have stood the expense of the entire winter's feed and now offer them in the pink of condition to turn out on grass." Those desiring further information should correspond with Mr. Thornton at 1317 East 16th St., Kansas City.

S. E. Kansas and S. Missouri

BY ED. R. DORSEY.

Drybread's Hereford Bulls.

Samuel Drybread, owner of the Star Breeding Farm, at Elk City, Kan., and one of the largest breeders of Hereford cattle and Duroc hogs in America, will consign 15 bulls to the breeders' sale at Kansas City May 6 and 7. They run in ages from 12 to 26 months old, in weight from 800 to 1,300 pounds. They have extra good bone, splendid color, proper shaped horns and are lined up right. They run mostly to Anxiety blood lines and five of them are grandsons of imported Britisher. Among them are bulls fit to head the best of herds. Not a common one in the lot. The owner is selling as many bulls as anyone in the West, in fact few enjoy the patronage, and this will be as good a lot as he ever consigned to any sale and he has sold a great many in the largest and best cattle sales in Kansas City and other great sales. This offering was selected from 150 head. Those in the market for good bulls should pay strict attention to the Drybread offering. They are suitable for both herd and ranch. The sale will open at 9 a. m. May 6 and if you wish to know more of the breeding write Samuel Drybread of Elk City, Kan., or R. T. Thornton, 1317 E. 15th street, Kansas City, Mo.

Stalter's Summer Sale.

J. C. Stalter of Jasper, Mo., breeder of the extreme large type Poland China hogs, now has near 100 head and has by far the largest early spring pigs we have seen. Mr. Stalter has one of the neatest little farms in the state. It adjoins the city limits. He has one of the most comfortable winter farrowing pens in the country. September 6 is his annual sale date. At this time he will sell about 65 head and nearly one-third will be fall yearlings, bred. Perhaps six or eight of his private herd sows will be sold and the balance will be the top of his 1913 farrow which will include a number of his best spring males. At the head of this herd is Jack Johnson 175801. We are safe in saying the best son of old Designer 98067. We think enough of this hog that we have advised his owner to show him at the Missouri State Fair and American Royal. He will, when well fattened, weigh close to 1,000 pounds, and he is well made all over. Not only is he a massive individual but his owner thinks him the best breeder he has owned. He is assisted by Ring Leader 62387, a very perfect hog with much finish and quality, but not so much size as Jack Johnson. The sows are of the large, mellow, massive type. Few are larger in any herd, north or south, and they have that good breedy appearance. Just the sort of sows that look like money makers and they are by such well established and noted sires as Black Chief, Blain's Wonder, Hadley Boy, Erie Expansion, What's Ex, 2d, Smith's Big Hadley, Major Look, Designer and Lobb's Chief Tecumseh.

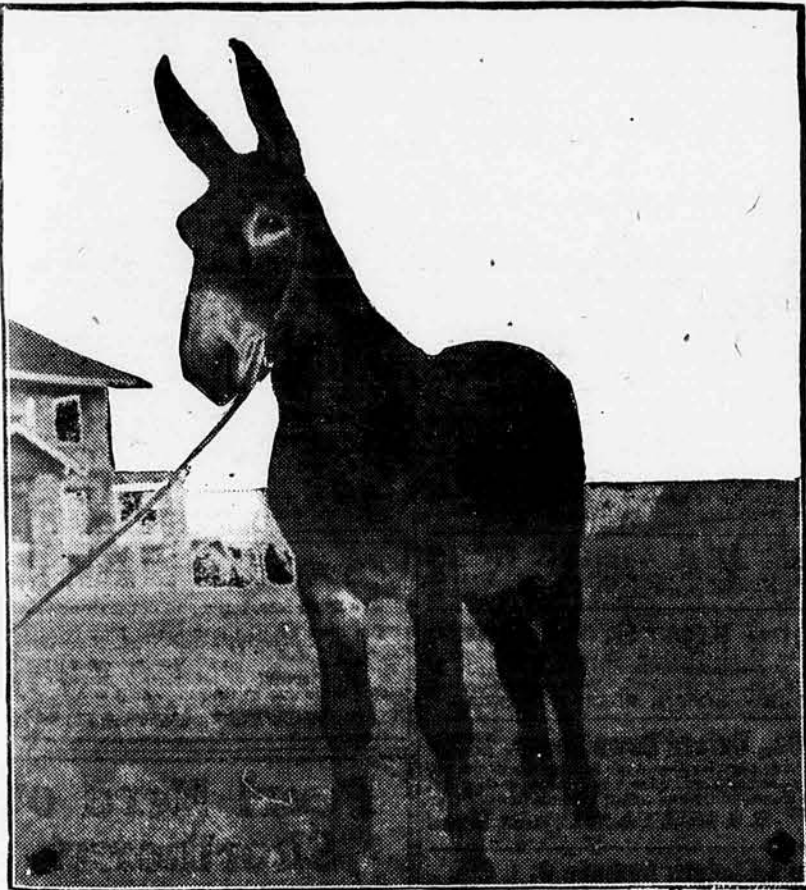
Editorial News Notes.

Have You Sold Your Broomecorn?

