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THE FARMERS MAIL AND BREEZE



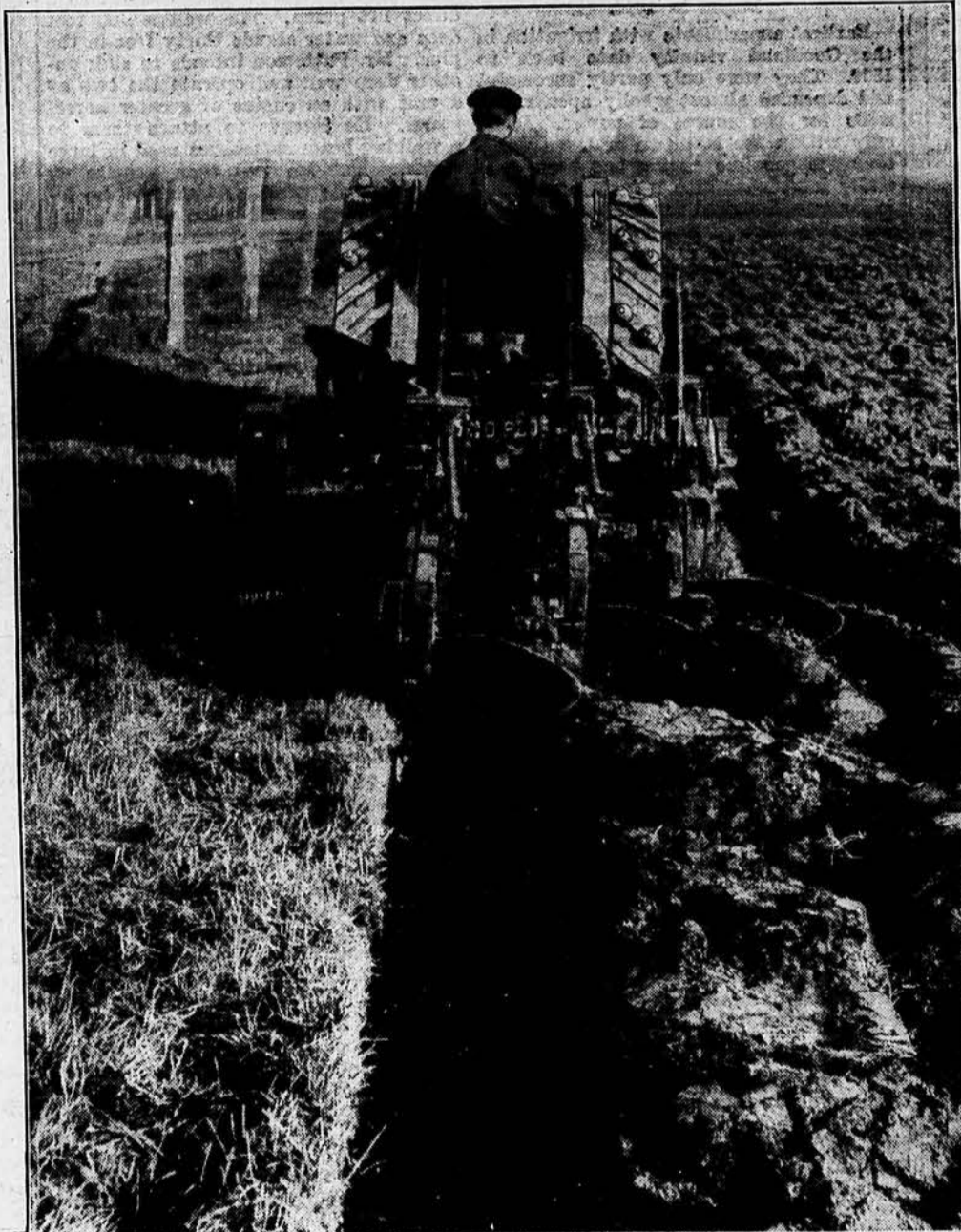
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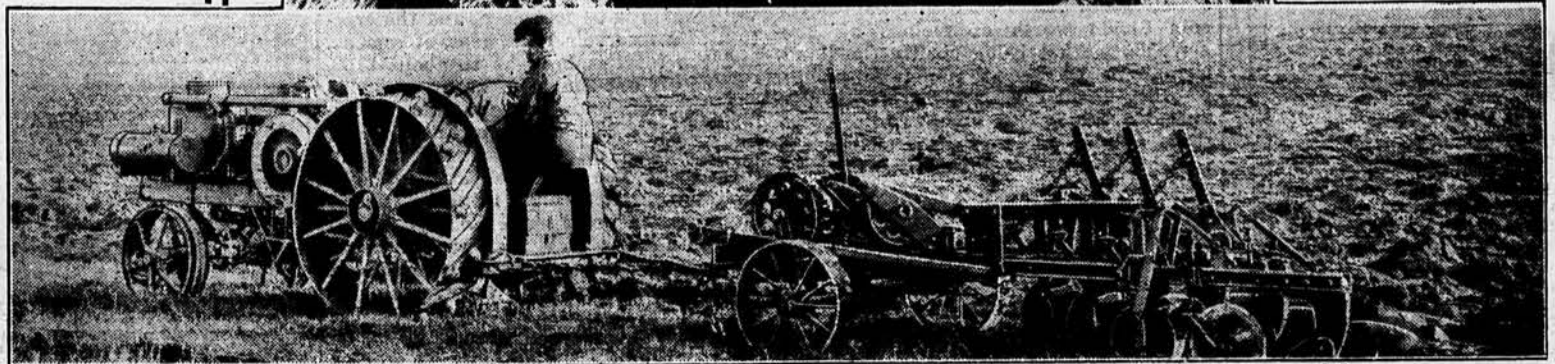
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They Pump From Deep Wells

Good Returns from Underflow Irrigation at Goodland

BY VICTOR SCHOFFELMAYER

IRRIGATION with water drawn from wells 150 to 200 feet deep is in successful operation at Goodland, Kan. Goodland is the center of a very fertile agricultural region, which has a soil equal to the best and an unexcelled climate, but it has an annual rainfall of 20 inches or less. A distance of 100 to 150 feet below the level of that part of western Kansas lies an abundance of water, which it is proposed to bring to the surface and direct into irrigation ditches. Borings show that several layers of water are reached at depths ranging from 50 to 150 feet. Large pumping stations at Goodland, such as that of the Rock Island lines, with a depth of 207 feet and a never-failing supply of water, though 10 million gallons are pumped a month, and that of the city waterworks, with a daily capacity of 350,000 gallons a day, are proof positive that water is present in large quantity. The waterworks well is 168 feet deep.

Began in 1890.

Earliest experiments with irrigation in the Goodland vicinity date back to 1890. They were only partly successful and depended almost wholly upon windmills for the source of power. It is only within the last two or three years that the gasoline engine has been generally introduced into irrigation projects in Kansas. I visited several farms where windmills were giving surprisingly good results, lifting water from wells as deep as 120 feet and more, but they were not to be relied upon as a continued source of power, owing to the decrease in the wind pressure at certain times of day and night. With the greater development of the gasoline and petrol engine a new era in irrigation has begun in western Kansas, which it is believed will result in an ultimate transformation of agricultural conditions there.

Henry C. Tagtmeyer, nine miles northwest of Goodland, last year irrigated 15 acres with a 60 horse power Charter gasoline engine and a Lane and Bolder No. 5 centrifugal pump, with a capacity of 1,200 gallons a minute. The well is 107 feet deep and the pump is placed in a pit at a depth of 80 feet. The plant cost about \$3,000. The construction of the well does not allow sufficient water to enter the 30 inch corrugated iron casing to supply the pump and only about 500 gallons a minute are drawn to the surface. Mr. Tagtmeyer will sink another well and he hopes the two will supply the needs of the pump. The engine consumes three gallons of coal oil distillate an hour, which is bought in Goodland at slightly more than six cents a gallon. The plant has been in operation two years and has been watched with interest. The engine has been run for as many as 17 hours a day continuously, and as high as 40 acres has been irrigated in a season.

Acres of Melons.

Mr. Tagtmeyer's use of water in irrigating watermelons has brought him a wide reputation. This year he has five acres of cantaloupes and watermelons of excellent quality. They are planted about 15 rows to an acre, on sod which was turned two years ago. The land is a rich loam. Last year Mr. Tagtmeyer sold \$1,500 worth of melons off one acre, his market being chiefly Goodland, though he shipped to Colorado points. He took about 6,000 melons off an acre and sold them at an average price of 25 cents apiece. He says watermelons are the best crop for irrigation that he ever raised, though cucumbers this year threaten to eclipse the previous figures.

It is Mr. Tagtmeyer's first experiment with cucumbers. He planted only one-sixth of an acre and they are yielding thousands of cucumbers, which sell for about 30 cents a dozen in Goodland. An estimate of his cantaloupe crop this year is 8,000 melons, which will sell for about 4 cents wholesale in Goodland.

The Kentucky Wonder Bean has proved itself one of the most prolific yielders on the Tagtmeyer farm. It is a string bean which thrives when water is applied. The pod matures satisfactorily in spite of the excessive heat, which in July and August this year registered

well up in the 100's. The beans were shipped largely to Stuttgart and other nearby points where they brought fancy prices. They yielded at the rate of about \$300 an acre.

Tomatoes on one-fourth of an acre yielded at the rate of \$400 an acre and were selling in Goodland early in August at 10 cents a pound. They had been irrigated twice. An acre and a half of Yellow Globe Danvers onions, under irrigation, yielded 300 bushels an acre and sold for about \$1.25 to \$1.50 a bushel. They were sowed in the open and weeded by hand. Self-blanching celery off an eighth of an acre brought an income of \$200 an acre and parsnips sold at the rate of \$300 an acre. Sweet potatoes off one-fourth of an acre sold for 8 cents a pound and yielded 200 bushels an acre.

A Well 160 Feet Deep.

A. T. Patterson lifts water 130 feet with a four and one-half horsepower Challenger gasoline engine, coupled to a direct lift pump. The well is 160 feet deep and water stands thirty feet in the pipe. Mr. Patterson intends to sink another deep well and operate the two as a unit with an engine of greater horsepower. He intends to attach them to a walking beam sometimes used in large waterworks. He will then irrigate 40 acres and a garden. At present he irrigates only a small tract of land, but he has success raising peas and beans for local consumption.

C. C. Evans irrigates 60 acres of alfalfa seven miles north of Goodland with a 25 horsepower Alamo gasoline engine and an eight-inch American centrifugal pump with a capacity of about 1,500 gallons a minute. His well is 80 feet deep and an 18 inch galvanized perforated casing is used. The lift is 40 feet. An acre and a half of watermelons and three acres of potatoes are irrigated. His outfit cost him \$1,700.

A Monitor windmill of ten-foot wheel diameter lifts water from a well 115 feet deep on the farm of R. D. Hartwig, six miles south of Goodland. There are 16 feet of water in the well. Mr. Hartwig irrigates a garden from a pond 32 by 16 feet and 4 feet deep. The mill lifts about a quart of water at each stroke and the flow is sufficient for the needs of 50 head of cattle and 45 work horses and mules on the place. The owner intends to erect a gasoline engine and a three-inch centrifugal pump to replace the windmill in order to get a larger flow of water.

A Samson steel windmill on the farm of Henry Miller, a neighbor of Mr. Hartwig, raises water from a well 120 feet deep. It ejects about one gallon at each stroke. Thirty cattle and 35 workhorses have all the water they need, and Mr. Miller irrigates a garden and a grove of shade trees.

Windmill irrigation from deep wells is more popular than is commonly known. At Goodland there are several farmers who get satisfactory results with air motors. T. J. Strange, 25 miles southeast of Goodland, irrigates an acre under intensive cultivation. He has a Dempster, ten-foot wheel, and the whole machine, including pump, cost him \$100. Add to this the expense of sinking the well, which is 90 feet deep, and the erection of a reservoir 12x16 feet, of cement, and the total is brought to about \$160. Onions off one-fourth of an acre yielded \$50. Beans, peas, cabbage and watermelons off a half acre brought in about \$150, besides all Mr. Strange's family consumed. The field was irrigated seven times. Mr. Strange homesteaded his land a dozen years ago. He says irrigation on a larger scale than now practiced will change the agricultural conditions of western Kansas in a few years.

The largest irrigation project in the immediate vicinity of Goodland is on the ranch of S. O. Gibbs, which adjoins the town on the east. In all 55 acres are irrigated, of which 30 acres are alfalfa, which this year has been cut three times and yielded 55 tons of excellent hay. The alfalfa was sown a year ago last May. Mr. Gibbs irrigates, also, during the fall and winter, so as to soak the ground and prepare it for the dry season.

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THE FARMERS MAIL AND BREEZE

An Agricultural and Family Journal for the People of the Great West



Volume 44
Number 3

TOPEKA, KANSAS, JANUARY 17, 1914.

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Power on the Farm

TRACTOR farming has become a necessity in Kansas, largely because of the increasing scarcity of farm labor. If big machinery is properly used on the larger farms where it has a good chance, it will cut the cost of production. One of the very important advantages of plowing with power is that the soil can be stirred to a greater depth, and this is important in Kansas farming, especially in wheat growing. Farmers have been "skimming" the land in this state for a good many years when plowing, and it is about time that the soil was deepened a little by plowing at the proper depth.

The experience of all good farmers in Kansas has shown that early, deep plowing for wheat in an average year will increase the yield several bushels above that on land plowed shallow at the same time, or plowed deep later. Deep plowing is essential for the best yields in Kansas with wheat, but it is an ideal that is realized in but a small proportion of the fields. A man may start plowing in July with the best intentions in the world about plowing deeply, but when the horses begin to blow and sweat because of the heavy pull caused by deep stirring, the plow usually is raised.

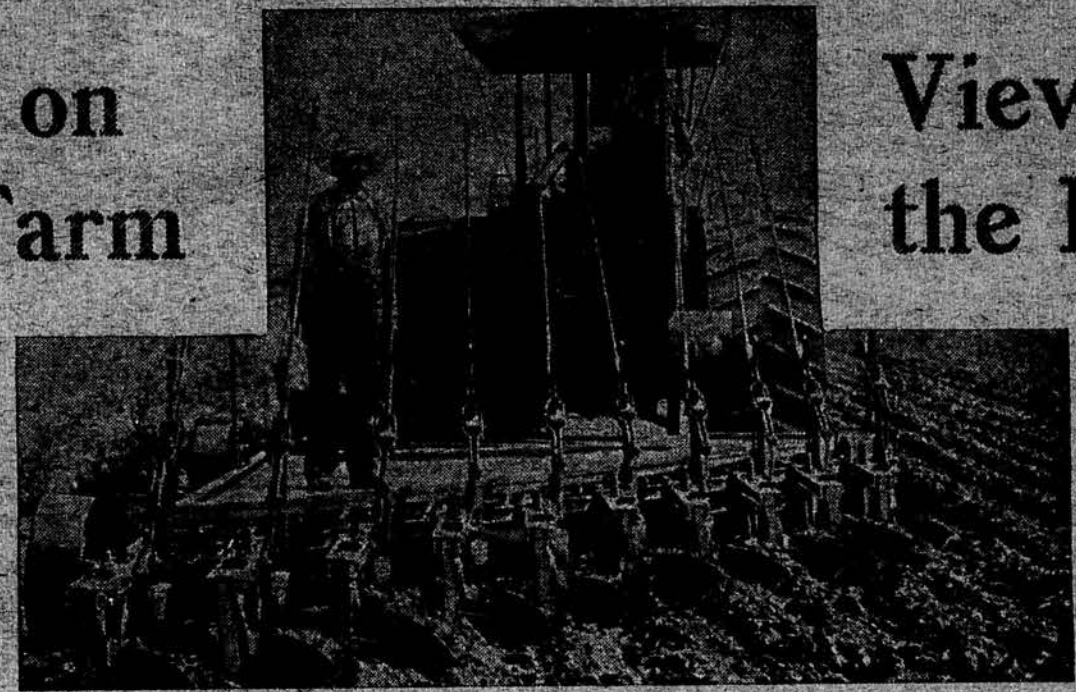
Heat has little effect on the tractor. It does not sweat and blow, and it is not necessary to drive into the shade of the trees every half hour on a hot afternoon, when the temperature has climbed to 100 degrees. It can be kept going all the time, except for a few brief rests to take on fuel and to oil up,



Our Old Friends Still.

and at the first of the season, when it is very important that the soil should be plowed, it can be kept going day and night. Ten hours a day of work on a plow is all that a horse can stand in hot weather. Power plowing is all that made it possible last fall to put in the big wheat acreage. Kansas had more than seven and a half million acres of wheat in 1913, and it is believed that the 1914 crop will be still larger. Much of the ground for this crop was plowed late in the season. When the rains finally came, last fall, so the soil could be worked, there was the most amazing demand for tractors in Kansas that the farm machinery companies had ever known. One company sold 67 tractors in ten days, and it had to charter a special train to bring them to Kansas. Several other companies had almost as good a trade.

Big engines are well adapted to the needs on the larger Kansas farms, but there is a large demand—and a proper one, too—for an engine that will do



The Work of Ten Men is Done by Two in Modern Ways.

good work on the average size farm. A. W. Buxton at Utica has one of the smaller tractors that has given good results. It has 20 horsepower and pulls five 14-inch plows. It takes from one and one-half to two gallons of gasoline to the acre when plowing, depending on the condition of the soil. In drilling wheat, when the engine was pulling three 12-disk drills, Mr. Buxton has drilled 300 acres with three 55-gallon barrels of gasoline.

In double disking, a barrel of gasoline is all the engine needs for getting over 80 acres. A solid disk is run in front and a cutaway disk behind, and the soil is stirred from three to four inches deep. In listing it is the custom to start in the middle of the land and list fifty straight rows, and after that the outfit pulls around the ends without raising the listers. This saves some work, and it also makes circular furrows in which there is no chance for the rainfall to escape, as it might do if they were straight.

"We have had the outfit four years, but it does just as good work now as it did when we bought it," said Mr. Buxton. "In this time, we have put in two new sets of cylinder rings and one set of bull drive wheels. The cost of the repairs in the four years has been less than \$100. I have about 1,000 acres in crops every year, but I do all the work myself with the aid of one hand except at harvest time and in corn shucking."

Larger engines have given very good results under Kansas conditions. J. A. Kyle of Monument has a 30-horsepower machine that he has used very successfully. He has found that it has saved him a great deal of money. Here are the relative costs of running one day:

Horses.	
Wages seven men at \$1.50	\$ 10.50
Board at 50 cents	3.50
Feed 30 horses at 50 cents	15.00
Total	\$ 29.00
Engine.	
Wages engineer	2.50
Wages plow or drill man	1.50
Board with family at 50 cents	1.00
Gasoline, 55 gallons at 12 1/2 cents	6.88
Machine oil and grease	1.50
Total	\$ 13.38
Daily saving	\$ 15.62

THE COST OF FIRST EQUIPMENT:

Horses.	
Thirty horses at \$150	\$ 4,500
Fifteen sets harness	525
Packer	80
Seven gang plows at \$65	455
Four 8-foot drills	320
Total	\$ 5,880
Engine.	
Thirty horsepower engine cost	\$ 3,000
Gang plows	500
Packer	80
Four 10-foot drills	400
Total	\$ 3,980
Saving on investment	\$ 1,900

Viewed by the Farmers

"On six months' work—150 days—the saving is \$2,854.90, and that amount in cash will pay for a 30-horsepower engine such as I use," said Mr. Kyle. You will notice that these figures cover only the expense of purchase and operating each outfit constantly. One big item to be considered in favor of the engine is that when not running the expense is only for the wages and board of two men, which is only \$5 a day, while with the horse equipment the expense is \$29 a day whether operating or idle. When the season is

over the engine is put away, and there is no more expense, while the horses must be cared for and fed 365 days in the year.

"I have used my engine two seasons, doing almost all classes of farm work, breaking prairie sod, pulling eight 14-inch plows, or 10 14-inch plows on old ground. I pull a 12-foot Emerson roller behind the plows on old land, which puts the land in fine condition for seeding. I drilled my wheat with the engine, pulling four 10-foot drills, and drilled 1,000 acres in 12 days, using only 29 gallons of gasoline a day. Thirty-five to 40 gallons will plow 30 acres of stubble a day. I disk my sod land, pulling five 8-foot disks, double disking, and a 20-foot harrow behind which fits the sod or stubble land for wheat. The engine is used for threshing, or hauling grain to market, if some distance from town. It can be used to pull from three to five binders, as the factory makes a good binder hitch."

C. H. Smith of Beloit is another Kansas farmer



Small Engines Do Big Tasks.

who has had success with a tractor. He has found that one of the more important advantages of an engine is the speed with which one can get over the ground in plowing. He has been able materially to increase the wheat yields, by plowing the ground deeply at the proper time.

There has been an important development in the use of power in the prairie hay fields of eastern Kansas in the last few years; especially is this true in Woodson and Greenwood counties. An immense amount of prairie hay is baled in that section, and horses formerly produced the power. This is killing work on horses. There is no work harder than going around in the circle on a hot day to produce the power for a baler. Power balers are now taking the place of the old horse killers, and they are doing the work better and cheaper. This is one of the more important developments of power farming.

DEPARTMENT EDITORS

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PASSING COMMENT—By T. A. McNeal

A Waste of Life and Money

General Nelson Miles, for many years at the head of the United States regular army, and now the only retired lieutenant general in the United States, has recently visited Bulgaria and the other countries engaged in the recent Balkan war.

General Miles viewed the situation with the eye of a trained soldier who not only fought through the Civil war and took part in the most desperate and bloody battles of that awful conflict but was desperately wounded several times and after the Civil war was engaged for years in the Indian wars that afflicted the border.

He has seen war in all its phases and experienced a great many of its horrors. He says that the misery caused by the Balkan war is greater than any other he has ever witnessed. Bulgaria, where he spent a good deal of his time, has been deprived of the very flower of its young manhood. These brave, stalwart and industrious young men have been killed by the thousands in battle. Other tens of thousands have died from exposure and disease incident to the campaign. Still other thousands have been incapacitated by wounds and disease so that they are a burden on the country instead of producers of wealth.

The resources of the country have been exhausted and starvation stares a large part of the industrious peasants in the face. An enormous war debt has been piled on the backs of a people who even before their young men had been killed, died of disease, or had been incapacitated by wounds, were already carrying as heavy a burden of taxation as they could well bear.

A fair land that was making rapid strides of progress now lies bleeding, exhausted, desolated by the awful curse of war. It is now a land of desperate poverty; a land filled with widows and orphans, overwhelmed by their multiplied miseries and almost without hope for the future.

That is the showing on the one side of the ledger. What has been gained to offset this awful cost? Where are the assets to balance the tremendous liabilities? There are none. The only people who have profited by the war are those who have sold the arms and ammunition and other supplies to furnish out the armies. The only ones who have profited have never been within sight or sound of battle and have tasted none of its hardships and miseries.

War is a crime, worse than ordinary murder. The keeping of standing armies such as the nations now maintain is a crime. The building and equipping of battleships is a crime. The manufacture of great guns is a crime.

Give Them Work

In every city of any size in the country there are ever-extending bread lines, men and women and children eating the bread or drinking the soup of public charity. Perhaps under our present system that is the best that can be done to relieve poverty. Common humanity says that we cannot stand by and see our fellow creatures starve to death. If they have not the means to feed themselves they must be fed on charity.

But the system is bad enough. It humiliates and degrades the worthy poor and encourages the idle and vicious. It tends to destroy the finest thing there is in man, a spirit of independence and self-reliance. It tends to destroy efficiency, to fill the land with beggars, and places an unnecessary burden on productive industry.

The world owes no able-bodied man or woman a living, but every person born into the world is entitled to the opportunity to earn a living for himself or herself at some honest, legitimate employment.

Starting with the proposition that humanity dictates that society shall allow no one to starve, it follows as a logical conclusion that it is incumbent on society to furnish the opportunity to everyone to earn a living. This does not mean that society should own and operate all the means by which a living can be earned, but it does mean that society should see to it that no one able and willing to work should be compelled to be idle for want of employment. It also means that if there are any able to work but unwilling to do so, society has the right to say they must work, for as I said before, the world owes no man or woman a living unless they are physically or mentally incapacitated for labor.

There should be no such thing as a bread line or

a free soup house in the United States. Every one of them is an indictment of our civilization, a menace to the public welfare, an evidence of the fault of our system of government and organization called society.

There should be public works established everywhere which would afford useful employment for such persons as cannot find employment elsewhere. Then the healthy tramp would have no excuse for begging handouts. If he would not work he should be compelled to do so. Society would be relieved of an unnecessary burden. The honest and industrious man would be permitted to retain his self respect and instead of being a burden on society he would be a producer.

As it is now we have laws punishing vagrancy. In other words, we punish men for not having employment, which is all right, provided we see to it that employment is provided. Our present system of charity is illogical, expensive, degrading and demoralizing. It is also unfair in that it puts the burden of supporting the needy on the shoulders of the generous, while the selfish, who are often more able to contribute than those who do contribute, pay nothing.

It encourages idleness and frauds. The average citizen, not having time or opportunity to investigate every appeal that is made to him for help, bestows charity where it is not deserved. The tramp puts up the story that he is hungry and cannot get employment. The probability is that he is lying, but the charitably inclined citizen to whom he appeals, does not know that he is not telling the truth and rather than refuse to help a man who may possibly be in real distress without fault, gives to him blindly.

The Life of Ex-Senator Plumb

I have just finished reading the history of the late Preston B. Plumb by W. E. Connelley. In preparing this book Mr. Connelley has spent a great deal of time and labor in collecting the facts about the life of one of the most remarkable men who has figured in Kansas history and also in my judgment one of the most remarkable men who has figured in the history of the United States. The author follows his hero from boyhood to death.

The one thing that impressed me first in reading this biography was the marvelous capacity of Plumb for work. In this respect he may have had an equal among the men who have had places in the history of this or some other country, but I have never read of them. The amount of work he did was so prodigious that it seems almost impossible.

Another remarkable thing about Plumb was the very early development of his powers, both mental and physical, although in his youth it looked at one time as if he would have to yield to an incurable disease. At the age of 16 he was both a printer and editor and his editorials were not the effusions of a boyish, immature mind, as might have been expected. They showed that even at that early age he was a thinker. He wrote as a mature man, not as a thoughtless boy.

As a pioneer he endured almost incredible hardships without flinching and gave the most convincing proofs of great courage. A young man who in that early day would risk his life nursing another man who had a case of virulent smallpox, and a stranger at that, was a man not only of a big heart but a man of great courage. Plumb had not even been vaccinated. He fully realized the risk he was taking and he cheerfully paid the penalty of his self-sacrifice. As a result of nursing the friendless stranger he himself was taken down with the dread disease and for some time lay at death's door. He carried the marks of that disease to his dying day.

There have been a good many people who blamed Plumb because he did not come to the rescue of Lawrence when it was attacked by Quantrell and his band of cutthroats, but this history it seems to

The day of the people is rapidly drawing nearer. It will not be long until the wire-pullers and politicians and the privileged interests who have manipulated this government for half a century will take a back seat.—ARTHUR CAPPER.

me clearly proves that the criticisms were unjust and that Plumb did all he could.

While Plumb did not have the opportunity given to some other men to win distinction in the army, his record as a soldier was honorable and showed his energy, courage and devotion to duty.

As a statesman Plumb was always progressive. In fact his history shows that he was ahead of his time and saw with clear vision the trend of the times and conditions that were to arise in the then future. If the policy he outlined in regard to the tariff had been followed that troublesome question would have been taken out of politics and the business of the country would not have been demoralized at every change of administration.

He was the first man of prominence so far as I know, and as the Connelley biography seems to prove, who suggested a plan for putting the tariff into the hands of an expert, non-partisan commission who would work it out schedule by schedule and adjust duties from time to time as new conditions arose.

Plumb was more than a mere politician. He was a statesman. By overwork and violation of about all the rules of health Plumb shortened his life 20 years. He died at a time when he should have been in the very prime of his powers, mental and physical; but this can be said of him: He lived more in his 54 years than most men would live if they were permitted to cumber this earth as long as Methuselah.

How Are Farmers to Make Money?

It would please the members of the Farmers' Union very much if the editor of the Mail and Breeze would tell them how to make farming more profitable, so that farm boys will remain on the farm, instead of going to town.

The farmers know without the Mail and Breeze telling them, that farming is not profitable enough to offer any inducement to young men to go to farming, but what they want to know is, how to make it profitable. If the Mail and Breeze can give advice on this important question we want to hear it.—Farmers' Union.

I am not wise enough, nor do I believe any man is wise enough, to lay down a rule by which all farmers can make money. Some men would be a failure as farmers under any system that could be devised, just as a large per cent of men fail to make money in every line of business. It is probably true that as large a per cent of farmers succeed under present conditions as men in any other line of business.

There are farmers in nearly every community who have made a success financially while right beside them are farmers who have apparently worked just as hard who have failed. This is true in every line of business that I know anything about. Some men have not the capacity to manage a farm or any other business for that matter, and only succeed when they work under the direction of somebody else.

There are those who seem to think that brains are not necessary on the farm. There never was a greater mistake made. There is no place where brains count for more than on the farm.

What I think the farmers need in order to make their business more profitable and also more attractive aside from the mere matter of profit is intelligent co-operation. It seems to me that it is rather more difficult to get farmers to co-operate than any other class. And there is a reason for this. Farmers have become so accustomed to running their business in their own way that they do not take very kindly as a rule to co-operative plans where they have, in a measure, to give up the management of their business to somebody else.

It is also true in the past that a good many co-operative schemes have not turned out well. There has been inefficiency or dishonesty in the management and the farmers who went in were stung. That has made a good many of them shy about co-operative schemes. However, co-operation is correct in principle and some time will be put into general and successful operation.

Their Opinions Differ

When I wrote something about the trouble in Alsace, the province that was taken from France by Germany at the close of the Franco-Prussian war, I did not suppose that it was a matter of very much importance to the readers of the Mail and Breeze. I mentioned the incident because it seemed to me to indicate that Germany is growing weary of the burden of militarism, which I think is a hopeful sign of

the times. I have been somewhat surprised therefore to receive a number of letters from ex-residents of that country who are naturally interested.

The only trouble is that the writers do not seem to agree. One tells me that I am mistaken about the real situation, while two others tell me that I am correct. Of course my knowledge is gained entirely from reading and may be inaccurate, but I am interested in what these subscribers who came from that country have to say. Here for instance is a part of a letter written by John Fisher, of Marlon.

Traveling and lecturing as I did for many years in my fatherland, Germany, permit me to say that your opinion about Alsace-Lorraine is all right. The population is partly French and partly German. The French are opposed to the government of Berlin of course because they are French and the German population are opposed too, because they don't like the Prussian drill and smartness.

It is just the same with all the people in the southern German states. Many of the older people in these states hate Prussia and the Prussians. The Prussians robbed one German state after another and played the boss in Germany. The Prussians have a voting system by which the poor men get one vote each, the middle class two and the rich three. This helps you to understand why the population in southern Germany, including Alsace-Lorraine, does not have much use for the government in Berlin.

If the people of Alsace-Lorraine would be opposed to the German government on religious grounds why should they favor the French government? The French ministers and other officials are mostly free thinkers. Germany is not exclusively a Protestant country. The Catholic party has about 100 members in the Reichstag out of a total membership of 389.

J. Bergman, of Harper writes interestingly of Alsace and also says that I had the situation sized up correctly. He says:

I was born and raised only a few miles from that place (referring to the trouble between the German lieutenant and the Alsations) which is situated on the east side of the mountain range "Les Vosges."

I was a young boy when that unfortunate Franco-Prussian war broke out. Alsace was a French province, but like many other border countries the majority of the inhabitants speak German as well as French, but are nevertheless French in sentiment and habits, just as the American English speaking people are not Englishmen but Americans. I do not think the Catholic religion has anything to do with the unpopularity of the Prussian government which is very arrogant and overbearing toward the people of Alsace-Lorraine. The common people are burdened with heavy taxation in order to keep the big murder and war machinery going. Only the high officials and those little lordlings like Von Forstner and Von Reuter and consorts, par "La Grace de Dieu," who in a brutish way sabered a poor helpless cripple, are benefited through such a system of government. The common people derive no benefit from it whatever.

Our fathers and grandfathers fought for France. Napoleon's best generals, Ney, Rapp, Kleber, Kellerman, Clark and a host of others were natives of Alsace. "Le Marsellaise" was born in Alsace during the French revolution in the house of Mr. de Dietrich, maire of Strassburg. During the second empire (Napoleon III) we had very liberal laws and prosperity was dominant over the state. I knew some of the conditions before and after the war. In 1880, being drafted into the German army, I took French leave as thousands of others were doing, for the United States. This is the only reason I am here in Kansas today "voilà tout." I think therefore, Mr. McNeal, that you are correct in your opinion about Alsace being French.

Stands Up for Arkansas

Editor The Mail and Breeze—I notice in the Mail and Breeze of December 27, 1913, in the latter part of an article headed "Coin Harvey for Congress," the following: "His district takes in the counties in northwest Arkansas, and I must say that from what I saw down there, there is considerable room for improvement. If there is a good road in that country that has been made good by the work and wit of man, I did not happen to find it. As a rule the roads are the worst I ever saw. The majority of the people in the country live in log cabins in the part of the district I visited, and I observed that shoe merchants had not got a great deal of their money. The only school houses I observed in the country districts were made of logs and fitted up in the style common, as I have been told by my ancestors, in the wilderness of Ohio, 75 years ago."

For illustration, I live in northwest Arkansas, in a town called Gentry, in the county of Benton. Gentry is 220 miles south of Kansas City, on the Kansas City Southern railroad; it is on a high level plateau, with a beautiful prairie country, interspersed with growths of young timber on the west, rolling timber lands with an occasional rich valley on the east, a fine fertile valley on the north, and Flint Creek valley on the south, and still farther south a very level country, mostly prairie. All this country is well watered by springs, shallow wells and cool running brooks. Gentry is 1,352 feet above sea level.

On account of this elevation and fine fertile land, it was selected by the Ozark Orchard company as a site for the largest orchard in the world; hence for five miles on either side of the railroad they have a continuous orchard. Gentry has two splendid brick school buildings, and one of the best high schools in the state, which together with the principal's home, was erected at a cost of \$20,000.

Gentry has a flour mill, canning factory, two evaporators, fruit shippers' union, four churches, an auditorium, the \$10,000 Elberta hotel, with a lawn occupying one-half block of the most beautiful grounds to be seen anywhere, Citizens bank, a strong financial institution; a splendid system of water works, electric lights, telephone, four rural routes, fire department, wholesale produce market, where the farmer gets the top prices for all his products. The most of our streets have wide, substantial cement sidewalks.

This is only a meager description of one among many of the small young towns of northwest Arkansas. Our state and county are out of debt. This country is almost entirely free from malaria, mosquitoes and negroes. There is no healthier country for man, beast or fowl.

Benton county has 50,000 people. According to

statistics this is the banner apple country in the Ozarks. Many acres of this country have netted the owners as high as \$300 an acre and more in a single year. Our apples took first premium at the Centennial Exposition, Philadelphia, 1876; New Orleans, 1885; World's Columbian Exposition, Chicago, 1893; Trans-Mississippi Exposition, Buffalo, 1901; the Louisiana Purchase Exposition, St. Louis, 1904.

There are fine dairy farms and pasture lands where stock can graze the year around, to be had at a much lower price than can be obtained in northern states. I have never seen a log school house in this county, and I do not know of a single family living in a log cabin. Nearly all of our public roads are graded, and many of them graveled, which makes them like a pike.

I have traveled nearly all over the state of Kansas, and think it a great state, but I will pay the expenses of any Kansas man of good judgment, who will come down and travel over our county, and not find it as good, or even better than the average county of Kansas, in modern homes, both in town and country, and equal in roads and intelligent people.

I will admit that southeast Arkansas, like Louisiana, is best adapted for malaria and mosquitoes, but the article mentioned above was on northwest Arkansas. Arkansas has never been advertised as Kansas and most all other states. Arkansas advertising matter has been principally of such as the above article and "The Slow Train Through Arkansas."

C. C. FEEMSTER.

Gentry, Ark.
I have no doubt that all the good things mentioned in the foregoing letter about Benton county are true. I never had the pleasure of visiting that county, but it happens that this moral and agricultural guide has two handsome and very worthy representatives of Benton county connected with its staff. After reading the former article, referred to in Mr. Feemster's letter, they called on me and read the riot act to me, whereupon I assured them that it

"Editorial" Contributors

In an editorial in last week's issue the omission of one word caused the paper to say that in the future no member of the Agricultural college faculty would be permitted to appear in print "as a contributor." This sentence should have read, "as an 'editorial' contributor." The distinction lies in the fact that the names of the college men, according to the request of President Waters, are not to be printed hereafter as "Editorial contributors," but the college men will be allowed to appear in the paper as "contributors" as in the past.

The request to remove the names of the college men from the Mail and Breeze staff was prompted, President Waters says, by a desire to prevent criticism from some sources to the effect that the college men could not perform their duties, for which the state pays them, and at the same time be "editorial contributors" to the Mail and Breeze. The Mail and Breeze carried these names on its staff for many years, as a courtesy to the college, without pay.

President Waters says the men of the college will contribute to the Mail and Breeze, in the future, the same as they will contribute to any other papers in Kansas, as freely and as often as the occasion demands.

was the hill and wood country found in part of Marion and Searcy counties I had in mind.

If you will observe my language you will note that I said, "in that part of the district I visited." Perhaps I should have been even more explicit than that. At any rate I except Benton county now. It is frequently well to make exceptions.

There is a story of an Irishman, who, feeling somewhat chesty, made the general statement that he could lick any man in his township. A neighbor, Jim McDougal, heard about the sweeping statement and immediately called on the author.

"I hear, Dinnis," he said, "that you say that you kin lick anny mon in this township. I want to say that there niver was a day whin anny mon by the name of O'Cafferty could lick Jim McDougal, aven if I had wan hand tied behind me back."

"Are yez sure av that, Jim?" asked McCafferty.

"O' am," said McDougal.

"Thin I'll just mark yez aff me list," said O'Cafferty as he carefully erased the name of McDougal from the list of names he had written down.

And so if my language could be construed as including Benton county, I hereby erase that from my list.

The country I had in mind as I have said, was out in the hills where the wood ticks lie in wait for the unsuspecting traveler and the razorback hogs whet their spines on the trunks of trees or cheerfully skip from bough to bough.

How Should It Be Developed?

Writing from Polson, Mont., M. L. Dawson gives his opinion on the very important question of development of the water power. He says:

Editor The Mail and Breeze—I have read with considerable interest your article entitled, "Let the people own them," in the issue of December 13, for there is no place in these United States with

better water power possibilities than right here in what is known as the Pend D'Oreille river. It is the outlet of the Flathead lake and it is estimated by thoroughly reliable government engineers, and others, that there can be more than 200,000 horsepower developed in the first 35 miles of this river. The government controls this and has spent some \$100,000 in starting to develop, but its money ran out and it stopped work over two years ago.

The government may get an appropriation from congress in four years and maybe not for 24 years. In the meantime this undeveloped water power is retarding the development of our beautiful valley.

This is my idea of the way the government should do with these water power sites: Either develop them as soon as there is a demand for the power, or give a long term lease to some corporation so they can develop it to meet the demand of the public. It is too much like playing the dog in the manger, so to speak, for the government to refuse to make these developments and also refuse to let anyone else make them.

When it comes right down to it, what difference does it make to the public who owns a power plant, whether it be the government or private capital, just so we get the right kind of rates for the power furnished? And that is what our public service commission is for, to study the amount of capital invested and the necessary expenses of any public service corporation and set the rates they shall charge the public. That is the reason I contend in disposing of these power sites, they should be given away instead of sold.

For instance, we will say the government has sold a site for 1 million dollars and it cost 1 million dollars to develop it, you see they would have 2 million dollars invested, and the public service commission would have to figure almost twice the rate they would had the government given this site to the company. I think the consumer and not the treasury should be considered.

There is nothing this western country needs more than cheap power, and it is right at our door, but the government will not harness it, neither will it let anyone else.

It is certainly true that the government should not act the dog-in-the-manger policy with regard to water power. It is, as Mr. Dawson says, a question of how the power can be most expeditiously and economically developed. I am, however, opposed to permitting any private monopoly to get control of the enormous water powers of the country. The problem might be solved perhaps in this way: Let the government retain the ownership of the water rights and lease them if not prepared to develop them as government projects. There is this objection to government development; it usually drags along. It depends on the whims of congressmen and is often cumbered and retarded by the red tape of government bureaus and commissions.

The important thing is to preserve the water powers of the country from getting into the hands of private monopolies. It is not very material I think, whether the government actually builds its own power plants or leases the power, retaining the right to fix rates and also stipulating that the individuals or companies making the leases must proceed at once to develop the same, so that it would not be possible for them to make leases and then simply hold the control of the power leased without developing the same.

Wants Candidates Examined

Editor The Mail and Breeze—Why do we not do the sensible thing of requiring a qualification test of all state and county officers before they become legal candidates for public office by party choice, petition, appointment or otherwise?

We would not think for a moment of engaging the services of anyone for a private business without first determining the fitness of him or her for the particular work required. Our government requires a civil service test for many very minor offices as compared to those of our counties and states. I should think it quite the proper thing if we had a commission or examining board whose duties would be to prepare certain qualification tests for every public office and before any candidate became a legal or qualified applicant that he or she should show a qualification or fitness for the particular office to which he or she might aspire.