If you have broomecorn on hand drop a line to Broomecorn, care of Farmers Mail and Breeze, stating the quantity and the price at which you hold it.

A New Manure Loader.

If you would like to rid yourself forever of heavy, tiresome, back-breaking drudgery of handling manure by hand, just turn to



A MISSOURI JACK.

The above illustration is a fair representation of the great stable of jacks owned by Bradley Bros. of Warrensburg, Mo. It is possible that no firm has gained such a reputation in so short a time. In fact few dealers are better known than this firm. They make a specialty of the big boned kind. They never allow their stables to be empty, as they are well posted and know where the largest and best jacks are in the three great jack states. For fair and honest dealings they have a first class reputation and a guarantee from them is as good as can be obtained by any firm or company. They are not only dealers but breed a great many jacks. Their jennets are of the highest breeding and of the largest size.

LIVESTOCK AUCTIONEERS.

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

Wm. H. Harper, LIVESTOCK AUCTIONEER.
GLASCO, KANSAS. Phone for Dates.

JAS. W. SPARKS Live Stock Auctioneer
MARSHALL, MO.

COL. HOMER BOLES, Randolph, Kan.
Livestock and General Auctioneer.

Col. D. F. Perkins, Concordia, Kan.
Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write for dates.

L. R. BRADY LIVESTOCK AUCTIONEER
Manhattan, Kan. Write or wire for dates.

COL. S. B. YOUNG, Osborne, Kan.
Livestock Auctioneer. Write for dates.

N. S. HOYT, Mankato, Kan.
Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

T. E. GORDON, WATERVILLE, KANS.
Livestock and Real Estate Auctioneer.
WRITE FOR DATES.

G. C. DENNEY GUIDE ROCK, Nebr. Livestock Auctioneer. Pure bred stock sales and big farm sales. Write or phone.

Will Myers, Livestock Auctioneer
Beloit, Kansas. Write or phone for dates. I am located right to give good service.

Col. J. R. LLOYD, ATHOL, KANSAS
LIVESTOCK AUCTIONEER.
Write for terms and dates, and reference

W. B. Carpenter,
Live Stock and Real Estate Auctioneer.
Also President Missouri Auction School.
14th and Grand Ave., Kansas City, Mo.

John D. Snyder HUTCHINSON, KANSAS
LIVE STOCK AUCTIONEER
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

Learn Auctioneering

at World's Greatest School and be independent. Write today for free catalog. Jones National School of Auctioneering, Washington Blvd., Chicago, Ill. Carey M. Jones, Pres

POLAND CHINAS.

Sunny Side Poland Chinas The herd of size bone and quality. Stock priced right. Satisfaction guaranteed.
J. G. BURT, SOLOMON, KANSAS.

LARGE WITH PLENTY OF QUALITY!
Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock.
OLIVER & SONS, DANVILLE, KANSAS.

NEBRASKA TYPE POLANDS Choice summer and fall boars and fall boars and gilts, by Haden's Big Hadley and Fan Wonder, and Nebr. Chief. C. C. INGRAM, Bloomington, Neb.

SPOTTED POLAND CHINAS
A few young males ready for service. Faulkner blood lines. W. C. SIMPSON, Attica, Kan.

Klein's Tabor Valley Herd
Big type Poland China fall gilts bred or open, sired by my Iowa boar and out of my big matured sows. Write for prices.
L. E. KLEIN, ZEANDALE, KANSAS.

EXPANSIVE CHIEF FOR SALE!

One of the greatest breeding sons of the great Expansive. A 2-year-old and a proven sire. Also a few extra toppy fall boars—herd headers—by Expansive Chief and Long King's Best. All are immune from cholera. I have just the boar you want.
H. B. WALTER, EFFINGHAM, KANSAS

Robinson's Mammoth Poland Chinas!

My herd boars weigh from 800 to 1,025 lbs. Now have for sale, two good tried boars and a few extra good last fall pigs of both sexes. My terms are: If you are not satisfied return the hog and I return your money.
F. P. ROBINSON, Maryville, Mo.

BIG TYPE UNPAMPERED BERKSHIRES

200 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetime, King's Truetime, and the great show boar King's 10th Masterpiece. All long large and heavy boned. Sows farrow all through April, May and June. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth.
E. D. KING, Burlington, Kansas

EX B. by EXPANSIVE

one of the greatest breeding boars of the day heads my herd of over 250 head. Two extra good boars by him, August farrow, for sale. Also choice line of fall gilts, open. Booking orders for spring pigs. Write or call.
W. R. WEBB, BENDENA, KANSAS.

Pleasant Valley Stock Farm! Big Boned Poland Chinas

H. C. LOOKABAUGH, Prop.

We are now offering a few choice fall boars at choice prices. They are the kind that make good. Satisfaction guaranteed. Address

L. W. CUTRIGHT, Mgr., Watonga, Okla.

POLAND CHINA.

100 SPRING PIGS Sired by King Hadley, King Blain, Jr., King John and Long John 2nd; orders booked for May and June delivery.
W. Z. BAKER, Rich Hill, Mo.