I could elaborate upon the follies and costly experiences that, no doubt, have made up a part of the political history of every county and state, but that is not necessary. Here is the suggestion: If you think it worth the while send it along the line.

O. D. WHITNEY.

Rossville, Kan.

In the case of offices where duties are almost entirely clerical and routine, that system might work out all right. In offices that are largely executive I do not think it would be a good plan. A man might be able to answer any ordinary list of examination questions who would after all be very poor material for governor. On the other hand a man might get a pretty poor grade from any examining board who would make an excellent governor.

To my mind the qualifications necessary to make a good governor are first, rugged honesty; second, firmness of purpose—in other words, courage; third, a broad humanity and charity of mind that will rise above narrow and selfish partisanship, and last but not least, a great abundance of what is generally called good, common, old fashioned, horse sense.

That sort of a man may not be a finished scholar. He might not be able to give accurate answers to any set of questions, but his heart and head balance well. He is full of the milk of human kindness but is not swayed by mere mushy sentimentalism. He is not easily fooled. He can generally distinguish between the true and the counterfeit.

These qualities however would hardly be disclosed by any civil service examination.

Parasites Kill Chinch Bugs

There Is an Enemy For the Worst Grain Insect

BY JAMES W. McCOLLOCH
Kansas Agricultural College



The Old Way Was a Good Way

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Of all the staple crop insects, the chinch bug has been the only one which there was until the present no insect parasite. It has long been thought that a parasite of the egg might exist, but there was no definite proof of this. In April, 1913, chinch bug eggs were collected in the field that bore signs of parasitism, and on being isolated there emerged from them on May 19 three parasites.

With these three parasites as a basis, the life history was carried through the summer. The length of the life cycle was found to vary with the temperature. During May and June the average length of life was from 12 to 14 days; during July 10 days, in August from 13 to 15 days and in September from 20 to 27 days.

The exact number of generations has not been worked out, but there are about nine or ten. From May 19 to July 5 there were obtained four generations of adults. At this time the chinch bug eggs became very scarce, as it was the interval between broods, and thus it was not possible to continue the life history work again until July 23. From then until October, four more generations were obtained.

The interval during which the life history work was forced to be dropped was about two weeks, or almost the length of the life cycle, so that it would appear that there might easily be nine generations. The first parasites were at work in the field about April 27, and the last parasite observed in the field this fall was on October 14.

The adult parasite is a very minute insect measuring about .03 of an inch long. Its life is short, lasting only a few days, and this short existence is occupied in constant activity during the day in hunting for mates and depositing eggs. Feeding if any, requires a very short time, and the main part of the insect's life is directed towards reproduction. So far it has not been possible to determine with any degree of accuracy the number of eggs a female can deposit.

In the experimental work the female's parasitized an average of five or six chinch bug eggs. The largest number of eggs parasitized by a female was 13. Twenty-nine females that had not been allowed to oviposit were dissected, and the number of eggs in the ovaries counted. The smallest number of eggs found was 13 and the largest 29, while the average was 23. The number of females greatly exceeds the number of males. Of 51 parasites collected in the field 47 were females, and of the 786 parasites bred in the laboratory, 512 were females.

This parasite appears to be well distributed over Kansas. It was first discovered in chinch bug eggs collected in a wheat field near Manhattan. During the summer it was found in every grain field around Manhattan, and, in fact, every place where chinch bug eggs were found. In August a hasty survey of Kansas was made, and parasites were found in these counties: Ellis, Ford, Kiowa, Ellsworth, Kingman, McPherson, Harvey, Sumner, Cowley, Riley, Pottawatomie, Montgomery, Allen, Atchison, Leavenworth and Cherokee. In fact, parasites were found wherever material was collected, and the area given includes practically all of the chinch bug infested region in the state.

The average percentage of parasitism of chinch bug eggs collected over Kansas outside of Manhattan was 16 per cent, while at Manhattan the average percentage of parasitism for the summer was 32 per cent. This percentage of parasitism over the state is much lower than at Manhattan, because it is based on only one collection of material, and some of this material was collected when chinch bug eggs were scarce.

In considering the efficiency of this parasite, it must be remembered that the normal egg laying period of a chinch bug is about two months, and that the life cycle of the parasite is only about two weeks. Thus it is seen that the eggs of a single chinch bug are exposed to three generations of parasites and in-

stead of 16 per cent being parasitized, which is the average of parasitism for one generation of parasites, about 50 per cent are destroyed by the three generations. Observations in the field and experiments in the laboratory tend to bear this out.

Kansas Farmers Buy Engines

The wheat acreage in Kansas would have been less than 5 million acres of this time had not the practicability of the traction engine as a plow puller been established. Kansas could not possibly have plowed and sowed her usual 7 million acres if it had not been for the power plowing outfits. There were not sufficient horses to do the plowing when the rains came.

Early in September rains broke the longest drouth Kansas has had, and following the rains traction engines were at work in the wheat fields. The ground had been so dry that plows could not turn it. Farmers found themselves with a serious problem. There were not enough horses in Kansas to pull the plows and get the ground ready for the wheat seeding.

One manufacturer of traction engines for plowing sold 67 engines and plows in Kansas within 10 days and had to charter a special train to deliver some of the outfits on time. Other makers sold almost as many outfits and dozens of threshing engines were taken from the wheat stacks and put to work plowing for next crop.

Harvey Men Are Co-operating.

The farmers of Harvey county are alive to the value of team work. Many schoolhouse meetings have been held in that county recently to organize for the chinch bug burning campaign, and to discuss the necessity of securing seed corn this fall. F. P. Lane, county agent, reports that those having old corn have been very generous in allowing farmers to pick their seed, and in charging only a reasonable price for it. Most of the members of the Farm Bureau have supplied themselves with seed at \$1.25 a bushel. Every township in the county is being organized now, with a captain for each half township and a lieutenant for each community, to get the help of those living in the neighborhood.

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"For five months I was suffering with an eruption on my face and hands which our doctor called eczema and which caused me a great deal of inconvenience. The suffering was almost unbearable.

"The medicine I took only gave me temporary relief. One day I happened to read somewhere that eczema was caused by indigestion. Then I read that many persons had been relieved of indigestion by eating Grape-Nuts.

"I decided to try it. I liked the taste of the food and was particularly pleased to notice that my digestion was improving and that the eruption was disappearing as if by magic. I had at last found, in this great food, something that reached my trouble.

"When I find a victim of this affliction I remember my own former suffering and advise a trial of Grape-Nuts food instead of medicine."

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Farm Made Knacks and Kinks

A Page of Useful Devices Submitted and Vouched for by Readers of the Mail and Breeze—The Welcome Sign Is Out for Other Suggestions—A Prize for Every Good Contribution.

VERY frequently one finds leaks in the roof about the chimney or elsewhere that are a source of more or less worry. To stop up these leaks, try mixing some paint and sharp sand to make a mortar. If the holes are large make the mortar rather stiff, and if small have it thin. It will be well to first paint the wood and brick where the mixture is to be applied. After it is put on paint it all over again, then sprinkle some clean sand over the paint to keep it from running. This will stop up leaks for years on any kind of roof. It will also be effective on other leaks about a building. T. C. B. Coldwater, Kan.

with it two men can handle a beef weighing 1,000 pounds. It can also be used to swing up the lard kettle, and there are many other uses for it. It can be taken apart easily, and stored, when not in use. D. W. Adams. R. 1, Oxford, Kan.

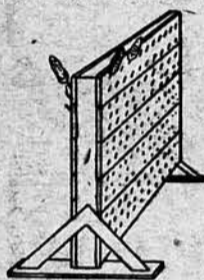
shown in the drawing. Large holes were bored at the ends for standards. I began loading the brush on the rear leaving it to drag on the ground. When ready to unload I simply take out the rear standards and snake the sled out from under the brush. Baldwin, Kan.

in around the edges of the holes as shown in the sketch. Place this device over a half-bushel measure and see how easily you can tip your seed corn. The smaller hole is for the tips and the large one for the butts of the ears. W. W. Slocum. Centerton, Ark.

Drying Rack For Seed Corn

[Prize Suggestion.]

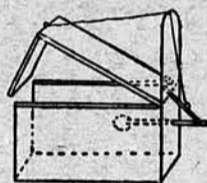
Mr. Editor—When you test your seed corn and want to be sure of an accurate record on all the ears, try this plan of corn rack. The nails are driven through the inch partition boards and each nail is numbered. By comparing numbers in the testing box and on the rack one can soon tell which ears to save for seed. The seed ears may be put on this rack in the fall as soon as picked and left to dry without handling until testing time. J. H. Olberding. Baileyville, Kan.



Rabbit Trap For the Boys

[Prize Suggestion.]

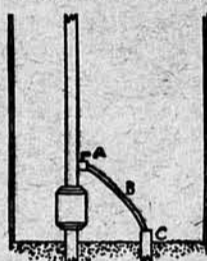
Mr. Editor—I have never seen anyone else use a rabbit trap like this but it is a good one. It can be made out of a common store box or any light lumber. The drawing will give you a good idea how to make the trap. One end and the top of the box are left open. The closed end is a board that extends several inches higher than the box. The trap door is made so it will close both the open end and side when it falls. A hole through the closed end admits the trigger, which is sharpened at one end to receive the bait. At the other end it is notched and there is also a notch at about the middle to catch in the edge of the hole. Another notch is cut a few inches above the hole for the little brace that holds up the trap door by means of the cord. Ernest Smith. Fillmore county, Nebraska.



Drain For Safety Vent

[Prize Suggestion.]

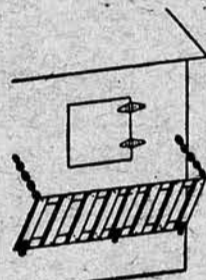
Mr. Editor—This device in a well will keep the surplus water, from the vent in the pump pipe, from collecting at the base of the excavation. This applies only to driven wells. By the side of the main pipe I drove another point and pipe (C) down to water sand. I put a small pet cock (A) in the vent hole of the main pipe and attached a short piece of hose (B) to the cock. The other end goes into the open pipe C. Harry Leclerc. Burrton, Kan.



Rack For a Few Head of Stock

[Prize Suggestion.]

Mr. Editor—I have a handy feed rack fastened directly to the side of the barn underneath the hay door. At the bottom I have a pair of common strap hinges and at the top two chains. By means of a screw hook on each side at the ends the rack can be hooked up out of the way when not in use. Use 1 by 4-inch lumber to make it. J. E. Foster. R. 3, Garnett, Kan.



To Drop a Tree Where Wanted

[Prize Suggestion.]

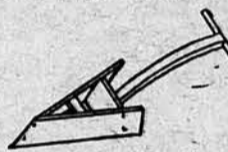
Mr. Editor—Some farmer somewhere is going to be obliged to cut down a big tree this winter. Here is a suggestion that will help you to make the tree fall in the direction you wish it to go: Simply cut two poles of the required length, one laid flat from the butt out and the other to reach from the outer end of the first up to the first limb of the tree. Cut a notch or nail a block at the end of the first pole for the upright brace, then use a block of wood underneath as a wedge, driving it up as you cut your tree. J. H. Brown. Atchison, Kan.



A Snow Shovel Substitute

[Prize Suggestion.]

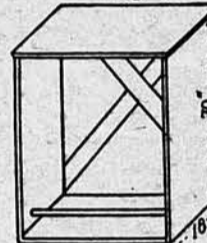
Mr. Editor—Take two boards about 3 feet long and cut one end of each on a slant so when nailed together the bottoms will stand out about 6 inches farther than the tops. This keeps the plow down in the snow. Put in some hinges and fit in a handle so you can walk behind and push. In a light snow you can open up a path as fast as you can walk. D. W. Adams. Oxford, Kan.



Wood Box on Flour Bin Plan

[Prize Suggestion.]

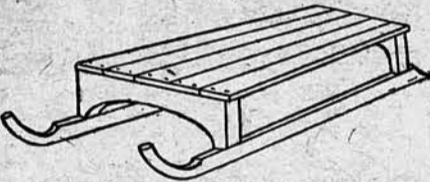
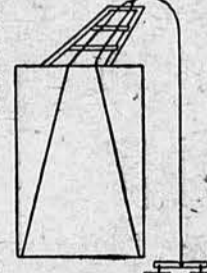
Mr. Editor—This wood box is not unsightly and at the same time it is very handy. The dimensions for the outer box are given in the drawing. The smaller box fits into the other. The sides project a few inches below the bottom and are notched as shown, to fit over the crosspiece in the outer box. Cut the corners off to a slant to allow the box to be swung out when taking out or putting in wood or cobs. The top of the outer box may be lengthened and used for a table. J. A. Heller. R. 3, Noreatur, Kan.



This Beats a Fork or Arms

[Prize Suggestion.]

Mr. Editor—For unloading brush or fodder I use a double length of rope fastened to the back of the rack as shown in the sketch. To use such a device the rack must be either a common flat-bottomed one or the back must be removed. Before hitching the team to the rope the wagon wheels should be blocked. This is a good scheme to fill a ditch with brush but the rope must be plenty long enough to reach over the ditch so the team may pull from the other side. A. B. Ewer. Towanda, Kan.

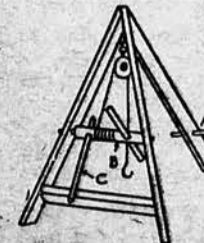


Better Than a Boughten Sled. Two holes bored in each for the frame. The two crosspieces are 2 by 4's, 18 inches long, and cut out as shown in the drawing. The runners and crosspieces are bolted together with 1/2-inch bolts, 6 inches long. Light strong boards are nailed on for the floor. A. C. McLaughlin. Claytop, Kan.

Help For Butchering Day

[Prize Suggestion.]

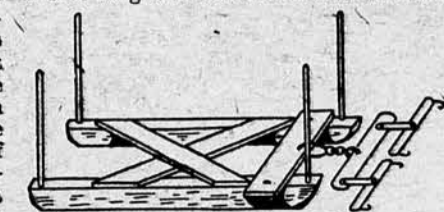
Mr. Editor—This butchering derrick is made of three 2 by 8-inch planks bolted together at the top. Near the bottom of two of the legs put a brace to keep them from spreading. The windlass (B) is put in 4 feet from the base. Three holes are bored in the drum of the windlass, two of them at right angles for crowbars and the third is for a fastening for the rope. The bar C fits rather loosely in the windlass and, when the carcass is drawn high enough, may be used to lock the windlass as shown. The derrick is set at the desired height by using a hand spike under A. We have used such a derrick for years and



Handy Way To Move Brush

[Prize Suggestion.]

Mr. Editor—This sketch shows as handy a device as I have ever seen for hauling brush out of an orchard. I selected a couple of straight poles 10 or 12 feet long and about 6 inches in diam-



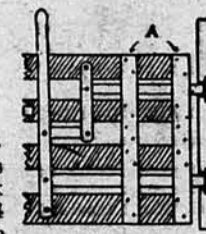
Easy To Load or Unload.

eter at the large end. I hewed them down, leaving them sled-runner shape at the big end. A 2 by 6-inch plank, 4 feet long was bolted across in front and two cross braces nailed on securely as

New Idea in Gate Latches

[Prize Suggestion.]

Mr. Editor—I have a gate that no animal can unlatch, nor can the bottom be pushed out as it is latched both at the top and bottom, and with one movement of the lever. The drawing is self explanatory. A block on one panel allows the lever to come back just far enough so the plungers will not permit the gate to open the wrong way. M. G. Bishop. Roxbury, Kan.



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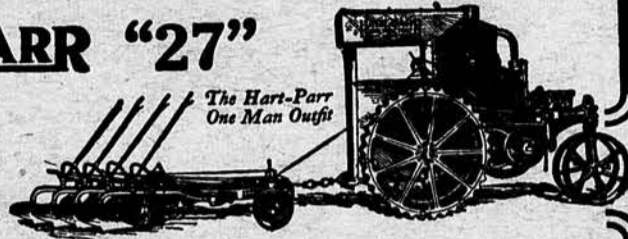
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Write for Literature. The original features of this tractor are strikingly pictured in some special circulars we have just issued. Write for them; also interesting literature on power farming costs.

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Plowing May Be Done Cheaper if Power Is Used

BY C. V. HULL

KANSAS is well adapted to tractor farming. Tractor farming or horse farming in the rough and rugged country is an expensive proposition, as proved by the many barren and untilled farms of the eastern United States. But Kansas, with its comparatively mild winters, wide stretches of prairie and fertile soil, is one of the rich, power-farming states of the Union.

While the disk plow is very popular in many sections of Kansas, moldboards are also much used. Under some conditions, the moldboard plow turns the soil more completely than the disk. There are, however, some soils which are so hard during the dry season that moldboard plows will scarcely enter them, in which case disk plows must be used.

For sod plowing, the tractor is certainly the most satisfactory power yet used. Sod plowing requires a great deal more power than stubble plowing, and animals must be rested frequently because of the strenuous work. With the tractor, this delay is done away with, for the engine can be operated double time, if necessary.

Its Advantages.

Traction farming has advantages, whether the land is plowed shallow or deep. If the plowing is shallow and the soil light, a string of disks turn over a wide strip of land, and so do an excellent job of work. If moldboard plows are hauled, and it is desired to plow especially deep, the tractor with its untiring energy keeps at it all day long. The drag harrow, weighted or not, following either a disk or a moldboard plow, levels and pulverizes the surface, forming a fine mulch, and reducing evaporation. Or, if peculiar conditions make it advisable, some other implement or implements than the drag harrow may be hauled behind the plow, to do work of a special nature.

But tractor plowing did not become up-to-date in the fullest extent until plows which are lifted or lowered by the simple pulling of a rope were designed for use with engines. The pulling of this rope sets in operation the mechanism which lifts the plows out, so that they leave the ground on a straight line. Then a second jerk of the rope drops the plows into the ground again on a straight line. This automatic lifting arrangement makes it possible for one man to operate the tractor and plow, and the wages and board of the plowman are saved. All the hard, back-breaking labor of lifting plows at the headland is done away with. There is no time lost in slowing the tractor while lifting or lowering the plows at the headland. Such a plow, hauled by a modern tractor, is the latest development in plowing apparatus.

The "One Man" Plow.

The modern way is "one-man" plowing. Up-to-date plowing is doing the work with a modern tractor, drawing a plow which can be raised or lowered by the simple pulling of a rope. It means that the outfit is used from sunrise to sunset, if necessary. Or, if conditions demand it, from sunrise to sunrise, except the short time necessary to grease, lubricate and fill up the fuel tanks. Up-to-date plowing is in line with the modern, scientific methods of production and manufacture. It rests with the farmer whether he becomes a son of toil, still

clinging to the more expensive, crude methods of production, or whether he becomes a captain of industry, whose implements and methods accord with the principles and method of up-to-date, scientific management.

The most serious objection to animal power for large farming operations is the overhead expense. In other words, the horse eats nearly as much when idle as when working. Further than that, the horse works but 90 or 100 days of the year, and consequently, must be kept at a considerable expense for 250 or more days of the year.

Many farmers, of course, do away with much of this excess expense, by using mares for farming operations, depending on the sale of the colts which are raised, to meet the cost of keeping the mares during the idle period. The colts are often sold at a profit, but the trend of the times is toward mechanical power, because it is cheaper, untiring, never-resting, and costs nothing when idle. There are many farms in the United States and Canada that are practically horseless, because the owners get better results at less expense with power-drawn machinery.

Did You Get a Binder?

The pages of the Farmers Mail and Breeze now have two numbers, one set referring to the issue and the other to the volume. An index of the paper will be published the last week in June and the last week in December, which will make the information in that volume readily available. The editorial department will do all this extra work to help the Kansas farmers who have purchased binders, and now are keeping the copies of the paper as they come from week to week.

There has been a great demand for binders for the Farmers Mail and Breeze in the last month. It indicates that the readers appreciate the value of the information in the paper, and that they do not intend to have their copies destroyed. A volume of the paper contains a record of information about Kansas farming that has become available in that time, and it gives facts that have a direct cash value on the farms of this state that can be obtained in no other way.

When one has a binder the copies of the paper are placed in it from week to week as they come, so they are kept clean. One frequently has occasion to refer to stories that were printed in past weeks, and this information is available if the numbers are placed in the binder, where they are kept together and protected. The editorial department has personally answered several hundred letters on sweet clover, feterita and livestock feeding alone this month, repeating information that was printed at length in the paper in the last three months.

The Farmers Mail and Breeze is written and printed by Kansas people for Kansas conditions and it tells of Kansas farming. The information it gives can be obtained in no other way. It can be readily kept if a binder is used.

Egg production is not measured so much by the quantity as by the quality of the food.

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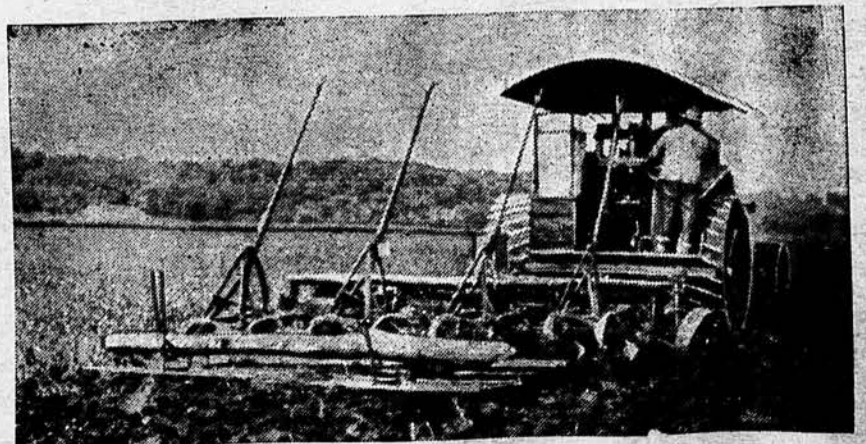
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Who's Plowed Deep in Kansas?

How Did Results Compare With Shallow Plowing?—Farm Doings

BY HARLEY C. HATCH

ALMOST every farm paper advocates deep plowing. Nearly every farmer agrees that it is the thing to do. In a general way we have agreed with the rest but at the same time we hardly know what are the actual results. We have often plowed deep and many times shallow, but we cannot say the resulting crops were any better for either kind of plowing. In a discussion of this question we have been reading recently, the opinion among farmers was deep plowing was of no benefit to their soil and in many cases an actual hurt. The territory which this discussion covered was not in Kansas and most of the farmers who took part in it had clay soils. We should like to have this question discussed by Kansas farmers. What have you observed in connection with depth of plowing in this state? Have the results been good or bad? Do crops on deeply plowed land stand drouth better than those on shallow plowing? Some of our readers must have given this question some study or had some experience; we know it is a live question, and one that will be of interest to every farmer in Kansas. The Mail and Breeze will see the favor is reciprocated.

We never have thought it good policy to feed hogs slack coal unless some feed that will keep the bowels loose is given at the same time. This means tankage or shorts slop at this time of the year. Hogs should not have any coal just before shipping as the packers object because of the difficulty of cleaning the intestines, or as the Frenchman called them, "the inroads."

The price outlook for all kinds of stock is better with the new year. From now on most farmers expect to see everything that will make meat, sell at higher prices. There is going to be a serious scarcity both in hogs and cattle for almost a year to come and the high prices predicted will come before grass does.

There has not been a year since we lived in Kansas in which grass-fat beef has not sold better in July than in August. Could it be put on the market in June it would sell better yet but that is just a little early for grass to get in its work. Poorly wintered animals will still have patches of old hair hanging to them as late as the Fourth of July and so long as the old hair is not shed an animal cannot be said to be ready for the market.

We are far enough along in our wood hauling to know that the four who bought that 2 1-2 acre patch of timber are going to get at least 20 big loads of wood and post timber apiece. Besides this, there are 25 big trees yet to cut along the creek banks. One of these trees, of the non-splitting kind of "damp" elm, has at least two big loads of wood in it. If anyone wishes this tree as a present we stand ready to give it to him. There are two or three things we should like mighty well to know how to do; one is how to kill chinch bugs so they will stay killed, another how to prevent chilblains, and the third, how to split these big, knotty, damp elm trunks.

From our experience with this wood job we judge there are on every acre of timbered creek bottom in this locality at least 30 loads of wood. In the older growth of timber there should be much more. There is no reason for any man who owns a few acres of such timber to fear coal strikes, especially if he can swing an axe. In addition, this part of Kansas has many places where coal may be dug if necessary. We can keep warm down here, both summer and winter.

We see by the Lyons Republican that a firm in Lyons that deals largely in poultry products candled out and threw away last summer 12,000 dozen eggs. At an average price of 14 cents a dozen the loss was \$1,680. The loss fell, of course, on the egg producers of Rice county. There are bound to be some spoiled eggs during such a summer as that of 1913

but a great part of the loss could have been prevented.

If eggs are fresh when gathered they may be kept for several days even in the hottest summer weather if they are in a cool place. Every farm ought to have a cave or cellar cool enough for egg storage but we know many neglect to put their eggs there. During the hottest time in 1911 we took a case of eggs to Hartford which we had kept for a week in a cool cave. The man who bought them told us that nearly all the eggs being brought in were spoiled and suggested as we had kept ours more than a week we would not have many good eggs. He was surprised to find, after candling them, that there was not a spoiled egg in the lot. On nearly every farm in Kansas eggs may be kept as cool during the hottest summer days as we kept these.

A Kansas City newspaper prints a story of a man who had to put on his wife's clothes to milk the cow that had not been used to being milked by a man. The paper hints the story is a fake. We can easily see why the story might be true, as we knew of a similar case in our old Nebraska home. The cow was used to being milked by the women folks and when they all went away on a visit the boys could do nothing with her until one of them dressed up in his mother's clothes. It was all right with the old cow then, but you can imagine that the boy was mighty careful not to be seen by anyone while he was doing the milking act.

Most of the farmers in this locality fed out their damaged kafir fodder during the snowy weather of the last of December. We have heard of a number of cases where horses were made sick by eating it but so far have heard of no case where it did harm to cattle. We know of many large herds that had nothing but this kafir to eat and there have been no deaths or sickness among them. Many kafir shocks do not look fit for anything to eat, still the cattle eat them up clean. After this month the kafir will be gone on most of the farms and then stock will go on corn fodder.

We wish to thank those who kindly sent answers to our inquiry in regard to the cost and method of digging pit silos. These articles will appear in the Mail and Breeze and will tell hundreds of Kansas farmers just what they wish to know about the cost of pit silos. It is very evident that the digging can be done much cheaper in central and western Kansas than here. The average cost, as given by these men, is not more than half what it would be here. Our soil here is heavy and hard to dig, and there are few places where a hole 30 feet deep can be put down without striking rock, either lime, sandstone or soapstone.

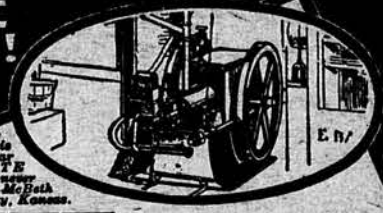
The pit silo could not be used in any part of eastern Kansas with which we are acquainted. A hole dug 20 to 30 feet in the ground here would become a well in any ordinary time. It is hard even to find a dry location for a cellar and nearly all cellars and caves in this region have to be drained. Of course, they do not have water in them all the time but every wet spell puts water in them if they are not drained in some way. So we cannot expect to have pit silos here. They must be the familiar stave kind or of cement.

One man suggests a pit could be cemented so that water could be kept out. We find this difficult to do even in our cellars and caves where the depth is not more than 5 to 6 feet. It is much easier to cement water in than it is to cement it out. Many of our neighbors have tried with cement to keep water out, so that a cistern could be made but found it almost impossible. Even if the cement holds at first the water will sooner or later break in. Perhaps dead water could be cemented out but a living stream is hard to confine.

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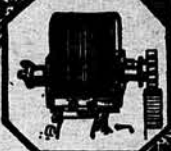
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 - 60 gallon (26 gauge) galvanized steel tank with pump and hood cover complete—a great convenience in every home.....\$3.80
 - Extra heavy pure crude oil, steamed and settled, (black oil) good lubricant, just the thing for greasing tools.....\$4.00 for 52 gal. bbl.
 - STANNARD'S PROCESSED CRUDE OIL, the best dip made for killing lice and curing mange. One application will do more to kill lice and cure mange than three applications of any other dip made (it destroys the nits).....\$5.00 for 52 gal. bbl.
- I also carry a full line of lubricating oils.
I will pay \$1.25 each for my crude oil barrels, \$1.50 each for my refined oil barrels returned to me at Coffeyville, Kansas, in good order, less freight charge on same.
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Fireproof Your Farm Buildings by Using

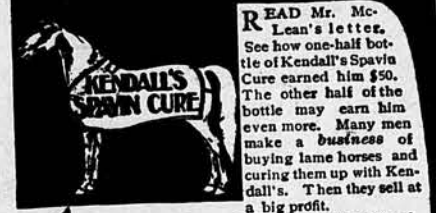
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AMERICAN SHEET AND TIN PLATE COMPANY, Frick Bldg., Pittsburgh, Pa.



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and be ready to cure cases of Curb, Spavin, Splint, Ringbone, Bony Growths or lameness from bruises or other causes? Thousands of other Farmers are doing it—have been doing it for over 35 years. It's the old, safe, remedy you can depend on. Get a bottle at once and see how much it will save or make for you. At drug-gists \$1 a bottle; 6 for \$5. Ask your druggist for book, "Treatise on the Horse," or write to

DR. S. KENDALL COMPANY
Enosburg Falls, Vermont.

Horse Owners! Use GOMBAULT'S Caustic Balsam

A Safe, Speedy, and Positive Cure

The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUSTERY OR FIRING. Impossible to produce scar or blemish. Every bottle sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars.

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We are giving Ropp's New Calculator FREE to every farmer or land owner who wants to put up a fence that will last. Ropp's Calculator should be in the hands of every farmer. It will instantly give the correct answer to any business problem that can be solved by arithmetic. We will also send you our free illustrated catalog on

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FARM SEEDS

Pure Alfalfa, Clover, Timothy, Marquis spring wheat, Corn, Sweet Clover are always pure. My new, big, free Pure Seed Book for 1914 is packed with pictures, methods of advanced planters, profitable big crop information. Lowest prices on field, garden seed plants, shrubs and trees. Tells about "MIRACLIN," the seed inoculator that makes big, heavy stands of Alfalfa, Clover and all legumes.

GALLOWAY BROS. BOWMAN CO.,
44 Galloway St., Waterloo, Iowa.

9 CORDS IN 10 HOURS

RUNS EASY No Backache weighs 41 lbs. EASILY CARRIED

BY ONE MAN. It's KING OF THE WOODS. Saves money and backache. Send for FREE CATALOG No. B41 showing low price and LATEST IMPROVEMENTS. First-order gets agency. Folding Sawing Mach. Co., 161 W. Harrison St., Chicago, Ill.

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JOE E. ALMQUIST, ESSEX, IOWA.

A Little Sermon For Dad

Interesting Also for the Boys Whom It Is to Help

BY W. CLEMENT MOORE

IT SEEMS peculiar to consider a boy on a farm from a monetary point of view, but most farmers I presume are not only eager to make good men of their sons, but industrious men as well, in which case the years of their teens will prove profitable to their parents and fit their own lives for successful manhood.

This question it seems to me, is of so much importance, that I have determined to consider first the small boy in the country. Later the larger boy will receive attention.

"How soon shall I begin to train my boy?" asked an eager mother of a wise teacher.

"How old is your boy?" inquired the teacher.

"Two years old."

"Then you are just two years behind in beginning his training," was his serious reply.

Oliver Wendell Holmes went deeper into the matter when he suggested that we should begin such training with the child's grandmother.

Common Sense Needed.

But while the fact remains that heredity may mark the child in a sense, it is not true that it shall totally govern his future. We have too many shining examples from lowly parentage, and far too many miserable results from parents of culture to accept such a theory.

It does not require the highest educational ability to rear a child properly anywhere, and especially on the farm—simply good common sense and a generous amount of wholesome parental love on the part of the father and mother—that's all.

We have set ourselves to the working out of the problem of leading the footsteps of this little country born boy,

round about are the most beautiful demonstrations of all the sciences that ever graced a college curriculum. In his daily walks with you he will become an apt student of botany, of geology, of astronomy and the many other things which the city bred child will spend weary days and nights to learn imperfectly.

There will be opportunities for him to wander beside the streams on your farm, to fish with you some idle day perhaps,—and farmers should arrange for an idle day occasionally. When the horses are taken to the plow, or when the pony gets larger he will afford a chance for him to ride horseback. And so, unconsciously, his love of the farm and every single inhabitant of it will deepen and strengthen as he grows older. I will not hear of money objections for most farmers can find a way of getting a pony without missing the effort or the money.

Walk out with him on these crisp January days, and with your watch in hand have him run his own foot races against time, down the broad country road and back again. Keep his time in a note book or on a piece of paper and tell him when he beats his record. Perhaps the wisest thing a parent can do to prevent a child from overdoing one kind of play or work which will bring into use different muscles and give those just employed a rest.

How to Be Economical

One of the best ways of reducing the high cost of living in the country is to depend on home cured meat, according to W. F. Bergman of Vermillion, Kan. The picture of hog-killing day on his farm shows that he believes in butchering enough animals to supply all the meat the family will need until cold weather



Reducing the H. C. of L. at the Bergman farm.

past dangers that will threaten to destroy the fibers of his character, through a period of youth that is surrounded on the one side by the handiwork of God as pictured in Nature and on the other by the flash and glare of temptation—through all that and then out into the broad daylight of noble manhood. That is our purpose and plan of building the country boy. Never was there devised, even in the building of a modern sky-scraper, a problem so worthy of all that a loving father and mother or a skilled mechanic can give of mental energy and prayerful thought than is here due.

Train Him Homeward.

We need more boys growing up who like the farm and are willing to spend their lives on it, because they know they can be just as successful there as elsewhere. Accordingly we are going to try to train our boys farmward; but if we find in them talents which lead away from such a goal, we are not going to be foolish enough to break up that talent and at the same time destroy the happiness of all the boy's future life. It shall be our purpose to help the boy to find himself, and this in itself is a surprisingly easy problem.

We can better realize why the boy in the country home is fortunate when we know that above him and everywhere



Beware of Crop-Killing Air Spaces!

Give your crop every chance to win by preparing the seed bed right. Get a plow that doesn't leave any air spaces—they are deadly. Air spaces between top-soil and subsoil cut off completely the moisture from below. This means "burned up" crops with the first hot dry spell.

The Remedy

The Rock Island "C. T. X." Universal Plow Bottom is the only one that leaves no air spaces. It "walks" right through tame sod, heavy corn-stalks, tough gumbo, heavy clay, etc., and turns the slice clear over flat and smooth. It'll bury every scrap of trash. All soils are easy for the "C. T. X." Every furrow perfect, with a bottom as clean as a floor. Soil is better pulverized and saves one harrowing. The "C. T. X." is easier on the horses and lighter in draft than any plow with ordinary bottoms. It is easier for the user.

Rock Island (C. T. X.) Universal Plow

This wonderful plow is "different" from others. It's the greatest improvement since the first steel plow was invented. It has a bottom that is cow-kick-like in shape. Instead of throwing the dirt backward and upward, it sends the dirt backward and DOWNWARD. No dirt is spilled; every foot of top-soil lies right against the subsoil—with no air spaces—nothing to cut off moisture.

Write for the Facts

The "C. T. X." saves man, horse, time and money—and gets perfect plowing results. Yet it costs about the same as ordinary plows. Join the army of farmers who are discarding old plows for the "C. T. X." and making money by doing it. Get all the facts. They're yours for a postal. Send your name and address today—now.

ROCK ISLAND PLOW CO.
238 Second Ave. Rock Island, Ill.

35 BUSHELS PER ACRE
was the yield of WHEAT

160 ACRES
WESTERN CANADA
FREE

on many farms in Western Canada in 1913, some yields being reported as high as 60 bushels per acre. As high as 100 bushels were recorded in some districts for oats, 50 bushels for barley and from 10 to 20 bushels for flax. J. Keys arrived in the country 5 years ago from Denmark, with very little means. He homesteaded, worked hard, is now the owner of 320 acres of land, in 1913 had a crop of 200 acres, which will realize him about \$4,000. His wheat weighed 68 lbs. to the bushel and averaged over 35 bushels to the acre.

Thousands of similar instances might be related of the homesteaders in Manitoba, Saskatchewan and Alberta.

The crop of 1913 was an abundant one everywhere in Western Canada.

Ask for descriptive literature and reduced railway rates. Apply to the Superintendent of Immigration, Ottawa, Canada, or Canadian Government Agent.

Geo. A. Cook, 125 W. 9th St., Kansas City, Mo.

SMASH!
Go Tailoring Prices

Yes, prices smashed to smithereens—cut so low that competition winces and yells "quit, enough." We scooped 'em all this season—got in ahead of everybody with our stupendous orders for the cheapest, most exclusive fabrics on the market—just another proof that we are "First in Everything."

Tariff on Woollens Reduced

New tariff makes big reduction on all woollens. Always first to take advantage of any circumstance that helps our agents; our low prices make it easy to sell Great Central Clothes.

Agent's Suit and Overcoat FREE

Made to your measure. Makes you swell dressed man in town. Your swell suit will compel admiration; orders will pour in on you. You're bound to succeed—everybody makes \$5 to \$10 a Day Easy

All or part of your time. We furnish everything free. Satisfaction guaranteed or no pay.

Wonderful Book of Gold FREE

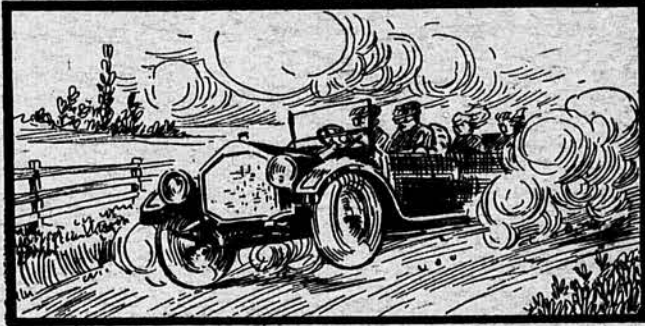
most stupendous agent's outfit ever devised. Cost us \$76,000. Write quick—everything free and free prepaid. Hurry up postal today for yours.

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375 VALENTINE Novelties, Hearts, Cupids, Pennants, Mottos, Seal, Doves, etc. and 1914 Calendar, all 10c, 3 lots 25c. **STANDARD CO., 24 So. Clinton Street, CHICAGO**

TIRE TROUBLES ARE COSTLY

CARE WILL CUT THE MONTHLY BILLS, SAYS THE MAN WHO KNOWS



SKIDDING, STONE BRUISES, LACK OF INFLATION - THESE MEAN MONEY

By F. A. HENDERSON
THE GOODYEAR TIRE CO.

NE'S motor car is pretty nearly human in one respect. It requires care to make life long, and care that it may perform its functions up to the standard of its creation. That is often entirely overlooked by the owner of the car and this negligence is certain to hasten the tire breakdown.

Any tire is subject to more or less abuse, owing to the fact that it must encounter all kinds of roads and receive little or no consideration from the driver. Cuts, stone bruises, mud blisters, result, and if these are neglected they eventually destroy the tire. Tire neglect runs up the bills unbelievably.

There are many more things for the drivers to consider than the mere driving of the car. Road conditions play an important part in the life of tires. Inflation, distribution of the weight of the machine and alignment of the wheels are also influential.



No two tires in a set may give the same service, although their quality, workmanship and construction may be identical. One may give out far before its time. There is a reason for this. Do not blame the tire. Look at the real cause and place the blame where it belongs.

The service and mileage of a tire depend as much on the conditions under which it is used as upon the quality of the tire itself.

Possibly three-fourths of the tires returned to the manufacturers for repairs have been ridden insufficiently inflated. This is responsible to a greater extent than perhaps anything else for blowouts and quick disintegration. When a tire is imperfectly inflated the walls are continually bending back and forth as the car moves, with the same result as when a wire or piece of metal is bent back and forth in the hands. Heat is engendered in the threads, and because of this heat, and the continued bending, the walls soon weaken. In a short time they are not strong enough to support the air pressure multiplied by the weight of the car, and blow-outs result.

Another thing: When a tire becomes loose, a lump or fold of rubber and fabric is formed just in front of the part in contact with the ground. This is what tire-makers call "kinking". This tends to separate the plies of the fabric, or in aggravated cases to chew up the walls of the tire, as well as that part of the tube that happens to get caught.

Don't inflate your tires by guess. A big, thick-walled tire will show little depression under a heavy load, even if the air pressure is too low for safety. One cannot tell from appearances whether the tires are perfectly inflated. A good gauge should be used and tires tested every day.

A little cut in a tire, like a little habit, if allowed to grow soon gets beyond control and eventually destroys the tire. A close watch should be kept of these little cuts. They should be cleansed with gasoline and then filled with cement and quick repair gum. This gum will set in a few hours and become an integral part of the tire and prevent future trouble. A very large cut after thus being treated should be vulcanized at the earliest possible moment. To ignore these casing cuts altogether is to invite sand blisters and mud-boils which are caused by sand and dust entering the cut and working in between the tread and the fabric of the casing.

These are diseases to which tires of any type or make are subject if they are not checked soon when the symptoms appear, small cuts in the tread. Sand blisters and mud-boils are more complicated and disastrous the longer they are allowed to go. They mean simply the stripping apart of the rubber from the fabric used to reinforce it. Sand and dust enter and gradually work their way between the rubber and fabric, and the result is a sand blister or mud-boil.

Tires that have already developed mud-boils or sand blisters, should be sent to the repair man at once. When these blisters are cleansed out and vulcanized down, your tire is practically as good as new.

If an axle is even slightly out of true, the tire will be subjected to a grinding action, which will wear out the tread in an incredibly short time. If you go over a heavy bump or have an accident of any kind, have your wheels examined at once. Don't

wait until the tread of your tire is worn off and then blame the tire-maker.

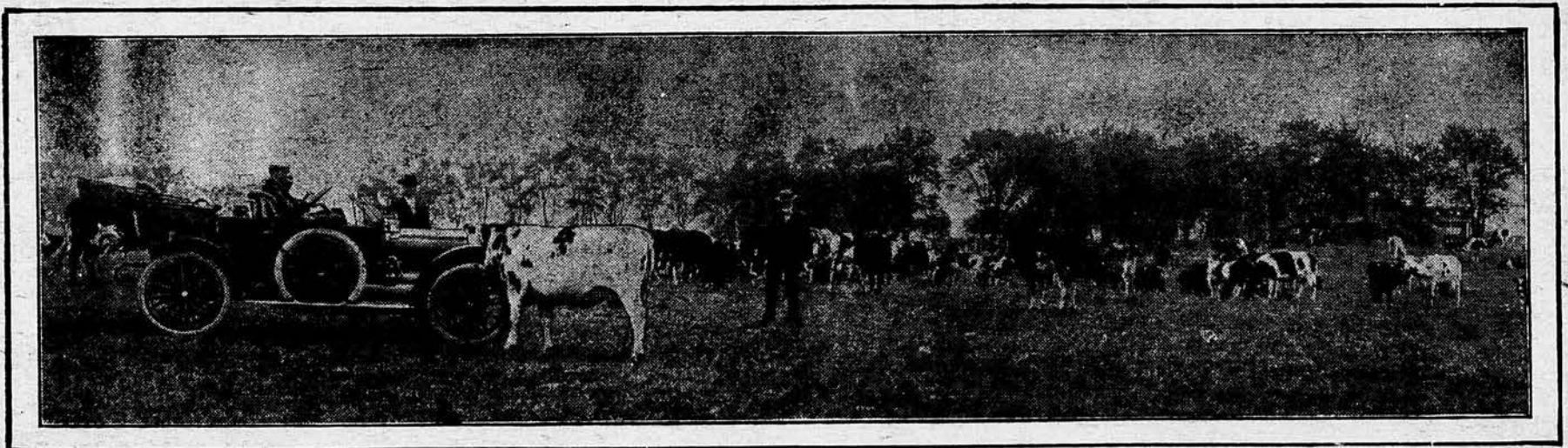
When imbedded in rubber and not subjected to strains or weakened by bending, the fabric used to reinforce the tire will retain its strength indefinitely. As soon, however, as the rubber is removed and moisture from the road is permitted to penetrate, the fabric begins to disintegrate and in a short time its strength and resistance are gone forever. If one tire stops the load, as is often the case when brakes are not properly adjusted, the tread is likely to be worn through to the fabric by one application of the brake. The strain of stopping the car is thrown almost entirely on one wheel. It is set and the tire is subjected to a severe grinding action with the pavement or road.



See that the brakes are adjusted to distribute the strain equally. Sudden stops have the same effect and should be avoided. Skidding around corners at high speed is likewise very disastrous.

The fabric having been thus weakened it is a matter of only a short time until the air pressure in the tube, increased by the weight and strain of a heavy car, becomes too great for the container or casing, and you have a blowout. If the cause is not apparent, the manufacturer is blamed for defective material or workmanship.

To experts the causes of blowouts are well known. So long as the fabric is preserved as it was when the tire was new, the blowout is not likely to occur. Let the tire be ridden partly or wholly deflated for a distance, or suffer a cut or stone-bruise, the fabric is weakened as a result and once trouble starts it gradually becomes worse until the blow-out point is reached. Too frequently the driver finding no immediate cause, disregards entirely the remote abuses, which are the real causes of his troubles. In the case of a cut or bruise, the blowout may not occur for days after the accident, enough of the fabric being left intact to sustain the pressure for some time.



What Kind of a Gas Engine?

CHARLES JABLOW
Oklahoma Agricultural College

Frequently the question confronts the farmer "What kind of gas engine shall I buy?" This of course pre-supposes the fact that the advisability of owning and the adaptability for use of a small engine on the farm is already recognized. For the man, who without help completes his work in a few hours each day, much need not be said, but think of the time the average farmer could save in churning, feed chopping, pumping, cutting cordwood, running washing ma-

chine and many other things, if he had a reliable engine that could be easily coupled to any of these separately?

The question arises, Shall I use gasoline or kerosene as fuel? Shall I buy a two or a four-cycle engine?

A two-cycle engine is one in which the gases in the cylinder explode every second stroke; a four-cycle engine has one working stroke out of every four.

From the above a proper conclusion is drawn which corresponds with practice. A two-cycle engine, for the same power developed, is considerably lighter than a four-cycle and therefore less costly. Another good feature of the two-cycle engine is the absence of many parts that

are found on the four-cycle engine and is therefore less likely to give trouble.

As regards fuel consumption a two-cycle engine will be found to be slightly more expensive although for small engines the difference will not be considerable. In large sizes this may prove to be quite an item.

In the choice of gasoline or kerosene, the question comes up whether or not we are willing to pay the price of convenience. Kerosene will generally foul a cylinder quicker than gasoline and also gives more trouble in starting. Gasoline is frequently used for starting kerosene engines. If this is not done, some form of heater will usually be

found on the engine, to heat the cylinder head, before starting. It might be said that the question of fouling need not be given undue weight, for poor running with gasoline may prove very much worse than good running with kerosene.

Breeding Ewes Pay Best.

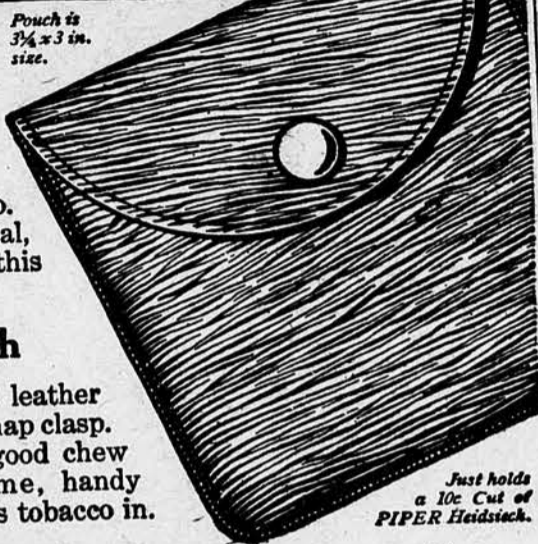
F. D. Moore of Crawford county, Kansas, finds that the greatest profit in handling sheep is from a band of good breeding ewes. "They pay better one year with another than sheep feeding," he said. "I have fed lambs and made some money, and lost, but I never lost a cent from a flock of good breeding ewes."

FREE

No matter what tobacco you are now chewing, if you will try PIPER Heidsieck you will become a permanent user of this famous tobacco. To induce you to make a trial, we will send you free, this genuine leather

Tobacco Pouch

Strongly made of fine tan leather with a flap and patent snap clasp. Every man who loves a good chew will prize this handsome, handy leather pouch to carry his tobacco in.



Pouch is 3 1/4 x 3 in. size.

Just holds a 10c Cut of PIPER Heidsieck.

PIPER Heidsieck

CHEWING TOBACCO (CHAMPAGNE FLAVOR)
Sold Everywhere in 5c and 10c cuts

PIPER Heidsieck is the highest type of chewing tobacco in the world. Every leaf of ripe, golden brown tobacco used in "PIPER" is carefully selected from Nature's choicest crops, clean, sweet and mellow. The flavor of "PIPER" is different from all other tobaccos made—a rich, wine-like, delightful taste which never fails to make a friend.

We Want You to Try PIPER Heidsieck

Send 10 cents and we will send a full-size 10c cut of "PIPER" and this handsome leather pouch FREE.

The tobacco, the pouch and mailing expenses will cost us 20 cents—and we are glad to spend the money to get you to try "PIPER" just once.



We know that once you have started, you will become a permanent friend of this wonderfully wholesome, healthful and satisfying tobacco.

In writing us please tell us the name of the dealer of whom you buy your tobacco.

THE AMERICAN TOBACCO COMPANY
111 Fifth Avenue New York City

Farm Comforts of Concrete

"Roseland," the Home of T. D. Hubbard Near Kimball, an Example.

BY CHARLES DILLON

CONCRETE was once a mystery to farmers, as much of a mystery as what they called "Book farming." Within ten years it has come to be common wherever the comforts that make rural life worth living are taken into consideration. Farmers have learned that the price of one acre of good land will take them and their families out of the mud, give them sanitary homes, add contentment for the children and keep them, for a time at least, in the country where they are needed. For no one seriously doubts any longer that thousands of boys and girls go to the great cities to have the conveniences that are denied them—or have in the past been denied them—on the farms of Kansas.



A Fence Set in Concrete.

Advertising in the magazines and farm journals has made concrete popular, this and the extension demonstrations of the land grant colleges. Laboratories are maintained in most of these colleges in which tests are made to prove the strength of concrete prepared in certain ways; popularly written circulars, illustrated are distributed free, and experts are assigned to help any farmer

who needs such assistance in building any form of concrete structure. All this means that rural living is becoming more attractive, rural health is being more sensibly safeguarded, and the rural population is learning to use the knowledge and the materials it has acquired and has at hand ready to be used.

Ever since men began to fence in land and call it their own fence posts have been rotting. Nowadays one frequently sees concrete posts. Telegraph companies use them for their wires; farmers use them for their fields. These posts, made in molds, can be turned out for about 25 cents apiece. But where a farmer wishes to keep certain creatures within his field and has an equal determination to exclude others a concrete curb is essential. At "Roseland," the farm of Thomas D. Hubbard, near Kimball, Kan., this idea has been carried almost to perfection. The fields immediately around the home are all curbed. A trench was made six inches deep and six inches wide. Posts of cedar were set two feet in the ground and eight feet apart. This trench was

filled with coarse, broken stone called "chat," from the zinc mines of southeast Kansas. A cement mixture the consistency of good, thick soup was poured into this broken mass and when it had hardened it would have taken cannon balls to get through it. A form six inches high and eight inches wide was built of boards and the curb was put down. The wire mesh joining this makes a hog-tight, rabbit-tight enclosure. But a field can be protected as well with a curb that rises only an inch above the ground. Mr. Hubbard's fence curbs cost about \$5.50 a cubic yard. The same privacy can be assured for \$3.50.

But the owner of Roseland remembers, also, the hogs and the cattle. Most folks, especially if city bred, use the name "hog" as the limit of everything objectionable. The truth is, ladies and gentlemen, Mr. Hog is a much maligned brute. Give it a chance to keep clean, give it a bathtub, and it will use it oftener than most human beings use theirs. This has been amply proved. Hogs, be it known, delight to roll in mud puddles to rid themselves of the pests a



strange Providence has inflicted upon them. When breeders build concrete pools for their porkers and fill them with just enough water to cover the animals' backs and pour upon its surface crude oil the porkers gladly plunge into its purifying depths, and they will do it a dozen times a day. These concrete pools are to be found on many farms now. One like that on the Roseland place can be built for \$5 or \$6.

For the cattle there are concrete platforms around the drinking places—corrugated concrete—so that the thirsty animals may refresh themselves in comfort without slipping and without standing in mud. Cattle don't like mud. They'd be as clean as the deck of an ocean liner if they had the chance. Roseland's owner believed this so he built a great concrete-floored yard and covered it except at one side—the side that received the afternoon sun. And there, on a winter day, his purebreds lie about or stand in comfort. The barns are floored the same way, except in the stalls, where clay is used. All this floor-

(Continued on Page 31.)



A Concrete Bathtub for the Hogs.

For Quick, Easy Washing—First Soften Water With

Lewis' Lye

The Standard for Half a Century

Look for the Can with the Quaker Label



Acknowledged superior to any commercial lye obtainable.

Guaranteed Pure and Full Strength and best for all general purposes for which lye is used.

Booklet describing its many uses on the Farm and in the Home, mailed FREE.

Address

PENNSYLVANIA SALT MFG. CO.
Manufacturing Chemists
PHILADELPHIA



LEWIS' LYE SOFTENS WATER



You will be glad to get this good news

With a larger output for 1914, more farmers will be able to obtain Cadillacs

In the past, many who preferred Cadillacs have been unable to obtain them.

The demand for Cadillacs in the cities has always been so great that it has taken about 90 per cent of our output year after year.

Therefore, the demand from the agricultural districts has gone unsatisfied and many who preferred the Cadillac have had to content themselves with inferior cars.

This does not mean that no Cadillacs have been sold among the farmers. Far from it. Hundreds of them have been able to get Cadillacs by placing their orders before the spring rush. Many of those who waited were disappointed, and as we said before, were obliged to buy something that they did not favor.

The demand for Cadillacs in the cities continues to increase. It is every day becoming more and more the car which is bought by the man who can afford any car, no matter what its price, but who buys the Cadillac because of what it is and because of what it does.

Our output for 1914 will be larger than ever before and we are determined to allot a portion of this additional output among our dealers who handle the agricultural trade.

We are going to do this because we believe it to be good business policy.

We are now the largest makers of high grade motor cars in the world. Our output for 1913 was more than 15,000 cars. We expect to continue to grow in the future as we have in the past.

We know that a few Cadillacs in each community will mean many more next year. That is Cadillac history. And you know history repeats itself.

The tremendous Cadillac business has been built upon the solid foundation of sterling merit.

It has been built upon the foundation of making cars which give the greatest service at the least cost, year in and year out.

The history of the Cadillac is the history of successful motor car building in America.

The Cadillac was first to give to the world a practical motor car. That was eleven years ago and the 2,000 cars built then are still giving faithful service all over the world.

The Cadillac was first to give the world a car whose parts were thoroughly standardized and thoroughly interchangeable—so that when a new part was needed, it would exactly fit in its place without the slightest alteration. And there is still no other car in the world which equals the Cadillac in this important feature.

The Cadillac was first to give the world a high grade car at a moderate price.

The Cadillac was first to give the world the benefit of an electrical system which automatically cranked the car and furnished electric lights.

And now in the 1914 car, the Cadillac is again first by giving the world the benefit of the wonderful two-speed direct drive axle. (A detailed description of this axle will be found elsewhere on this page.)

The Cadillac is "The Standard of the World." It is the car by which other cars are judged.

As we said at the outset, there have never been enough Cadillacs to supply the demand. Our advice is that you get in touch with the Cadillac dealer in your territory at once. If you do not know who he is write to us.

Ask him to go over the car with you and explain its superior features, point by point.

First, have him explain why the Cadillac engine is generally acknowledged to be the best engine ever placed in a motor car. Have him explain the cylinder and copper jacket construction and why the engine does not overheat. Have him show you the crankshaft with its five substantial bearings which are adjustable to take up wear.

These bearings are known to have run more than 100,000 miles and still be good for many more.

Have him explain the simplicity, the certainty and the economy of the engine lubricating system.

Have him explain the clutch and how substantial it is, and how easy it is to operate.

Have him explain the steering gear, and how it can be adjusted to take up the wear after long service.

Have him explain the transmission.

Have him show you the large, powerful brakes and see how easy it is to stop the car with them.

Then have him take you for a ride.

First, see how comfortable it is to sit back in the deep, soft cushions.

Notice how easy it is to crank the engine with the electrical cranking device. Notice how quickly the engine starts under its own power, even in cold weather, with the electrically heated carburetor.

Then see how easily and smoothly the car "gets away" without shock or jar; how easy it is to shift from one gear to another. Finally, with a touch of the electric switch, the driver shifts into the high direct axle gear. And then the car seems almost to raise up off the ground and your sensation is more like floating through space than of riding in an automobile.

These are but a few of the points wherein the Cadillac excels; only a few of the things which divide automobiles into two classes—Cadillac and others.

We want you to see these differences for yourself, we want you to know them and to experience them.

Then you will understand why there have never been enough Cadillacs. You will understand why those who wait too long in placing their orders are obliged to content themselves with less desirable cars.

Cadillac two-speed direct drive axle

The advantages of this axle do not lie in its being an improvement so far as its functions as an axle are concerned, but rather in the many advantages gained in other directions through the medium of the axle.

In place of the single bevel pinion and single bevel driving gear common to ordinary construction, there are two bevel pinions and two bevel driving gears. This affords two different gear ratios, each driving direct from the engine to the axle without intermediate gearing.

The usual single direct drive gear ratios range from about 3.5 to 1 down to 4 to 1 according to the car. Any single gear ratio is necessarily what it is because a single gear ratio must be, or should be, the particular one which is best adapted for all around general use.

No one single gear ratio can possibly be just right for all speeds and for all conditions. But by using two direct gear ratios we have exactly doubled the means for promoting the economical and efficient application of power developed by the engine to the driving of the car.

In the new Cadillac axle we have, as before stated, two direct drive gear ratios. The low direct drive gear, which is 3.66 to 1, is especially adapted for city driving, where starting, stopping and slowing down are frequent and where cautious operation is necessary.

The high direct drive gear ratio, which is 2.5 to 1, is of special advantage where speeds of about 16 miles or more per hour are permissible and desirable.

The change from one gear ratio to the other is made by means of a simple, convenient electric switch.

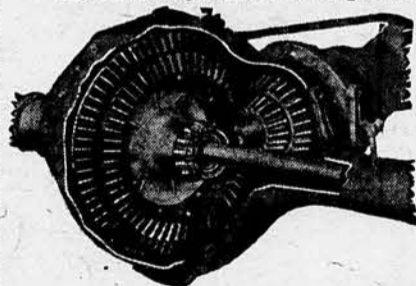
The advantages of the high direct drive gear ratio lie primarily in the fact that with it, any speed of the engine produces an increase of about 42 per cent in the speed of the car. For example: at an engine speed of 700 revolutions per minute, with the low direct gear engaged, the car will travel approximately 21 miles per hour; while on the high direct gear it will travel approximately 30 miles per hour with no increase in engine speed.

This great increase in car speed in its relation to engine speed accomplishes a number of desirable things.

Among these is a decrease in gasoline consumption for a given mileage. This is due to the fact that with the engine turning over slowly—comparatively speaking—a given quantity of gas is utilized to greater advantage and generates more actual power than with the engine turning over more rapidly. Friction also is materially reduced by reason of the parts operating more slowly and this, too, is a factor in reducing gasoline consumption when driving on the high gear.

Another great advantage is that with this direct drive high gear ratio, there is obtained an extraordinarily luxurious smoothness in running, together with a marked quietness and a comparative freedom from the vibration which, to a greater or less extent, is ever present when traveling at high speed with a low gear ratio.

In attaining these much desired qualities, instead of adding complications to the power plant which make for greater fuel consumption and for greater upkeep expense, they have been attained by methods which are strikingly the reverse, viz., by methods which lessen the fuel consumption, methods which decrease friction with its resulting wear and methods which make for longer life, together with an appreciable decrease in the cost of operation and maintenance.



Standard Five Passenger Touring Car, \$1975
 Seven Passenger Car \$2075 Four Passenger Phaeton \$1975 Two Passenger Roadster, \$1975
 All prices F. O. B. Detroit, including Standard equipment.

STANDARD EQUIPMENT—Cadillac top, windshield, full lamp equipment, gasoline gauge, electric horn, power tire pump, foot rail and cocoa mat in tonneau of open cars, robe rail, tire holders, set of tools, tire repair kit, Warner Autometer.

Cadillac Motor Car Co., Detroit, Mich.

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Yields 50 to 80 Bushels to Acre

Resists attacks of Chinch Bugs. Extremely early—35 days earlier than Kaffir Corn.

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Reports show yields of more per acre than any of the other spring varieties. It's a good hardy wheat—resists weather which would ruin other wheat. The kernels are large, very hard and contain less starch than most wheat.

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

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

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

HENRY FIELD, Pres.

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

Motorcycles Cut the Time

Rural Mail Carriers, Demanding Better Roads, Have Made These Machines Generally Popular

THE general adoption of the motorcycle by Uncle Sam's mail men in the rural districts has wrought a wonderful change in speeding up the delivery of mail to the farmer. Trips that formerly required the entire day now are completed in three or four hours. Where the emissary of Uncle Sam travels on the modern type of transportation, the motorcycle, the progressive farmer finds his mail waiting for him at the dinner table.

So a half day's difference in mail delivery virtually has become an impor-



Useful in Many Ways.

tant factor in highway improvement. The farmer realizes that on the condition of the road depends whether he receives his mail in the morning or late in the afternoon and his co-operation with the drag and roller decidedly is to his own mutual advantage. The marked improvement of the roads has called forth much praise from the motorcyclist and autoist as touring today is a joy compared with but a few years ago.

The R. F. D. man is largely responsible for the introduction of the motorcycle to the farm. The two-wheeler now is considered an indispensable adjunct to the equipment of every progressive farmer. With the ever increasing use of the gasoline engine as motive power about the farm, the principles of internal combustion and engine construction are familiar to the average farmer. The motorcycle engine is the simplest of gasoline motive power, so built that its operation is close to auto-

The motorcycle demonstrates its usefulness on the farm in innumerable ways every day. It has been said that whereas the motorcycle may be a luxury to the city man, to the farmer it is both a luxury and a business necessity. The single tracker is the one dread enemy of isolation and loneliness on the farm. It brings the town to the very door of its owner. Trips to the city now are made in the time it formerly required to think about hitching up the horses.

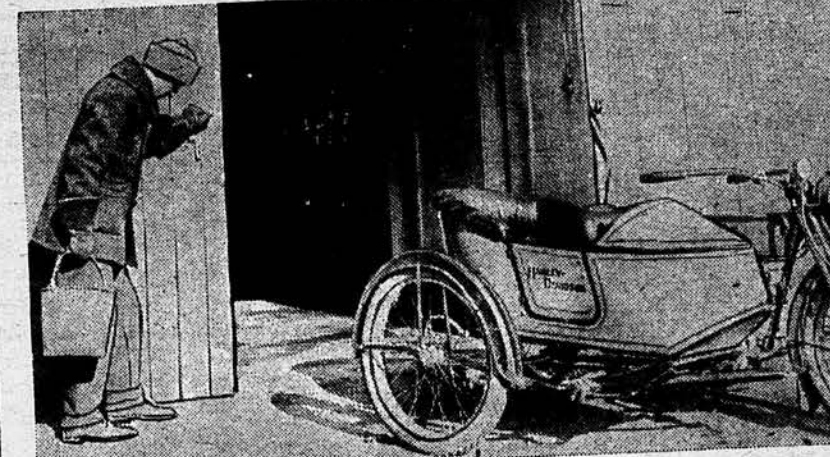
The farmer realizes that life in the old homestead after all is bound up in the limited capacity of the horses. Every trip made to town after supper was a drain on the efficiency of the horses for the work next day. The motorcycle enables the farmer to apply every bit of the animal labor to the work in which it is needed. The sphere of its usefulness also extends to relieving the farmer's wife of many little worries in connection with the household duties.

Running out of groceries or a bit of dress material formerly meant a wait until some one went to town. With the motorcycle that trip to town, which meant an hour with the horses, is only a matter of a few minutes. In fact trips to town have ceased to be anything extraordinary now that they can be made at any time of the day. Before the motorcycle came, there were many days when even a single trip would have been out of the question entirely because the horses were tired.

The motorcycle is making the farm attractive for the young folks. With its coming, discontent and dissatisfaction no more are disturbers of the peace in the farm household. The boys and girls on the farm are given every advantage enjoyed by their city friends. The motorcycle has brought them the pleasures of the moving picture theater, the ice cream parlor and the dance and still enables them to live in the invigorating and healthful conditions of their home on the farm.

For Fewer Engine Troubles

Seventy farmers and farmers' sons took the short course in steam and gas engines at the state farmers' institute



A side car for motorcycles is handy.

matic. It is air cooled and its spark is furnished by a magneto, which under ordinary conditions will run for years without the slightest repairs or adjustments.

The simplicity construction idea carried out in the make up of the modern motorcycle appeals to the farmer. With this practically fool-proof machine he has no occasion to fear repair troubles if he allows the hired man to use it and knows that his motorcycle is giving the maximum of service with minimum of expense.

Economy of operation is one of the many points which have helped make the motorcycle popular about the farm. The wonderful little two-wheeler will travel from 75 to 100 miles on a gallon of gasoline, making the cost a mile between one-tenth and one-sixth of a cent. Owners of motorcycles have used them for several seasons and not had any occasion for the application of a wrench to a single part.

at Manhattan recently. Dean A. A. Potter, of the Kansas Agricultural College, an authority on gas engines, had charge of the course. Eleven large manufacturing companies sent experts with models and machines, to demonstrate the value of their goods and to answer questions. The farmers asked questions, too. A few of the subjects treated were: Oil engines for low grade fuel; the farm gas electric light plant; the steam versus the gas traction engine; carburetion and ignition, and the cooling of gas engines.

Flax Takes the Fertility

A bushel of flax removes about twice as much plant food as a bushel of wheat. At the prices paid for crops, 1900 to 1909, the fertility in one dollar's worth of flax was 41 cents, in one dollar's worth of corn 35 cents, wheat 29 cents, oats 33½ cents, barley 33½ cents, rye 29 cents, and in potatoes 9 cents.

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Golden Beauty	2.15	20.00
Improved Strawberry	2.25	21.00
Bloody Butcher	2.25	21.00

Samples on request. STAR MILL & E. CO., Amarillo, Texas

We specialize in Texas Red Rust Proof seed oats.

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We will send postpaid one large package each of Radish-Scarlet Beauty; Turnip-Purple Top White; Onion-Large Red; Spinach-Broad Leaf; Lettuce-Dewdrop; Mignonette-Colonial Mixture; 8 packages in all. SEND TODAY. Enclose 10 cents and receive 6 new varieties and our new catalogue. **The Cherry Seed Co., 121 Vine St., Rockford, Ill.**

What the Farmers of Kansas Say

Letters on a Variety of Subjects in Which
Opinions are Frankly Expressed—Crops,
Roads, Politics and Taxes

MR. Editor—I have long admired the writings of Mr. McNeal, especially his liberality. His writing is plain, strong and weighty.

It is now 10 years since we have raised a crop of wheat between McCracken and Brownell. I am a firm believer in good farming under normal conditions, but in speaking from an actual experience of 38 years out here I know that it cannot always be done. And I also believe that we who were living here before some of the know-alls were born have as good an idea of how to make both ends meet as some of the book-learned farmers who have been denied the pleasure of some of our experience. I have not much regard for the advice of a man who stands back and tells me how to do a job that he will not tackle himself. I would like to have some of those high-collared, white-shirted, roller-top-desk farmers set down here on a quarter of land under the same conditions that we are here and told to dig out a living or starve. I presume the county dude is coming—just another place for a parasite.

Brownell, Kan.

Trees for Country Roads.

Mr. Editor—The Kansas people seem to be pretty well aroused to the importance of good roads, something we should have thought of long ago, and while we are making good roads why not make them a thing of beauty as well? Beautiful streets are about the most important thing in a town or city, and both streets in town and roads in the country have, or should have, two functions—beauty and usefulness.

If all our country roads were of a uniform width, say 60 feet, and along each side was planted, 10 feet from the property line, a row of trees, not closer than 30 feet, 2 rods would be better, an even number to each mile, in a few years our splendid country would be far more beautiful and our roads far more comfortable to ride over. Hedges, if trimmed as the law requires, would be ornamental but mighty expensive. If left to grow without care they are an abomination, expensive in the waste of land and destructive of good roads. Rows of trees of the right sort planted 2 rods apart would do no harm to the land or crops. Why not make tree planting a part of the good roads proposition?

Bluff City, Kan.

Mr. Capper Accomplishing Good.

Mr. Editor—I wish to express my appreciation of the stand Mr. Capper takes in regard to schools and moral questions in this state and country. If more papers published less of the vicious and more of the helpful and uplifting, the children would be better and stronger mentally and morally than they are.

Carlyle, Kan.

Tax Out the Big Landowners.

Mr. Editor—My idea of the solution of the land question is a graduated land tax. Increase the taxation on land only, according to its actual valuation for agriculture. All buildings and other farm improvements should be exempt from increases in taxes. All land owned by one person or company of persons, should be taxed in proportion to its farming value. Land worth \$14,000 or less, should pay taxes at the normal rate. Land worth more than \$14,000 and less than \$18,000 should pay the normal plus one-quarter of the normal tax; land worth \$18,000 or less than \$18,000, the normal plus 1/2 of the normal tax; that worth \$18,000 or over, to pay a tax of 10 per cent of actual valuation for agricultural purposes annually.

This would of course be a prohibitory

tax, and would render it unprofitable for any one person or company to own more than \$18,000 worth of land in Kansas. It would put a quietus on the big landowner business, and at the same time would not effect many of the landowners who farm their own land.

I am fully conscious such a measure as this would arouse the hostility of the men whose financial advancement would be thwarted by such a law. A glimpse at my proposition will reveal that one can under its provisions own \$14,000 worth of land, and have on it \$50,000 worth of improvements, a million dollars' worth of oil, gas, coal, gold or anything else, and not be touched with the graduated land tax. That is, he will not have to pay any more than the normal tax. While if he owns land of which the agricultural valuation exceeds \$14,000 he will be caught with a small increase in tax over the normal rate, and so on up to \$18,000 where the 10 per cent tax comes in to cut off the big landowner.

Emmett D. McWhorter.
R. F. D., Liberty, Kan.

Mr. Capper Doing Good Work.

Mr. Editor—I have not the language to express my gratitude to Mr. Capper for his work as an educator of the mass of the people. I wish his ideas could be read and impressed on the hearts and minds of all Americans, yea, of the whole world. May God grant him a long life to continue the good work, is my humble prayer.

R. H. Harris, (A Democrat).
Cope, Okla.

Happy New Year To Mr. Capper.

Mr. Editor—Please renew my subscription. I think every woman in the universe should stand by Mr. Capper in the noble stand taken by him for the protection of young girls. May God bless him, and may the circulation of his paper increase 10-fold the coming year.

Mrs. Lydia Bertch.
135 Jackson St., San Antonio, Tex.

What a Market Bureau Might Do.

Mr. Editor—We have two locals of the Farmers' Educational Co-operative union in Ellsworth county and are working for more. I would like your views through the Mail and Breeze in regard to the marketing bureau. The way I understand it, a person who has a farm cow, feed, or in fact anything for sale, can advertise it through the bureau. I believe a market bureau would be a great help for fruit and vegetable growers of other states as well as to the consumer in Kansas. Then if the Millers' and Grain Dealers' association, also any other combination which rules the price of farm products, doesn't give us a living price for our products, we will manufacture and sell them ourselves.

Fred M. Livingston.
Ellsworth, Kan.

The federal government is working out a plan for a market bureau which will keep farmers informed where products are needed, the prices quoted, and where there is an over supply. This bureau is also to foster co-operative marketing associations among farmers. In England farmer co-operative societies make a practice of exchanging feed and livestock in the way you describe. Some Wisconsin co-operative organizations exchange livestock in this way, and the plan works well.

We Let the Spenders Go Untaxed.

Mr. Editor—Mr. Hatch's remarks in the Mail and Breeze about taxation struck me forcibly. He says in his article that if a man gets 6 per cent interest he has to pay from 1 to 2 per cent taxes. True, and it will leave him 4 or 5 per cent for the use of his money. An old man by hard work accumulates about \$5,000. His income from it would be \$300, and after he pays his taxes, from \$50 to \$200 less, according to the levy in his district;

that would be from one-third to one-sixth of his income. The old man could hardly live on this except he should invest on his capital—a short route to the poor house. If I am an old man and have an income of \$600 a year, I need every cent it will earn for me and I need it for the rest of my life. If I have a neighbor who earns \$600 and spends it all, he pays no taxes. So the poor devil gets punished for saving and accumulating. Why should we not pay by graduated income? Why can the farmer not see that he pays more than his share? How can a poor family ever have the consolation of hoping that one day they will have their own home? And by such unjust taxation you take the last support away from a good many simple but happy homes, just to support a lot of grafters.

George Eckert.

Hardtner, Kan.

Country Boys Victims of Vice.

Mr. Editor—Thousands of our country boys are leaving their homes for the cities; most of these boys are unsophisticated and fall an easy prey to the fallen women and their agents.

The most important question before the people of this state, as well as every other state, is social purity. The awful vice conditions are undermining the health, as well as the morals, of our young men. How many of the young men do you suppose are truly free of some venereal disease or have not acquired one at some time before they attain their thirtieth year? These diseases are difficult to eradicate and while seemingly cured, terminate in various complications later in life, which wholly or partly ruin the health of the individual. But the most horrible part of the whole situation is, that a man can transmit the latent disease to his innocent wife or offspring.

I hope Mr. Capper will keep up the good work in his fight against both personal and governmental extravagance. He is certainly making his influence felt.

Dr. W. B. Truax.
Burr Oak, Kan.

Bring Up the Moisture.

The first problem in improving pastures is to get the subsoil moisture nearer the top. We have dry periods of two or three years when the pastures get wet down only a foot deep on the ridges, with 20 feet of dry subsoil between the grass and the moisture above the underflow. The result is that the bluestem grass dies first, then the bunch grass which is our best grass for catching snow. When it is gone the short grass gets poorer. This year it furnished feed for three months and cattle had to work 16 hours to live.

Pastures need a mulch. A crop of grass left standing is the best mulch for it keeps off the wind and catches the snow better than a flat mulch does. Perennial weeds and cockleburrs should be mowed at harvest time. Weeds on ridges should be left to catch snow and corn husks. It does more harm to burn a pasture once than to pasture two years. Stock should be kept off the pasture winter and spring or it will soon look like a feed lot. The native grasses are the best. Enough seed can be stripped along roadsides. All perennial grasses should be sown in the month in which their seeds ripen (that is Nature's method) except early grasses that ripen before July. They should be sown in August. I would not sow bluegrass or alfalfa in September and expect it to live through the winter in the western half of the state.

Gopher poison should be put into all gopher holes and the hole tamped full of sod that will keep away the badgers, too; and all holes in pastures should be

filled with soil, or horses may get crippled in them when they are full of snow. Cactus should be dug out and burned or buried. If just cut off it will lay for weeks until it rains and then grow again. A large pasture should have water in several places or it will be cut up in trails and the stock get more exercise than they need.

Edward Lind.

Athol, Kan.

Reseeding Pastures Pays Well.

I have found that it pays to reseed my pastures where the stand has become thin. I keep the weeds mowed down, and I spread quite a bit of manure where the soil is thin. We sow Kentucky bluegrass and alfalfa in the pastures, which makes a good combination. The soil is disked lightly before this mixture is sown.

Where the pasture is badly killed out, I have found that it pays to double disk the land and sow wheat and reseed with grass the following spring. This is under our conditions; this plan might not work in much of Kansas. It pays to have good pastures that yield well, and if they do not other grass should be sown on the thin spots.

Wesley Kouns.

Salina, Kan.

Grow Bluegrass for Pasture.

Mr. Editor—Kentucky bluegrass is the best pasture grass to grow in this section of Kansas. It comes early in the season and lasts until late in the fall. We have found that it will pay well to remove the stones and brush, when pasture land is worth from \$25 to \$65 an acre, as it is through this community. One can take off the brush and stones from an acre in three or four days on an average, and the improvement is worth much more than the wages for the man who does the work.

It frequently pays to gather one's own bluegrass seed, as one can harvest from two to three bushels a day where there is a good growth of the crop, and if it is taken home at once it will not heat or spoil. Much of the seed on the market has a very low germination because of poor methods used in gathering it. We have found that it pays to cut the weeds in the summer.

V. L. Talley.
Richland, Kan.

More Feterita Endorsements.

Mr. Editor—I have just read your paragraph on feterita in western Kansas. You wish to know how it will do if there should be a wet season. If there should be sufficient moisture in the ground when it is about ripe it will branch at the joints and head again, and keep at it as long as growing weather lasts. One way to do is to go in with the corn binder as soon as the seed is ripe and cut it. Then it will sprout up from the roots and make another crop as large as the first. This last is the way we shall handle our feterita and broomcorn hereafter.

W. H. Barrington.

R. 5, Phoenix, Ariz.

A Summer Fallow Wheat Field.

H. L. Cudney of Edwards county, Kansas, had one field of summer fallow wheat this year that threshed 21 bushels an acre. He also had some wheat on ground listed after harvest in 1912, and worked to seedbed condition by planting time. This wheat averaged 12.3 bushels an acre. On the same farm, wheat put in on ground plowed just before seeding time made about 10 bushels an acre. Let every wheat grower draw his own conclusions. These records came under the notice of G. E. Thompson, formerly farm demonstrator in that part of the state and are vouched for by him.

Your Interests Demand

that you look carefully over the announcement of **LANDRETH'S Seeds Which Succeed**

which will appear in a coming issue of this publication. Study it carefully. There's meat in it.

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40 ACRES sold to progressive, American and other best everbearers. Get acquainted offer for testing. Send us 10c for mailing expense, and we will send you 6 high quality everbearing plants (worth \$1) and guarantee them to fruit all summer and fall, or money refunded. Catalogue with history FREE if you write today. **THE GARDNER NURSERY CO., Box 133, OSAGE, IOWA**

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Ince Trees

Are grown right and sold right. Every department of our business is in the hands of careful and expert nurserymen. Every tree and shrub guaranteed true to name. Backed by the reputation and experience of the "Ince Boys," Ince Trees are bound to produce profitable orchards. Send today for free catalog. High grade agents wanted. **INCE NURSERY CO., LAWRENCE, KANS.**

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I'll send you a packet of Giant Pansies if you'll send 3 cents to pay postage on my catalog. Platte Valley Peerless Seeds are true to name—guaranteed to be pure and to grow. Special offers: Royal Aster, Mammoth Verbena, Giant Pinks, Fairy Roses and 10 sorts Spencer Sweet Peas, all post paid, for 10c. 5 pkts. Vegetable Seeds and 10 varieties Annual Flowers 10c. **PLANTS—new Roses 25c, 4 new Geraniums 25c, 3 Peperoni 25c. Send 3c today for catalog and pocket finest pansies you ever saw.**

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NURSERY STOCK Dollar Specials
50 Concord Grapes \$1
20 Apples \$1 20 Peaches \$1
Hardy, vigorous, thrifty. All guaranteed. Only best stock shipped. Catalog and 25c Due Bill sent FREE. **Fairbury Nurseries, Box J, Fairbury, Neb.**

Greenwood County Nursery

Established 1890. Write for catalog and price list of Fruit Trees, Grapevines, Berry Plants, Rhubarb, Asparagus and Speciosa Catalog. Certificate of Nursery Inspection with each Shipment. **J. W. HINSHAW, Eureka, Kansas**

Strawberry FREE Send address and get six fine, Everbearing Strawberry Plants. Dept. 50. **MUTUAL NURSERY CO., St. Louis, Mo.**

Have You a Kerosene Lamp?

Why Not Turn To Electricity As a By-Product?

BY P. L. DWINNELI
Kansas City, Missouri.

HAVE you kerosene lamps in your home? Don't you enjoy cleaning the chimneys and getting the oil, particularly, if you forget to attend to the task before going to town and have to do it in the dark?

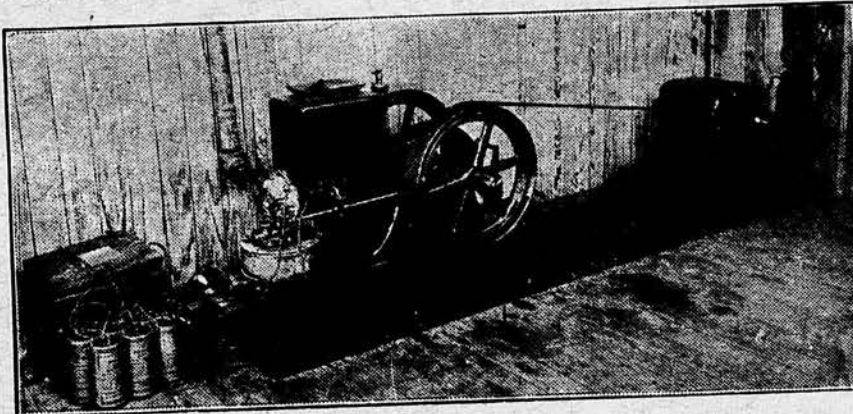
You can equip a 10-room house with electric light for much less than one-half the cost of a fairly good car. And you ought to be as careful in buying the lighting plant.

Several things are to be considered: The first thing is simplicity. In buying a plant you pay something for the services of an electrical engineer, and if his work has been properly done your plant should be so simple that you need never have any trouble with it. Automatic devices are good in the hands of an electrician competent to keep them adjusted to changing conditions, but they are likely to be troublesome if you are not an electrician. Only one automatic device is absolutely required. A circuit breaker is all that is needed. It is placed on a switchboard to prevent the electricity stored in the batteries from injuring the generator in case of accidental stopping of the engine.

The switchboard should be fairly large so that the switches do not need to be crowded and it should be made of good electrical slate. There should be two instruments mounted on it; a volt meter to register the amount of current stored in the batteries and an ammeter to record at the time of charging the

desirable to have a battery sufficiently large, when fully charged, to take care of one's requirements for a week in the summer and three or four days in the winter. A larger size usually is not necessary and a smaller size requires frequent re-charging, and this is more or less of a nuisance. Some plants are made with so small a battery capacity that it is necessary for the engine to start every time a light is desired, and while this usually is accomplished by automatic devices, it will be readily appreciated that the user of one of these systems is absolutely dependent on the mechanism for his lighting. If it refuses to start, he is "in the dark". A sufficiently large battery would obviate this. The average farmer of today is thoroughly convinced of the desirability of an improved lighting system, and there has been enough written on the subject of electric lights to make it plain to the average reader that electric lighting is the most desirable system.