Albright's Fall and Winter Boars and Gilts for sale. 40 head of nice, smooth individuals, sired by Cavett's Mastiff, by King Mastiff, and out of big type sows. Write for prices.
A. L. ALBRIGHT, Waterville, Kansas

Schneider's Poland Chinas

Can furnish choice summer and fall pigs, pairs or trios, not akin, by Gny's Expansion and Gold dust Hadley. All of breeding age and priced to sell.

JOE SCHNEIDER, Nortonville, Kansas.

NEBRASKA BIG TYPE BOARS

Some outstanding September boars by Referendum 56623 and out of Whiteface Queen. Real Herd Header material priced low to make room.
A. N. WAECHTER & SON, Riverton, Nebr.

Big Type Polands!

Young boars ready for service and open gilts ready to breed. They are strong in the blood of Big Hadley and A. Wonder. The big smooth kind. Every description guaranteed. Call on or write.
A. R. ENOS, RAMONA, KANSAS.

45 BRED SOWS AND GILTS

Poland Chinas, in public sale, Thursday, April 3rd. Also a few choice fall boars in same sale or at private sale. Hogs of a higher order but priced within the reach of all.
ROY JOHNSTON, South Mound, Kansas

COLUMBUS

The 1050-lb. Grand Champion, 1912, Nebraska, Kansas, Missouri and American Royal, heads my herd
Big Type Poland Chinas
R. B. BAIRD, Central City, Nebraska

Harry Hoak's Poland Chinas

Spring boars and gilts, pairs and trios unrelated. Fashionable big type blood lines. The finest lot of pigs we ever raised. Call or write today.
HARRY HOAK, Attica, Kan.

Summer Poland Chinas

Big Type June and July gilts being bred to GOLD MINE for July and August farrow. Serviceable boars, litter brothers to above. September and October pigs by GOLD MINE and PAN LOOK. Both sexes. Priced right.
DIETRICH & SPAULDING, Richmond, Kansas

John Harter's September Boars

25 selected Sept. boars to pick from. Sired by Mogul's Monarch, Long King, Prince Hadley and Gebhart. Well grown and desirable as herd boars. Prices right. Satisfaction guaranteed.
J. H. HARTER, WESTMORELAND, KAN.

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

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.

A. D. JONES

of DUNLAP, IOWA

has for sale 40 fall boars sired by 2,000 pound boars and from 600 and 800 pound dams; strictly big type Poland Chinas. I breed for length, bone, large litters and quick maturity. I also have 50 fall gilts, to be in the market this fall and winter and 100 spring pigs that are doing fine.

the ad of The Anderson Mfg. Company, Osage City, Kan., in another part of this issue and then write for their circular showing how you can load cornstalk or green manure as easily and quickly as rotted manure and without any hard work. No farmer with any quantity of manure

DUROC-JERSEYS.

\$40 Bred Gilts \$27.50

\$35 Boars, \$22.50; Fall Pigs, either sex, \$7.50. Write for special introductory offering of Draper's big boned, long, healthy, pure bred, guaranteed Durocs; raised in spring watered, sanitary, timbered pastures, on meat, peanuts and clover. Largest herd of pedigreed Durocs in N. W. Arkansas, shipped from my Oark White River stock ranch. Address: W. R. Draper, 10th & Baltimore, N. C., Mo.

Duroc March Pigs \$9.00 and up, by Model Again, Long, Lad and Tattarrax Boy. R. W. Baldwin, Conway, Kan.

A Fine Offering Fall Boars and Gilts
Booking orders for spring pigs. Best of breeding. R. C. WATSON, ALTOONA, KANSAS.

DUROC - JERSEYS 10 head of well-bred. boars and gilts for sale. J. R. JACKSON, KANOPOLIS, KANSAS.

White Rock Duroc-Jerseys
Tried sows and gilts for sale and some choice fall boars. Write N. B. PRICE, MANKATO, KANSAS.

Big Type Durocs
Sold out of bred sows and gilts. Plenty of fall gilts open. Fall boars with all kinds of quality. Fall sale Oct. 17. MOSER & FITZWATER, Goff, Kansas

BRED GILTS I have an exceptionally fine lot of Duroc gilts bred to my prize-winning boars for sale, bred right and fed right. Write for prices and description. CHAS. L. TAYLOR, OLEAN, MISSOURI

Royal Scion Farm Durocs
Fashionably bred Durocs. Spring and Fall boars and gilts by the great Graduate Col. 28279 and Col. Scion 100471. Out of choice dams. G. C. NORMAN, Route 10, WINFIELD, KAN.

Deep Creek Herd Durocs!
Orders taken now for early springs, dams either state fair prize winners or sired by prize winners. Write for low prices. C. O. ANDERSON, MANHATTAN, KAN.

Good E. Nuff Again King 35203
Heads our great herd. Sale average: March 11, sows, \$77.50, and gilts, \$52.00. Write for prices. W. W. OTEY & SONS, Winfield, Kansas

HILSIDE DUROCS
Sold out of bred sows and gilts. Still have some choice summer and fall boars and gilts, \$20 to \$40. W. A. WOOD & SON, Elmdale, Kansas.

Perfection Stock Farm!
Fall boars and gilts, also orders booked for choice spring pigs by State Fair Champions. Pairs and trios not related. Prices right. CLASEN BROS., UNION CITY, OKLA.