A one-horsepower engine, or an additional horsepower to any engine, will run a dynamo large enough for a 10-ampere outfit. A 10-ampere outfit is satisfactory for the average farm. When the large power is to be supplied by the gasoline engine, the dynamo can be run at the same time, requiring a little more gasoline but no more time. Under such circumstances, the cost of electric lights will be as close to nothing as it is possible to have good lights.



A Simple Outfit That Does More Than Give Light.

rate at which the electricity is passing into the battery.

The next thing to be considered is the batteries. Glass batteries are best because you can see the contents of each cell and can know at all times the conditions of each. It is important that the liquid electrolyte be kept at a certain level; if it evaporates you must replace the evaporation by pouring in soft water. A rubber jar prevents you seeing the level of the electrolyte, with the result that with the very best intentions you will quite frequently allow the liquid to become low in the jars, thus exposing the plates to air and causing them to deteriorate. Glass jars if so constructed that they can be packed separately and connected together after they reach you can be shipped as safely as rubber jars.

Now, as to the engine, I of course, recommend that you buy as good an engine as you can afford; regardless of this however, it is most certainly best to buy one large enough to run the generator for charging your battery and at the same time do your pumping, feed grinding, corn shelling or whatever other work you have for an engine around your place. It is the height of folly to buy an engine that can be used only for battery charging as there is absolutely nothing gained by it. Any engine that will run will charge your batteries, and a special engine for this work is a waste of money, especially if it is directly connected to the shaft of the generator so that it cannot be used for other work. If you already have an engine use it for charging. Do not buy another expensive engine for the work.

As to the Battery. Just a suggestion as to the size of the battery most desirable. It has been shown by the experience of the many farmers who have various makes of lighting plants in use that it is most

The dynamo, switchboard and battery are shipped ready to set up. In most cases, a good electrician should be secured to install the dynamo and cells and do the wiring.

A 10-ampere battery will operate all the lights required for a seven or eight-room house, as well as lights for the out-buildings. In addition, a small vacuum cleaner, electric toaster, wringer, washing machine, sewing machine, fan, or electric iron can be used.

The average house with seven rooms, cellars and closets, should burn less than 300 watts a week. The storage battery of a 10-ampere outfit will produce 300 watts without recharging. It takes eight hours to charge the battery after it has been discharged, completely.

The cost of wiring the house will vary between \$40 and \$100, depending upon the amount and grade of wiring and the fixtures used. A house can be wired cheaper when it is being built than at any other time. The cost of upkeep is slight.

Concrete Bin Floors Are O. K.

[Prize Letter.]
Mr. Editor—In reply to D. E. O., Oswego, Kan., will say that concrete makes the best of floors for grain bins if properly constructed. But he must have a good roof and sides to keep out the rain. I prefer studdings set in the concrete for sides and partitions.

The floor should be finished at least 30 days before used and there will not be a spoiled grain in the bin. Place concrete to a depth of 2 or 3 inches and then a layer of woven wire cut the length of the bin, then another layer of concrete 2 or 3 inches thick; and you have the best floor on earth for a bin, if the sides and top are water proof. I prefer lumber sides.
Hysham, Mont. Lloyd Criswell.

Kill These Pests

that ruin your fruit and destroy your trees, vines and plants. Get rid of scale, fungi and worms by spraying. **Stahl's Treatise on Orchard Enemies** (sent free) will tell you how to do it with easy working—and efficient—

Stahl's Excelsior Spraying Outfits

Send \$3 and we will ship outfit complete. Try 10 days and if not refund your money. Write today **WM. STAHL SPRAYER CO., Box 171, Quincy, Ill.**

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FARM CUSHMAN All Purpose Engine

4-Cycle. Weight 190 lbs. Does all work a 1,000-lb. engine can do. 10-year guarantee. Also 4-h. p. up to 30-h.p. Special Heavy Duty Engines. Get catalog and "trial offer." **Cushman Motor Works, 2030 N. St., Lincoln, Neb.**

ELECTRIC Steel Wheels Save YOUR Back

Save draft—save repairs. Don't rut roads or fields. Send today for free illustrated catalog of wheels and wagons. **Electric Wheel Co., 30 Elm St., Quincy, Ill.**

\$10.00 Sweep Feed Grinder. **\$14.00** Galvanized Steel Wind Mill. We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list. **CURRIE WIND MILL CO., Topeka, Kansas.**

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Simple, durable, powerful. Carefully made to give satisfaction. 34 sizes and kinds. Shipped anywhere on trial. Fully guaranteed. Send for Big 48 page Catalog. It will help you to buy a better engine for less money. **OTTAWA MANUFACTURING CO., 557 King St., Ottawa, Kansas.**

OATS FREE

One package of Jones' Regenerated Abundance Oats will be sent free to show its wonderful productiveness. Resists drought—grows big crops where others fail. Longest strawed, thinnest skinned, heaviest yielding—earliest large grained oats in the world. Also free—Jones' Book on seeds and crop growing. Oats guaranteed perfectly clean. Send in your name today. **O. S. JONES SEED CO., Box 793M, Sioux Falls, S. D.**

BUY TREES THAT GROW A complete line of FRUIT, SHADE and ORNAMENTAL TREES, SHRUB VINES, FOREST SEEDLINGS, etc. It pays to buy good stock. Write today for catalogue. **Wellington Nurseries, Worden & Co., Wellington, Ks.**

CLOVER

New Crop Iowa Grown Re-cleaned TESTED and inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality. **TIMOTHY Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and copy of our Special Clover Seed Circular. Large Illustrated Catalog of Seed free. IOWA SEED COMPANY, Dept. 20, DES MOINES, IOWA**

TREES

FREE GIFT With Each Order. Send today for our Free 1914 FRUIT BOOK at WHOLESALE PRICE. Save agent's commission of about 40% on each order. **WICHITA NURSERY, Box B-1, Wichita, Kansas**

SEED CORN

Reid's Yellow Dent in ear. New Kherson Seed Oats, also Alsike, Timothy and Clover Seed. All seeds guaranteed to please. Send for samples and prices. **F. M. RIEBEL & SON, Arbia, Missouri.**

Black Locust, \$1.50 per 100

Other stock as cheap. Write for big catalogue and send list of your wants for special prices. **CHANUTE NURSERIES, Chanute, Kan.**

ALL BRANDS OF TOBACCO and Standard Cigars

sold to consumers at the price your merchants pay for it. Parcel postage paid by me. Write for price list and keep our address. **CHAS. M. BLEDD, Wholesale Tobacco Dealer, Lyons, Kansas**

ONION SEED 1.00 PER LB. New Seed. Write for free samples for testing. Complete Garden Manual Free. **FIELD SEED CO., Box 87, Chesapeake, Iowa.**

Power Water Systems Pay

A Pneumatic Tank Equipment Will Serve Well on Many Kansas Farms—Towers Are Not Needed

THE idea of the use of air pressure for a water supply system is by no means a new one, but it is only in the past few years that it has been found to be of practical use for the distribution of water for farm purposes. Its more general use is due to the shortcomings, in two respects in particular, of the elevated system.

When we speak of a "pneumatic" water system we mean one in which the water is forced through the supply pipes by means of an air pressure, instead of by gravity or fall, as in the elevated tank system. It is also sometimes referred to as an air-pressure system.

The different makes of pneumatic water supply systems are essentially the same. In one of these the apparatus consists of a force pump, which is operated either by hand, wind or engine power; an air intake valve attached to the suction part of the pump or suction pipe, or an air cylinder that can be operated by the action of the water pump; an air-tight metal tank, either vertical or horizontal, tapped only at the bottom of the tank; a pressure gauge; a water gauge; a horizontal check valve, and a relief valve placed in the line of pipe between the pump and the tank. It is also well to use a globe valve between the tank and relief valve, close to the tank, to be closed after the tank is filled.

How it Works.

The operation of this system is as follows: The conducting pipe from the pump to the tank is connected at the lowest point of the tank. The outlet

In view of not only the expense for repairs, but also the serious inconvenience of such a state of affairs, many farmers are installing the pneumatic systems. Taking everything into consideration, this is the most practicable system and, if properly installed, will give more efficient service.

Another advantage of the pneumatic system is that it does away with unsightly tanks and towers, which adds greatly to the appearance of the farmstead. If there is not already cellar room sufficient to accommodate the apparatus, the usual method is to provide a special building for the purpose, where the tank, engine and pump can be installed.

For use in case of fire, the air-pressure system has a decided advantage over an elevated tank, in that a greater pressure can be obtained for forcing the water to the scene of trouble. This places the farmer in the position where he has the same advantages for fire protection as the city property owner. In laying out the supply system it is well to locate extra taps, if necessary, in case they may at any time be needed to put out a fire. A small extra investment for this emergency will many times pay for itself in case it is needed for fire fighting.

Water for Farm Engines

The quality of the water used in a steam boiler is of interest to the engineer because upon it the profitable production of steam in large measure depends. The life of the boiler also is in no small degree determined by the care taken to supply it with proper feed water. With a noncorrosive water which does not form hard scale a stationary boiler may last 30 to 35 years, but a corrosive water may make it useless in 5 years.

Many waters, especially spring waters, that are comparatively free from mineral matter in solution are known to be strongly corrosive when used in steam boilers. Free acids, such as hydrochloric, sulphuric, and nitric, are very corrosive, attacking iron easily, and waters containing them must therefore be neutralized before they can safely be used for steam making. Water showing no sign of acidity before it enters the boiler sometimes develops corrosive properties when it is heated.

Water containing magnesium chloride in solution, for instance, may be neutral under ordinary conditions, but at high temperatures and under increased pressure of the boiler hydrolysis occurs, forming free hydrochloric acid, which vigorously attacks the boiler shell and tubes. The scale from calcic carbonate waters is loose and can be removed by blowing off. Calcic sulphate waters, on the other hand, form a hard tenacious scale, the removal of which is sometimes very difficult. Hard scale conducts heat poorly. A waste of 15 to 20 per cent of fuel has been known to be caused by hard scale only 7 to 8 millimeters thick. Boilers thus overheated are liable to blister and to crack, and many serious explosions have resulted from overheating scale-lined boilers.

Though a thick, hard scale is detrimental to a boiler, a thin coating of scale is often distinctly advantageous. This is especially noticeable where corrosive waters are used for making steam. Rain water and even melted snow cause pitting of the plates and more or less general corrosion. As a protection against the ravages of waters of this kind the occasional addition of a little limewater is recommended, so a thin coating of scale may be formed.

Allen County Has Moisture.

J. N. Watson of Allen county, Kansas, who formerly and for a good many years was a stock farmer in Pottawatomie county, says that the ground is so thoroughly soaked this winter that he was compelled to ship out 50 head of stags he was feeding. "I kept moving them around in an effort to get a place where they could be kept, but hillsides and all other places were knee deep in mud," he said.



Mitchell Little Six \$1895.00

Recognizing the fact that the modern farmer is as much of a business man as the merchant of the big commercial center, we call the former's attention to the established truth that the Mitchell car is an investment and in no sense a speculation. Not only is the car manufactured to last but its maintenance is economical—a fact that any man of business sense will thoroughly appreciate.

The principle of maximum power on minimum fuel is exemplified to a high degree in the Mitchell Models for 1914 and the strength of axles, frame, springs and other important features is calculated to resist successfully and repeatedly the severe strains and jolts and twists of rough country roads.

Such facts must be considered carefully to preserve an automobile as a daily utility and prevent it from becoming a costly luxury. Your Mitchell of today will be looking well and serving you faithfully several years from now and thus annually the cost of your original investment is decreased until it finally disappears.

The Mitchell Models for 1914:

- The Mitchell Little Six—fifty horse-power—132-inch wheel base—36x4 1/2 inch tires—two or five passenger capacity . . . **\$1,895**
- The Mitchell Big Six—sixty horse-power—144-inch wheel base—37x5-inch tires—seven passenger capacity . . . **\$2,350**
- The Mitchell Four—forty horse-power—four cylinders—120 inch wheel base—36x4 1/2 inch tires—two or five passenger capacity . . . **\$1,595**

Equipment of all the Mitchell Models included in the List Prices Here Given

Electric self-starter and generator—electric lights—electric horn—electric magnetic exploring lamp—speedometer—mohair top and dust cover—Jiffy quick-action side curtains—quick-action rain vision wind-shield—demountable rims with one extra—tungsten valves—double extra tire carriers—Bar bow holders—license plate bracket—pump, jack and complete set of tools. Prices F. O. B. Racine.

Mitchell-Lewis Motor Co.
Racine, Wis. U.S.A.
Eighty Years of Faithful Service to the American Public

FOR MORE CATTLE ON KANSAS FARMS.

Many Kansas farmers are not raising the cattle they feed. The present indications are that the beef cattle of the future will have to be grown and fed on the same farm. This will necessitate marketing at an earlier age than has been generally practiced in the past.

The Farmers Mail and Breeze would like to receive a number of letters in the next two weeks from farmers who have had experience in making "baby beef."

pipe is either branched from the intake pipe or is connected to a similar opening at the opposite end of the tank, according to Farm Engineering. When the pump is put in motion and forces the water into the tank, the air in the tank is gradually compressed in the upper part and in turn exerts a pressure on the water. Thus, when properly piped, the water will rise to a considerable height above the level of the the water in the tank.

Experience has taught, however, that by using only the air that is in the tank before the water is pumped in, there is not a sufficient amount to give the proper pressure for forcing the water through the lines of pipe to the various places where it is needed. Consequently it is necessary to provide an air intake valve or an air cylinder on the pump for the purpose of furnishing more air to the system. This must be put into operation at the time the pump is first started. This will enable the user to carry any reasonable amount of pressure on the tank that he may desire. It has been found that a maximum pressure of 40 to 50 pounds for all ordinary purposes is sufficient and that about 20 to 25 pounds will be found satisfactory for house service.

The principal advantage of the pneumatic system as compared with the elevated is that it is much less difficult to protect it from freezing. Particularly during the winter of 1911-12 farmers throughout the cornbelt section experienced no little difficulty in the matter of frozen water systems, many of them being frozen up until the warm spring days thawed them out. This proved a mighty costly experience in practically every case.

STARK TREES AT LOUISIANA, MO. SINCE 1816

Grand New Year Book

1914—just printed; shows fruits in actual colors and size. Full of valuable orchard information. Tells what, when and how to plant. Mailed Free.

STARK DELICIOUS The Most Amazing Apple Production in Two Centuries

(Trade-Mark)

is fully described—its glorious record of twenty years in the American orchard is accurately given. No one with room for a single tree can afford to be without this marvelous fruit. Of exquisite flavor—large, brilliant, waxy red. The book is free. Write for it.

Stark Bros. Nurseries and Orchards Co., Box 148, Louisiana, Mo.

SEEDS & TREES THAT GROW IN YOUR STATE

My 1914 Garden Book is now ready. It is full of instructions and information you need. It will help you in planning your Vegetable Garden and Orchard for next season. Full assortment of Vegetable and Flower Seeds, Seed Corn, Oats, Barley, Millet and Sorghum, Alfalfa, Clovers of all kinds, Grass Seeds, and Minnesota grown Seed Potatoes. Can supply anything you need on your farm or in garden. All my seeds comply strictly with the laws of our state in regard to purity and germination. We also grow a general assortment of Fruit and Forest trees, Grape Vines, Berries, Shrubs, and Roses. Low prices. Best quality only. Write today for my Garden Book.

GERMAN NURSERIES & SEED HOUSE (Carl Sonderegger) 35 German Bldg. BEATRICE, NEB.

SEED CORN Armstrong's Iowa Grown

selected by experts, carefully sorted, the kind we have sold for over 25 years. Don't gamble with poor seed, don't experiment, don't waste time and labor; plant our high test reliable seed corn for big crops and big profits and buy it at farmers' prices. Thousands of satisfied customers prove Armstrong Quality.

Write today for prices and particulars on our large Yellow, large White and some extra early varieties. Consult Iowa's Seed Corn Breeders and Growers, J. B. ARMSTRONG & SONS DEPT. 170 SHENANDOAH, IOWA

Trent's Seed Corn First Prize Five Successive Years at State Show at Manhattan. This proves beyond a doubt that I have the best strains of seed corn in the West. Reid's Yellow Dent and Boone County White, fire dried, tested and guaranteed. Write for free catalog. Every farmer should have it.

BROWN COUNTY SEED HOUSE, S. G. TRENT, PROPRIETOR, HIAWATHA, KANSAS

YOU can EARN an AUTO HERE'S YOUR CHANCE TO GET A NEW FORD TOURING CAR FOR A FEW WEEKS' WORK.

By my new, easy plan, anyone over 16 years old can get a brand-new Ford Touring Car for a little easy, respectable work among neighbors. FREE BOOK tells all about it—Postal brings it. SEND. AUTO TOM, 629 S. 16th St., OMAHA, NEB.

1914 Model 22 Cal. HUNTING RIFLE Free

A REAL GUN. Take-Down Pattern, with latest improvements, walnut stock and grip. Shoots accurately 22 long or short cartridges. Handsome, durable. SEND NO MONEY only your name and address for my easy plan of securing this fine rifle absolutely free express prepaid. Write today. D. W. BEACH, Box 52, Spencer, Ind.

Keep Ahead of the Hired Girl

Home Conveniences and Head Work Lighten the Tasks

BY MRS. INDIA CAIN

I HAVE only words of praise for the hired girl, as I have been very fortunate in having good help when I was not strong enough to do my own work. But I love my work and would rather do it myself when I can, and use the extra money to buy conveniences for my home. I have always had hired help to cook for, and raised garden and poultry, besides having the care of my five small children; so I have a good many schemes for saving work and perhaps some of them will help others. I believe I worked harder when my first child was small and accomplished less than I did with the five, because I had not learned to economize my strength.

If we are to be successful we must first get out of the rut and not be in bondage to our work. We must concentrate our minds on our work, avoid extra motions, and take time to rest. We can if we will take time to rest body and mind. It may be only a short nap, or a walk out of doors if we are sewing or sitting at work. If the furniture is arranged as conveniently as possible and everything kept in its place a great many steps can be saved. If we avoid going about empty handed almost half our time can be saved; as for instance, stopping to think before we go down cellar or upstairs and taking with us things that we would need to make an extra trip for later on.

Have Plain Furnishings.

I have learned that plain furniture is far easier to dust and varnish, and that with a good plain range, kitchen cabinet, a handy cupboard for cooking utensils, water convenient to the kitchen, a sink, and linoleum on kitchen and dining room floors, the work should not be drudgery. I prefer matting for the bedrooms and rugs for the sitting room and parlor. I have lived in ten different houses and know how inconveniently some are built and what it means to carry water a distance. My husband was good to carry a lot of the water, but oh, the many bucketsful that must be carried when he was busy! I have also had water works in the house and know they saved my strength more than a girl ever could.

I now have a gasoline engine to run the washing machine. It is cheap help, as we separate the milk and wash while it pumps the water. We had electric lights one place where we lived, and I found the electric iron unsurpassed for ironing. A little inexpensive helper is a child's express wagon. I have used it to haul a milk can full of water, coal and wood, a basketful of wet clothes, vegetables, etc.

I have cooked for harvest hands alone by doing all my baking for dinner and supper immediately after breakfast, keeping the top of the stove full of dried fruit, meat, and such other things as needed to be cooked quite a while, and washing my dishes and separator while waiting for something to bake. Then I let my range cool off, wiped up my floors with cold water, and finished dinner on a gasoline stove. The house was cool the rest of the day, and I wasn't as tired as when I hurried dinner on a hot stove. I had also saved time and gasoline by using my range for the baking, etc.

Buy Good Things.

It pays to buy all good material that will be easy to make, wash and iron, and that will wear well. I find the cheapest is always the dearest. I prefer white dresses and suits for the children, as they can be boiled and look new as long as they last; besides, they do not fade and can be remodeled. Let their everyday and school clothes be dark.

I usually keep white oilcloth on my sideboard, dressers, etc., for common and keep my scarfs, etc., laid away to slip on when expecting company. The oilcloth is also nice pasted on the cupboard shelves, as it is easily wiped off. I like unbleached tablecloths for common. They can be boiled and the table looks so much neater than with a dark cloth, especially after it is faded. I buy men's shirts readymade and send the white collars to the laundry. My

patience is worth more to me than the small laundry bill. We use blankets on our beds in winter and save much washing in that way; besides, they are much more comfortable.

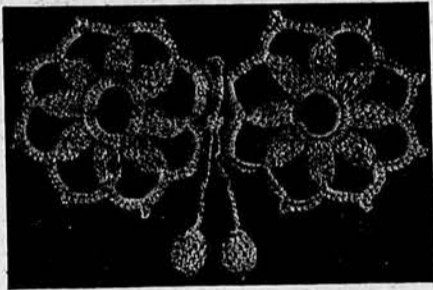
R. 3, Ottawa, Kan.

A New Kind of Crocheted Bow

This crocheted bow was made of No. 10 D. M. C. cotton. Thread of this size makes a much prettier bow than a finer thread. Begin by making a chain of 16 stitches, and join to form a ring.

1st round—Make 32 single crochet stitches in ring.

2nd round—Chain 6, and proceed as in triple crochet, except that the thread is



The Work Is Quickly Done.

thrown over the needle four times. Put needle through stitch next to the chain and draw thread through; thread over needle and draw through 2 loops, thread over needle and draw through 2 loops, thread over needle and draw through 2 loops, thread over needle and draw through 2 loops. Thread over needle four times, put through next stitch in first round, and continue as in previous stitch. Thread over needle four times, and continue as before. This will leave several loops on the hook, the number having increased one at each stitch. Thread over hook once more and draw through all the loops on needle, thus drawing them all to a point, then chain 10, drawing the first stitch close to fasten the previous loops. Thread over hook four times, put hook through next stitch of first row, and repeat as before, making eight groups of long stitches to complete the circle.

3rd round—7 single crochet over chain in previous row, pivot, 7 crochet. Repeat around.

The looped string in the center is a single row of chain stitch, with balls at the ends.

To make the balls chain 4 and join to form a circle. Fill the circle with single crochet. Repeat the rounds of single crochet, widening at each round, till ball is half made, then fill tightly with cotton, and narrow to a point. Nine rounds will make balls of a good size. When bow is finished a short length of velvet ribbon is run from center to center of the circles that have been made.

When a Woman's Too Fat.

Probably there is no one thing that has brought more unhappiness to those so unfortunate as to be afflicted as too much fat—unless it is the lack of it. Some women have taken patent medicines to get rid of it until they have injured themselves for life, because that seemed the easiest way out of their trouble. Those who are really in earnest about getting rid of extra weight were interested in the recent dispatch from New York telling of ex-President Taft's loss of 60 1-2 pounds in weight since last March. For our benefit he tells how he did it. Avoid quacks who give dangerous advice, he says, and get competent medical advice. For himself, he has had to give up potatoes and all starchy foods, fatty flesh, and pastry, and is allowed to use only limited quantities of sugar. Lean roast beef and mutton are permitted, also vegetables that collect little starch or sugar. Mr. Taft now weighs only 271 1-2 pounds, and he says he is happy and loves everybody.

A Party for the Young Folks.

On a long table arrange a series of articles that will illustrate well known poems. Use the nursery rhymes, or verses of familiar songs and poems; be-

gin with very easy ones. Write the verses chosen on slips of paper, give one to each child, and let him select from a table the group of illustrations which matches his verse. For instance, suppose you have copied the verse about "The old woman who lived in a shoe." You will illustrate it with a shoe, a large doll, and little dolls. Or "Tom, Tom, the Piper's Son"—a boy doll with pig in arms. Or "Little Bo Peep"—doll and sheep.

In the second stage of the game allow them to recall the verses fitting each group of illustrations without the written verse.

In the third stage of the game still keep to familiar verses but call time to decide the winner and give prizes. When they have grown wiser let them do the illustrating with objects they select.

O. G.

HOME DRESSMAKING

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

The wide pockets of the kitchen apron, 6468, make it most practical. The pattern is cut in sizes 34, 38, and 42 bust measure. Size 36 requires 2 7-8 yards of 36 inch material.

Any soft material would look well draped in the graceful fashion of the skirt, 6297. The pattern is cut in sizes 22 to 30 inches waist measure. Size 24 requires 3 1-4 yards of 36 inch goods.



Most simple and fashionable is the dress, 6516. The pattern may be obtained in 6 sizes from 34 to 44 bust measure. Size 36 requires 4 yards of 44 inch material.

The waist, 6397, is made in the style so popular this season. The pattern is cut in six sizes from 34 to 44 inches bust measure. Size 36 requires 4 yards of 44 inch goods.

USE THIS COUPON FOR PATTERN ORDERS.

The 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.

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Baby Can't Get Cold at Night

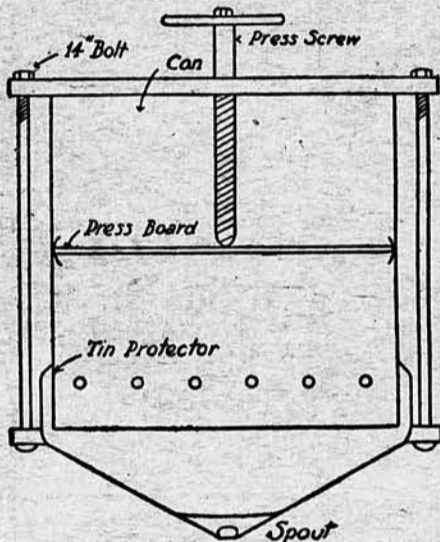
The following is the easiest and best way I have found for keeping baby warm at night: Make a sack of outing flannel by folding together and stitching the edges. Hem the top, for a tape. Draw one end together and fasten securely; this leaves the other half to be drawn and tied closely about baby's neck. In this way the little hands are left free, yet cannot get uncovered.—Mrs. J. D., Hiawatha, Kan.

On cold winter nights I make mits from stocking legs for the little people and pin them to their nightgown sleeves with safety pins.—A. White, Butler, Okla.

Making Your Own Lard Press

[Prize Letter.]

I am sending the picture of my home-made lard press. This press works inside a lard can 9 by 10 inches. The top crosspiece is of 2 by 4. The bottom sill is a board 14 by 14 inches and 2 inches thick, covered over the top with tin. A tin spout extends 3 inches up the side of can and 1 inch from the can. Holes in the can allow the lard to run out into this outer tin, which slopes down so the



Lard Press Pays Its Way.

lard can run into a vessel. The 2 by 4 at the top and the sill at the bottom are bolted together by two 14-inch bolts. The screw out of a workbench vise can be used. A board can be cut to fit inside the can for the screw to press down on. The press can be bolted onto a box or stool. This press completed cost me \$1.25. The hardware store asked \$6.25 for the 10-quart size. I have more than made the cost of the press in the lard saved. G. R. Grant, Marshfield, Mo.

Coming Next Week

The following request, received by the Home Editor, is interesting: "I was glad to read the article in the household department of the Mail and Breeze on the use of a push table. It certainly would be a great step saver, and I was wondering if you could state how it was made." A description of a table of this kind, which will save the busy house-keeper thousands of steps a day, will be published in next week's Mail and Breeze.

From the Diary of a Twin.

January—Am born. Didn't want to be. Object immediately as loud as I can. Younger brother born seven minutes later. Looks like a fool, but may improve as he mellows with age.
 February—Catch a cold. Give it to younger brother. He's sicklier than I am. Very nearly settles him.
 March—Catch a nice rash. Pass it on to the other cove. Pretty well winds up his clock.
 April—They christened us. I'm Augustus and he's Alexander. I'll kick him when he sleeps.
 May—Got the nettle rash. Hooray! So's he—only worse.
 June—They don't think they'll be able to rear him. He's to have cod liver oil. Can't help laughing.
 July—He's been squalling awful. Nurse says it's his nasty temper. I know it's a pin, but I ain't going to tell.
 August—We've got a new nurse. Alexander's got a blister on the end of his nose. They don't know what it is. He is to have a powder.

September—I've given him the scarlatina. He seems resigned. I've nailed his feeding bottle.
 October—I've got a new game now—poking Noah's wife into his ear when the nurse ain't looking.
 November—We're beginning to walk. He's weaker on his pins than I am, so I can shove him over easy.
 December—I am beginning to cut my first tooth. As soon as it's through I've made up my mind to bite Alexander.

Easy Way To Polish a Stove.

The following way of polishing a stove beats the old way, and always gives a good shine: First remove all nickle pieces you can, then brush stove free from dust. Apply the polish with a small paint brush so as not to miss any crevices. When perfectly dry polish with a broom. This saves the back and gives a good shine, and after washing the broom is as good as ever. To polish the nickle take a pan of soft water and a bar of best white soap. Wash the nickle perfectly clean, then wring out your cloth, apply soap till the cloth is well lathered and rub each piece thoroughly. Polish first with a dry cloth, then with tissue paper. I have kept the nickle on my cook stove nice in this way for nine years, and it looks almost like new. Jennie McWilliams, R. 1, Walnut, Kan.

Babies That Are Always Hungry.
[Prize Letter.]

Oatmeal water given to babies that are nursing but seem hungry all the time is very good. To prepare take 2 large tablespoonsful of oatmeal to a pint or more of cold water. Let boil until like cream, and strain through a very thin cloth. Add a little sugar, and if baby is constipated, add a teaspoonful of cream, not milk. If the oatmeal water gets too thick when cold, thin with water. I cook enough in the morning to last all day. Jewell, Kan. Mrs. J. W. McClure.

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Extra Work for Your Car

As a Stationary Engine It Will Need Changes

BY E. B. CHALK
Freedom, Oklahoma

ALL sorts of questions are coming to the motor car department but chiefly they refer to the worries of men with engines of one kind or another. Very few farmers appear to have trouble with their motor cars, which indicates that most of the men on the farms are mechanics and fairly able to do their own repair work. Here is a letter from a farmer in Oklahoma:

Would it be practicable to use a 25 horsepower two cylinder Buick automobile to furnish power to run an ensilage cutter having a capacity of from four to seven tons per hour where the cutter was equipped with a slat carrier instead of a blower?

What size pulleys would you advise to use on the rear wheels of the auto? Must I use both rear wheels for drivers in order to prevent side draft?—C. H., Elgin, Okla.

The engine will have plenty of power to run the cutter, but as it is mounted in the motor car some changes will have to be made. The engine was designed to be used only when the machine is in motion and a blast of air directed on the radiator. When the engine is allowed to run with the car not in motion the radiator will not carry off the heat quickly enough to keep the engine from over-heating.

In order to use the engine as it is mounted on the automobile, you would have to arrange a fan to throw the air

of the car) should be the one that is keyed to the shaft as then the machine can be used in high gear and not wear out the transmission.

The two pulleys should be placed far enough apart so that the wheel will not be likely to run out. If the car is not equipped with tires the rim should be lagged so that the wheels will not slip. Figure the size of the wheels and the size of the pulley on the cutter to get the proper speed.

The diagram will show nearly all of the points, except that the jack shaft pulley may be placed in the center as shown or at one side as may be convenient.

Many of the older cars that are out of date and not desirable for road work will supply a cheap source of power. The only objection is that as the engine is not equipped with a governing device, the load must be constant or some person sit in the machine to handle the throttle.

I have used a single cylinder Olds automobile to grind corn and other stuff and found that the outfit was satisfactory and did the work of a stationary engine costing several times as much as the car. Another advantage is in the fact that the machine will move itself from place to place.

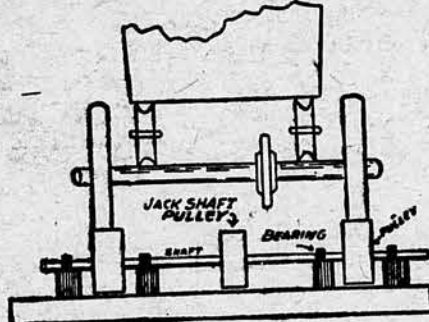


Fig. 1.

through the radiator, a simpler method would be to make a bypass in the pipes that lead to the radiator so that the radiator would be disconnected and a larger tank used when the engine was used for stationary work. The tank should hold at least one or one and one-half barrels of water.

When one wheel is used only for power the differential gearing would be subjected to more strain than it was designed to carry and would soon wear out. The differential gear is intended to be used only in turning corners so that one wheel will not have to slip; for this reason the gear is used but little.

Where a motor car is used to furnish power a pulley should be put on both of the rear wheels and a jack shaft put in so that both wheels will be doing

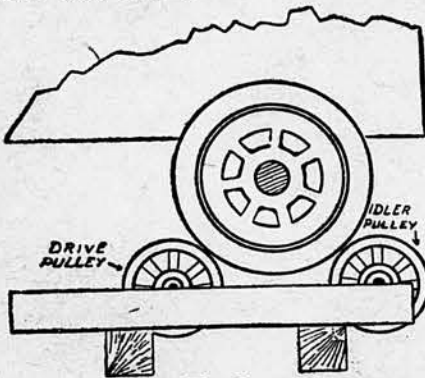


Fig. 2.

their share of work. The easiest and by far the best way to use the motor car would be to make a device as shown in the diagram. With this device the jack shaft is rigid and is held in place by the weight of the car, and the car will also be less likely to wobble and get out of line with the pulleys. The pulleys could be made out of wood or an iron pulley with flanges used, so there would be no danger of the wheels slipping off the pulley. If the pulleys were made of wood they should be made to fit the tire; that is the face of the pulley should be made concave. In using iron pulleys I have put lagging on them so that they will be the proper shape. When the device is in position the front pulley (the one toward the front

About Tires.
Nearly every month a company is organized to make and sell a compound to prevent tire punctures. Great claims are made for the different kinds of dope but experience will teach that most of them are worthless. The stuff will stop a small hole such as is made by a tack or a small nail but it generally causes the tube to rot and you are worse off than in the first place, for if you get a large nail or hole in the tube the filler will make it a messy job to put on a patch.

Tires That Last.
The tire that lasts is the tire that is not overloaded and is kept pumped up to the proper pressure. The manufacturers stamp on the side of the tire the pressure that that size tire is supposed to carry. It is impossible to tell by the feel or the looks of a tire whether it is properly inflated, and for that reason a tire gauge should be in every tool box and the tires tested after they are pumped up and before the car is taken out.

A Fuel Mixture Test.
A general rule that may be applied to all engines is that with proper compression, a good spark and a mixture of fuel that will explode the engine will run. You can test the compression by cranking the engine, and the spark can be tested by taking out the spark plug and placing it on the cylinder head and cranking the engine. But many people are unable to tell when the engine is getting an explosive mixture. A rough but ready test is to take out the spark plug or igniter block after the engine has been cranked and touch a lighted match to the hole. If the mixture is correct there will be a mild explosion and the flame will be blue, while if the mixture is too rich in gasoline the flame will burn slowly and will be red, and if the match fails to ignite the mixture the engine is not getting gasoline. In making this test do not attempt to look in the cylinder or hold the match directly in front of the opening as there is danger of being burned.

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What Breed of Cows to Buy

Some Facts to Remember When Looking for Dairy Stock

BY O. E. REED
Kansas Agricultural College

If I were to go out to buy a cow of either of the four dairy breeds—Holstein, Jersey, Guernsey and Ayrshire—what ought I to consider as a good record of milk production in each breed?



O. E. Reed.

This question, among some others to follow, is asked by a LaBette county farmer. The records that you can expect from the dairy breeds mentioned would depend first upon the individuals, then on the care you give them. It is not sufficient that an animal be a good one and capable of producing milk and butterfat. It is absolutely necessary that she have feed and care. There is about as much in the feed of the cow as there is in a cow herself as far as profitable production is concerned.

If you were to go out to buy purebred cattle of the Holstein, Jersey, Guernsey or Ayrshire breeds you would find only a small per cent of them with records, that are for sale. I would not consider anything a good record unless it was equivalent to the requirements for their making the advanced registry or registry of merit of the different breeds. For a mature cow to be entered in the advanced registry of the Holstein or Guernsey breeds, and in the registry of merit of the Jersey breed she must make at least 360 pounds of butterfat a year. The mature Ayrshire cow must make 322 pounds of butterfat to be entered in the advanced registry.

The record of 360 pounds of butterfat in a year seems rather low when you



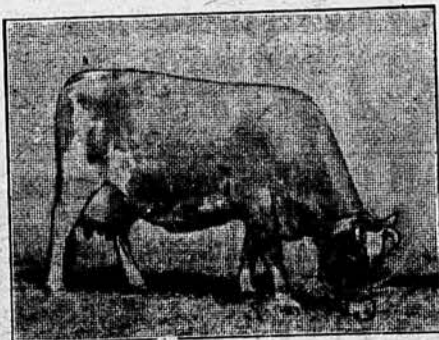
A high-producing Jersey of approved dairy type.

consider that there are individuals of all these breeds that have made 1,000 pounds of butter in the same length of time. But ordinarily under farm conditions we consider 300 pounds of butter in a year to be very good.

If you are contemplating going into the purebred business it will be necessary for your animals to be able to make the advanced registry if you hope to sell their offspring at good breeding prices.

Question No. 2—What per cent of butterfat should the milk of each of the breeds named test to make a good profitable cow to keep?

We cannot gauge or determine the profit a cow will make by judging from the per cent of butterfat in her milk. The milk from a cow may contain a high per cent of fat and yet she will not be a profitable cow. It is far more important to know the amount of milk any cow gives than to know the per cent



A well-bred Guernsey with a year's record of 14,562.40 pounds of milk producing 860.26 pounds of butter fat.

of butterfat the milk contains. However, it is best to know both the milk record and per cent of fat.

The individuals of any of the four breeds mentioned will not vary very much from the average of the breed as far as the per cent of fat in the milk is concerned. And if one knows the pounds of milk a cow gives he can very safely use the average fat for the breed she belongs to and calculate the product of butterfat. The average test for the breeds is as follows: Jersey 5.1 per cent, Guernsey 4.9 per cent, Ayrshire 3.85 per cent, Holstein 3.45 per cent.

Question No. 3—Does the milk of a cow vary in richness, say at the time of



One of Iowa's best Holstein producers. Yearly record: Milk 24,347 pounds; butter 1,011 pounds.

freshening and after being milked two or three months?

The milk of a cow varies in test considerably during the year. If the cow is in good flesh when she freshens she will usually give a higher per cent of fat in the milk at that season than at any other time of the year. If she is poor in flesh at this time, the per cent of fat will be low. As a general rule the cow will give a richer milk when she is giving the smallest quantity. Consequently as she goes dry the milk will be richer than when she is giving a larger amount.

Then there seems to be a seasonal variation. It has been found from keeping records that cows will usually test higher in the fall and winter than they do in the spring and summer months, regardless of how they are fed or whether or not they are on pasture. There are so many things that cause the test to vary that one cannot determine the average test of a cow unless he tests her at least once a month. This test then should cover at least one full day's milk, and better two days.

Question No. 4—Can you test the milk at the cream station just the same as you can cream?

No. Testing cream requires the use of a cream bottle, while testing milk must be done in a milk testing bottle. The proper way to test cream is to weigh out the sample but in testing milk the sample can either be weighed or measured. In weight it requires 18 grams of milk, while in measuring 17.6 cubic centimeters are used for the sample. The reading of the test is also different.

Question No. 5—How many pounds of milk should each breed give under good care and feed conditions?

This depends entirely upon the individuals and the feeder.

Question No. 6—Does the milk of the same cow vary in richness as the age of the cow advances? If so, how much of a test could we expect of a heifer, and how much would she increase with age?

As a general rule a cow will give a little richer milk at 2 or 3 years old than she will later. But here, again, the conditions of the cow at the time of calving play an important part. I believe the reason for average figures showing that the milk of a cow when she is a 2-year-old will contain a higher per cent of fat than when she is a mature cow, is because of the fact that under average conditions the cow is in better flesh when she freshens at 2 years old than she is at any subsequent calving.

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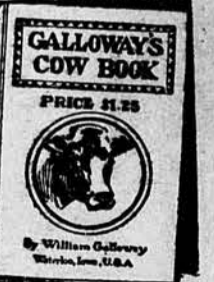
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Wm. Galloway, President
WM. GALLOWAY CO., 43 Galloway Sta., Waterloo, Iowa

Midwinter Care of the Flock

Variety of Feed and Good Shelter Are the Essentials

BY W. A. LIPPINCOTT,
Poultryman, Kansas Agricultural College

FOR fattening chickens, buttermilk has a feeding value of more than 30 cents a hundred pounds. This is considerably in advance of its value for feeding hogs.



W. A. Lippincott.

When zero weather comes, note the birds that withstand the freezing of headgear. It means they have a great circulation. Save them for breeders. They will add physical tone and thrift to your flock.

A hen wants cold water in the spring and she wants it in the winter the same way. But that doesn't mean ice. See that water is available at all times. A hen's egg is 86 per cent water. She won't lay many winter eggs unless she gets water. A 12-quart, galvanized pail which is put in a box and well packed with straw will resist freezing a long time. Where the straw is well packed, the bucket can be lifted out for filling and put back without disturbing the straw. In extreme weather, it will help to take a little of the chill out before setting the pail in the box. The water should by no means be warm, however.