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.

DUROC-JERSEY BOARS
10 head of well bred Duroc-Jersey boar pigs, healthy with good backs, feet, head and ears, dark cherry color, of popular breeding and priced reasonable. F. O. B. your station if wanted. ARTHUR A. PATTERSON, Ellsworth, Kan.

TATARRAX HERD DUROCS
Some good fall boars and gilts by the grand champion Tattarrax and G. M.'s Tat Col. In good condition and priced right. Write today for further particulars. Hammond & Buskirk, Newton, Kan.

Dreamland Colonel
Summer and fall boars and gilts for sale. Everything immune. Nothing but desirable animals offered. Prices reasonable. LEON CARTER, Asherville, Kan.

Quivera Place Durocs
A few, choice summer boars and gilts, sired by Quivera 106611. E. G. MUNSELL, Herington, Kansas.

Bonnie View Farm
Duroc-Jerseys: Fall and spring pigs. Plymouth Rocks: Eggs in season. Searle & Cottle, Berryton, Ks.

Bancroft's Durocs!
We hold no public sales. Nothing but the best offered as breeding stock. 12 choice September boars. September gilts open or bred to order for fall litters. 90 March pigs. Pairs or trios not akin. Prices right. Customers in 8 states satisfied. Describe what you want, we have it. D. O. BANCROFT, OSBORNE, KANSAS.

MULE FOOT HOGS.

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 KANSAS.

Mule Foot Hogs Bred gilts for spring farrow all sold. Some choice boars for sale. Am now booking orders for pigs of February and March farrow, in pairs not related. ZENE G. HADLEY, Box D, Wilmington, Ohio

to handle can afford to overlook this new, well-tried device, which is in the reach of all.

Shingles 150 Years Old.

Gustav Stickley, the "craftsman," says that he personally has found cypress shingles on buildings 150 years old, still sound and durable. And that seems long-lived enough to satisfy anybody. The Southern Cypress Manufacturers' association "Room 1," Hibernia Bank building, New Orleans, La., has issued several very attractive and interesting little-books about cypress lumber for farm buildings. Don't re-roof an old building nor erect a new one without first sending for the booklets. When you write, tell what you expect to build and they may be able to make some money-saving suggestions. Cypress certainly does last.

"The Imperial Pulverizer."

Among the labor-saving farm machines that is rapidly coming into general use is an invention that pulverizes, rolls and levels the soil all in one operation. It was invented by A. F. Peterson, a practical farmer living near Kent, Ohio. It consists of two parallel rows of hollow disk rollers, the rear one so placed that its disks track between those of the row in front. In this way fragments of clods that escape between the front row are pulverized by the rear disks. An important feature is the fact that these disks apply pressure upon the sides of the lumps, in addition to exerting the downward force given by common rollers. They also pack the soil a couple of inches below the surface, enabling it to hold moisture and providing a good bed for the roots as well as a loose mellow and level surface to receive the seed. This implement saves a second or third trip over the field with harrow or roller and is a great time and labor saver. It is known as the Imperial Pulverizer and full information regarding it will be cheerfully furnished upon writing The Peterson Mfg. Company, 136 River St., Kent, Ohio.

Hog Cholera Losses Still Mount Into the Millions.

While it is true that every year sees the farmers and hog raisers losing millions of dollars from hog cholera, it is almost safe to predict that the time will come when this terrible swine plague will be wiped out of existence. This, however, can only be brought about by intelligent, systematic efforts of the hog raisers themselves. The solution lies in prevention. Everyone knows that smut is not nearly so common today as it was a generation or so ago. And why? Simply because physicians have for years been urging the adoption of preventive measures until now nearly everyone is immune to that dread disease and even when it does appear it is not nearly so virulent as it was formerly. The remedy is a time tried and proven one, simple and inexpensive. It consists in mixing a small quantity of Merry War Powdered Lye with swill and feeding twice daily, night and morning. If the hogs are on a dry ration, the Merry War Powdered Lye should be mixed with the drinking water and given to the hogs both night and morning. Full directions on every can. The treatment makes the animals strong enough to resist hog cholera, besides which it acts as a wonderful tonic, toning up the system, creating a hearty appetite and greatly assisting in the perfect assimilation of the food. It is a proven fact that hogs on a Merry War Lye diet, when it is fed according to directions, take on weight wonderfully quick and the "finishing period" is thereby greatly lessened as regards both time and quantity of food consumed. Every farmer and hog raiser should by all means investigate the strong claims that are made for Merry War Powdered Lye by its manufacturers, the E. Myers Lye Company of St. Louis, Mo., and which are enthusiastically endorsed by thousands of practical hog raisers who use it continually. It is a very cheap remedy, costing only 10c a can, a sufficient amount to feed a hog for two months, and can be obtained at nearly all drug, grocery and feed stores. Full case of 48 cans \$4.80. The E. Myers Lye Company have just issued a most valuable book "How To Get The Biggest Profits From Hog Raising," a copy of which will be sent to anyone free on request and we earnestly advise anyone interested to write for a free copy at once.

Prize Winning Seed Corn.

There is absolutely no question that improved seed corn is one of the things that the wide awake progressive farmer is most interested in at the present time. The agricultural press for some time has been teaching and preaching better seed corn and our farmers are coming to realize the advantage of planting purebred seed instead of scrub seed which was prevalent a few years ago. On page 21 of this week's issue of Farmers Mail and Breeze is the ad of Mr. S. G. Trent of the Brown County Seed House, Hiawatha, Kan. This firm makes a specialty of Reid's Yellow Dent and Boone County White and has won the first prize for five successive years at the state corn show at Manhattan. This surely indicates something of the quality of corn sold by this firm. The corn is sold at a reasonable price. The firm which Mr. Trent represents is entirely reliable and our readers need not hesitate in placing their order. If any of our readers are in the market for good seed corn, don't fail to write Mr. Trent and ask for a copy of his catalog. He will be glad to send you one. Mention Farmers Mail and Breeze when you write and you will receive a prompt reply. Don't delay. Sit down and drop Mr. Trent a postal card now while you think of it.

The Latest Thing in Corn Planters.

The Rock Island Plow Co. have gotten out a corn planter that is truly a wonder. It's their Rock Island No. 1. When you want to change the number of grains to the hill all you have to do is to pull a lever and it's done. You don't have to stop your horses, get off the machine, or fool around with a wrench, or go to any bother. You don't have to leave your seat. You just pull the lever and that's all. This particular model of Rock Island planter is also instantly changeable from edge drop to flat drop. It is done by simply shifting the plates without emptying the hopper. The machine gives straight rows and equal distance between hills regardless of the speed of the horses. This is done whether the corn is large or small. We are informed

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order. Young Heifers and Bulls at \$75, \$100 and up. Two Heifers and a Bull, not related, \$200 for the three—Others higher.



Over 200 Head From Which to Select

A great variety of prize winners and prize winning blood. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

COWS WITH CALF AT FOOT AND RE-BRED.
RICHLY BRED YOUNG THINGS, SHOW PROSPECTS.
HANDSOME YOUNG BULLS, HERD HEADER MATERIAL.
RUGGED YOUNG BULLS, THE FARMER AND STOCKMAN KIND.
In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. LOOKABAUGH, Watonga, Okla.

Registered GALLOWAY CATTLE

We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

BERKSHIRES.

LEON A. WAIT'S Berkshires
A good herd at Winfield, Kan., headed by Lord Duke 34, 132802.

Hazlewood's Berkshires!
Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

HAMPSHIRE.

WRITE J. F. PRICE, Medora, Kans.
For prices on Pedigreed Hampshire Hogs

PURE BRED HAMPSHIRE
Breeding stock all sold. Booking orders for spring pigs. ALVIN LONG, Lyons, Kansas

Pedigreed Hampshires of various ages, not a kin. Four boars, 8 months old. C. E. Lowry, Sumner County, Oxford, Kansas

Hampshires All Sold

I have sold every sow that we can spare. Am booking orders for May and June delivery. Low prices. First orders get March pigs. T. W. LAVEROCK, PRINCETON, KANSAS.

O. I. C. SWINE.

O.I.C. Pigs Pair, \$25.00, Harry Haynes, Meriden, Kansas

GOOKIN'S O. I. C. HOGS. Booking orders for spring pigs by five different boars, out of sows not akin. Priced to sell. E. C. GOOKIN, RUSSELL, KANSAS.

CHESTER WHITE HOGS
Good quality, either sex, the short-nose kind. Write for prices. FRANK PROCHASKA, Glasco, Kans.

Grand View Stock Farm
Choice O. I. C. fall gilts, bred or open. White Wyandotte chickens. Eggs for sale now. Stock in season. Write for prices. ANDREW KOSAR, GLASCO, KANSAS.

O. I. Cs., Oxford Down Sheep, BARRED ROCKS
2 good boar pigs, large enough for service of the big bonded, growthy kind. Also a few extra good gilts, bred to Commodore and out of Climax, one of "The kind that wins." W. W. WALTWIRE & SONS, Peculiar, Missouri

Neel's Cholera Immune O. I. C's.
Pure bred seeds and S. C. R. I. Reds. Hogs all ages for sale reasonable prices. Special on sows and gilts bred for spring farrow. Have choice lot Reid's Yellow Dent, Boone Co. White and Carter's seed corn at \$2.00 per bu. shelled and \$3.00 in ear. Recleaned Texas Red Rust Proof seed oats and seed rye. Some fancy S. C. R. I. Red cockerels at \$1.00 and \$2.00 each. Eggs for setting \$1.00 per 15, \$4.00 per 100. Riverside Farms, J. H. NEEF, Boonville, Mo.

ABERDEEN-ANGUS.

DENTON'S Angus Bulls all sold but a fine lot coming on for fall trade. Write your wants. W. G. DENTON, DENTON, KANSAS

ANGUS CATTLE

Bulls and females for sale; singly or in carload lots. Address SUTTON & PORTEOUS 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.

SHORTHORNS.

SHORTHORNS A bargain in a year-old bull. This bull is right in every respect. Also some young bulls. L. M. Noffsinger, Osborne, Kan.

SHORTHORN CATTLE
POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. Thos. B. Murphy & Sons, Corbin, Kas.