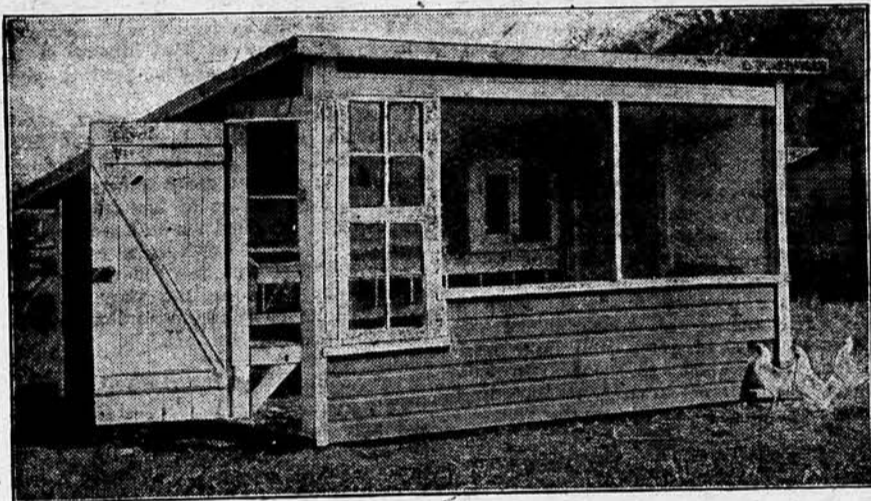
It's time to be figuring up your order for fruit trees for next spring. The birds must have shade.

Effect of Proper Feeding

Mr. Editor—The most egg money comes from feeding the hens the proper food. Many substances contain the requisite food elements but they are not combined in the correct proportion to produce the best results. If a fixed combination will increase the butter yield when fed to a cow there is no reason why a fixed combination should not produce eggs when fed to a hen. Carefully combined substances which contain a large amount of albumen—the main constituent of the egg—are the best. The effect of feeding them is to induce a greatly increased egg production without the loss of vitality in the hens. Indeed

Provide Spring Conditions.

Spring brings a great variety of food, including plenty of tender greens. Vary the ration gradually from time to time



Poultry house of approved type summer or winter.

and feed some sprouted oats. Succulent feed has a beneficial effect on the digestive tract and stimulates the appetite.

A bit more corn should be added to the ration during the winter months. Corn is generally thought of simply as a fattening food. It is a heat-producing food as well. In order to turn the corn into heat instead of fat, keep the hens working early and late.

Insects and worms enter largely into the spring ration. Any kind of animal food will be relished now and act as an appetizer. Butchers' scraps and green bone will keep a long time in winter weather. Beef scrap is always in season.

As far as work is concerned, plenty of it can be provided in the hen house. Scratching is as necessary in January as it is in March and April. It brings good results in both cases. Nothing makes a hen forget the cold like searching in a deep straw litter for her grain.

Skimmilk helps vary the ration for the laying hen. Experiments at the West Virginia station show that hens lay an extra egg for every quart of milk they drink. Skimmilk can be bought from creameries at 20 cents a hundred. A hundred pounds of milk is approximately 12½ gallons.

Go out behind the hen house when the wind is up and consider how much protection a windbreak would be. Write to the forester at your state experiment station and ask his advice about a quick-growing, permanent windbreak. It is possible to have a windbreak that will grow good fence posts at the same time.

it imparts and increases constitutional vigor; makes eggs fertile and sure to hatch; makes broilers grow and mature early; makes hens lay in the middle of the winter and makes an early and strong layer of the pullet.

Pittsburg, Kan. Austin Long.

Bill of Fare For Layers

[Prize Letter.]

Mr. Editor—In order to make my hens lay in the winter I try to keep the flock in as comfortable condition as possible, day and night. This means not only good housing but proper feed. I try not to have more than six or twelve hens or pullets in one pen to get the best laying results.

For a morning ration I usually feed a variety of mixed grains in a deep litter. In very cold weather I feed it warm but not hot. I feed just enough to keep them busy nearly all the time. At noon for green stuff I feed scalded alfalfa meal with beef meal, or scraps mixed. At night I feed about the same as in the morning with little variation. Keep plenty of lukewarm water, grit and shell before them all the time.

Hutchinson, Kan. J. N. Burton.

Beef Will Be Higher.

Frank Koster of Ottawa county, Kan., is feeding this winter in Republic county, Kansas, 300 head of good steers of the Panhandle class, which have been on full feed about 100 days. "I am looking for a better market after the holidays on fat cattle, so I will not let any of mine go until that time," Mr. Koster said.

Here Is the Oil Here Is the Bill for One Big Hatch with the X-Ray

One Gal. To Market Price 1 Gal.

X-RAY saves you 75c to \$1.25 on the hatch because the central heating plant is underneath—in the middle—where it should be. All the heat is used—just enough heat—never too much, never too little—distributed with scientific exactness to every corner of egg chamber.

No other incubator in the world heats in this way. The X-Ray is patented. It is the simplest, the safest—produces the largest hatches.

One Gallon Oil! One Filling! X-Ray Does the Rest

Put one gallon of oil in your X-Ray Incubator Tank. Light the lamp underneath. In 15 minutes your X-Ray is at perfect hatching temperature. (Others require 4 to 8 hours.)

Then your X-Ray takes the oil and lamp work away from you. You don't have to put oil in the lamp again until the next hatch. One gallon does the work. (Others require five gallons.)

You don't have to regulate the flame. The X-Ray Automatic Trip does that—and does it scientifically. (Think of the time others waste on the temperature of old-fashioned incubators. Think of the worry.)

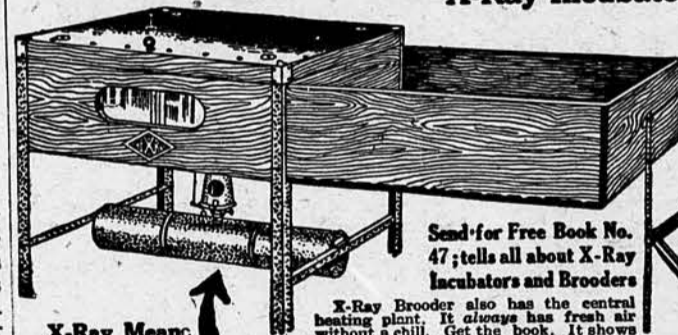
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The new X-Ray factory at Des Moines, Iowa, is the largest exclusive incubator factory in existence. Completely equipped with the most modern machinery. It enables us to produce the best incubator—best of materials—best in workmanship as well as best in principle—at the lowest prices. No finer incubator construction can be found anywhere.

You get the X-Ray direct from the factory—FREIGHT PREPAID—at the lowest factory price. No agents—no middlemen—to add on profits. Buy the X-Ray yourself where the X-Ray is made.

X-Ray Incubator Company

Des Moines, Iowa



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Corn and Oats From Abroad

Argentine and Canada, Aided by the Beneficent Tariff, Are Helping To Cut the H. C. of L.

LEM BOWSER, a Reno county farmer, has shipped in a car of oats from Canada. It probably is the first car of Canadian oats to come to Reno county.

The scarcity and high price of oats here makes it possible, and necessary, to ship in oats now from the far Northwest. These oats cost Mr. Bowser 6 cents a bushel tariff at the border, and 47 cents freight charge.

weighing 1,065 pounds, sold for \$8.25. In the shipment he had a bull that brought \$115.50, also an old cow that sold for \$84, which he considered very good prices. "I have on my farm a 150-ton silo. These cattle were fed on silage, cottonseed cake and a little corn," he said.

Wheat Pasture Caused Bloat.

J. W. Armstrong of Saline county, Kansas, reports that farmers have had trouble in that locality in pasturing their wheat this winter. "Several cases of bloat occurred in my community," he explained. "It is a very rare thing for cattle to bloat on wheat, and can be accounted for from the fact that the growth is very rank, and full of sap."

Argentine Corn Is Imported.

Nearly 300,000 bushels of Argentine corn were being unloaded in New York, January 8, and millions more from the South American republic are under contract. The importations are the direct result of the removal of the duty on the staple under the recent tariff act. More than 1 million bushels have been received in the United States since the tariff went into effect, the first from the Argentine ever brought here, and already the competition with American corn has forced a decline in cash values.

Thirteen ships are either en route or loading, with corn from the Argentine, and one American manufacturing concern which uses corn in the manufacture of sirups and kindred products, has 5 million bushels from that country under contract for delivery.

The recent sharp decline in corn prices in Chicago went a penny further January 8, due to the removal of the tariff duty from the cereal, accentuated by a decline in the Buenos Ayres market. Argentine corn in New York at present is selling 4 to 5 cents under the price at which Chicago shipments can be sold in that market, according to James A. Patten, who for many years has been recognized as the biggest corn dealer, in the American market.

Chicken Farms Are Small.

"It is a mistaken idea," remarked Joe Schlagel of Crawford county, Kansas, who is in the mining district, near the Missouri line, "to think that one must have 50 acres of land on which to engage in the poultry business, when 5 acres will answer all purposes. I occupy less than 10 acres, and have part of the year 1,500 chickens. On this land I raise all my own feed, including grain and green feed for winter."

A Smaller Spring Pig Crop.

A. A. Thrush of Osage county, Kansas, attributes the short supply of brood sows being carried over in his neighborhood to the high price of corn. Mr. Thrush is a regular shipper, who is well in touch with the hog situation in his territory. "Everything now indicates a lighter pig crop in the spring than usual," he said.

There Cattle Sold Well.

G. P. Rieger of Harvey county, Kansas, marketed a mixed shipment of cattle in Kansas City recently. His steers,

A New Hog Ration.

E. A. Walquist of Palmer recently sold a carload of hogs in Kansas City that averaged 353 pounds that had not been fed on corn. They were less than a year old. The hogs sold for \$8.15, which was the top for that day.

The hogs were fattened on a new ration. It consisted of wheat, raised on Mr. Walquist's own farm, with a side dish of meat meal from a Kansas City packing house. The wheat was soaked before giving it to the hogs, and proved a cheaper feed than corn. After paying freight, and all other charges, Mr. Walquist took home with him \$1,673.79.

Silage Is Cheaper Than Alfalfa.

"We now have a strong rival of alfalfa in the cheap feed line, in silage," said B. F. Dealy of Hutchinson, Kan., as he discussed his way of feeding cows this winter.

"We boasted for many years about alfalfa as being the cheapest and best forage feed. We still feel that it is a first class feed, but more expensive than silage. I have a silo of 250 tons capacity, which I emptied several weeks ago. Then I refilled it with corn and kafir. In doing this I wet the fodder and kafir as I put them in, and they seem to make just as good silage as that put in from the field in the fall."

More Hogs for Haskell.

"It may be a surprise to some of the corn belt farmers to know that out in the extreme southwestern part of the state, we are raising many hogs," said G. A. Ellsaesser of Haskell county, Kansas. "We find that we can raise a good deal of corn, also kafir and besides that we do not have to figure on hog losses by disease, as is the case in the older sections of the country."

Kansas Bankers Will Help.

The Kansas bankers are to come to the rescue in locating seed for the Kansas farmers this spring. H. M. Cottrell, agricultural agent for the Rock Island, after a trip through the state, reported to Charles M. Sawyer recently that there is a general shortage in seed, especially in corn, milo, and maize. But there are some counties in the state that are well supplied with seed for planting, according to reports received by Commissioner Sawyer.

"The county bankers' associations will act as clearing houses for seed distribution," said Commissioner Sawyer. "The bankers in every community will report to the secretary of the bankers' association what the needs of that county are, if the county is facing a shortage in seed for planting. Also the bankers in counties where there is more seed than is needed will report to the secretary. In this way it will be possible for the farmers in the different counties to buy or sell seed, as the case may be, without the middleman's profit to be considered."

Alfalfa at \$9 a Ton.

While the corn crop was cut very short in Phillips county, Kan., last year at the same time there seems to be plenty of other kinds of feed, according to Jake Tillman of that county. "Alfalfa can be had there at \$9 a ton," he said. "That is a very reasonable price, and much lower than some years ago when we had plenty of corn."

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This is the famous Old Trusty book that gave half a million people the right ideas for making chicken profits. Let me send it to you, too. We offer you no untried experiments. If the Old Trusty doesn't do its part to make you successful, you trade back. It's the highest grade hatcher made, at a price you can't resist, based on selling 100,000 machines this year. Write me now.

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The book, which contains special articles by expert poultrymen, we send free, whether you are a customer or not. The reason why we send book FREE is because it also tells all about Rayo Incubators and why it usually hatches 15 to 20 chicks more than old-fashioned machines, and with one-fifth the quantity of oil.

Write at once for book and we'll send you sample of Patent Hatching Chart given free with the



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The Rayo claims are based on actual facts. Send for literature—and don't forget to ask for free Book No. 15 and Sample of Hatching Chart. Address: **Rayo Incubator Co., 1018 So. 13th St., OMAHA, NEBR.**

is practically a surety with the Rayo. Besides the Rayo requires very little attention compared to other machines. It requires only one filling to a hatch. Eggs and thermometer can be seen through double glass top, which raises for airing, turning eggs, cleaning and sunning. Double water thermostat acts automatically on flame—producing exact heat necessary. Ventilator is automatic. Eggs turn semi-automatically. Lamp cleaned without removing chimney or tank. Tank holds five quarts of oil. Redwood case, covered with steel, makes it fireproof and handsome.

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"I beat both my neighbors' hatches with a Rayo. Your regulator can't be beat."

"It isn't only the big hatches and big chicks I get, but the Rayo uses only 1 gal. of oil, and I don't have to watch the machine, either."

"Just got rid of my lamp-on-the-side machine. Enclosed find order for a Rayo. It beats them all for big hatches."

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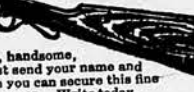
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This work is written by a recognized authority on self-propelled vehicles and internal combustion motors. Everything is explained so simply that any one of average intelligence may obtain a comprehensive knowledge of gas tractor operation, maintenance and repair. Tells how they are constructed and explains fully the reasons for varying designs. Contains special chapters on driving the tractor on field and road, what to expect from tractors in various kinds of work, cost of operation and money making hints on repairs. It describes all ignition systems, all types of gasoline and kerosene vaporizers and carburetors, latest forms of power plants and installation, clutches, speed changing and reversing gears and all frame parts and their functions. Tells how to tell brake horsepower from draw bar or horse equivalent power, how to make adjustments to power plants, change speed gearing and other parts. Describes tools for tractor repair and gives plans for tractor sheds so they can be used in winter for stationary power or workshops where all repairs may be made. Outlines control systems of leading types and shows simple hitches for working various implements in combination. Describes fully tractors for small farms and orchards as well as types of the largest capacity. All illustrations are plainly marked with all important parts indicated so they may be easily identified. Drawings are simple but in correct proportion. Every illustration has been specially made for this book. The price is \$2.

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Silage In the Egg Ration

Mr. Editor—Last winter we had a flock of 100 White Plymouth Rocks. About five dozen were hens, the rest pullets, some of which laid during the winter. In January and February we sold 120 dozen eggs besides what we used. We kept them shut up when there was snow on the ground and fed them about a bushel of silage, a couple gallons of skimmilk warm from the separator, and in severe weather a little extra corn at night. We also kept a box of dry bran and grit mixed, to which they had free access. I consider kafir the best feed for growing chicks, with plenty of lime and grit. I have found there is both pleasure and profit in keeping purebred chickens.

Mrs. Alma Kinney.
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The Bell Kept Off Coyotes

[Prize Suggestion.]

My old turkey hen hatched out 16 turkeys, 13 of which grew nicely until they were as large as a good sized rooster when a coyote began taking one almost every morning. I lost three in this way when finally I thought of a plan which proved successful.

The turkeys ran in a drove with the old gobbler leading. I took a small sheep bell and strapped it around the gobbler's neck, so that when he walked or ran the bell kept up a constant tinkling. I raised the rest of the turkeys until they were full grown, and I firmly believe it was the bell that saved them as they were not bothered any more by the coyote.

Mrs. Joe Holmes.
Pierceville, Kan.

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Poultry Show Calendar

SEND IN YOUR DATES.

KANSAS.
Wichita, January 13-17—Asst. Secretary, Mrs. H. J. Freeman; Judges, Thompson and Campbell.
Americus, January 15-17—Secretary, N. H. Landes; Judge, J. J. Atherton.
Leavenworth, January 20-23—Secretary, C. M. Swan; Judge, F. H. Shellabarger.
Esbos, January 22-24—Secretary, Ed Grauerholz; Judge, John C. Snyder.

OKLAHOMA.
Waynoka, January 13-17.
Stillwater (A. and M. College), January 12-18—Secretary, Loyal F. Payne, Stillwater.
Tulsa, January 12-18—Secretary, Mrs. Rufus White, Sapulpa.
Enid, January 28-31—Secretary, I. W. Sherich; Judges, Rhodes and Emry.

FITZ SAYS To lengthen your life shorten your meals.

FITZ OVERALLS

The "feel good" brand—the kind of work clothes that makes the work easier. Worn wherever there is work to do. On the farm, in the factory, outside and in, you'll find satisfied workers wearing FITZ.

Burnham - Munger-Root Dry Goods Co.
KANSAS CITY, MISSOURI.



When a man's best friends can't believe what he says, his reputation is pretty nearly bankrupted.

Solid Comfort Vehicles

GREATER values than we have ever before been able to offer are shown this year in our complete line of Solid Comfort Vehicles as illustrated and described on the vehicle pages of our General Catalog. Our Leader, illustrated below, is the biggest selling buggy ever manufactured. More than 50,000 are in daily use. But we offer equal values in other buggies, surreys, runabouts and spring wagons. Every vehicle we sell is guaranteed to give perfect satisfaction always. Our enormous vehicle business enables us to furnish the fullest measure of quality, style and workmanship, at prices a great deal lower than others ask.

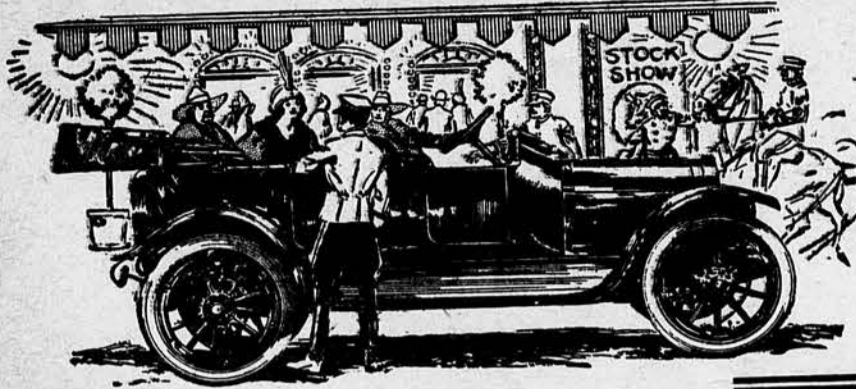
Our price for the splendid buggy illustrated below is \$61.90. It has triple panel auto seat, genuine leather upholstery, highest type body construction, triple braced shafts, best wheels made, full wrought fifth wheel, real long distance self oiling axle. Shipped from a warehouse near you.

If you want to read the complete description of this and many other vehicle bargains, turn to the vehicle pages of our big General Catalog. Compare the quality and prices with others and remember the guarantee of satisfaction we give you.

If you haven't our big General Catalog, simply say "Vehicles—65M69" on a postal card and mail to

Sears, Roebuck and Co., Chicago





The Climax of 21 Years of Motor Car Building Experience Is the Appersons' Master Creation — the New "45" "The Wizard of the Hills"

WITH their own hands, 21 years ago, Elmer and Edgar Apperson built America's first automobile. They have been building them ever since, and in all that time no Apperson car has ever worn out. Annual upkeep, our parts-purchase record shows, is but \$5 per car. Consider that some of these are 20 year old cars. The Apperson Brothers have never created a failure. They have never built a car that developed chronic trouble. They are the only makers who hold such a record. Their company, organized 21 years ago, is the oldest in the automobile industry. In 1908 they achieved chassis perfection. Judge the wonderful car that must come from that wealth of experience. For it is greater than that of any other maker.

And now the Apperson Brothers announce their masterpiece—the greatest of all Appersons—the new "45." In it is crystallized the vast knowledge these pioneers secured in twenty-one years. It is equipped with every comfort and convenience the motorist desires in an advanced automobile.

Ten years ago we reached that point in automobile construction, toward which other manufacturers have ever since been striving—BIG POWER—LIGHT WEIGHT—LOW-UP-KEEP COST.

PRICES AND MODELS, F. O. B Kokomo, Indiana

All with Electric Lights, Electric Starter and Full Equipment

Light Touring for 5	\$1600	4-45 Touring for 5	\$1785
4-45 Roadster for 2	1600	Sedan Limousine	2500
Inside drive coupe or town car for 4	2350	6-45-58 Touring for 5	2200
		Touring for 7	2300
		Roadster for 2	2200

Get in touch with our nearest distributors and view for yourself this latest creation of Elmer Apperson. Or write us direct for art catalog and full specifications.

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35

Pure Food Laws In the Bible

Early Statutes Crude, But Helped To Prevent Disease

BY W. A. LIPPINCOTT

This is the fifth and last installment in a series of articles by W. A. Lippincott on the rural life teachings of the Bible.

THE material is so plentiful in comparison with the space at my disposal that I cannot do more than touch upon other rural-life problems that are dealt with in the Bible and which confront us now. Immigration and the laws dealing with aliens are just now claiming a large share of our attention. The question was of such importance in Old Testament times that laws are found regulating it in favor of the five codes.

Thus we find in Exodus (22:21), "Thou shalt not wrong or oppress a resident alien, for ye were resident aliens in the land of Egypt." And again in Numbers (15:15, 16), "There shall be but one statute for the assembly, both for you and for the alien that resideth among you. There shall be one law and one regulation for you, and for the alien who resideth among you." It is interesting to find that the question of an heiress marrying a foreigner is also dealt with. In the thirty-sixth chapter of Numbers, in a passage that is too long to read, a statute gives directions that daughters may inherit the patrimonial estate only on condition that they marry within the tribe. If they marry a duke or a count in another tribe, the inheritance will be withdrawn. No inheritance might pass from one tribe to another. This is quite suggestive concerning some of our modern international marriages, which are not, however, confined to country girls.

What Not To Eat.

In the ninth chapter of the first book of the Bible, we find this prohibition (Gen. 9:4), "But flesh with the life thereof which is the blood thereof, shall ye not eat." And again in Leviticus (19:26), "Ye shall not eat anything with the blood." These statutes in common with all others were given a religious significance because life and religion were one. There can be no doubt, however, that hygiene was the fundamental basis for such regulations. Proper bleeding in the killing and packing of certain kinds of meat is still one of the matters which today is not closely enough watched and regulated. Prevention of disease was probably at the basis of such regulations as (Dt. 14:21), "Ye shall not eat anything that dieth a natural death." Today we have an elaborate system of government inspection to protect us from this very thing. And so throughout the long list of unclean things. While in some cases ceremonial uncleanness is carried to an extreme, which is difficult to understand from so great a distance, nevertheless, the prevention of the spread of diseases was the underlying principle. The great white plague of that day was leprosy. Today it is tuberculosis.

There are a host of farmers' laws that are full of suggestive interest because of their relation to the life of that day and their similarity to some of our modern statutes. I read but a few taken almost at random. (Ex. 21:33) "If a man open a cistern, or if a man dig a cistern but doth not cover it, and an ox or an ass fall into it, the owner of the cistern shall make it good; he shall give money to the owners and the carcass shall be his." (Ex. 22:5) "If a man burn over a field or vineyard and let the fire spread so that it devoureth a neighbor's field, out of the best of his own field, and the best of his own vineyard, shall he make restitution. If fire break out and catch in thorns so that the shocks of grain, or the standing grain, or the field are consumed, he that kindled the fire must make restitution." This sounds very much like some of our laws governing the railroads relative to fires in grain fields. (Ex. 22:14) "If a man borrow an animal from his neighbor, and it be hurt or die while its owner is not with it, the man must make restitution. If its owner be with it, the man need not make it good; being a hired animal, it came for its hire." (Lev. 24:18) "He that smiteth a beast so that it dieth shall make it good, life for life."

I began this series by calling your attention to the very large number of Bible men who were prominent for one reason or another, who were country bred. You noticed, no doubt, that not one of them was held to be eminent because of his farming ability alone. He was great because he was a pioneer, or a prophet, or a king. And today, I wonder how many of the 65 per cent of our eminent men, who were country bred, are eminent because of their work in agriculture. Why? A Hebrew writer by the name of Dirach, who lived over a century before Christ and whose writings are to be found among the apocryphal books of the Bible, said:

"The wisdom by the scribe cometh by opportunity of leisure; and he that hath little business shall become wise. How shall he become wise that holdeth the plow; that glorieth in the shaft of the goad; that driveth oxen, and is occupied in their labors, and whose discourse is of the stock of bulls? He will set his heart upon turning his furrows; and his wakefulness is to give his heifers their fodder. All these put, their trust in their hands; and each becometh wise in his own work. Without these shall not a city be inhabited; and men shall not sojourn nor walk up and down. They shall not be sought for in the council of the people; and in the assembly they shall not mount on high. They shall not sit on the seat of the judge; and they shall not understand the covenant of judgment. Neither shall they declare instruction and judgment, and where parables are, they shall not be found. But they will maintain the fabric of the world; and in the handiwork of their craft is their prayer"

This is a startling statement of our modern state of affairs. The need of rural life is leadership. And rural life, now as then, is producing great numbers of great leaders. But the big business and the professions, are beckoning them away. The pressing rural problem is to so bind the rural people together economically and socially that they may offer big jobs to big men, and the prizes to be gained in rural work may be comparable in dignity and difficulty with the presidency of a great bank, the general managership of a business corporation, or eminence in the professions.

He Has Farm Waterworks

W. W. Fraser, a wealthy farmer southwest of Belleville, Kan., is installing one of the most up-to-date farm waterworks systems in the county. He is putting in 2,500 feet of pipe, through which he intends pumping water to a 200-barrel tank near the barn, about a half mile from the house, into a large cistern.

The house is equipped with hot and cold water, bath and necessary equipment. The water for the stock is distributed to different departments and on reaching its destination will be supplied to the stock in self watering tanks. Mr. Fraser owns a 480-acre farm worth \$50,000, with modern house and barn, and began life in Republic county in an early day a poor man. His is the second system of the kind in the neighborhood, E. E. Bowersox, who is assisting, owning one of a similar character.

Tractors Did the Work

When the Rumely Products company got ready to move its old home in Wichita at English and Water streets, to its new 5-story building at Second street and Rock Island avenue, no hiring of drays was necessary.

Twenty big tractors were steamed up and the entire stock of the company was moved at once. Every tractor pulled a separator or two or some other wheeled vehicle loaded with supplies. The office furniture was piled into wagons, which were hooked on behind engines.

He Would Buy Alfalfa

I should like to buy 5 bushels of alfalfa seed and 1 1/2 bushels of timothy seed. Frank McFarland. Stillwater, Okla.

Pump Grind Saw

Made for hard use. Wood Mills are Best. Engines are Simple Feed Grinders, Saw Frames, Steel Tanks. Catalogues Free. Agents wanted. Perkins Wind Mill & Engine Co., Est. 1860 180 Main St. Milwaukee, Ind.

Chop out the goggle-eyed culverts and chop down the hump-backed bridge.

F.S.H.

A remedy for Cholera and Worms in Hogs and Poultry. Guaranteed satisfactory or money refunded. Price, \$1.00 per bottle; enough for 30 hogs or 6,000 chickens. Prepaid. Write for testimonials. The Oelphen Chemical Co., Wamego, Kansas.

Gold Wedding Ring Free

Send just 25c to pay for a one-year new renewal or extension subscription to our big home and story magazine—enclose 5c extra for mailing, 50c in all—and we will send you by return mail this very fine 14K gold filled heavy band ring. Address Household, 12 Capital Bldg., Topeka, Kan.

Wood-working Tools with Character

Keen Kutter tools have character and quality. They make a man do better work and faster work. They have the best stuff in them that money will buy, and first-class workmen make them. You ought to have Keen Kutter tools in your shop for quick repairs of sudden breaks, for building that new brooder house, for new floors, for the horse stalls, for making the feed bins rat-proof. For any of the many jobs you want to do right now.

KEEN KUTTER

Tools will serve you as no other tools can or will. So good are they, and so positive are we that you'll get the very limit of long wear and good work out of them, that they're sold with the distinct understanding that you can get your money back, double-quick, for any tool you say isn't everything that it ought to be. Just tell the dealer you want the price and he'll trade the amount for the balky tool. There won't be any discussion nor any side-stepping. You get that money quick.

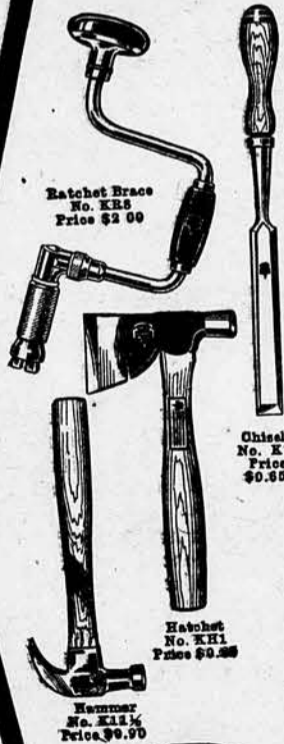
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Hatchet No. K85 Price \$2.00

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Hatchet No. K81 Price \$0.80

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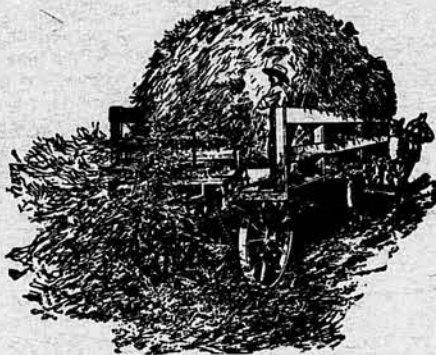


WARNING! Feed Outlook More Hopeful

You're Burning Real Money When You Burn Your Straw Stack!

Wonderful New Invention Now Bringing Big Profit Increase to Hundreds of Progressive Farmers!

The most successful farmers of this age—those who are making a business of farming and realizing the big, every-



year profits—are those who are keeping pace with scientific progress. Soil conservation, crop rotation—those are the big factors in present day agricultural advancement!

But crop rotation alone is not enough! To conserve the soil we must return to it those natural plant elements which the "bumper crops" have taken from it year after year.

In this save-the-soil movement, the farmers of America are investing one hundred million dollars every year in commercial fertilizer—an investment many millions greater than would be necessary if they would use the great natural fertilizer which is produced in abundance every year on every farm.

Do you know that every time you touch a match to a straw stack you burn one hundred dollars in real American coin?

That is a fact, whether you realize it or not!

Many farmers do realize the value of straw as a fertilizer; a moisture conserver; a wind-shield and a humus producer—but the strenuous task of covering a field with straw by the pitch-fork and hand method is the one big argument always brought up against the use of the straw stack as a crop producer.

Now, however, this argument no longer holds good.

A genius in Kansas City has invented a mechanical straw spreader which has stood a four-year test by hundreds of our most successful farmers, and it has made good in a wonderfully big way!

It is called the Simplex Straw Spreader—a simple and inexpensive device which is easily and quickly attached to any header barge or hay frame, and which, with the help of one man and a boy, will spread 30 acres or more a day with an even, just-right thickness—and it handles short, chaffy straw, old rotten stack bottoms, wet straw or dry straw, in wind or calm, with perfect satisfaction.

Its cost is a mere trifle compared with its worth. Agricultural experts and farm paper editors agree that straw is worth \$2.50 per ton as fertilizer when properly spread. At that rate, one ordinary straw stack will much more than pay the full cost of a Simplex Spreader—and it will pay for itself again and again in the time and labor it will save—and it will pay for itself yet again, many times over, in the greatly increased wheat yield it will bring into harvest for you year after year!

We know that every farmer—whether his wheat field covers 40 acres or 4,000 acres, or more or less—should have one of these spreaders. We know that he could not invest the same small amount of money to better advantage in any other way.

Therefore, we most earnestly advise you to write to the Simplex Spreader Manufacturing Company, 360 West Tenth Street, Kansas City, Missouri, and ask them to send you free literature illustrating and describing this wonderful new invention, and explaining their special factory price and free trial offer to the first customer in each locality. Even if you have no intention of buying at this time—send for the free literature anyway. It will surely open your eyes to some big facts that you ought to know!—Advertisement.

Wheat Pasture and Mild Winter a Boon to Stock Owners

By Our Crop Correspondents

WITH January half gone and no long siege of winter weather experienced yet, farmers with stock to feed are breathing a bit easier. To be sure there is still plenty of time for half a dozen "northers" that would eat into the supply of feed but the situation is far more hopeful than at any time since it was known feed crops would be short. The mild, open winter has not only been easy on the dry feed put up but it made excellent wheat, rye, and volunteer oat pasture, besides reducing the requirements of stock for the needed little or no feed for fuel.

Planning for next season's crops is now in order. Prospects for a good year have rarely been better than they are at present. Which is encouraging extensive preparations for spring crops. This is especially true of western Kansas where winter conditions in the soil could hardly be more promising. After several successive failures the shortgrass farmers believe 1914 is the year for them to make a cleanup.

A report issued by the U. S. Department of Agriculture shows the following comparison in the production in bushels of Kansas crops for 1912 and 1913:

	1912	1913
Corn	23,424,000	174,225,000
Wheat	86,983,000	92,290,000
Oats	34,320,000	55,040,000
Barley	1,944,000	1,654,000
Rye	830,000	477,000
Buckwheat	10,000	16,000
Flaxseed	300,000	300,000
Potatoes	2,920,000	5,740,000
Hay (tons)	1,350,000	2,440,000

KANSAS.

Kingman County—Plenty of moisture. Wheat pasture covered with snow. Some mules being sold. Hogs \$7.40; wheat 78c; corn 79c; oats 50c.—B. F. Shelman, Jan. 10.

Kiowa County—We are having a fine winter and stock is doing nicely on wheat pasture. Feed very scarce. Ground soaked

deeper than for years. Wheat 80c; butter fat 32c.—H. E. Stewart, Jan. 10.

Doniphan County—Winter mild and feed holding out well. Not much snow yet. Wheat looks well but some flies are reported. Not enough corn in the county for feed and some is being shipped in.—C. Culp, Jr., Jan. 10.

Seward County—Farmers who have silos are now feeding silage. A few cattle are being full fed on cottonseed cake and silage. Feed badly spoiled both in the stack and shock. Plowing and listing will commence as soon as the frost is out of the ground.—John L. Boles, Jan. 3.

Wilson and Neosho Counties—Wheat on bottom land fine. No wheat sowed on the uplands. Snow is melted. Fine weather for stock now and they are doing well. Butter 30c; eggs 33c; oats 42½c; corn 70 to 72c.—Adolph Anderson, Jan. 7.

Jewell County—Weather fine and has been a great help in saving feed. With reasonable weather most people will have feed enough. Milk cows scarce and selling high at most sales. Plenty of hogs. Corn 75c; wheat 78c; eggs 27c; butter fat 30c; hogs \$7.10.—S. C. DePoy, Jan. 10.

Sheridan County—Plenty of moisture. Fine winter weather. Wheat conditions about 100 per cent. Large spring crops will be put out. Cattle selling lower. Horse market gaining strength. No hogs going to market. Corn 76c; barley 60c; cream 32c; eggs 32c.—R. E. Patterson, Jan. 5.

Marion County—Plenty of moisture. Too wet to work on the land. Most wheat looks good but it is too wet for pasturing. Stock feed spoiled from the big fall rains. Stock looks fairly good. Have not heard of any losses lately. Roads very bad. Oats 45c; wheat 80c.—Jac. H. Dyck, Jan. 9.

Morton County—Weather pleasant and ground is cleared. Owing to the poor quality of the buffalo grass, stockmen are forced to feed quite heavily. Feed is not as scarce as it was thought it would be. Loose prairie hay \$8; baled hay \$10; baled alfalfa \$20; eggs 30c.—Mrs. M. McGee, Jan. 9.

Stafford County—Very nice weather. Roads bad. Have had a lot of moisture the last two months which has practically spoiled all the feed that is standing out. Most farmers are pasturing wheat which is the mainstay. Wheat has some fly in it. Corn 77c; wheat 80c.—S. H. Newell, Jan. 7.

Leavenworth County—Wheat looks good and is furnishing fine winter pasture. A lot of feed being shipped in so most of the stock is kept in good condition. Farmers who erected silos last fall wear a satisfied smile and a larger number will be built next summer. Large acreage of clover will

be sown in the spring.—Geo. S. Marshall, Jan. 11.

Gray County—This fine weather is greatly appreciated by farmers. Stock doing well on grass and wheat pasture. Plenty of feed here. Prospect for abundant crops next season is excellent. Those who have silos are very well pleased with them. Wheat 80c; corn 75c.—A. E. Alexander, Jan. 9.

Greeley County—Snow nearly all melted but last night had 2 inches more. Cattle have been doing well on grass and a moderate amount of feed. Some horses have not been fed at all as yet. A few cases of abortion reported from mares on corn fodder. All feed and seeds are high.—J. Skillman, Jan. 10.

Shawnee County—Fine winter weather with a little snow. Wheat looks good. Very little damage done to wheat. Plenty of feed for stock. No disease among stock in this part of the country. Not many sales. Milk cows high and in good demand. Hogs scarce. Wheat 80c; hogs \$7.50; eggs 30c; potatoes \$1 to \$1.10.—J. P. Ross, Jan. 10.

OKLAHOMA.

Kiowa County—Ground is not drying out fast since the Christmas snow. Nearly all renters are moving to new locations. Roads in terrible condition. Some few public sales have been held but horses and mules don't bring full value. Cattle high. Cream 28c.—Alice Henderson, Jan. 8.

Rogers County—Fine weather. Everybody plowing now as we could not do much at it during the rains. We are making good use of wheat and rye pasture. A carload of poultry was shipped out of Claremore and 10c was paid for hens, cocks 7c; cockerels 9c; turkeys 12c. Receipts were \$1,200 for the car.—W. S. Crouch, Jan. 10.

Something for Tractor Users

Farm tractor owners who want to take the trouble to write the M. Rumely company at Laporte, Ind., may have a booklet entitled "Power Farming," for the asking. Although free, the book is really worth while, and is filled with just such information as the average tractor user wants to know. The object in getting out this book was to show the tractor owner how to get the most out of his investment. The author is Raymond Olney, the power farming expert. In writing for this book please mention the Mail and Breeze.

A Barnyard Suffragette.

"I will marry you, Henry, if you will get an incubator so that I will be free to work for the cause."—Life.

Tractor Farming Now a Necessity



The farmers of this country are right up against a serious situation. The three things they have to depend on are soil, help and power.

The soil of this country is being worn out. The average crop per acre is getting smaller every year. Hired help is a problem. Wages are constantly increasing and it is hard to get help at any price. Horse or mule power is also getting more expensive. The average farm horse actually eats its head off every year and is unprofitable to raise. It takes one fourth of a crop to feed the horses or mules necessary to raise it.

And even after you raise a crop under these handicaps you must sell your surplus at prices fixed by foreign labor working at much lower wages than you are forced to pay and using intensive cultivation methods.

It's a serious situation and the problem is how to meet it. Conditions have reached a stage where a radical change in farming methods must be made. You must raise bigger crops and do it cheaper.

The one big solution to this whole problem is "Tractor Farming."

Tractor Farming is necessary to solve the soil problem. Deep plowing, plowing at the right time and thorough cultivation have been proven to be absolutely necessary to raise bigger crops. Tractor power is the only way to do these things.

Only Tractor Power can solve the hired help problem. With a Tractor, one man or boy can do as much work as two or three men with horses or mules.

Tractors also solve the power problem. You can farm cheaper with a Tractor than with animal power. You can also farm more extensively as well as more intensively.

Only Tractor Farming can solve your soil, help and power problems. Tractor Farming is now a necessity.

AVERY "ONE-MAN" OUTFITS

"Light-Weight" Tractors and "Self-Lift" Plows

Avery "Light Weight" Tractors and "Self Lift" Plows make it possible for you to change to Tractor Farming successfully on any size farm—large, medium or small. Avery Tractors are built in five sizes, from a little 8-16 h. p. pulling two or three plows to a big 40-80 h. p. pulling 8 to 10 plows. They fit any size farm, large or small.

The wonderful success of Avery Tractors and Plows is due principally to three things: First, Avery Tractors are the Lightest Weight Tractors built considering their draw bar efficiency—Second, Avery Tractors are the Simplest Tractors built—Third, Avery "Self-Lift" Plows make it possible for one man to run the entire outfit alone.

Thousands of farmers are already doing Tractor Farming with Avery Tractors and Plows and having wonderful success.

The Avery Selling Plan is also the fairest and broadest of any—Avery Tractors and Plows are Sold on Approval at Low Prices and Fully Guaranteed.

Write for Avery Tractor Farming Books—Free

Our new Book "Tractor Farming" tells why and how to farm with Tractor Power. Our 1914 Tractor and Plow Catalog tells all about how Avery "Light-Weight" Tractors and "Self-Lift" Plows are built and what they will do. Learn all about Tractor Farming. Write for both books. Address

AVERY COMPANY, 1016 Iowa Street, PEORIA, ILLINOIS

Also Manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Threshers and Gasoline Motor Trucks.



Let Me Ship You My Famous 5 H.P. Galloway Stationary Engine-Only \$99.50

Galloway Engines will run on Kerosene, Gasoline, Naphtha, Distillate or Natural Gas.

Made in Sizes 3-4 to 15 H.P.