Shorthorn Bulls

20 yearling bulls. Grades and pure bred. Good proposition for ranchman. Bred Berkshire sows. Daughters of Artful Champion 129065 bred to Jardy. Daughters of Danesfield Duke 10th 130879 bred to Robinhood Premier 2d 140430. These hogs are immune. W. J. GRIST, OZAWKIE, KANSAS.

Glenwood Farms Announce
Shorthorn Sale, bulls and cows, June 6, 1913.

Can spare no more bred sows. Have a few choice boars left. Plenty of Shorthorns, always. We build the most complete concrete silo yet offered the public. Have several on our place. They are a success. Write for particulars. Address, C. S. NEVIUS, CHILES, KAN.

Pearl Herd of Shorthorns

Young bulls up to 18 months of age, either Scotch or Scotch-Topped breeding. Well grown and in good growing condition. Can ship via C. R. I & P. A. T. & S. F., U. P., and Mo. Pac. Address

C. W. TAYLOR
ABILENE : : KANSAS

DAIRY CATTLE.

Holstein-Friesian Bulls
Prices right. H. N. HOLDEMAN, Meade, Kan.

HOLSTEINS FOR SALE 50 head registered 50 head registered heifers and large bulls. 13 head milking and coming fresh grade heifers and cows. M. P. KNUDSEN, Concordia, Kansas

HOLSTEINS—CHOICE BULL CALVES
H. B. COWLES, TOPEKA, KANSAS.

HOLSTEINS
FOR SALE: Thirty head extra selected high-grade Holstein cows and heifers. Two registered bulls, "yearlings". ARNOLD & BRADY, MANHATTAN, KAN.

BANKS' FARM JERSEYS
Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale. W. N. BANKS, Independence, Kan.

OAK HILL HOLSTEINS
Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. BEN SCHNEIDER, NORTONVILLE, KAN.

Neosho Breeze Stock Farm
Offers for sale high grade Guernsey bull calves, 2 to 4 months old, \$15 to \$22.50. Reg. Duroc-Jersey Sept. dams, \$15 and \$20 each. S. C. Buff Leghorn eggs \$1.00 per 15, farm range. John Perenoud, Humboldt, Ks.

Register of Merit Bull—Jersey
Year old. Solid fawn. Son of Flora's Golden Fern, 4 in R. of M. Dam Sultan's Beauty, 512 lbs., 1 year, when 23 months old. \$120.00. Bargain cannot be equalled. R. J. LINSOTT, Holton, Kansas

BONNIE BRAE
Holsteins For Sale
75 head high grade Holsteins, consisting of coming 2-year-olds and about 50 head of heavy springers, from 2½ to 5 years old. All first class dairy cattle. Also registered bulls. IRA ROMIG, Sta. B, TOPEKA, KANSAS.

POLLED DURHAMS.

Polled Durham Bulls
Six well bred young bulls and a limited number of cows and heifers for sale. C. M. HOWARD, HAMMOND, KANSAS.

RED POLLED CATTLE.

RED POLLED CATTLE.
Cows and heifers for sale. No bulls over six months. Poland China big type registered fall boars. Write CHAS. MORRISON & SON, Phillipsburg, Ks.

Foster's Red Polls
Write for prices on breeding stock. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

HEREFORDS.

KLAUS BROS.' HEREFORDS
A few choice young bulls and heifers for sale, sired by Fulfiller 3rd, Fulfiller 25th and Beau Onward. Our calf crop is the best we ever had. KLAUS BROTHERS, BENDENA, KANSAS.

STAR BREEDING FARM
HEREFORDS AND DUROCS.

We are offering (40) two year old bulls, (25) bulls from twelve to fifteen months old. They are right, bred right. Sold singly or in carload lots. SAM'L DRYBREAD, ELK CITY, KANSAS.

HOLSTEINS.

Registered Holstein Bulls!
Only 5 ready for service, and seven 8 to 12 months old left. Sired by King of the Butter Kings, \$10,000 Milk and Butter King, and King Segis Hengerveld, nearly all out of A. R. O. dams. Prices \$85 to \$125. No females.

ROCK BROOK FARM
Station B. Omaha, Nebraska.

JACKS AND JENNETS.

Jacks and Jennets 5 head of Jacks and 10 Jennets. Quitting business. Write for prices. E. M. HICKMAN, Okmulgee, Oklahoma

Jacks and Jennets
One of the largest selections of large Black Mammoth Jacks in the West, 15 to 16 hands standard. I have the large kind that all are looking for; the kind that bring the large high-class male. Reference the five banks of Lawrence. AL. E. SMITH, LAWRENCE, KANSAS.

PUREBRED HORSES.

Percherons--Red Polls
I will sell several choice Percheron stallions, blacks and greys, of serviceable age (3 to 6 years), weighing from 1800 to 2200 lbs. and broke to service. Also a fine bunch of choice

RED POLLED BULLS
10 to 36 months old, good ones, all fully guaranteed and priced low for next 30 days. Address GEO. W. SCHWAB, Clay Center, Neb.

that in spite of these many advantages of the Rock Island No. 1 corn planter, it is sold at a very reasonable price. Certainly it should be a good investment for any farmer who has as much as 10 acres of corn. We believe it would be a mistake for a man to buy a corn planter without first investigating this machine. It is sold by a great many implement dealers and doubtless by a dealer in your town. The thing to do is to drop a line to the Rock Island Plow Co. and ask them for pictures and descriptions and to tell you where you can see a No. 1. State in your letter that you were advised by this paper to write and you will have no trouble getting the information wanted. The Rock Island Plow Co. is located at 271A Second Ave., Rock Island, Ill., and they maintain a special service for answering letters from farmers, so that no doubt if you write today you will get an answer by return mail.

A Great Line of Harvesting Machinery.

Following their progressive policy of keeping in the foremost rank as farm implement manufacturers, the Moline Plow Co., Moline, Ill., have added a line of harvesting machinery, which is in perfect keeping with the high standard so long maintained by their celebrated Flying Dutchman line of plows, planters, Spreaders, drills and other implements. It has long been the desire of the Moline Plow Co. to add a line of high grade harvesting machinery. Instead of going through the unsatisfactory experimental stages necessary in designing and building an entirely new line of such machines, they have purchased the well established business of Adriaance Platt & Co., Poughkeepsie, N. Y. This company for nearly 60 years has manufactured the famous Adriaance binders, mowers, reapers and corn binders, which have demonstrated to hundreds of thousands of farmers, in all parts of the world, their superiority over similar machines. Owing to the great demand for Adriaance harvesting machines in eastern states and foreign countries, the sale of this line has not been pushed to any great extent in this particular section of the country, but from now on, the Moline Plow Co. with their thousands of Flying Dutchman dealers, will sell the complete Adriaance line in every section of the United States. The Moline Plow Co. will continue to manufacture the harvesting machines in the splendidly equipped Adriaance-Platt factory at Poughkeepsie. We would advise our readers to write the Moline Plow Co., Dept. 15, Moline, Ill., and ask for their catalog of harvesting machinery. It is fully illustrated, and will prove both interesting and valuable reading to every farmer.

Crops and Farm Work

(Continued from Page 19.)

early grass. Hogs \$8, wheat 71 cents, corn 38, barley 35, butter fat 31.—F. G. Casford, April 10.

Cloud County—Flocking rains the last three days, all of which the ground absorbed. Ground too wet to work. Oats have started in good shape. Wheat is making a remarkable growth. No corn planted yet but most ground is disked and ready for the lister. Most potatoes planted but not much gardening done yet. Apricot trees in bloom and some prospect for peaches.—W. H. Plumly, April 11.

Osage County—A 3-inch rain this week increased stock water. Some had been hauling since last summer. Wheat looking fine. Small acreage of oats this year but a large acreage of Kafir will be planted. Bulk of old corn crop still in cribs. Rough feed plentiful and cattle in good condition. No hog disease but hogs are very scarce. Fruit prospects good. Egg crop immense. Fresh cows with calves selling for \$70, hogs \$8.50, wheat 85 cents, corn 45, Kafir 37, eggs 15, cream 32.—H. L. Ferris, April 12.

OKLAHOMA.

Custer County—Spring two weeks later than usual. Fine rain April 8. Oats all up and looking fine. Small acreage of corn being planted. Grass starting and a good many farmers still pasturing wheat.—E. E. Baker, April 12.

Comanche County—Wheat looks fully as good as a year ago. Oats growing slowly. Corn just coming through and indications favor a good stand. Very moderate acreage planted. Some Kafir being planted, also a little Kafir.—Fred E. Wiersig, April 11.

Pawnee County—Corn planting delayed by wet weather. Oats hurt some by the cold weather of March but are beginning to stool now. Oil men are digging wells in the northwest part of the county.—V. Funkhouser, April 11.

Beaver County—Nice rain April 8 with cool weather following. Wheat and oats looking good. Some reports of wheat blowing out. Farmers busy preparing ground for planting. Work well in hand. Broom-corn \$30 to \$60 per ton. Kafir 33 cents, eggs 13.—M. B. Edwards, April 10.

Kay County—Fine rain April 7 was good for oats and pasture. Corn planting being rushed. Prospects good for bumper crop this year. Lightning struck Bert Robertson's barn near Peckham, burning the building, all his feed and six horses. Cattle and hogs high.—Sherman Jacobs, April 9.

Cleveland County—Frost this morning with a cold north wind. Fruit in bloom and safe yet. Large acreage of corn being planted. Alfalfa making a wonderful growth especially on bottoms. Wheat and oats coming on fine. Lots of young chickens and pigs. Hay \$7, eggs 15 cents, butter 25.—H. J. Dietrich, April 12.

Washington County—Too much rain with frequent freezing hurt oats through March. Early sowings show worst effects. Big rain the first of the week put a stop to corn planting. About half the crop planted. Best wheat prospects in years. Some fear of chinch bugs. Pastures coming on fine and some stock has been turned out.—J. M. Brubaker, April 12.

Tulsa County—Have had about 3½ inches of rain here in the last two days. More moisture in the ground than there has been in five years. Largest acreage of oats ever sown here and it looks well. Nearly half the corn planted. Acreage considerably less than usual. Cotton and Kafir acreages to be increased. Most stock out on pasture. Hogs \$7.80, corn 50 cents, oats 40, eggs 13.—W. H. Booth, April 10.