All Backed by Strong Five Year Guaranty on Materials.

Yes, Sir! Try it 30 Days on Your Own Farm at My Risk

Every Engine made in the Big Galloway Engine Factory is sold right direct to your farm on the most liberal free trial offer ever made. You don't take one cent of risk. I take every bit of the risk of my Engines pleasing you. My guarantee is printed in black and white and says:—"Satisfaction or your money back" and I'll pay all the freight charges in case my Engines fail to please you. Now, then, here is just the proposition in a nutshell. If my engines are as good as any Engines on the market, my terms more liberal than any other manufacturers', my guarantees stronger, then how can you afford not to give my Engines a trial on your farm and save a big sum of money in the first cost alone? Remember, I absolutely guarantee all my claims and warranties and give you a positive 30-Day Free Trial of my Engines right on your own place. Five years ago when I astonished all competition by coming out and offering my Famous 5 H. P. Stationary Engine for sale at \$119.50 dealers were asking from \$225 to \$300 for inferior engines of same capacity. I've made them come down some in their high prices, but they are a long way off still. They can't anywhere near meet my New, Low Engine Prices. Never! And I am giving you a better Engine than ever before. My 5 H. P. Engine Price is just a sample of my new low prices. All my other styles and sizes are selling at as low corresponding prices and on the same liberal terms. Investigate! Give me a chance to prove my claims. The way to do it is to send for my catalog, which give all the facts. Get a copy today—it's FREE to you.

My Direct-From-Factory Plan Saves You \$50.00 to \$300.00

Why not put the money I can save you on a Gasoline Engine right back in your own pocket? That comes about as near keeping your money at home as any way you can think of,—doesn't it? It certainly does, for when you buy on my Direct-From-Factory Plan you have no middlemen's profits, salesman's expenses or dealers' bad debts to pay. No, sir, all you pay on my plan is just one small manufacturer's profit in addition to actual cost of materials and labor that enters into the construction of the machine. My Engines are built especially for farm work. You won't find any better made Engines on the market for doing your work, regardless of price. They are the easiest to start, easiest to operate and most economical Engines built. Water-cooled, four cycle, horizontal type. And all proven by the "acid test" of actual use by over 35,000 users. If this isn't proof enough, then here is still more proof—the fact that we are selling more Galloway Engines today than ever before in our history. Isn't it a fact that the only article that can endure is the article of merit? It certainly is—and the fact that our Engine business is still going ahead every year by leaps and bounds proves my claim that Galloway Engines are high quality engines that give

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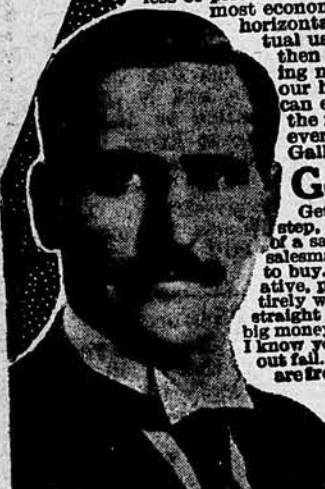
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Every person who answers this ad will be entitled to be considered in the awarding of Grand Prizes in our contest—just starting—closes midnight, March 21st, 1914.

UNLIMITED CASH REWARDS TO EVERY ONE who takes part in this contest. SEND US NO MONEY—everything is free. The quicker you send your name the better chance you will have to win the \$600 Player Piano—the \$285 Motorcycle—or one of the other Grand Prizes.

Answer this ad today and we will send you 1,000 FREE POINTS and tell you how to get the \$600 Player Piano—the \$285 Motorcycle—or one of the other Grand Prizes Free.

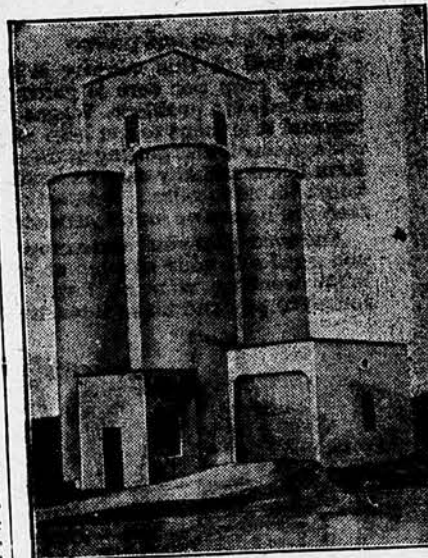
FARM LIFE, DEPT MIB, SPENCER, INDIANA.

Some of the things that keep looming a little higher on the safe side in Jewell county farming are wheat, mules, alfalfa, corn and kafir silage, young cattle and poultry. Some think the key to the whole situation is the silo. We

have lots of confidence in the ability of Jewell county farmers to solve their problems and get to farming on a basis that will accept all climatic drawbacks and still work out continual prosperity and success.

A Modern Elevator

An elevator recently erected by the Johnson-Thierolf Company of Solomon Rapids, Kan., is of reinforced concrete and steel. It consists of four round tanks, ten feet inside diameter and forty feet above the grade level connected with four curtain walls forming a fifth bin supported on beams and used for a



A new elevator at Solomon Rapids, Kan., owned by the Johnson-Thierolf Mercantile Co.

cleaner bin—all reinforced concrete roofs, driveway and detached engine room. The capacity of the tanks is 3200 bushels each; the cleaner bin 1500 bushels and the dump 600 bushels.

The elevator has a capacity of 1000 bushels an hour from one stand of cups, rope driven. An invincible cleaner on the ground floor has a capacity of 1000 bushels an hour and an Avery automatic scale of the same capacity is in the attic. The attic is 16x16 feet square supported on top of the bin walls by cantilever truss beams and contains besides the automatic scale an elevator head

and a Hall signalling grain distributor and spouting to all bins. An iron ladder and a New Era manlift runs from the basement to the attic on the inside of the house. The power plant consists of a 12 horse power Muncie oil burning engine. The old elevator which has served the past twenty years will still be used but the new structure will handle the bulk of the business hereafter.

Stock Relishes the Forage.

Mr. Editor—My experiment with feritita this year has proved that it will produce grain of good quality with less moisture than any other grain I have ever seen grown. I listed in a few acres May 20. We got about 1 1/2 inches of rain during the summer. By the middle of August the seed was ripening. Grasshoppers ate most of my seed as soon as it began to ripen, but I managed to gather enough for next year's planting. Owing to the severe drouth it headed very short. The feed was too short to bind, so I cut it with the mowing machine, raked it up and bunched it the same as kafir. The stock, both cattle and horses, relish it better than any other forage I ever fed. They clean up every bite of it, and they are doing well. I feed it once a day, with corn fodder for the other feed.

Russell, Kan. F. S. Burson.

A rancher has applied for the rental of 320 acres of the Pike national forest, Colo., to be used in connection with other private land, for raising elk as a commercial venture.

INSTALL YOUR OWN Water Works

Hot and cold running water for country homes. Complete system ready to install \$37.50. Easily installed by anyone or money refunded. Enjoy the comforts of life!

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Simply send name today for big low price Catalog FREE. Shows hundreds of bargains in Pumps, Windmills, and everything known in Plumbing Goods direct at manufacturers' prices.

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THIS O.I.C. SOW WEIGHED 932 LBS. AT 23 MONTHS OLD IONIA GIRL

I have started more breeders on the road to success than any man living. I have the largest and finest herd in the U.S. Every one an early developer, ready for the market at six months old. I want to place one hog in each community to advertise my herd. Write for my plan. "How to Make Money from Hogs." C. S. BENJAMIN, R.F.D., 22 Portland, Mich.

WHEAT

Genuine New MARQUIS Raised by us on our Canadian farms. Went 42 bu. per A. This wheat is the sensation of the West and because of heavy yield, hardness of the grain and early maturity, it will revolutionize wheat raising. No more disappointments, no more short crops and small profits. Investigate. Get facts. Send for free sample and prices of this new wonderful wheat. **FREE—1914 Pure Seed Book.** Just full of all kinds of bargain seeds for your farm. Very instructive, fully illustrated. Also a complete line of Nursery Stock at low prices.

ALLOWAY

Brothers-Bowman Co. Waterloo, Iowa, Box 41.

264 Page Book On Silos and Silage

1913 copyrighted edition now ready. Most complete work on this subject published. Used as text book by many Agricultural Colleges. Gives the facts about Modern Silage Methods—tells just what you want to know. 264 pages—indexed—over 45 illustrations, a vast amount of useful information boiled down for the practical farmer. Tells "How to Make Silage"—"How to Feed Silage"—"How to Build Silos"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions." All about "Summer Silos" and the Use of Silage in Beef Production. Ninth Edition now ready. Send for your copy at once. Enclose 10c in coin or postage stamps and mention this paper.

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You can realize 17c a lb., for hogs by butchering at home, curing meat with Wright's Ham Pickle and smoking it with Wright's Condensed Smoke, and selling the finished product direct to the consumers in towns and cities near you.

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Make hams, bacon, sausage, etc., on the farm and send by parcels post to the consumer; save the profit made by five middle-men between you and consumer.

WRIGHT'S HAM PICKLE is a scientific combination of meat-curing materials, all of which are recommended by the Dept. of Agriculture for curing meat. It is to be mixed with salt and used dry or made into brine. \$1 pkg. cures bbl. of meat.

WRIGHT'S CONDENSED SMOKE is a liquid used in smoking all kinds of meat by applying with a brush. A 75c bottle smokes a barrel of meat cheaper, better and quicker than the old way. The United States Court says Wright's Condensed Smoke is just what we claim.

Wright's Ham Pickle and Wright's Condensed Smoke are sold under an absolute guarantee. Your money back if you want it. At all drug and general stores.

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E. H. WRIGHT CO., LTD., 819 Broadway, KANSAS CITY, MO

Owens a Motor Railway

BY E. G. WESTLAKE, Chicago Evening Post.

The inhabitants of Westmoreland, Kan., believe C. E. Massie the most remarkable of men. They look upon him as a keen pathfinder for economics in transportation. An old model automobile equipped for running on rails has furnished the impetus for Mr. Massie's enterprise, as well as the power to pull loads in daily trips to Blaine.

Thousands of tons of freight had to be moved. Blaine and Westmoreland were taking their places in the big plan of development of Kansas. Horse-drawn vehicles were out of the question. The people looked to some other medium than the railroad for the movement of freight. Mr. Massie determined to do the hauling on rails. He bought

fuel and oil, and with freedom from engine trouble, and the people never cease to exhibit their enthusiasm over the novel train that means so much in the problem of solving transportation out there.

Attention was directed to the remarkable and ingenious transformation of an old car, at the Mitchell-Lewis Motor company's plant at Racine, by Mr. Massie's recent application for another Mitchell car. He wants to elaborate on his unique freight hauling service.

"I made no mistake when I bought that old Mitchell car," says the owner of the transportation line. "It has given us very little trouble. We have run her around 20,000 miles and hauled about 100,000 tons of freight in 15 months, besides many passengers. No skilled engineer aided in equipping the machine with flanged wheels and a for-



A Motor Line That Is Busy Throughout the Year.

a second-hand Mitchell automobile, a model of the vintage of 1910, that already had accumulated a mark of 40,000 miles' service over country roads, and turned it into one of the most novel traction vehicles the ingenuity of Kansas has ever developed. Flanged wheels of standard track tread were substituted for the rear or traction wheels, and a miniature car truck was fitted in front in place of the original wheels. No other change was made in the old Mitchell car. Not only was this machine able to transport its usual complement of passengers, but it was able to pull a series of freight cars.

The "gasoline locomotive" has sufficient weight to afford good traction, is so dependable mechanically that a young man operates it daily, with economy of

ward truck—just worked it out ourselves. It's mechanically correct, however, judging from results.

"I tried out a big car, paying a good price, and it failed to show efficiency. It cost me \$1,780 for repairs in a few months and brought only grief to our men. It's a remarkable tribute to the man who created this Mitchell car that such a large percentage of efficiency can be got out of it, considering that it had run many thousands of miles before I got it."

There are few Kansas soils that need additions of complete fertilizers. One or two elements usually are all land lacks, and the cheapest way to get the soil in proper condition is to add these elements. Do not put on expensive plant food that is not needed.

STAR HOG OILER

Uses crude oil with no waste. The only machine that measures out the oil to the hog. Best made.

A GUARANTEED Hog Oiler

Can't clog. Kills lice, cures mange and scurvy. Works in any climate.

Price Complete **\$10.00**

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Let me tell you what other young people have been able to do by getting a practical business training.

They are no brighter than you. They had no better advantages. I can show you the way.

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- m—Ovaries
- n—Oviduct
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You can find it in the I. C. S. Poultry or Agricultural Handbook—

The above illustration is one of the ninety-five shown in the I. C. S. Poultry Handbook.

This book contains 343 pages of the best ideas and working methods of the most successful poultry raisers in the country—boiled down and indexed for ready reference.

It treats of Poultry House Construction; Composition and Value of Foods; Feeding Chicks, Growing Fowls, Guinea, Geese and Pheasants; Natural and Artificial Incubation; Brooding; Fostering for Eggs and Market; Breeding; Diseases; Treatment; Judging; Poultry Show Rules; Marking Technical Terms; etc.

The I. C. S. Agricultural Handbook contains 381 pages and treats of Soil Improvement; Drainage; Tillage; Farm Crops; Fruit and Vegetable Culture; Livestock; Feeding; Diseases; Dairying; Bacteria; Bee Keeping; Implements; Machinery; Agricultural Tables; etc.

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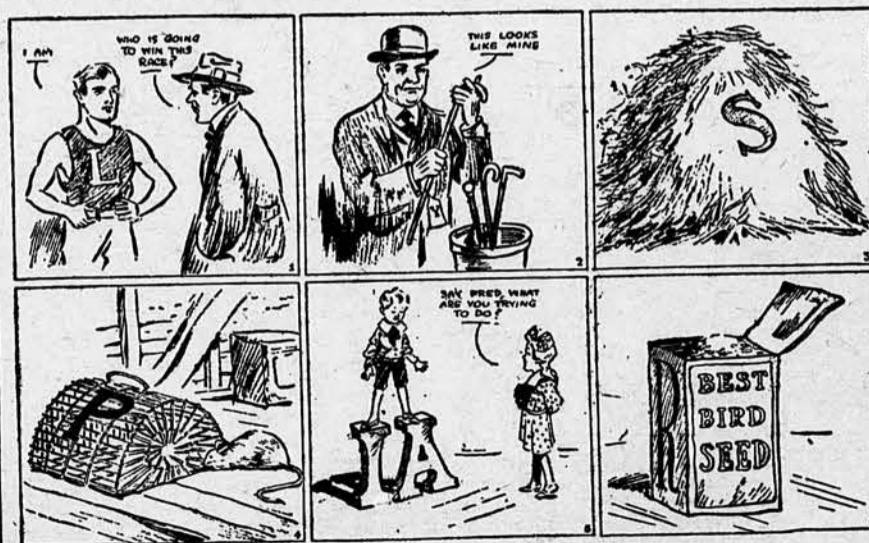
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A Puzzle For Mail and Breeze Boys and Girls

KANSAS boys and girls who have studied geography will know this puzzle at a glance. Each picture represents the name of a Kansas town. What are the towns? To make it a little easier, we are going to give you the names of the counties where you can find them. You need only to look in Montgomery county, Ellis county, Wilson county, Pratt county and Smith county. For the



ten best answers a prize of a set of postcards will be given. In awarding the prizes the neatness and general appearance of the letters is considered, as well as accuracy. Address your letters to the Puzzle Editor, sending them so they will reach the office not later than January 27.

FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department for 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

WHY NOT ADVERTISE YOUR LIVESTOCK ON THIS PAGE?

If you have a few pigs, a young bull or a Jersey cow to sell, this is the place to find a buyer. The rate is only 5 cents a word per issue. If you need anything in the way of breeding stock, try a small ad on this page.

HORSES, CATTLE, HOGS, SHEEP.

FOR SALE—Jack cheap for cash. Kruger Bros., Sylvan Grove, Kan.

FOR SALE—Holstein bull; seven months old. G. E. Berry, Garnett, Kan.

MARCH Red Poll bulls; weigh 500 lbs. D. F. Van Buskirk, Blue Mound, Kan.

FOR SALE—Extra good jack and car young mules. Lyman Miller, Alamota, Kan.

PIGS; 30 lbs.; 9 cts., crated. Choice R. I. Red cockerels. Borden, Winona, Kan., Logan Co.

TRADE for eastern Kansas land. 2 good Jacks half cash. Albert Drenning, Salina, Kan.

FOR SALE—One extra fine Jersey bull calf; Eminent breeding. Warden Bishop, Sterling, Kan.

FOR SALE—Registered Percheron stallion coming 4 years; black; weighs ton. A. Beck, Whitewater, Kan.

HOLSTEIN calves, either sex, beautifully marked, \$20.00 each, crated. Edgewood Farm, Whitewater, Wis.

IMPORTED PERCHERON stallion and Mo. Jack for trade or sale; good breeders. C. W. Elyea, Jewell, Kan.

PURE BRED DUROCS. 100 pigs both sexes. They will please you. Write today. Coppins & Clemmer, Potwin, Kan.

FOR SALE CHEAP—Corn, oats, feed, carlots, shipped anywhere. Pure bred Duroc hogs. Arthur H. Bennett, Topeka, Kan.

FOR SALE—2 large boned Jacks, 15 hands 3 in. standard, 1 jinney, 1 fine Connadian Coach stallion. Ed Williams, West Line, Mo.

TWO GOOD imported Percheron stallions, 4 and 5 years old will be sold at auction at Burlington, Kan., January 30th. H. J. Anderson.

FOR SALE—Jersey bulls sired by my 1,700 lb. Silverline Lorne and out of cows weighing 1,100 lbs. Chester Thomas, Waterville, Kan.

DISPERSION SALE. Four fine Percheron stallions, one imported; also, four large, black Jacks. Pedigree. William Parish, Lone Jack, Mo.

FOR SALE—One black imported Percheron stallion 6 years old, weight 1,950 lbs., sire breeder, and colts to show. J. E. Dreier, Heaton, Kan.

FOR SALE—One Galloway herd bull and several young Galloway bulls. One Short-horn bull twenty months old. W. W. Dunham, Silver Lake, Kan.

PAIR registered Jerseys. Grandson of Noble of Oaklands, 6 mo. Yearling heifer not related. Both solid colors. Price \$150. Jas. S. Taylor, Iola, Kan.

FOR SALE—Registered Percheron stallion, coming 4 yr., steel gray, weighs ton; also registered gray mare, weighs eighteen hundred. A. C. Williams, Valley Falls, Kan.

I WILL hold a breeders' sale at Wichita, Kan., February 19. If you have Jacks, Jennets, registered stallions or mares to sell, write for particulars. J. C. Kerr, Wichita, Kan.

AM LEAVING STATE, must sell imported, ton Belgian stallion, sound and sure; also black Jack fifteen and half hands; good performer, sound and sure. L. Johnston, Allen, Kan.

FOR SALE—100 high grade Holstein cows. Mostly springers. Big, well marked, sound and young. About 60 head fancy yearling and two-year-old heifers. A. B. Caple, Box 27, Sta. "A," Toledo, Ohio.

HOLSTEINS for sale. Leaving the farm, have for quick sale, 2 young cows in milk, yearling heifer, 1 yearling calf, herd bull, six months bull calf light service. All registered. 3 two-year heifers freshen soon, grades. Come or write for prices and breeding. W. A. Schreier & Sons, Argonia, Kan.

DOGS.

COLLIES for sale. Jacob J. Klassen, Inman, Kan.

BLOODHOUNDS — Registered English. Kennedy's Kennels, Fredonia, Kan.

TRAINED wolf hounds; mixed stag and grey. Roy Bunker, Eskridge, Kan.

FOR SALE—Fox terriers, Bourbon Red turkeys, Embden geese. Sanders, Allen, Kan.

FOR high class trail hounds and grey hounds send 2 cent stamp to Rash Bros., Centerville, Kan.

SEEDS AND NURSERIES.

FOR SALE—Seed—Barley, clean and tested. J. B. Reimer, Inman, Kan.

SOURCELESS CANE seed for sale, \$2.00 per bu. E. N. Redfield, Wilmore, Kan.

FOR SALE—Hiawatha Yellow Dent seed corn, 1913 crop, tested, hand selected. Exceptionally good seed. Samples on request. Write E. J. Abell, Riley, Kan.

SEEDS AND NURSERIES.

SWEET CLOVER. T. Mards, Falmouth, Ky.

FANCY ALFALFA SEED—Guaranteed pure. \$7 per bushel. John Ryman, Dunlap, Kan.

BLACKHULL white kafir corn heads \$2.50 per 100 lbs. G. W. Mitchell, R. 2, Moore, Okla.

TREES at wholesale prices. Fruit Book free. Address Wichita Nursery, Box B, Wichita, Kan.

SEED CORN—Boone County White; good quality. H. L. Harvey, Grower, Kincaid, Anderson Co., Kan.

FETERITA, German and Siberian millets, Red and Black Amber Cane. Add Bx. 137, Grainfield, Kansas.

CAREFULLY selected, tipped, Dent seed corn, shelled or ear, \$3.00 bushel. L. J. Morrell, Sibey, Mo.

SWEET CLOVER, white blossom variety, re-cleaned seed, for sale by grower. H. C. Day and Son, Hartland, Kan.

SEED CORN—Early yellow dent, heavy and sound, hand picked, \$1.50 a bushel. Charlie Clemmons, Anadarko, Okla.

KAFIR SEED, black hulled white, crop of '13; \$1.25 per 50 lbs., in head or threshed and graded. J. C. Lawson, Pawnee, Okla.

CORN—Laptad's Improved Golden Beauty, Growth of 1912 or 1913. Extra quality. On the cob. Laptad Stock Farm, Lawrence, Kan.

SEED CORN—Reid's Yellow Dent and Iowa Silver Mine. Reference, Farmers Exchange Bank. Everman & Everman, Gallatin, Mo., R. 5.

SEED CORN—Boone County White and Hildreth Yellow Dent, carefully selected, \$2.00 per bu. Choice feterita, 12 lbs. \$1.00; 50 lbs. \$2.85. B. A. Nichols, Hutchinson, Kan.

FOR \$1 I will send you 8 apple, peach, pear or plum trees or 6 cherry trees or 20 gooseberry, currant, grape, rhubarb or 75 blackberry, raspberry, dewberry or 100 asparagus or 200 strawberry plants. Catalogue free. Manhattan Nursery, Manhattan, Kan.

ALFALFA SEED. Won first prize at Kansas and Oklahoma State Fairs. Also first at our state farmers' institute. Tested 99.9% pure by Dept. of Agr. Non-irrigated. Re-cleaned. Price \$7.00 per bu. Sax free. Send for sample. F. M. Giltner, Grower, Winfield, Kan.

SHAWNEE WHITE seed corn. Best yielder here in 30 years' trial. Adapted to upland or bottom. Seed, selected, tipped, shelled and graded \$2.00 per bushel. J. A. Ostrand, Elmont, Kan.

SEED CORN: Limited amount, graded, single ear, six-kernel, tested, yellow dent, white and calico. Raised by best growers in Marshall county. Marshalltown Seed Company, Marshalltown, Iowa.

FOR SALE—Three hundred tons of alfalfa, wild hay and cane. Privilege to feed on ranch. Plenty of water and sheds. Three farms for cash rent. J. C. Altman, owner, Altman Bldg., Kansas City, Mo.

SPECIAL combination red cedar sale. For \$5 will ship you 100 trees, viz.: 100 6 to 12 in. high; 25 12 to 20; 20 20 to 30; 10 30 to 40; 5 40 to 50. For March and April delivery. Also selling Whipoorwill cow peas \$2.75 bu. W. P. Waters, Pyatt, Ark.

FARM SEEDS—Choice re-cleaned maize, kafir, cane and millet \$2.50 100 pounds. Feterita \$4.00 100 pounds. Hand threshed red kafir \$3.50 100 pounds. Sweet clover 10 pounds \$3.00, 50 pounds \$12.50. Rock Island R. R. Buy while you can. Claycomb Seed Store, Guymon, Okla.

"101" RANCH SEED CORN—White Wonder, Bloody Butcher, and Improved Indian Squaw corn—best for the West—thoroughly acclimated—proven drought-resisters—Seed \$2.50 per bushel. F. C. Bliss, Oklahoma. For free information write Miller Brothers, 101 Ranch, Box 10, Bliss, Oklahoma.

GUARANTEED SEEDS—I take pains to grow seeds that comply with the pure seed laws and have a limited stock of fine quality, high testing Murdock and Minn. White Dent Seed corn which I offer at \$2.25 per bu., shelled; bags included. Can also supply excellent home grown alfalfa seed, pure and hardy, at \$13.25 per bu. W. J. Koopmans, Sunnyside Farm, Fairbault, Minn.

BUSINESS CHANCES.

50 BBL. modern mill. Marion Co., Kan. \$1,000.00 cash; \$1,800.00 time. What have you? Mill, care Mail and Breeze.

FOR SALE—Well equipped pool hall and smoke house clearing \$300.00 per month. Investigate. Stag Pool Hall, Leavenworth, Kan.

FREE FOR SIX MONTHS—My special offer to introduce my magazine "Investing for Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real earning power of money, and shows how anyone, no matter how poor, can acquire riches. Investing for Profit is the only progressive financial journal published. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 425, 23 W. Jackson Blvd., Chicago.

FOR SALE.

ALFALFA HAY for sale. R. C. Boss, Fountain, Colo.

ALFALFA HAY for sale. Robert Hanson, Concordia, Kan.

ALFALFA HAY for sale in car lots. J. A. Shanstrom, Coolidge, Kan.

BELGIAN HARES of various ages for sale. James R. Wolfe, Lewis, Kan.

PET COONS, either sex; pairs if wanted. Frank Johnson, Quincy, Kan.

COON, opossum, bird dogs; Pit and Indian Games. Walter Odum, Durant, Miss.

ALFALFA HAY in car lots. Write or wire for prices. Geo. R. Wilson, Lamar, Colo.

SELLING R. R. Ohio potatoes and sweets \$1. turnips 75, honey \$3.50 case. The Cope's, Topeka, Kan.

BAND INSTRUMENTS—Violins, new and secondhand. Cheap. Needles Music Co., Wichita, Kan.

BALED PRAIRIE and alfalfa hay. Alfalfa seed. Lyon County Farmers' Produce Ass'n, A. B. Hall, Mgr., Emporia, Kan.

ALFALFA HAY and seed from the great platte valley. Choice seed \$7.50 per bu. Rosenberg Hdq. Co., Lexington, Neb.

THE Central Supply House, 627 Quincy, Topeka, will sell you a new incubator or repair your old one. Incubator supplies.

GROCERY and meat market. Will sacrifice for cash. Trade for anything worth the money. Address Lock Box 71, Manhattan, Kan.

FRESH FROM MILL, 100 lbs. beautiful clean white table rice, freight prepaid to station \$4.65. C. C. Cannon, 304-9 Scanlan Bldg., Houston, Texas.

ALFALFA and prairie hay. We have about 1,000 tons of alfalfa and 200 tons of prairie hay for sale. Write or wire us for delivered prices. The L. C. Adam Mercantile Co., Cedar Vale, Kan.

FOR SALE OR EXCHANGE.

EXCHANGES, 1000, farms, mdse., etc. Everywhere. Write for list. Rely & Overlin, California, Mo.

TO TRADE—A fine level quarter of raw land, western Kan., for 25 or 30 horse steam or gas tractor. Lewis Trimpe, Preston, Kan.

FOR SALE OR TRADE—626 acres good grass, corn and rice farm. 1 1/2 miles from Lissa, Wharton Co., Texas. Well fenced. Omar Strunk, Herington, Kan.

FOR SALE OR TRADE—2 improved farms. 520 acres Sevier Co., Arkansas; 170 acres Labette Co., Kansas. Want exchange list from agents and farms for trade from farmers. Fettrich, Altamont, Kan.

LANDS.

FINE southern Oklahoma farms, some at forced sale. Act quick. Box 126, Mangum, Okla.

COLORADO IRRIGATED land on railroad; easy terms. Heald, owner, 602 Klitt-ridge Bldg., Denver.

LAND. 400 acre farm for sale—terms to suit. For particulars address owner, Bob Wood, Strong City, Kan.

SOME excellent farms located in Sumner county, Kansas. Prices right. Inquire Lester C. Hoppes, Corbin, Kan.

MAXFIELD and Minnesota make men money. For farm bargains write to H. J. Maxfield Co., St. Paul, Minn.

FOR SALE—The finest improved 40 in county, adjoining town of 1,000. \$10,000. No trade. Box O, care Mail and Breeze.

206 A. FINE stock farm, 125 a. in cultivation. Excellent improvements. For particulars, C. O. Carlson, Leonardville, Kan.

FOR SALE—160 acres \$1,000. 80 acres alfalfa land. All tillable. East Beaver Co., Okla. R. Kell, owner, R. 4, Russell, Kan.

170 ACRE FARM 3 miles out. Right between oil production. Lease goes with farm. Price \$10,200.00. Box 75, Nowata, Oklahoma.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

GOOD suburban city property, want to trade same on farm land. Write for particulars. Lundquist & Myers, McPherson, Kan.

DELAWARE is a good state to live in; land is good for fruits, grain and livestock. Free pamphlet. State Board of Agriculture, Dover, Delaware.

FOR SALE—240 acres 2 miles of Fall River, Kansas. Fair improvements. Price \$30.00 per acre. E. W. Bidwell (owner), Fall River, Kan.

GREAT BARGAIN southeastern Oklahoma. 320 acres, half river bottom, plenty rainfall. Government title. \$6 acre cash. A. Gaiser, Hugo, Oklahoma.

THE BEST BARGAIN in the foot hills. 360 acres. Imp. Ideal for stock, alfalfa, grain. Special buy. \$15.00 acre. Allison, Rye, Pueblo Co., Colorado.

YOU CAN SELL YOUR FARM or business quickly for cash wherever it is, by our system. Particulars free. Black's Business Agency, Desk 9, Durant, Wis.

LANDS.

FOR SALE—Well improved 560 a. farm 5 ml. from McCracken on Mo. Pac. Selling on account of age. Price \$25.00, part time. W. S. McCaskey, McCracken, Kan.

HALF SECTION smooth second valley, one ml. good school town; half cultivation; no improvement except fencing. Ideal dairy, poultry farm. Lee Van Sant, Canyon, Tex.

160 ACRES fine black land, Wharton Co., south of Louise, in rain belt, Gulf Coast, Texas. Direct from owner. Will make splendid farm. Owner going in business, need cash. Address 1916 Taft St., Fairview Add., Houston, Tex.

ADVERTISE YOUR PROPERTY in Capper's Weekly for quick and sure results. 250,000 circulation guaranteed—among best farmers in Kansas and adjoining states. Advertising rate only 5c a word. Address Capper's Weekly, Adv. Dept., Topeka, Kan.

AN UNUSUAL opportunity. 1,800 acres for sale. Two-thirds open land. Good soil. Never overflowed. No incumbance. Price \$25,000.00. If sold in 30 days \$4,000.00 worth of stock and farm produce included. Reason for selling, old couple left alone. For particulars write Box 213, Woodville, Mississippi.

PATENTED state school land. Just opened for sale on the remarkably easy terms of one-twelfth cash, balance ten years time. Located near Southern Pacific railroad, only 32 miles from Houston. Ample rainfall; good markets. Big crops corn, cotton, potatoes, fruit, vegetables. Free Texas map and particulars. Write Dr. C. H. Walters, Trustee, 422 First Nat'l Bank Bldg., Houston, Texas.

FOR SALE—To close estate. No. 1 dairy and grain farm, bordering Seneca river and barge canal, in Onondaga Co. near Syracuse. 3 miles to railroads and trolley. Machine worked fields. Fertile mixed loam soil. Always farmed by owners. Good buildings. Cement stables. 14 room house. Never failing supply of running water in house, stock yard and dairy building. Telephone and rural mail. Price \$6,600 cash. For further information address Mrs. Emma Parry, Memphis, New York.

280 ACRE FARM, 85 miles from Minneapolis, 1 1/2 miles from a good railroad town; part under cultivation, balance meadow and pasture land; good soil; good eight-room house, worth \$3,000; barn, granary, corn cribs, cattle sheds, machine sheds, etc.; 14 cows, 20 head of steers and heifers, three horses, hogs, chickens, complete set farm machinery, buggies, wagons, sleds, 50 tons of hay, 1,200 baskets corn, 150 bushels mixed grain, 175 bushels potatoes; in fact, everything on the farm goes except the furniture. Price \$12,000. One-half cash. Schwab Bros., 1028 Plymouth Bldg., Minneapolis, Minn.

NEW YORK FARMS FOR SALE.

\$11,765 BUYS 181 acres 30 ml. from Buffalo, 1 1/2 from village, rolling, loam soil, no stones, 12 acres timber, abundance fruit, bldgs. worth \$5,000. Including 27 choice Holsteins, 3 horses, 2 sows, 70 hens, all fodder, sugaring tools, farming tools, latest milking machine. Easy terms. Free list. C. J. Ellis, Springville, N. Y.

NEW YORK STATE FARMS FOR SALE.

\$12,000 BUYS 306 acres, 35 miles from Buffalo, rich black loam soil, 200 acres level, 60 acres timber, buildings worth \$7,000. Including 32 head cattle, team, fodder, tools. Easy terms. C. J. Ellis, Farmers Bank, Springville, New York.

FARMS WANTED.

WANTED—A farm to work on shares, owner to furnish everything. Good reference. Address Box 12, Americus, Kan.

AUTOMOBILES.

SEVEN passenger 60 horse power Winton six, fully equipped, self-starter, top and windshield. Cost \$3,000 when new. Can be bought at a great bargain. This is a great family car and has only been used by owner. Would also make profitable investment as livery car in country town. Smith & Sons Auto Co., 4513 Troost Ave., Kansas City, Mo.

PATENTS.

SEND FOR FREE BOOKLET, All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500-C Victor Bldg., Washington, D. C.

PATENTS THAT PAY. \$561,530 made by clients. Prizes offered. Patent book—"What and How to Invent—Proof of Fortunes in Patents" free. E. E. Vrooman, Patent Attorney, 885 F St., Washington, D. C.

IDEAS WANTED—Manufacturers are writing for patents procured through me. 3 books with list 200 inventions wanted sent free. Advice free. I get patent or no fee. R. B. Owen, 34 Owen Bldg., Washington, D. C.

MEN OF IDEAS and inventive ability should write for new "List of Needed Inventions," Patent Buyers and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

POSITION WANTED.

RELIABLE man and wife, experienced farmers, want place to work on farm by month or to take charge of a farm on shares. Can give good references. Address G. W. Moler, 107 South Evergreen street, Chanute, Kan.

HELP WANTED.

MEN AND WOMEN wanted for government jobs. \$65 to \$150 month. Vacations. Steady work. Parcel post and income tax mean many vacancies. Common education sufficient. "Pull" unnecessary. Write immediately for free list of positions now available. Franklin Institute, Dept C 53, Rochester, N. Y.

MALE HELP WANTED.

GOVERNMENT FARMERS wanted. Make \$125 monthly. Free living quarters. Write Ozment, 38F, St. Louis, Mo.

\$75.00 MONTH. Paid railway mail clerks. Sample examination questions free. Franklin Institute, Dept C 53, Rochester, N. Y.

GOVERNMENT JOBS open to men-women. Big pay. Write for list of positions now available. Franklin Institute, Dept C 53, Rochester, N. Y.

WANTED. Reliable men to sell nursery stock. Outfit free. Liberal terms. Pay weekly. Experience unnecessary. Chanute Nurseries, Chanute, Kan.

WANTED, railway mail clerks, carriers and rural carriers. Examinations soon. I conducted examinations. Trial examination free. Write Ozment, 38, St. Louis.

MEN for electric railway motormen and conductors; fine opportunity; about \$80 monthly; experience unnecessary; no strikes; state age. Address Box F, care Mail and Breeze.

MEN 20 to 40 years old wanted at once for electric railway motormen and conductors; \$80 to \$100 a month; no experience necessary; fine opportunity; no strike; write immediately for application blank. Address C., care of Mail and Breeze.

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.

AGENTS WANTED.

CAN USE a few experienced salesmen in Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

AGENTS WANTED for full line fruit trees and shrubs. Work full or part time, as you prefer. Draw pay every week. We teach you. Outfit free. Lawrence Nurseries, Lawrence, Kan.

AGENTS—Get particulars of one of the best paying propositions ever put on the market. Something no one else sells. Make \$4,000 yearly. Address, E. M. Feltman, Sales Mgr., 6738 Sycamore St., Cincinnati, O.

AGENTS WANTED for the Whitney Pneu-Vac Washer—sells for \$2.00, your commission \$1.00 on each sale—sample weighs 2 pounds—take up the sale of this invention and show your friends where they can say goodbye to the terrors of washday—no rub board required—a big washing done in 10 minutes—quickly demonstrated—easily sold—send \$1.00 today for sample and full particulars to secure territory. Whitney Mfg. Co., 1110 St. Clair Ave., Cleveland, Ohio.

WANTED.

WANTED—Fancy poultry breeders. Write us. Shelton & Co., Alcott Station, Denver, Colo.

MISCELLANEOUS.

WRITE us for prices today. E. R. Boynton Hay Co., Kansas City, Mo.

EVERYBODY learn shorthand. 20 lessons free, including corrections and suggestions. Dougherty's, Topeka.

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PLACES found for students to earn board and room. Dougherty's Business College, Topeka, Kan.

COLLECTION AGENCY. Established 1889. Bad debts collected everywhere on commission. N. S. Martin & Co., Arkansas City, Kan.

CAPPER'S WEEKLY, Mo. Valley Farmer or Household one year and trap nest for \$2.00. Universal Sales Co., 412 West Fifth, Topeka, Kan.

TOBACCO. I have thousands of pounds of fine old Kentucky chewing or smoking tobacco; 30 cents per pound, postpaid. Chas. T. Daniel, Owensboro, Ky., Dept. E.

MAKE your own paste. By the addition of water only, the product I will send you for ten cents will make one full pint of excellent paste. Aero Hydro Mfg. Co., 207 Dyckman St., New York, N. Y.

POULTRY MAGAZINE—Big 20 to 40 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, 804 Jackson, Topeka, Kan.



This Beautiful SET RING FREE

Warranted genuine gold filled—will wear for years. Most valuable ring ever offered on such easy terms. Set with two Rubies and two Brillants, latest style and most substantial mounting. A Ring that is sure to please.

Poultry Magazine

Big 20 to 40 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, 804 Jackson, Topeka, Kan.

Meat Shortage Being Felt

Market Receipts Dwindling and Prices Going Up—Trade Forecast

BY C. W. NETSKER, Market Editor.

It takes no prophet to foresee a decided meat shortage for the near future. And conditions now are such that there can be no relief from this constantly developing shortage for from six to eight months. Prices are strengthening all along the line. Owing to lack in finish no new tops were uncovered for cattle last week, but both hogs and lambs sold up to new high levels for the season.

Since Christmas marketing took its final whirl in the supply, killers have been complaining of decreasing per cents on killing sheets. This is their way of saying that cattle are not making very much beef. In hogs packers are depicting deficiency in weight, the average hog now weighing about 20 to 30 pounds less than a year ago. In sheep there is perfect contentment, but prices constitute a strong pull against future supplies.

The year just ended was forecasted for a general shortage, but with the immense crops of 1912 for feeding, and the short crops of 1913 forcing supplies to market the past year was the biggest parasite period in the history of markets. It fattened on 1912, and subtracted from 1913. The country now is short down to young cattle, hog supplies will soon be depleted by forced marketing, fed sheep will have been gathered in the next three months, and a general shortage in beef, pork and mutton exist simultaneously.

It would be a comforting view if consumers could regard the importations of meats as a source of considerable supply. But the last three months have demonstrated that South American meats land in the United States only after going by way of continental European and English markets. The abnormal shifting of cattle during the recent drought period has to be accounted for, and likewise supplies for pastures must be rebuilt. That the cattle now available for such a purpose are 2 years old and younger, and cannot be converted into good beef on one season's grass without grain, and that restocking is a harder process than depleting, will be additional factors that control the entire section in the great producing fields of the Southwest.

Adjusting Cattle Prices.

That killers are adjusting the markets to an approaching shortage is quite evident. They have removed the barrier against heavy heaves which had existed for some months, and are buying practically everything that shows beef possibilities. Some 800-pound Old Mexico steers sold last week at \$5.85 and heavy steers in Chicago brought \$9.40 or 25 to 50 cents more than these extremes showed a year ago.

The quality in the betwixt and between classes, is extremely plain and steers that now bring \$7.25 to \$8.50 are not comparable to the large number in good condition that brought such prices a year ago. The big part of the Southwest steers are bringing \$7.25 to \$7.75. The main fattening ration has been cotton seed products, silage of ordinary quality and grass. All told that method of feeding has yielded fair net rations, but the corn belt feeder has not much more than broken even as his first cost of cattle was extremely high. However a further advance in prices will benefit grain feeders materially, and with good hog prices they will see a figure on the right side of the ledger.

Speculative Turn in Feeders

Choice 950 to 1100-pound steers, that carried enough flesh to attract bids from killers, sold to countrymen last week as high as \$8.50. This is the beginning of the speculative tendency among country feeders who are prepared to full feed cattle or turn them to market after a short feed as conditions may justify. That demand is braced by the belief in higher prices. The general run of stockers and feeders brought \$6.50 to \$7.50. Stock calves sold up to \$8.50 and the supply was extremely small. Female stock grades are selling freely and are in light supply.

Near January Record For Hogs.

All markets last week showed 8-cent hogs, and the top prices ranged from \$8.15 to \$8.50, making a new high level for this winter's packing season. It was the highest on record in January with but one exception. In the first month in 1910 prices reached about 50 cents higher than last week.

Last week prices averaged 25 to 30 cents above the preceding week, and 60 to 75 cents higher than a year ago. January is normally not a month of high prices and heretofore succeeding months, up to the beginning of another winter packing season, have ruled higher. A surmise on this basis therefore is that still higher prices may be expected this month and a very high price level in March and April.

Average weight continues to decrease, and the pressure of short corn will continue to be felt throughout the season. Estimates for the principal hog feeding states place the number on feed now, compared with a year ago, at 65 per cent. Recent price advances have not increased the movement materially.

Good Prices Draw Lambs.

The market for good fat lambs now is \$8.00 to \$8.50, and at these prices the movement is fairly large. There is considerable pressure from feed shortage in the corn belt movement, but owing to a favorable season Colorado and Utah are marketing from choice. The northern section of Colorado has upward of 700,000 sheep on feed, but elsewhere in the state there are fewer than a year ago. Lambs are in much larger supply than sheep, as recent years have developed a decided preference for the light weight

mutton grades. There is a moderate export demand for heavy sheep, but on the turn upward prices continue in practically the same relative position they held all season.

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1912:

Table with columns for 1914, 1913, Inc., Dec. Cattle, Calves, Hogs, Sheep, H. & M., Cars.

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

Table with columns for Cattle, Hogs, Sheep, Per 100 lbs., Chicago, Kan. City.

Big Receipts of Horses.

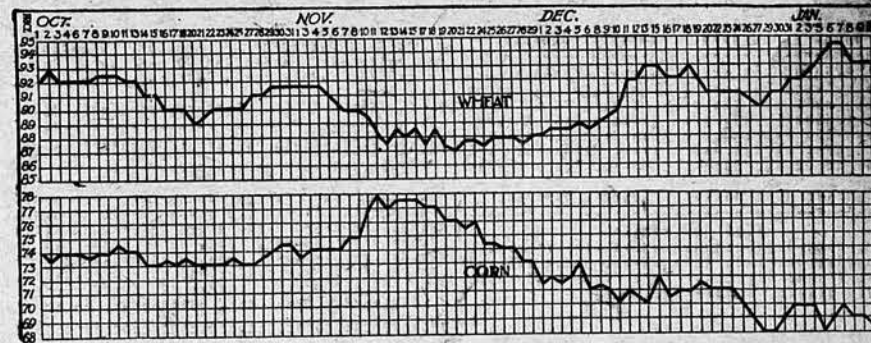
The past week developed a characteristic early January movement of horses and mules. Receipts last week at principal markets were more than double those of any week in December, and larger than those of a year ago. Omaha initiated its new modern sales pavilion and horse barns, with big trade. Demand generally was active, but discrimination was evident where offerings were not in good flesh. Prices in some cases were weak. A large volume of business is expected the rest of this month.

Sagging Corn Prices.

General belief that greatly curtailed feeding operations will materially effect demand for corn later, and large importations arriving each week from South America have caused lower prices for corn. Some good corn sold last week as low as 62 cents and only a few carloads of old, thoroughly dry corn sold as high as 78 cents. Prices now are 8 to 10 cents lower than when the new crop began to move. It is said that Argentine has an exceptional crop this year and will export 250 million bushels. If prices in this country continue as high as at the present time the bulk of that surplus will come to this country. In years of the largest crops in this country there were not more than 250 million bushels available for export. In the Central West large sections are drawing every grain of corn they feed from other sources, and country prices are showing a wide variance compared with market prices.

Little Interest in Wheat Market.

Only a narrow movement in cash wheat prices, and little or no interest in futures is the general condition in that division of the market. This season is usually a period of great activity but crop prospects are such that no price movement of any consequence is expected before winter breaks and fall sown wheat starts on the last days of maturity. Soft wheat



This chart shows the daily fluctuations of the Kansas City wheat and corn markets since October 1, 1913. Highest cash prices on each grain were considered in making out the chart.

is selling relatively higher than hard wheat. Flour trade is dull, and all mills have stocks of wheat in excess of immediate requirements.

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:

Table with columns for Wheat, Corn, Oats, Chicago, Kan. City.

Kansas City Hay Quotations.

About 160 carloads of hay, the largest supply received recently, arrived Monday. of this week. Low grade prairie was quoted weak, but otherwise the market was unchanged.

Table with columns for Prairie, Timothy, Clover, Alfalfa, Standard, Straw and their respective prices.

Broom Corn Needs Demand.

January this far has not lifted the broom corn market out of the dull position it has occupied for some time. Broom makers are buying in a limited way but ware house men have not invited an increased movement from the country. Growers are holding on for

firm prices and selling practically no brush. Choice green selfworking corn is quoted at \$1.25 to \$1.40 a ton; fair to good \$85 to \$120, common to fair \$60 to \$80 a ton.

Seed and Feed Prices.

Seed—Alfalfa, \$7.50@9 a hundred; clover \$9@13; fescue, \$1.28@1.31 a bushel; timothy, \$3.75@4.50 a hundred; cane seed, \$1.50@2.40 a hundred; millet, \$1.00@2.40; kafir No. 2, \$1.69@1.70. No. 3, \$1.00@1.68. Feed—Barley, 52@54c; bran, \$1.67@1.68; shorts, \$1.20@1.30; rye, No. 2, 61@62c; corn chop, \$1.23.

Butter, Eggs and Poultry.

Elgin, Jan. 12.—Butter this week is first at 35 1/2 cents. Kansas City, Jan. 12.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 33c a dozen; seconds, 30c; current receipts, 32 1/2c. Butter—Creamery, extras, 84c a pound; firsts, 82c; seconds, 81c; packing stock, 19c. Live Poultry—Broilers, 17 1/2c a pound; spring chickens, 14c; hens, No. 1, 13c; No. 2, 8c; young roosters, 12c; young turkeys and turkey hens, 17c; young ducks, 14c; geese, 12 1/2c.

Produce Prices Now and One Year Ago.

Table with columns for Butter, Eggs, Hens, Chicago, Kan. City.

Farm Comforts of Concrete

(Continued from Page 13.)

ing costs about \$4 to \$5 a cubic foot. It lasts indefinitely if properly laid.

The comforts of home have not been forgotten at Roseland. A water tank of concrete was built on top of the silo exactly as the silo was built and its cost about \$10 a cubic yard, or \$100 or \$115 in all. The floor of the tank contains about seven cubic yards and there are possibly four cubic yards in the sides. Then came the cellar, round-roofed and strong enough to resist almost any kind of wind—it is believed. This cellar, 12 by 16 by 22, is a concrete monument not likely to be destroyed. It is used now for milk but the family can hustle into it in a jiffy if a black cloud shows up in the west. This safety-insurance cost \$250 but it could be duplicated for much less. There are walks of concrete, too, and these are a comfort everyone prizes.

Using the Underflow

"Underground Waters for Farm Use," a popular report of the United States Geological Survey, has again been reprinted to meet the wide demand from all farming and suburban sections of the country. A copy can now be obtained free, on application to the Director, United States Geological Survey, Washington, D. C.

This Water Supply Paper (No. 255)

explains in simple language the habits of flow of underground waters through different kinds of rocks and soils, and calls attention to the dangerous character of many wells whose waters are supposed to be pure and wholesome. Water from limestone rock especially, it is stated, is apt to contain germs of typhoid or other disease, due to the fact that surface waters may find their way directly into underground channels which have been cut out through the dissolution of the lime. Methods of protection from subsurface drainage in farming districts are discussed in the report, well-drilling methods and cost, types of curbs and well casings with which wells should be fitted, etc. The report embraces only about 50 pages, but is well illustrated with photographs and diagrams.

If the soil on your farm is sour—and if you live in the hardpan section of southeastern Kansas it is probable this is the case—you should add ground limestone just as soon as you can get it. The returns from a sour soil never are so large as they would be if the land was in good condition.

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.

F. C. BRACKNEY, Burlingame, Kan., sells right land and sells it right. Free list.

LAND BARGAINS in Neosho valley. Young & Sherwood, Exchanges, Burlington, Kan.

COFFEY CO. Best bargains. Alfalfa, wheat, corn lands. Harry Antrim, Strawn, Kan.

LAND IN STEVENS COUNTY, Kansas, on Colmer cut off. Write for prices. John A. Firmin, Hugoton, Kansas.

OSAGE COUNTY bargains. All Impr. near town. \$1,000 buys 80; \$2,500 buys 160. 110 a. for trade. E. E. Weeks, Burlingame, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Kan.

160 A. 3 miles Kinsley, improved; in wheat. Price right. Wheat to buyer. 1/2 mile to school. Terms. Thos. Darcey, The Land Man, Offerle, Kans.

LAND. Send for my price list of wheat, alfalfa and pasture lands, improved and unimproved, in Clark Co. Every one a bargain. C. W. Carson, Ashland, Kansas.

FOR SALE: 240 acre farm in Rooks county, Kansas. 100 acres in cultivation, fair improvements. Price \$35 per acre. Write for list. F. M. Learned, Woodston, Kansas.

307 ACRE FARM; highly improved. 400 a. tame grass. 100 a. wheat goes with the farm, bal. cult. Abundant water; black loam soil; terms. F. J. Dessery, Tonganoxie, Kan.

MONEY FROM HOME. Improved 160 acres. Well, windmill, 80 cult.; 80 pasture. All can be farmed, well located, 10 miles Spearville, \$2,800. Terms. Send for list. Thos. J. Stinson, Spearville, Kansas.

FINE RANCH BARGAIN: 5,160 acres, 600 under plow, well improved, never failing water; best bargain in the state. \$14 per acre. Write for list of farms and ranches. T. B. Godsey, Emporia, Kansas.

160 A., 4 1/2 MI. OUT, all in cultivation. 100 a. in wheat, 1/2 goes. Will rent purchaser an improved half sec., joining for 3 yrs. \$1,000.00 cash. Bal. easy terms. Sandy land. Roy C. Beard, Minneola, Kansas.

240 ACRES improved Kaw valley bottom land; 60 a. alfalfa, 40 a. wheat, balance corn. Must settle estate. 1 1/2 miles St. Marys, Kan. Price \$25,000; \$10,000 will handle. J. M. Conlan, St. Marys, Kansas.

A GOLD MINE. Improved 480 acre farm, 300 in cultivation, 80 in wheat, 280 pasture, never failing water. Well, windmill, etc. Phone, R.F.D. 1 mi. school. 4 mi. county seat. \$13.50 per a. Good terms. Thos. J. Stinson, Spearville, Kansas.

117 ACRES, 100 acres fine rich timber bottom land, finest alfalfa land; 4 miles town; only \$40 per acre. If sold in 60 days. **380 a. finest stock and grain farm;** 2 miles town; 250 alfalfa land, good improvements; 30 acres in alfalfa; only \$60 per acre if sold by March 1st, 1914. Address: J. Owner, care Capital, Topeka, Kansas.

BIG BARGAIN. 120 acre bottom farm, good improvements, 3 1/2 miles town, 1/2 mile school; price \$35 per acre, if sold within 30 days. Gile & Bonsall, South Haven, Sumner Co., Kan.

Northeastern Kansas Land for sale in the famous Bluegrass, Timothy, Clover and alfalfa district, \$50 to \$100 per a. Compton & Boyer, Valley Falls, Kan.

FOR SALE Fine stock ranch. A bargain. Liberal terms. J. C. Hopper, Ness City, Kan.

FARMS WANTED For first class city rental property, all sizes. Write us. The Lindberg Real Estate Company (Missouri corporation), 1026 Scarritt Building, Kansas City, Missouri.

To Settle Estate 160 acres, three room house, large stable, bearing orchard, four miles from Pittsburg with 20,000 inhabitants. One of the best farms in Crawford county. This is a bargain. L. Belknap, Exr., Pittsburg, Kan.

Improved 74 Acre Farm \$1800 Well improved 74 acre farm, good house, barn, granaries, etc. Exceptionally fine orchard; 50 acres in cultivation; balance hog pasture (heavy timber); no rough land or hills; all under good fence and crossed on main road to town. 8 1/2 miles from Mountainview and 13 miles from West Plains, Howell county, Mo. Price \$1,800. \$800.00 cash, bal. long time. Chas. A. Etchen, Owner, Coffeyville, Kan.

Kiowa County Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

WE HAVE a fine list of Impr. and unimpr. farms. Rowland & Moyer, Ottawa, Kan.

CATHOLICS! T. J. Ryan, St. Marys, Kan., has 50 farms in Catholic neighborhood, 5 churches.

BARGAINS: 194 a. improved, 3 mi. out. Price \$8,000. Terms. 85 a. all under plow; joining Valley Falls. Clear. Easy terms. John A. Decker, Valley Falls, Kansas.

BEST LAND, LOWEST PRICES, greatest natural advantages in southeastern Kansas. Send for illustrated booklet. The Allen County Investment Co., Iola, Kan.

320 ACRE STOCK FARM, 6 miles county seat, R. F. D. Never failing water, 25 a. alfalfa; well improved. 65 a. cult. Bal. meadow. Black loam. \$35.00 per acre. Terms. J. B. Fields, Alma, Kansas.

160 ACRE FARM, 3 1/2 miles from town; 120 in cult. Bal. pasture and meadow. 4 room new house; barn, granary; fruit and good water. 50 acres wheat. Price for quick sale \$5,000. Beed & Brady, Salina, Kansas.

WE OWN 13,600 acres in fertile Pawnee Valley, smooth as a floor; best alfalfa and wheat land on earth. Five sets of improvements. Shallow water. Will sell eighty acres or more. Frizell & Ely, Larned, Kan.

I CAN SELL YOU the finest farms, not to be excelled anywhere for the price. For alfalfa and grain farms. Stock raising. Descriptions and prices on request. Cash and good terms. H. H. Stewart, Wellington, Kan.

160 ACRES 4 miles from Quenemo, Kan.; 20 acres pasture, 20 acres alfalfa, bal. good farm land, new 5 room house, new barn, 22x50; another barn 16x76; granary for 2,000 bushels of corn; brood sow house 12x180 ft.; hog house 12x150; cement feeding pens; 160 acres hog tight; fenced into ten different fields; 80 acres clover; 40 acres bluegrass; 55 acres native meadow; remainder in cultivation; never failing water; gasoline engine to pump the water; price \$20,000.00. Terms to suit. Write for land list. Mansfield Land Company, Ottawa, Kansas.

FOR FARM BARGAINS write for list to J. E. Calvert, Garnett, Kan.

COFFEY COUNTY one of the best alfalfa and tame grass counties in Kansas. Write for farm and ranch lists. Andrew Burger, Burlington, Kan.

LANDS FOR SALE. Missouri, Kansas, North Dakota, Louisiana and Texas. Tracts for colonization. **FARMERS' ATTENTION.** We have improved and unimproved farms in the above states, suitable for the growing of wheat, corn, cotton, sugar cane, oats, alfalfa, timothy, clover, potatoes and truck, also grazing lands. Let us know your wants, we can supply them at prices and terms that will please. H. L. Gilbert Land Company, 507 Republic Bldg., Kansas City, Missouri.

COME TO HOWELL COUNTY, Missouri Get away from blizzards and drouth. Crop failures unknown, winters mild and short. Fine water, soil and climate. Send for list and descriptive pamphlet. The South Missouri Land Co., Mountain View, Missouri.

POULTRY FARMS 10 acres of good land for \$250 on terms of \$4 down, \$1 weekly; no interest, no taxes; located in the great Missouri poultry belt near the state experimental fruit and poultry farms. You can't lose on this. Every dollar you pay goes on the price. We even pay the taxes. Write today. Merriam-Ellis-Benton, 603 Minnesota Ave., Kansas City, Mo.

Southeast Missouri The best bottom sandy loam land, cut over timber, all drained or in drainage. As good corn, grass, clover lands as the best in United States. Sell tracts from 40 a. up. Improve any tract ready for plow, put buildings up for actual cost. Guaranteed 10 per cent clear income by rents besides big increase in value. Refer to J. C. Freland, Parker, Kansas, who investigated personally this country. For information write, F. GRAM, Naylor, Missouri.

MINNESOTA FARMS for sale. Easy terms. Write A. G. Whitney, St. Cloud, Minn.

80 A. GOOD Minnesota land \$1,000. Terms. Other bargains. Foss, Milaca, Minn.

PAYNESVILLE LAND CO., sell Minnesota farms. Write for list. Paynesville, Minn.

SETTLERS WANTED for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minn.

FINE IMPROVED Minnesota corn and dairy farms \$20 to \$55 per acre. Easy terms. Frick Farm Agency, Saux Center, Minn.

FREE government land; My official 250 page book and paper describes every acre in U. S.; contains township plats, tables, charts showing exact location. Sample copy free. D. J. Campbell, Pioneer Bldg., St. Paul, Minn.

NORTHERN MINNESOTA: The greatest natural cattle section. No drouths. Alfalfa, clover, corn, potatoes, are principal crops. Prairie or timber. Free information. We have no land for sale. W. R. MacKenzie, Immig. Com., 911 Palace Bldg., Minneapolis, Minn.

WYOMING FREE HOMESTEADS. Use your right on the best homestead to be had. Write A. P. Knight, Jireh, Wyoming.

Farm and Stock at Auction, Monday, Jan. 26th, 1914 190 acre stock and grain farm, Marshall County, Kansas, 2 miles north of VLIETS. Well improved. Exceptionally well watered; all tillable. 40 acres growing wheat, 25 acres alfalfa. Will sell in two tracts of 80 and 110 acres or together. Terms, on one-acre alfalfa. Will sell in two tracts of 80 and 110 acres or together. Every thing goes without reserve. Don't forget the date, this ad will not appear again. For further information address **W. H. Lawrence, Frankfort, Kans.** Auctioneers: Crews & Ansel, Topeka, Kan.

MISSOURI

FOR FARM LANDS in Barry Co., Mo. write J. Y. Drake, Exeter, Mo.

YOU WANT AN OZARK FARM or ranch. What kind? Wesley Marion, Monett, Mo.

MISSOURI, Ark. and Okla. farms. Commercial Realty Co., Southwest City, Mo.

WRITE Ozark Realty Co., Springfield Mo., for grain farms, ranches, dairy farms.

160 A., OZARKS; 100 CULT., 2 sets bldgs., spring. \$1,700. McQuary, Sellgman, Mo.

WRITE PERRY & BRITE for prices on stock, grain and fruit farms. Monett, Missouri.

OZARK FARMS. Write Southwestern Land and Immigration Co., Springfield, Mo.

\$5 DOWN, \$5 MONTHLY, buys 40 a. grain, fruit, poultry land, near town. Price \$200. Write for list. Box 372, Carthage, Mo.

P. S. I HAVE A FEW improved forties and eighties that I can sell on easy terms. Have some exchange stuff. Write for book and list. J. A. Wheeler, Mountain Grove, Mo.

114 ACRES, 80 acres in cultivation, bal. in pasture; one-half bottom land; no over-flow; good repair; fair improvements; land is level; three miles to town; good roads and location. Will sell cheap if taken at once. J. E. Hall, Carthage, Mo.

HOWELL CO., MISSOURI. 120 a. farm 2 mi. from Pomona. 75 a. in cult. and orchard. 500 bearing trees, apple and peach, 100 a. fenced; 5 room house, good barn, 2 wells, cistern, phone line, rural mail. 1/2 mi. school. \$28, terms. Farms for merchandise or town property. A. P. Cottrell Land Co., Pomona, Mo.

LANDS FOR SALE. Missouri, Kansas, North Dakota, Louisiana and Texas. Tracts for colonization. **FARMERS' ATTENTION.** We have improved and unimproved farms in the above states, suitable for the growing of wheat, corn, cotton, sugar cane, oats, alfalfa, timothy, clover, potatoes and truck, also grazing lands. Let us know your wants, we can supply them at prices and terms that will please. H. L. Gilbert Land Company, 507 Republic Bldg., Kansas City, Missouri.

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POULTRY FARMS

10 acres of good land for \$250 on terms of \$4 down, \$1 weekly; no interest, no taxes; located in the great Missouri poultry belt near the state experimental fruit and poultry farms. You can't lose on this. Every dollar you pay goes on the price. We even pay the taxes. Write today. Merriam-Ellis-Benton, 603 Minnesota Ave., Kansas City, Mo.

Southeast Missouri

The best bottom sandy loam land, cut over timber, all drained or in drainage. As good corn, grass, clover lands as the best in United States. Sell tracts from 40 a. up. Improve any tract ready for plow, put buildings up for actual cost. Guaranteed 10 per cent clear income by rents besides big increase in value. Refer to J. C. Freland, Parker, Kansas, who investigated personally this country. For information write, F. GRAM, Naylor, Missouri.

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FINE IMPROVED Minnesota corn and dairy farms \$20 to \$55 per acre. Easy terms. Frick Farm Agency, Saux Center, Minn.

FREE government land; My official 250 page book and paper describes every acre in U. S.; contains township plats, tables, charts showing exact location. Sample copy free. D. J. Campbell, Pioneer Bldg., St. Paul, Minn.

NORTHERN MINNESOTA: The greatest natural cattle section. No drouths. Alfalfa, clover, corn, potatoes, are principal crops. Prairie or timber. Free information. We have no land for sale. W. R. MacKenzie, Immig. Com., 911 Palace Bldg., Minneapolis, Minn.

ARKANSAS

ARKANSAS FARMS for sale. Terms. List free. J. C. Mitchell, Fayetteville, Ark.

FARM, RANCH and timber land for exchange. W. H. Beach, Leslie, Arkansas.

WE HAVE BARGAINS IN FRUIT, stock and grain farms in northwest Arkansas. Springdale Land Co., Springdale, Ark.

FOR DES. LIT., city props., Ark., and Okla. farm, fruit, timber, grazing lands, write Moss-Ballou & Hurlock, Siloam Sprgs., Ark.

160 A. IMPR FARM; 60 cult., bal. timbered; orchard; 2 mi. Ry. town; on public road; no rocks. \$20 a., 1/2 down. E. Sessions, Owner, Winthrop, Ark.

532 ACRES mostly creek bottom; plenty water, and timber; good orchard; 2 mi. town; creek crosses place. Price \$30 per acre. Write Horton & Co., Hope, Ark.

17,000 ACRES, NO ROCKS, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 30 years at 6%. Teter & Co., Op. Union Depot, Little Rock, Ark.

CORN, OAT, CLOVER land. Sure crops. No swamps, hills. Fine climate, schools, churches. Small pay't, 20 years, 6%. Write today, maps, circulars. Tom Blodgett Land Co., Elson, Ark.

80 ACRES \$1,000. 80 acres, part black land, \$800. 37 acre farm, \$500. 37 acre farm, \$550. \$200 cash payment. Get list of low priced farms. Wilton Land & Investment Co., Wilton, Ark.

QUIT RENTING and write Eugene Parrick, the land man, for fruit, grain and timber farms. Best prices, terms, water and climate in Ark., Missouri and Oklahoma. Describe your wants in first letter. Hiwassee, Ark.

70 ACRES, 1/2 CLEARED, 3 miles from city. \$20 per acre. Other good bargains. Write J. F. Black, Texarkana, Arkansas.

For Sale

117 acres, part in corporation of Cave Springs, a famous health resort and good railroad town, in Benton county, Ark. 60 acres fine bottom land, 25 acres level upland, balance in timber and pasture, all fenced and cross-fenced, two fine springs that furnish water by gravitation to a five room house with barn and other outbuildings. Land adjoining this selling for \$150 an acre. My price for quick sale \$125. No better bargain in this, the famous Ozark region, and you have all heard of the advantages of this noble country. Will exchange for part payment. Address the owner, S. C. Robinson, Bentonville, Ark.

CANADA

COME TO SO. ALBERTA. Land of wheat, alfalfa, cattle. Good markets. Delightful climate. Have several special bargains. Weber Land Agency, Lethbridge, Alberta, Canada.

SOUTHERN ALBERTA, the country for you. Heavy crop yields; country particularly adapted to stock raising on account of mild winters and easy accessibility to water; unlimited supply cheap domestic coal within few miles of our lands. We own and will sell to actual settlers \$0.000 acres choice land close to markets at reasonable prices and terms. If you mean business and are looking for a new home where opportunities are practically unlimited, write Helgerson Land Co., Lethbridge, Alberta. Ref.: The Merchants Bank of Canada.

For Sale

Two sections improved land in the famous Monack Wheat Belt of Southern Alberta, Canada. Eleven miles from leading metropolis. Land all fenced and cross fenced. Good buildings, house, barn, etc. Acknowledged champion wheat belt. Produced 37 bushels No. 1 Northern Wheat to the acre last year 93 1/2 bushels oats (American measure). My interests in California make it necessary for me to sell. Will accept 80 or 120 acres of improved land as first payment. Balance on terms that the income will take care of. Address **J. F. COWAN** Box 835, Fresno, California

WISCONSIN

Secure a Home in UPPER WISCONSIN Best Dairy and General crop state in the Union. Settlers wanted. Lands for sale at low prices on easy terms. Ask for booklet 50 on Wisconsin Central Land Grant. Always state acres wanted. Write about our grazing lands. If interested in fruit lands ask for booklet on apple orchards in Wisconsin. Address Land Dept., Soo Line Ry., Minneapolis, Minn.

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McBURNERY'S NEW YORK FARMS Grow prosperity. We have fertile land, big crops, best prices, fine cattle, luscious fruit, finished homes, nearest markets, millions of people to feed; thousands of schools and churches, good climate, good health and good luck. Our Central New York improved farms are worth twice the value of average western farms, and cost less by half today. Prices will advance. Don't wait too late. For illustrated list ask B. F. McBurney & Co., 703 Fisher Building, Chicago, Ill.

OKLAHOMA

GOOD FARMS FOR SALE; for particulars write to Harry E. Fray, Pawnee, Oklahoma.

WE SELL THE EARTH that produces alfalfa and corn. W. E. Wilson Realty, Walters, Ok.

EXCEPTIONAL BARGAINS in N. E. Okla. farms. T.C. Bowling, Fryor, Mayes Co., Okla.

ARKANSAS AND OKLAHOMA. Improved, unimproved, grass, farm, and timber lands. Prices reasonable, and terms. Come and see. White, Stanley & Thomason, Westville, Okla.

595 A. 4 MI. E. R. TOWN this county. All prairie, bottom and second bottom land; all tillable but 70 a. No rock, no overflow. 3 sets improvements, good neighborhood. 125 a. cultivation. 200 a. meadow. \$18.50 per a. Southern Realty Co., McAlester, Okla.

980 ACRE RANCH near Sulphur, Oklahoma, well improved. 400 acres bottom in cultivation; no overflow. 200 acres alfalfa. 350 acres hog tight. Sacrifice price \$42,500; half cash. Might accept some trade. State what you have in first letter. T. J. Hartman, Tulsa, Oklahoma.

CADDO COUNTY AGAIN WINS. First on agricultural products at State Fair. Write for information, corn and alfalfa lands. Baldwin & Gibbs Co., Anadarko, Okla.

COLORADO

We Want Farmers

Why buy cut-over, or wild lands in the Frozen North? We can locate you on half-section relinquishment for \$350. Will produce 30 to 35 bushels wheat and corn per acre on sod. Fine hay, good dairy country, 10 to 40 feet to water. Only 12 miles from this city. Land level and soil fertile, clay subsoil. Finest climate in the world. Come and get your choice. Cutler & Layton, Fort Morgan, Colo.

IDAHO

ONE GOOD REAL ESTATE investment NOW in the new town of Homedale is worth a lifetime of labor. Homedale Townsite Company, Minneapolis, Minn.

FLORIDA

FLORIDA, THE LAND OF FRUIT. Flowers and sunshine; good health; prosperity and solid comfort is waiting here for all who invest in homes on St. Andrews Bay. Address Richard McCloy, Lynn Haven, Fla.

WHAT BREEDERS ARE DOING

FRANK HOWARD, Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 614 So. Water 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, 1326 East 37th St., Kansas City, Mo. Ed R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Jan. 24—Roy Johnston, South Mound, Kan. Jan. 25—Jones Bros., Council Grove, Kan. Jan. 31—A. D. Jones, Dunlap, Iowa. Feb. 3—J. H. Hamilton & Son, Guide Rock, Neb. Feb. 4—Albert Smith & Sons, Superior, Neb. Feb. 11—H. C. Graner & Son, Lancaster, Kan. Feb. 17—L. E. Klein, Zeandale, Kan. Feb. 18—J. H. Harter, Westmoreland, Kan. Feb. 19—W. Z. Baker, Rich Hill, Mo. Feb. 19—J. L. Griffiths, Riley, Kan. Feb. 20—A. J. Swingle, Leonardville, Kan. Feb. 24—W. R. Webb, Bendena, Kan. Feb. 27—W. A. Davidson, Simpson, Kan. Mar. 4—John Kimmerer, Mankato, Kan. Mar. 24—Herman Groninger & Sons, Bendena, Kan.

Duroc-Jersey Hogs.

Jan. 23—C. E. Clauff, Central City, Neb. Jan. 29—W. E. Monasmith, Formoso, Kan. Jan. 30—N. B. Price, Mankato, Kan. Durocs. Jan. 31—A. M. Rinehart & Son, Smith Center, Kan. Feb. 3—Howell Bros., Herkimer, Kan. Feb. 6—Leon Carter, Asherville, Kan. Feb. 9—E. A. Trump, Formoso, Kan. Feb. 10—Agricultural College, Manhattan, Kan.

GEORGIA

SOUTHERN GEORGIA. Stock raising, fruit growing, truck farming, corn, oats, hay, cotton. No floods, droughts, nor cyclones, improved and unimproved lands. Easy terms. Thompson & Company, Homeland, Georgia.

Feb. 18—Geo. W. Schwab, Clay Center, Neb. Feb. 21—Dana D. Shuck, Burr Oak, Kan. Feb. 25—A. T. Cross, Guide Rock, Neb. March 7—E. G. Munsell, Herington, Kan. Mar. 11—W. W. Otey & Sons, Winfield, Kan. Mar. 12—G. C. Norman, Winfield, Kan. March 12—Richard Rothgeb, Pleasant Green, Mo. March 25—W. E. Mott, Herington, Kan. Apr. 8—S. W. Alfred & Sons, Enid, Okla.

Berkshires.

Feb. 10—Agricultural College, Manhattan, Kan.

O. I. C.'s.

Feb. 6—Chas. H. Murray and H. L. Bode, combination sale, Friend, Neb.

Hampshire Hogs.

March 14—Roy E. Fisher, Winside, Neb. March 12—H. D. DeKalb, DeKalb, Ia., sale at Council Bluffs, Ia.

Jersey Cattle.

Mar. 5—Everett Hayes, Hiawatha, Kan.

Hereford Cattle.

Jan. 24—Jones Bros., Council Grove, Kan. Jan. 28—Mousel Bros., Cambridge, Neb. Feb. 19-20—Nebraska Hereford Breeders' Assn. sale at Grand Island, Robt. Mousel, Cambridge, Neb., Mgr. March 3-4—Funkhouser, Gabbert and others at Kansas City. R. T. Thornton, Mgr., 3625 Charlotte St. Mar. 31-April 1—Breeders' sale at Kansas City. R. T. Thornton, Mgr., 3625 Charlotte.

Shorthorns.

Feb. 26—Hoadley & Sigmund, Selden, Kan.

Percheron Horses.

Jan. 27—Lee Bros., Harveyville, Kan.; sale at Manhattan, Kan. Jan. 29—Snyder & Stalons, Oskaloosa, Kan. Dispersion. Feb. 4—Lewis J. Cox, Concordia, Kan. Feb. 18—W. S. Boles & Sons, Enid, Okla. Feb. 19—Breeders' Sale, J. C. Kerr, Mgr., Wichita, Kan. Feb. 25—J. C. Robison, Towanda, Kan. March 19-20—North & Robinson, Grand Island, Neb.

Percherons, and Other Draft Breeds.

Jan. 27-28-29-30. 1914—Breeders' Sale, Bloomington, Ill. C. W. Hurt, Mgr., Arrowsmith, Ill.

lot of jacks and jennets to be offered in the West. The jacks are by and the jennets are in foal to such jacks as Pharaoh, Jubba, Orphan Boy and others of like note. Write today for catalog, mentioning this paper.

Where to Buy a Jack.

If you are looking for a jack that will command the best trade or head a good herd of jennets, arrange to attend I. N. Green's big sale at Klowa, Kan., January 23. Mammoth Jr., one of the best and biggest jacks to be sold this year anywhere, will be an attraction of the sale. Included will be several of the big boned sons and some good jennets in foal to him. Included in this sale are 22 jacks and 15 jennets. They are the big boned, rugged kind and while they are not pampered, the longer you look at them the better they look. This is going to be a good place to buy a good jack or jennet. This will be an unusually large sale as 15 fancy colored, purebred, but non-registered Jersey milk cows, together with 70 coming 2-year-old steers and a large number of other cattle, as well as 20 good mules, 25 horses, consisting of some good registered Percheron and standard bred stallions; also some extra good standard bred driving mares will be offered. On account of the size of this sale it will be necessary to begin promptly at 10 o'clock a. m. and proceed without delay, so come early. Read display ad, this issue, and write for catalog. Please mention Farmers Mail and Breeze.

N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

A. T. Cross, Guide Rock, Neb., will sell 40 Duroc-Jersey bred March gilts at Guide Rock, February 25. They are the tops of over 200 head and as fine a lot of young sows as was ever sold in Nebraska. They were sired by Prince Wonder 2d and Col. C. Both of these sires are well known and the 40 top gilts will be bred for March and April farrow to a son of Col. Gano and a son of Golden Model 2d. If you are looking for the best here is your opportunity. You can have him book you for the catalog right now while you think of it. He will be glad to have you write him for it and he will appreciate it if you will tell him where you saw his sale mentioned.

A pair of Oldenburg German Coach horses on Jos. Wear & Son's big Mitchell county ranch. The Wears operate a 5,000 acre farm in Mitchell county and the Coach horse is in general use. They have around 100 head of Oldenburg German Coaches and many of them are International and state fair winners. Their fine exhibit will be remembered by state fair visitors at the Kansas and Oklahoma State Fairs two years ago. For any information about these horses write Jos. Wear & Son, Barnard, Kan.

FOR SALE OR EXCHANGE

EXCHANGES—ALL KINDS—free list. Foster Bros., Independence, Kan.

WRITE J. W. MEREDITH of Carthage, Mo., for prices and exchange farm lands.

E. H. FAST, Land Man, will sell or trade for anything, Osage Co. Burlingame, Kansas.

GREENWOOD CO. Write Herrman & Dove for sale and exchange lists. Hamilton, Kan.

LAWRENCE REALTY CO., home of the swappers. Patrick C. Quin, Mgr., Lawrence, Kan.

EXCHANGE BOOK, of hundreds of honest trades, farms, merchandise, etc., everywhere. Graham Bros., Eldorado, Kan.

WE BUY, SELL and exchange, anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.

TRADES, mdse., farms; send me description, price, etc., of what you want. Cash buyers and bargains. B. Hofflines, Larned, Kan.

TRADE FOR MDSE. 120 acre farm, and city residence. Dandy 160 acre farm, good improvements. 100 acres in wheat for \$6,400. Terms. J. M. Garrison, Attica, Kan.

FOR EXCHANGE, good two room brick bldg. in good R. R. town of 1,000. Center of town and always rented. Mtg. of \$1,200, due May, 1915, can be renewed. Equity for clear western Kan. or Okla. land. Walter Hanson, Real Estate, Sabetha, Kan.

FOR EXCHANGE. 350 acre Illinois farm, improved. Want Kansas, Oklahoma, Missouri land or income property. Box 275, Iola, Kansas.

160 ACRES LAND near Montezuma. Would take automobile as part pay. \$600 cash, balance terms. Exchanges made. L. E. Pendleton, Dodge City, Kansas.

FARMS, STOCKS, and city property for sale or trade. What have you to offer? Bigham & Ochiltree, 802 Corby-Forsce Bldg., St. Joseph, Mo.

RANCH FOR STOCK FARM. We have 640 acres well improved 3 miles south of Monument, Logan Co. 500 acres in cultivation, 200 acres in wheat. Price \$13,000; clear. Will trade for corn and stock farm in eastern Kansas. Wilson & Bozell, Beloit, Kansas.

320 ACRES 5 MI. BRONSTON, Kan., fair buildings, price \$16,000. Mort. \$6,000. Wants merchandise or rental. 70 acres Jackson Co., Kan. Buildings poor, price \$5,250. Mort. \$2,500. Wants rental. Livery barn, Delaware, Okla., price \$3,000. Rent \$27.50 per month, for small farm. Spohn Bros., Garnett, Kan.

WILL EXCHANGE FIRST MORTGAGE. Elderly gentleman has gilt edge first mortgage of \$10,800 to run 7 yrs. from March 1st, 1914, at 5% on 160 acres of improved Missouri land that sold at \$16,000, to trade on improved land, clear, in Morris county, Kansas or near. Might put in \$1,000 or more cash on good farm. Give us 2% commission and we will do the rest. Describe your property. W.L. Bowman Realty Co., King City, Mo.

FOR SALE OR TRADE, fine improved bottom farm, close to town. City High School free. J. H. King, Cawker City, Kan.

SAN JUAN COUNTY, NEW MEXICO. For sale or exchange. 10 acres all in bearing orchard. Standard varieties. 3 miles from Farmington. Price \$3,000. Prefer land or town property in Missouri, Arkansas or Kansas. Other exchanges. The Farmington Land & Investment Co., Farmington, N. M.

EXCHANGE FOR MERCHANDISE OR CLEAR LAND. 200 acres fine corn and alfalfa farm, 8 miles St. Joseph, 3 miles from small town, well fenced, good improvements. Price \$110 per acre. Mortgage \$8,000. C. D. Butterfield, Hamburg, Iowa.

Buy or Trade with us—Exchange book free. Berle Agency, Eldorado, Kan.

OWNER

If you want to buy, sell or trade your property or farm, write to the Kansas Realty Company, Burns, Marion Co., Kan.

1914 BARGAINS

Choice farms just listed in northwest Missouri, Iowa, Nebraska, for sale or exchange. Advise me your wants and what you have with full description. M. E. Noble & Son, 507 Corby-Forsce Bldg., St. Joseph, Missouri.

1000 Farms Wanted

listed with me—sale or trade. Owners write me—giving complete description—what you will trade for—where, price, etc. If you don't mean business don't write. Frank W. Thompson, Beloit, Kansas.

For Sale or Trade for Land

the well established real estate, insurance and loan business of John H. Averill & Son; new 6 room house and garage, 3 acres of ground, 1912 Ford auto, half interest in ten year lease of 7 offices and hall. Moving to Denver on account of sickness in family. John H. Averill & Son, Luray, Kansas.

I Am the Owner

of several good pieces of property such as farms, ranches, city property, small tracts near city and other property. I prefer to sell, but if you have something I can use, I will trade. Some of the M. & B. readers have gotten some good bargains of me lately. Tell me what you have, and what you want, and maybe I have it. H. C. Whalen, 812 W. Doug, Wichita, Kansas.

For Trade

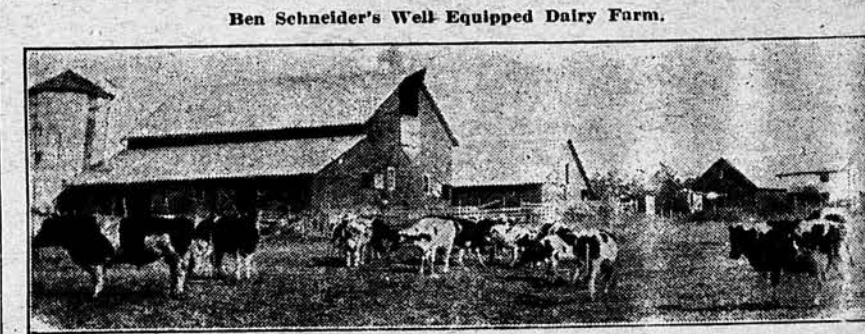
Nicely improved 160 acre farm in southwest part Neosho county, Kansas. Four and seven miles to good towns on Katy and Santa Fe. 4 1/2 hours' ride to Kansas City, Mo. In a fine farming community and also in oil and gas belt. Will trade for hardware or general mdse. Address

M. W. Peterson, Hanston, Kansas.



Oldenburg German Coach Stallions.

Jacks and Jennets. Jan. 29—I. N. Green, Klowa, Kan. Feb. 7—Jas. A. Godman, Devon, Kan. Feb. 24—H. T. Hineman & Sons, Dighton, Kan., and Dorsey Hutchins, Sterling, Kan. Sale at Sterling. Mar. 9—G. C. Roan, La Plata, Mo. Combination Livestock Sales. Jan. 29—I. N. Green, Klowa, Kan. Feb. 12-13—L. E. Wooderson, Mgr., Caldwell, Kan. S. W. Kansas and Oklahoma BY A. B. HUNTER. D. J. Hutchins, Sterling, Kan., and H. T. Hineman, Dighton, Kan., will hold their third annual jack and jennet sale in the new sale pavilion at Sterling, Reno county, Kan., some cows milking now and bred again. Write Mr. Schwab for prices and descriptions. They are practically all of breeding age and the best and give you all of the information you



The above picture shows the silo, barns, residence and a part of the good Holstein herd owned by Ben Schneider of Nortonville, Kan. Mr. Schneider always has some good breeding stock to sell. Write now.