PUREBRED HORSES.

200 Percherons Stallions and Mares For Sale. Singmaster & Son, Keota, Iowa

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.

Truman's Pioneer Stud Farm
America's Largest Importers

Shire, Percheron and Belgian Horses
Write for Illustrated Catalogue. TRUMAN'S, Box E, BUSHNELL, ILLINOIS

PUREBRED HORSES.

The Best Imported Horses One thousand each. Home-bred regis. tered draft stallions—\$250 to \$650 at my stable doors. A. LATIMER WILSON, CRESTON, IOWA.

FOR SALE AT

Riverside Stock Farm
10 Head of Young **STALLIONS** Registered

4 head of Percherons coming 3 years old, weighing from 1650 to 1800 lbs. Any one will make a ton horse. 4 head coming 2 years old; all black, weighing from 1500 to 1600; when matured will weigh from 2000 to 2200. They are the big bone kind. 2 black, registered, 4-year-old Percheron mares. 2 standard bred stallions that weigh 1250 to 1280. 1 imp. Ger. Coach stallion, Mikus 4801 (133105), brown, 16-2, weighs 1550 lbs., 7 years old and sound. 4 head of young Mammoth bred years old and sound. 4 head of good, heavy boned and well broke. All these animals will be sold cheap for the quality. Pedigrees and breeding quality guaranteed.

O. L. Thistler & Sons, Chapman, Kan.

150 miles west from Kansas City, Mo., on the main line of the Union Pacific R. R.

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River. Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and mares of serviceable ages for sale. Write us. JOS. WEAR & SON, Barnard, Kan.

60-Bergner & Sons' Coach Horses-60

German Coach Stallions at prices you will be able to pay for at one season's stand. Also mares and fillies; all good bone with plenty size, style and action and the best general purpose horse that has ever been imported. The St. Louis Fair Champion Milon 3159 and the Kansas State Fair prize winner Mephistoles 4221 at head of herd. We are pricing these horses to sell and guarantee satisfaction. Write today or call soon. J. C. BERGNER & SONS, Waldoek Ranch, PRATT, KANSAS.

Imported Percherons and Belgians

I have now for sale a lot of personally selected coming 3 and 4-year-olds as good as France and Belgium can produce. Good heavy bone. Straight draft type with quality and the best of breeding. I give a gilt-edge guarantee, good for two years, with each horse sold. All in just good breeding condition and will be a good investment to the purchaser. I can save you some money on a stallion. Barns four blocks from the A. T. & S. F. depot. W. H. RICHARDS, EMPORIA, KANSAS

Mammoth Jacks, Percheron Stallions

14 Head of Kentucky Mammoth Jacks

from 3 to 6 years old, from 15½ to 16 hands high with 9 and 10-inch bone; priced to sell quick. Write today for prices and description. Five Percheron stallions left for sale cheap. Farm and sale barn on 21st Street, one mile east of Wichita Union Stock Yards.

J. C. KERR, Wichita, Kansas

Percherons and Royal Belgians

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 on application. Address WOLF BROS., Albion, Boone Co., Neb. IMPORTERS and BREEDERS

Stallions and Mares at Bargain Prices

Percherons, Belgians and Shires

95 Head of Stallions and Mares

Forty Percheron Stallions, 2 to 4 years old, blacks, greys and a few bays all registered in the Percheron Society of America. Several of these 2 year olds will now weigh 1,800 to 1,950. Price, \$500 to \$1,000. Three, a little higher.

Fifteen Belgian Stallions, 2 to 5 years old, bays and sorrels. Two-year-olds that are weighing a ton. Price, \$500 to \$1,200.

Thirty Percheron Mares 2 to 8 years old; blacks, bays and greys, all registered in the Percheron Society of America. Twenty-two showing heavy in foal. Price, \$300 to \$700.

Ten head Shire Stallions and Mares I will sell at bargain prices. All of these Stallions have been examined and found to be of pure breeding and sound and certificate as such will go with each horse; if you want a real bargain in an imported or American bred Stallion or Mare come right away as I mean business.

L. R. WILEY, Emporia, Kan.



THE forty years of Montgomery Ward & Company's service to the American people has as its foundation stone this motto, "*Sincerity of Purpose.*" The founders of this great business have never departed one hair's breadth from this high plane of integrity.

In the many millions of transactions with many millions of people not a single case of real dissatisfaction has been known to remain in question.

This house regards it a favor to be told of an instance where a customer has not felt that he or she has been thoroughly pleased with the goods bought from them.

This policy and purpose is still the guiding star of the institution after forty years of testing its worth.

If you trade with us you must be satisfied with your purchases. If anything you order does not wholly and fully meet with your approval we insist on your returning the goods and we pay all the expenses.

Is not this principle the world's greatest example of commercial sincerity? Is there any higher basis on which we can ask you to look over the wonderful bargains in the new big catalogue we have issued? Why not get a copy today? Simply write a note and say, "I want one of your 1913 catalogues. Send it to me without cost or obligation." And the next mail will bring it to you. Address Dept. U16.

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