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J. P. Oliver Newton, Kan. Livestock and Real Estate Auctioneer. My 20 years experience insures better results.

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.

W. C. CURPHEY, Salina, Kansas Write, phone or wire for dates. Address as above.

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G. A. Drybread The Auctioneer Elk City, Kan. Live Stock and Farm Sales made anywhere. Prices reasonable. Give me a trial. Satisfaction guaranteed.

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L. R. BRADY Manhattan, Kansas Livestock Auctioneer Write or wire for dates.

Will Myers Beloit, Kan. Is already booked on leading breeders' sales in Central Kan. Choice dates still open. Write or wire.

W. B. Carpenter Livestock Auctioneer 1400 Grand, KANSAS CITY. Also Land Salesman

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Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages. Write today for big, free catalogue of Home Study Course, as well as the Actual Practice School. Next term opens Jan. 5, 1914.

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MULE FOOT HOGS.

Mule-Footed Hogs The coming hog 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.

DUROC-JERSEYS.

Red White and Blue Herd of Durocs FIRESTONE (1894) Champion winner weighed 500 pounds at 11 months old. WHISKEY and FAITH 1231 Grand Champion at American Royal, weighed 300 lbs. at 18 months old. Great lot of prize sows in my herd. JAS. L. TAYLOR, OLEAN, MISSOURI.

Guaranteed Immune Duroc Sows Duroc-Jersey bred gilts for sale, guaranteed, immune and in farrow. I ship on approval. No money down before inspection. F. C. CROCKER, FILLEY, NEBRASKA

COLONEL WONDER the undisputed "Grand Champion" of Missouri, bred gilts and fall yearlings, by him or bred to him, for sale. Come or write. CHAS. L. TAYLOR, Olean, Mo.

TATARRAX Herd DUROCS Write us today describing the kind of Duroc boar you want. We have the best young boars we ever raised. They are by G. M.'s Tat Col., and the grand champion Tatarrax. Prices reasonable. HAMMOND & BUSKIRK, NEWTON, KAN.

Stith's DUROCS Sows and gilts bred to and young boars and gilts by Model Duroc, one of the best sires of the breed. His half brother and sister were grand champions. His sire was a champion. Write today. CHAS. STITH, Eureka, Kansas

Good E. Nuff Again King Sensational Grand Champion; and Crimson Wonder 4th, second prize, Kansas Fair, 1913. Fifty head of great sows and gilts sired by and bred to these great boars. W. W. Otey & Sons, Winfield, Kansas. "The men with the guarantee."

MAPLEWOOD DUROCS Boars all sold. 40 open and bred gilts for sale. Will ship on approval. Write for prices. W. H. MOTT, HERINGTON, KANSAS

Quivera Place Durocs Spring Pigs now ready and going. Write for prices. E. G. MUNSELL Herington, Kansas.

Bonnie View Durocs Bred gilts and fall pigs for sale. They are sired by Grand Champion Tat-A-Walla and S. & C.'s Col. Searle & Cottle, Berryton, Kansas.

desire. Remember his bred sow sale February 13.

Percheron Sale at Manhattan.

In this issue will be found the half page advertisement of Lee Brothers' big annual Percheron horse sale at the Agricultural college, Manhattan, Kan., January 27. Forty stallions and mares go in the sale, which will be held in the new heated sale pavilion. The offering contains their entire show herd with the exception of Scipion, their great 2-year-old stallion, the 2,100 pound herd champion in the 1913 shows, where the Lees made an enviable record with their Percherons. There are also five other good big 2-year-old colts in the sale. There are offering 22 mares bred to Scipion and sterling worth, through and through is one of sterling worth. Every animal in the offering is sound except a small young one who are building their business on a sure foundation—good business methods and absolute square dealing with everyone. Their catalogs are out and you can have one by return mail. In writing them they will appreciate it if you mention where you saw their handsome catalog. A line will bring their handsome catalog. Mention Farmers Mail and Breeze.

A Great Hereford Offering.

January 28 is the date of Mousel Brothers' Hereford cattle sale at Cambridge, Neb. In this sale they are selling 70 head, 40 bulls and 30 females. It is indeed a grand, good offering of high class Herefords. In it will be found all of their show herd including Mischief Maker 36, the first prize senior heifer calf at the International last month. They are putting in this sale the best herd bull propositions they have ever been able to produce. The cows and heifers are bred to Beau Mischief and Parson. A number of them are daughters of Beau Mischief. Beau Mischief is very popular with Hereford people everywhere and his ability as a sire was never more clearly demonstrated than at the International at Chicago last month. The Mousel show herd and its achievements are pretty well known and Beau Mischief is the sire of practically all of it. Their offering on January 28 is conceded by competent Hereford judges to be one of the best offerings of recent years and Hereford breeders should get their catalog at once and plan to attend this sale at Cambridge. When you ask them for a catalog they will appreciate it if you will mention the paper in which you saw mention of their sale. Address Mousel Brothers, Cambridge, Neb. Mention Farmers Mail and Breeze.

R. & S. Farm Duroc Sow Sale.

The R. & S. Farm sale of Duroc-Jersey bred sows at the fair grounds, Smith Center, Kan., Saturday, January 31, will be the regular annual sale which A. M. Rinehart & Son hold about this time every winter. In this sale they will sell 60 head of bred sows and gilts. Last season they raised more early spring pigs than usual and the tops of this crop of spring pigs make up the offering with some very choice tried sows added as attractions. The breeding and individual merit of this firm insure a first class offering. Their catalog will convince you of their good judgment in mating and also of the statement that the breeding is as up-to-date as will be found in any herd. They always sell in the northern Kansas sale circuit and their sale follows the N. B. Price sale at Mankato. Smith Center is only 25 miles west of Mankato and the best of railroad facilities makes it easy to attend the three sales in this circuit. The fair sale will be held in the pavilion at the fair grounds where everything will be comfortable. The farm is only two miles out and anyone desiring to see the herd will be taken out on the balance of the herd in an offering of unusual merit. The spring gilts are well grown and are of extra good size with lots of quality. Arrange to attend the three sales, January 29 at Formoso, January 30 at Mankato, and January 31 at Smith Center. Ask for catalogs today.

Top Durocs at Auction.

N. B. Price, Mankato, Kan., was very likely the most extensive buyer of choice Duroc-Jersey bred sows last winter, both in bred sow sales and at private sale. He topped most of the best sales of northern Kansas and bought a number at private sale that were just as good and of fashionable breeding. Because of his decision to leave the farm which he has been operating on an extensive scale for a number of years he has decided to disperse his fine herd of Duroc-Jerseys. It affords the breeder who is in the market for choice breeding stock an unusually good opportunity to buy choice bred sows that have been carefully conditioned and bred by a man who knows the business thoroughly. In this sale Mr. Price will sell the very tops of 20 tried sows, a number of herd boars sold in this sale and either of them is worthy of being at the head of a good herd. Mr. Price is selling in the northern Kansas sale circuit and will sell the day following W. E. Monasmith and the day before Rinehart & Son sell at Smith Center. All three sales can be attended very conveniently because of excellent railroad facilities. Mr. Price is a young man who has gone out and paid long prices for choice animals. He used good judgment and made excellent selections. He has given his herd the best of personal attention and but praise for his sale will have nothing but praise for him and his herd and his methods. His catalog which gives breeding and other information about his offering is ready to mail.

HAMPSHIRE SPECIAL PRICES

On Pedigreed young Hampshire boars, bred sows and gilts. Call on or write. J. F. PRICE, Medora, Kan.

Registered Hampshires Spring boars and gilts priced to sell. Every hog properly vaccinated. C. E. LOWRY, OXFORD, KANSAS

Pure Bred Hampshires Some extra choice, well-bred spring boar pigs for sale. ALVIN LONG, Lyons, Kansas.

F. H. PARKS, Olathe, Kansas Dear Sir—The Hampshire Sows arrived in good shape and am well pleased with them. FERRYLIN RANCH, El Dorado, Kansas. We receive letters just like this after every shipment.

Royal Scion Farm Durocs The great Graduate Col. assisted by Col. Scion heads this herd. Fall and spring boars fall and spring gilts bred or open and fall pigs, either sex. G. C. NORMAN, R. 10, WINFIELD, KANSAS.

DUROC-JERSEYS. Fashionably bred boars, including grandsons of the great Graduate Col., bred or open and fall pigs, either sex. J. R. SMITH, NEWTON, KANSAS

SMITH'S DUROCS and a herd-heading son of the champion, Tatarrax. Also spring boars. J. R. SMITH, NEWTON, KANSAS

MODEL AGAIN Duroc boars \$15.00 Bred gilts \$35.00 Immune. R. W. BALDWIN, Conway, Kan.

Dreamland Col.—Riverbend Col. March boars by these sires—Prices right Write for descriptions and prices. Leon Carter, Asherville, Kans.

DUROC-JERSEYS Herd boar by Watson's Col., 6 tried sows and fall pigs Best of breeding. R. C. WATSON, Altoona, Kansas

DUROCS OF SIZE AND QUALITY Herd headed by a son of B. & C.'s Col. Immune spring boars and gilts of Tatarrax Col., Ohio Chief and Neb. Wonder breeding at farmers' prices. JOHN A. REED, Route 2, Lyons, Kansas.

BANCROFT'S DUROCS We hold no public sales. Nothing but the best offered as breeding stock. Choice March and April boars \$25.00. Bred gilts to farrow in March and April, \$35.00. September pigs, pairs and trios not akin. Customers in 11 states satisfied. Describe what you want. We have it. D. O. BANCROFT, Osborne, Kansas

HILLSIDE DUROCS Two good boars priced to sell and deliver quick, for immediate service. Wire us. W. A. WOOD & SON, Elmdale, Kansas

BIG TYPE UNPAMPERED BERKSHIRES 150 sows bred to Fair Rival 10th. King's 4th Masterpiece. Trusttype, King's Trusttype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, Burlington, Kansas

Jewell County Breeders' Association Members of this association, advertising below will offer nothing but first class animals for sale for breeding purposes.

O. I. C. HOGS. O. I. C. SEPTEMBER PIGS for sale also White Holland Turkey toms. DR. W. W. SPENCER, Mankato, Kansas

POLAND CHINAS. A. R. REYSTEAD, Mankato, Kan. Breeder of high class Poland Chinas. Member Jewell Co. Breeders Association Correspondence solicited

Polands, Shropshire Sheep 100 Spr. sexes, strictly big type. Ram lambs. Write for prices. Ira M. Swihart & Son, Webber, Kan.

50 BIG BOARS Spring farrow. Big and smooth. Priced to sell. Also choice gilts. Bred Sow Sale March 10. JOSHUA MORGAN, HARDY, NEBR.

Three June Boars sired by Jumbo have ever raised. For sale right Bred Sow Sale March 4. JOHN KEMMERER, Mankato, Kan.

Bell's A. Wonder 61891, one of the best of old A Wonder priced to sell. Immuned and guaranteed. Ira C. Kyle & Son, Mankato, Kan.

FALL AND SPRING BOARS for sale. Also spring gilts and summer yearlings. Barrad Rocks, R. 1, Reds and W. Wyandottes. W. A. MCINTOSH, Courtland, Kan.

PRIVATE SALE Spring boars and gilts. Best of big type breeding. Ask for prices and descriptions. TUDOR J. CHARLES, Republic, Kans.

DUROC-JERSEYS. Durocs—Bourbon Red Turkeys Spring boars priced low if you write at once. Bourbon Red Turkeys at \$3.00 each. E. M. MYERS, BURR OAK, KANSAS

SUMMER BOARS Choice heavy boned fellows, by Buddy O. K. Also herd boar, Tat's Chief for sale. R. P. WELLS, FORMOSO, KANSAS

25 SPRING BOARS of fashionable breeding. Priced to sell. Bred sow sale January 29. Ask for prices and descriptions. N. B. PRICE, Mankato, Kan.

Fall Boars and Gilts Sired by Model Chief and Crimson Burr. Pairs and trios not related. Bred Sow sale at Burr Oak, Feb. 21. DANA D. SHUCK, BURR OAK, KAN.

50 Duroc Bred Sows Feb. 9. Five spring boars for immediate sale. Good. Write for Brod sow catalog. E. A. TRUMP, FORMOSO, KANSAS.

SPRING BOARS for sale reasonable. Write for descriptions and prices. Up to date breeding. Also a few gilts. R. C. MADSEN, JEWELL CITY, KAN.

10 Good Spring Boars priced right to move them quick. JOHN McMULLEN, Formoso, Kansas

40 SPRING PIGS of March and April farrow. Priced to sell. No public sale this season. C. C. THOMAS, WEBBER, KANSAS

DUROC-JERSEYS. McCARTHY'S DUROCS Handsome fall pigs, either sex. Champion blood on both sides. Priced for quick sale. They will please you. Daniel McCarthy, Newton, Kan.

Duroc-Jerseys—Red Polls and Percheron stallions. 3 young bulls ready for service. 3 cows now in milk and bred. Boars, all ages, priced to sell. Address GEO. W. SCHWAB, CLAY CENTER, NEB.

BERKSHIRES. BUY BERKSHIRES FROM BAYERS. They sell SHORTHORN BULLS too. J. T. Bayer & Sons, Yates Center, Kan.

Hazlewood's Berkshires! Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

Walnut Breeding Farm BERKSHIRE boars and gilts, spring farrow, grandsons of Barron Duke 50th, Big Crusader and Masterpiece 77000 and out of Lord Premier sows, also an imported bred outstanding 2-year-old boar and a few good Hereford bull calves. Leon Waite, Winfield, Kan.

Berkshire Pigs Choice pigs, either sex, 10 to 16 weeks old, sired by ROBINHOOD PREMIER 2d. or Adam, a son of Rival's Lord Premier. Nothing but the very choicest specimens shipped. Price: registered, crated F. O. B. here—one \$20; two \$35; three \$50. W. J. CRIST, Ozawkie, Kas.

HAMPSHIRE HOGS. Oscar Green's Shorthorns Popular breeding. Stock for sale. A good herd bull proposition. OSCAR GREEN, MANKATO, KANSAS

POULTRY. White Holland Turkeys Toms \$4.00 to \$6.00. Hens \$3.00. 50 for sale. My Duroc Jersey bred sow sale Jan. 29. Everything immune. W. E. Monasmith, Formoso, Kan.

Wyandotte Cockerels \$1.00 each. 2 Shorthorn bulls, coming one and two year old, \$90 and \$100. 2 Shorthorn heifers, \$75 each. Chilcott Poultry & Stock Farm, Mankato, Kansas

White Holland Turkeys White Rocks, White Cochins, Bantams, Pekin Ducks, White Fan Tail Pigeons. Stock for sale. A. T. Garman, Courtland, Kan.

GUERNSEY CATTLE. W. E. EVANS, Jewell, Kan. Breeder of Guernsey cattle. Nothing for sale now, but watch this space.

JERSEY CATTLE. Jersey Heifers that will freshen in Jan., Feb. and March. Four fall yearlings bred, six heifer calves 10 months old. Write for prices. J. W. Berry, Jewell City, Kan.

D. S. POLLED DURHAMS. Cows and Heifers also last spring bull calves at \$100 each if sold this fall. R. T. VAN DEVENTER & SON, Mankato, Kansas.

PERCHERONS. PERCHERON Stock for sale. Always good horses in service. H. G. MYERS, HARDY, NEB.

AUCTIONEERS. John Brennen & Son ESBO, KANSAS WRITE OR PHONE FOR DATES

M. S. HOYT, MANKATO, KAN. Write or phone Livestock Auctioneer for dates.

Frank Regan Livestock Auctioneer ESBO, KAN. WRITE OR PHONE FOR DATES.

Ole Hanson, Livestock Auctioneer Mankato, Kan. Write or phone for dates.

DAN GALLAGHER, Jewell City, Kan. Livestock Auctioneer Write or phone for dates.

O. I. C. HOGS.

ELM BROOK HERD OF O.I.C.'s. Harry W. Haynes, Meriden, Kas

50 O. I. C. Pigs Henry Kamping, Elmora, Kansas.

Registered Herd Boar, 400 lbs. \$50 80 Fall pigs, either sex. New blood for old customers. F. C. GOOKIN, BUSSELL, KAN.

Murray's O.I.C. Bred Sows and gilts for sale. Fall and spring boars and fall pigs of both sexes. Chas. H. Murray, Friend, Neb.

SUNNYSIDE O. I. C. HOGS Boars and gilts ready for service. Pairs not related. Best breeding. Priced to sell. W. H. LYNCH, READING, KANSAS.

EDGEWOOD O. I. Cs. Three extra good early spring boars, also big growthy April gilts, open or bred to order. A few choice fall pigs. Mendon Mail and Breeze Henry Murr. Tonganoxie, Kas.

Grandview Stock Farm Herd headed by O. K. Wonder. Choice O. I. C. May boars. January and May gilts bred or open. Priced for quick sale. ANDREW KOSAR, DELPHOS, KANSAS.

BOARS! BOARS! BOARS! A great line of spring O.I.C. boars, large and growthy and priced at rock bottom prices to move them quickly. Booking orders on fall boars and gilts for December delivery. JOHN H. NEEF, BOONVILLE, MISSOURI

POLAND CHINAS.

Polands With Size and Quality Boars and bred sows for sale, sired by Waschters Referee and King Hadley. Cholera immune Lambert Bros., Smith Center, Kas.

20 March Boars by Blue Valley Look, King Hercules. Big Ben (Pfander) and Ott's Big Orange. (J. O. James.) Mature dams. J. F. FOLEY, (Norton Co.), Oronoque, Kan.

Sunny Side Poland Chinas Pigs of September, 1913, farrow for sale. Have sold all my spring boars and bred sows. J. G. BURT, Solomon, Kansas.

KLEIN'S TABOR VALLEY HERD Some choice January Poland China boars by Chief Price 61067. Also two Sept. boars same breeding. Fall gilts, bred or open. Tops of 30 February boars. All out of big mature dams. Satisfaction guaranteed. L. E. KLEIN, Zeandale, Kan.

One Hundred Poland China Sows Pay the price and take your choice. Pedigree and guarantee goes along with the sow. Ben Frank, Jefferson City, Missouri. WRITE IN ENGLISH OR GERMAN

Fairview Herd of Poland Chinas We have a fine lot of bred sows of the same breeding that we sell breeders for hard hogs. First class breeding and a pedigree goes with every sale. P. L. WARE & SON, Paola, Kansas.

EVER GREEN STOCK FARM Offers 20 extra good Poland China bred gilts, 10 boars that will weigh 200 pounds and 60 fall pigs good enough for 1914 prize winners. Extra large type. E. E. CARVER & SON, Guilford, Missouri.

LARGE WITH PLENTY OF QUALITY Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock. Olivier & Sons, Danville, Kan.

Joe Baier's Polands 40 spring boars, a few choice fall boars, sows and gilts bred or open. Satisfaction guaranteed. Let me know what you want. J. M. BAIER, ELMO, Dickinson Co., KAN.

ENOS BIG POLANDS Two extra spring boars, 30 large, smooth, bred gilts and 10 extra good bred sows, bred to Orphan Chief and Major Hadley. Write today. A. R. ENOS, RAMONA, KANSAS.



1000 lb. Grand Champion, 11 in. bone

50 pigs, either sex, this fall farrow, sired by Kansas Mouw and out of sows by Advance. Others sired by Advance. These pigs are fine and priced for quick sale.

Paul E. Haworth, Lawrence, Kansas

HEREFORDS.

Hereford Males for Sale both polled and horns. Strong in Anxiety and Beau Brummel blood. J. C. Hopper, Ness City, Kan.

MEADOWVALE STOCK FARM A few choice young double standard polled Hereford bulls for sale from polled sire and dam. W. W. CHARLES & SON, R. 3, Larned, Kansas.

Clover Herd HEREFORDS

Headed by Garfield 4th, by Columbus 53rd. Choice cows from Funkhouser, Sunny Slope, Newman and other noted herds. FOR SALE—Bulls from 6 to 12 months old, at \$75 to \$100 delivered and Curly Tom, a splendid 2-year-old bull, by Mapleton 4th 248489. Also 15 extra good 3-year-old cows, by Garfield 4th, bred to Curly Tom. F. S. JACKSON, Topeka, Kans.

and he will be pleased to mail you one. Write him, mentioning Farmers Mail and Breeze.

Monasmith First in Circuit.

January 29 is the date of W. E. Monasmith's annual Duroc-Jersey bred sow sale at his farm two miles north of Formoso, Kan. He will sell 52 head of sows and gilts. The sows are a choice lot and represent the best breeding in the country. The fall gilts are real attractions and the 30 spring gilts are a well grown, well conditioned lot of young sows. They are by Kansas Special, Col. Gene, Dracmand-Col., L. C.'s Defender, Riverbend Col. and other herd boars of note. They are all bred for March and April farrow. This is to be a reduction sale and tried sows and top gilts are going in this sale without reserve. In addition to this Mr. Monasmith has decided to sell in this sale Kansas Special and Col. Gene. Kansas Special is considered by competent judges to be one of the great boars of the breed and it was intended that he be given an opportunity to compete with the big ones at the shows last season but because of the extreme heat he was not fitted for the shows. Col. Gene is worthy of his great sire, B. & C.'s Col. He will go in the sale along with Kansas Special. Any breeder who is in the market should make it a point to attend this sale and inspect these herd boars. Both will be fully guaranteed in every respect. Their get will be found in the sale. They will sell on their merits and very likely much cheaper than boars of their class usually sell at private sale. Mr. Monasmith will be pleased to mail you his catalog which is now ready and also answer any questions about his offering. His sale will be held in his own sale pavilion at his farm and free conveyance, etc., will be furnished. Get the catalogs and attend all three sales.

Lamer's Big Percheron Sale.

C. W. Lamer's big annual Percheron horse sale was held this year at the Pioneer Stud Farm near Bridgeport instead of at Salina. The sale was held in the new stud barn and sale pavilion erected last summer at a cost of nearly \$8,000 and which is the future sale barn. Mr. Lamer's Pioneer Stud Farm consists of 720 acres of the prettiest laying farm land the writer ever saw. On this farm Mr. Lamer was born, his father having located on it in 1870. It is highly improved with modern barns, silos and other modern improvements. The day was held for the occasion and the sale was held in the open. W. C. Curphey of Salina and Dan Sayer of Kansas City conducted the sale. Forty-five registered Percheron stallions and mares were sold at very satisfactory prices. The top price was \$1,500 paid by J. J. Kempton of Burden, Kan., for Keota Rustic, a beautiful brown 3-year-old stallion. A number of buyers were present from western Kansas and a number of good stallions and mares went to that part of the state. Many of the mares were safe in foal to Kangourou, the great stallion at the head of the Pioneer Stud and the reserve stallion at the American Royal, 1913. He is 3 years old and weighs 2,180. He and his mate, Ilmen, the grand champion stallion 1912 at the American Royal and grand champion of three state fairs, were greatly admired by the big crowd of horsemen that attended the sale. In this sale Mr. Lamer sold around 100 head of work horses and mules. It was pronounced a high class offering of good drafty work horses and many of them were good brood mares. The sale was a big success and the Pioneer Stud Farm and its genial owner were fully appreciated by the visitors. Below are a few of the principal sales:

- Stella, mare, Geo. Nowles, Glasco, Kan. 600.00
Deloris, mare, Geo. Nowles, Glasco. 600.00
Susan Jane, mare, Harris Bros., Great Bend, Kan. 570.00
Alta, mare, F. N. Garner, Tulsa, Okla. 400.00
Buster, stallion, T. F. Bosler, Leoti, Kan. 1,000.00
Capper, mare, T. F. Bosler. 625.00
Eita, mare colt, F. N. Garner. 300.00
Flossie, mare colt, J. Roman, Olathe, Kan. 350.00
Esther, mare, G. M. Black, McPherson, Kan. 355.00
Una, mare, E. Waters, Leoti, Kan. 400.00
Dora, mare colt, E. F. Scovill, Leoti, Kan. 275.00
Amy, mare, Ed Soiden, Brookville, Kan. 435.00
Alma, mare, Ed Soiden. 435.00
Arcola, stallion colt, Bosler. 225.00
Bonaparte, stallion colt, Geo. Nowles 400.00
Domino, stallion, Gus Truman, Leoti 1,300.00
Keota Rustic, stallion, J. J. Kempton, Burden, Kan. 1,500.00
Shorter, stallion colt, Frank McGilary, Leoti. 400.00
Roscoe, stallion, J. Roman. 595.00
Sampson, stallion, C. L. Hubbard, Lakin, Kan. 1,100.00
Mare colt, J. P. Shireman, Leoti. 275.00
Mare colt, Shireman. 275.00
Black stallion, J. Roman. 720.00

N. E. Kansas and N. Missouri

BY C. H. WALKER.

One of the biggest events of the winter season in Hampshire circles will be the sale of 50 or 60 head from the big herd owned by H. D. DeKalb, at DeKalb, Ia. By careful selection, proper mating and caretaking the DeKalb herd of sows ranks with the very best in the country and Mr. DeKalb has made his herd famous for the big type of Hampshire. The DeKalb Hampshires have something besides belts. They have spring of rib, heavy bone, size and quality along with their good markings. The sale will be held in Council Bluffs, the scene of so many good sales from this herd and the date is March 12. The catalogs and advertising of this sale will appear in due time and those interested in good Hampshires and who are not already on the DeKalb mailing list should write for one today. Kindly mention this paper when writing.

Snyder & Stalons's Percheron Sale.

Readers of this paper who are in the market for good Percheron stallions or mares will find stock to suit in the Percheron dispersion sale to be held at Oskaloosa, Kan., by Snyder & Stalons on Thursday, January 29. The 20 head, including seven young stallions and 13 mares and fillies, which go in this sale are right in every way and include all the best things in the herd. The fact that it is a dispersion sale insures buyers of getting the cream of the herd. This herd has been established for over 10 years and during that time nothing but the very best stock has been added to or

Dean's Mastodon Poland Chinas Serviceable boars and bred sows and gilts. I have some 3-year-old sows 65 inches long, bone 8 1/2 in., and 34 inches high. VACCINATED AND IMMUNE. Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 2d. Everything guaranteed and sold worth the money. Phone Dearborn; station, New Market, and postoffice, Weston, Mo. Address CLARENCE DEAN, WESTON, MISSOURI.

Robinson's Mammoth Poland Chinas! My herd boars weigh from 800 to 1,025 lbs. Now have for sale the greatest lot of spring pigs I've ever raised. Sired by and out of my prize winning boars and sows. Get my prices, description and guaranty. My terms are: If you are not satisfied return the hog and I return your money. F. P. ROBINSON Maryville, Mo.

Blue Valley Breeding Farm For sale—8 head of registered Hereford bulls large enough for service this coming season. 1 Columbus herd bull coming two years old. 1 No. 1 registered Poland China herd boar and several young boars and gilts; also a fine flock of B. P. Rock Cockerels. I lay everything down to purchaser by prepaid express and I will make very low prices for quick sale. FRED R. COTTRELL Marshall County, IRVING, KANSAS

OVERLAND GUERNSEY FARM THE FINEST HERD OF IMPORTED GUERNSEYS IN THE COUNTRY Imp. Moss Raider a strongly bred May Rose bull and Imp. May Royal, a line bred Golden Secret, Chief stock bulls. Cows and heifers of best imported strains. All cows tested for advanced registry. In order better to introduce the Guerneys in the West, we will make attractive prices on young bulls and cows and heifers bred and open. Special inducements to new breeders in herd foundation material. If you wish to improve the quality and production of your milk, cream and butter, use a Guernsey sire. Unsurpassed in constitutional vigor, adaptability, and richness of product. Correspondence invited—your personal inspection preferred. Call on or address Overland Guernsey Farm, Overland Park, Kas. C. F. Holmes, Owner. W. C. England, Mgr. Eight miles S. W. of Kansas City on Strang Line. Station on Farm

A LARGE HERD OF Fancy Grade Holstein Cows 2 to 6 years old, all tested and guaranteed sound, good udders and good tests. If it costs \$50 per year to keep an average cow, she must produce at least 200 lbs. of butterfat to pay her board. If a cow produces 400 lbs. B. F. and her feed bill is \$65 she therefore makes a profit. Why not start now and build up a herd of high producing cows that will make a profit? The average cow milked in Kansas produces something like 170 lbs. B. F. per year, milks in the neighborhood of seven months per year and is a star boarder the balance of the year. Stop this waste, get good high grade Holsteins bred to milk 10 1/2 to 11 months per year and produce 400 pounds or 500 pounds butter fat. The Holstein is the cow for Kansas conditions; hardy nature, large capacity for rough feed, kind and gentle. When dry takes on weight easily. They are large, often weighing 1,700 pounds. There is no better market for the Kansas crops than the dairy route. In no other way can the present high priced feed be turned into as much profit as by the Holstein cow. A good feeder and a conscientious milker. Write or call. W. G. MERRITT & SON, GREAT BEND, KAN.

Lookabaugh's Shorthorns SOLD ON TIME AT PRIVATE SALE Six or nine months time 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. High class Herd Bulls, close to imported Scotch Dams, and sired by such sires as Lavender Lord by Avondale. Nicely bred young heifers from milking strains. Rugged young bulls, the Farmer and Stockman's kind; cows with calf at foot and re-bred. A great variety of prize-winning blood. If you want breeding stock do not miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest nor so many wonderful producing cows of such excellent breeding. Over 200 Head From Which to Select.

Our Shorthorn Bloodlines HERD BULLS—Lavender Lord, by Avondale Violet Search, by Searchlight. Glendale Pavonia 2nd, 20208 by Scotland's Charm 127264 and out of Imp. Pavonia. Pleasant Jealousy 149476, by Shinston Albino 317105 and out of Maxwalton Jealousy, by Avondale 245144, second dam, Sultan's Jealousy, by Whitehall Sultan 163573, next dam Imp. Jeanie by Count Arthur 144609. Archer's Rosebud, by Lordy Archer and out of Imp. Rosebud 2nd, by Prince Horace 131995. Miss Lancaster, by Mutineer 175547 and out of Golden Lancaster 63573, by Golden Crown 127851. Imp. Mary Ann of Lancaster 7th, by Royal Lancaster 132356. Maxwalton Guindoline 107203, by Maxwalton Sultan 305870 and out of Rose of Lancaster, four crosses from Imp. Guindoline, by Barren Violet 90446. (To be Continued.) CALL ON OR WRITE H. C. Lookabaugh, Watonga, Okla.

ABERDEEN-ANGUS.

Angus Bulls and Heifers SUTTON FARM

Have 30 splendid heifers and 30 extra good bulls priced to sell. Write us today. SUTTON & PORTEOUS, E. S. Lawrence, Kan.

Angus Cattle

A select lot of ready-for-service bulls for sale, best breeding and right individually. W. G. Denton, Denton, Kan.

SHORTHORNS.

Cedar Lawn SHORTHORNS

A fine lot of Scotch and Scotch Topped bulls ranging in ages from 8 to 15 months. Priced low considering quality and breeding. Also my two-year-old, Big Orange, herd boar at a bargain. S. B. AMCOATS, Clay Center, Kan.

Shorthorn Cattle

Pure Scotch and Scotch-topped cattle. The milking strain. No nurse cows needed on Oxford farm. Baron Cumberland at head of herd. Six young bulls, six heifers and twelve cows for sale. Correspondence and inspection solicited. DR. W. C. HARKEY, LENEXA, KAN.

Pearl Herd of Shorthorns

Choice young bulls—last spring calves—either Scotch or Scotch-Topped breeding. Well grown and in good growing condition. Can ship via C. R. L. & P. A. T. & S. F., U. F., and Mo. Pac. Address

C. W. TAYLOR

ABILENE : : KANSAS

DAIRY CATTLE.

HOLSTEINS Large type, State inspected and tuberculin tested. Fine registered bulls, cows and heifers, also 100 grade cows and heifers. M. P. Knudsen, Concordia, Kan.

FOR SALE—5-Year-Old PURE BRED HOLSTEIN BULL. STOKES-POGGS BREEDING. Can't use in my herd any longer. L. P. CLARKE, RUSSELL, KANSAS.

We Will Have a Car Load of High Class, Heavy Springing Grade Holstein Cows For Sale at Manhattan, Kan., during the week of the Farmers Short Course, at the Kansas State Agricultural College. Arnold & Brady Manhattan, Kans.

A FEW GUERNSEY COWS fresh next month. Including Lady True Gold and heifer calf—8 gallons, test 5.4%, also a few Holsteins, including the beautiful 15 months old bull Bertis Trojan at \$110. Jack Hammel, 215 Adams St., Topeka, Kan.

Young Jersey Bulls for Sale By sons of champion Flying Fox and Financial Countess Lad; also by a grand son of Gamboge's Knight. All out of high testing cows. W. N. BANKS, Independence, Kansas.

HOLSTEINS—CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

LINSCOTT JERSEYS Only Register of Merit herd in Kansas. Choice heifers and cows at \$101.00 and up. Bulls \$50.00 to \$150.00. Breeding and individual quality the very best obtainable. R. J. LINSCOTT, Holton, Kansas

Bonnie Brae Holsteins For sale, about 80 head of high grade young cows, 2-year-olds and bred yearlings. These cattle are strictly first class, with many heavy springers. Also young bulls both registered and high bred. Come and see them. IEA ROMIG, Sta. B. Topeka, Kan.

The Jerseys

Pay Dividends on \$500 Per Acre Land



On the northwest coast of California there is a rainfall of from 50 to 100 inches per year. There land is worth \$500 per acre, but grade Jersey herds are paying interest and dividends on that land, averaging 400 lbs. butter fat per year.

Moral: Grade up your herd by getting a pure-bred Jersey sire from a producing dam. Get facts about Jerseys from THE AMERICAN JERSEY CATTLE CLUB 324 W. 23d St., New York, N. Y.

SOMMER--BLATS GUERNSEYS!

TUBERCULIN TESTED.

Headed by Goodwills, Raymond of the Prael, son of Imp. Raymond of the Prael. Grade and registered females for sale, also registered bulls. ERNEST KENYON, Nortonville, Kansas

retained in the herd. Over half the offering are grandsons or granddaughters of Imp. Casino. Eleven head are by Casineur, one of the best Casino stallions in service and six of the best mares are safe in foal to one of the best young stallions of the breed. The offering is in good condition, are regular workers and are the utility kind and are free from defects most common to draft horses. Messrs. Snyder & Stalons take pride in presenting a clean, well bred, useful lot of horses and extend a cordial invitation to all to be their guests sale day. The catalog is ready and will be mailed upon application by mentioning this paper. Note the advertisement in this issue and write them today.

Poland China Breeders Hold Meeting.

Members of the Poland China Record association held their annual meeting at Maryville, Mo., January 6 and 7. J. F. Cox, of Keithsburg, Ill., was elected president, succeeding F. P. Robinson. George W. Woodworth was again made secretary and C. D. Bellows, treasurer. D. F. Gilmore, J. H. Harvey, H. L. Faulkner and W. H. Charters, of Missouri; T. J. Melner, Kansas; Ollie McKelvie, Nebraska; J. M. Royston, Idaho, and L. R. McLarnon, Iowa, were chosen as vice presidents from their respective states. On the night of January 6 a banquet was tendered to the visiting breeders by the Maryville Commercial Club, and the breeders of Nodaway county, Missouri, and the Maryville Elks.

S. E. Kansas and S. Missouri

BY ED. R. DORSEY.

Ed Boen of Lawson, Mo., has 40 head of jacks and jennets as good as were ever on the farm and that means as good as on any farm. The four 3-year-old jacks that he raised are as good as anybody ever saw. They are by Kentucky that Mr. Boen sold to a man in Colorado for \$2,000. One of those jacks is better than his sire. They have the best of bone and elegant head and ear. The 2-year-old jacks are for \$2,000. Giant, that Mr. Boen also sold for \$2,000. They are out of the best jennets he could buy in Kentucky and his breeder has plenty of jennets, big as dray mules. Prairie View Stock Farm is from Kentucky, raised in the business and has sold more jacks at private sale than any man in the business. He knows where all of the best families of jacks are raised in Missouri, Tennessee and Kentucky. His brothers in his old home in Kentucky he knows where to head in for the best. Mr. Boen started, years ago, in partnership with Mr. Ray and before Mr. Ray's death he was counted by many as the jack king. A guarantee from Mr. Boen is as good as can be made. He never had a law suit. His customers must be satisfied. Write to him about jacks and mention this paper.

Harkey's Dual Purpose Shorthorns.

If you are interested in Shorthorn cattle that are particularly strong in the dual purpose characteristics it will pay you to get in touch with Dr. W. C. Harkey of Lenexa, Kan. You will readily recognize the kind of blood there is in his herd when I tell you that his herd bull is Baron Cumberland, by Baron Marr and out of Helen land, by Royal (2nd) 236339. Royal B-57327 by Royal 167522, a Cruickshank (2nd) is by Royal 167522, a Baron Marr Victoria-bred by Col. Harris. Baron Marr is out of Imp. Lady Mary, by Cumberland's Last 229822. Baron Marr and he has proven his bred Scotch bull and he has proven his worth as a breeder. The entire herd of cows are bred to him and Mr. Harkey is offering a few young cows well along in calf of the 4 1/2 and 5 gallon type, all red in color. As this is an assembled herd, several of the grand old bulls are represented, such as Gallant Knight; Crown Prince of Lawndale, a World's Fair prize winner; Choice Goods; Falsetto, a pure Scotch bull that sold for \$1,000 when purebred cattle were not as valuable as grades are now. Searchlight, Prince Pavonia and Young Abotsburn are also represented. Quite a draft in the herd are from that celebrated 10th Dutchess of Geneva which broke all records in the annals of Shorthorn history by selling for \$35,000. You can get the best the breed affords at modest prices. If you want to start a foundation herd this is your chance. Mr. Harkey can furnish you good profitable cows and a young bull, not akin. It would be worth your time and money to see this herd but in any event write him, mentioning Farmers Mail and Breeze.

Publisher's News Notes

The policy of The Kinnard-Haines Company, Minneapolis, Minn., manufacturers of Flour City Tractors is to build the best, regardless of cost. They manufacture no other line besides tractors and as a result the Flour City Tractor has been brought to a high standard of perfection. It is recognized by all who have followed the development in this line as one of the highest types of tractors for general farming and road grading, embodying all the desirable features necessary in machinery of this class. It is the policy of The Kinnard-Haines Company to underestimate rather than make claims for the Flour City Tractor that would tax it to fulfill. See their advertisement in this issue of the Mail and Breeze.

How You Lose by Saving.

You lose at least \$3 in egg production every time you try to set a dozen hens instead of hatching those eggs in an incubator. The average hen under ordinary good management should produce 15 eggs in the 21 days of the hatching period. Thus, 12 hens should produce 180 eggs, which, at 20 cents a dozen, are worth \$3. Then hens will not lay while they are setting of course, and yet the egg production is one of the most profitable divisions of poultry raising. The hens will have to run around and mother their chicks for a month more, when eggs are priced at the very conservative estimate of 20 cents a dozen. This is one of the comparisons brought out by a writer in a booklet—'Turning Eggs into Chickens Into Dollars'—issued by the Rayo Incubator Co., 1016 So. 13th St., Omaha, Neb. This booklet also tells how the Rayo incubators will do the same work as the 12 hens at a cost of one gallon of oil, and thus save that \$3 worth of eggs. The booklet and sample of the only hatching chart in the world will be sent postpaid upon request to all who ask for it.

DAIRY CATTLE.

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. Absolute satisfaction guaranteed. State your wants fully in first letter—I can fill them. BEN SCHNEIDER, NORTONVILLE, KAS.

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

Red Polled Cattle Young bulls ready to ship. Cows and heifers for sale. Best of breeding. Write or better come and see. CHAS. MORRISON & SON, Phillipsburg, Ka.

RED POLLED CATTLE

Choice Young Bulls. Several good enough to head good herds—heavy boned, broad headed, broody kind. Show prospects. Also a few cows and heifers. Visitors welcome. Call or write. I. W. FULTON, Medora, Reno Co., Kan.



GUERNSEY CATTLE.

FOR SALE One Guernsey bull coming yearling. One bull calf, 8 weeks old. One young milch cow. Write for description. DR. E. G. L. HARBOUR, Baldwin, Kans.

SHEEP.

Oxford Rams both imported and home-bred. Ewes safe in lamb to \$300 imported ram. Can make you low prices on rams. WM. EMPIE, Amsterdam, New York.

PUREBRED HORSES.

Imported Stallions

Percheron and Belgian, also Percheron and Belgian mares, and a few registered jacks. These horses were prize winners at Topeka, Hutchinson, and American Royal, including grand champion and reserve champion at each show, winning 28 first and champion ribbons, three Gold Medals, and two Silver medals. These prize winners and others for sale and can be seen at my farm 7 miles N. W. of Alma. Reference any bank in Alma or Wamego. Choice White Holland turkeys, toms or hens. LEW JONES, R. R. No. 1, ALMA, KANSAS.



Hampshire Sheep

Hampshire Hogs. Three weanling boars, choice belting and type.

12 ram lambs, \$12 each, 20 ewe lambs, \$10 each, 24 year-old ewes, \$10 each, 13 three-year-old ewes, \$10 each. E. S. Talliaferro, Russell, Ks.



One Hundred Head of JACKS AND JENNETS

Home of the giants; the big, thick, big boned and big footed kind. We breed and raise most of our jacks. We handle the largest jacks and jennets on earth. BRADLEY BROTHERS, WARRENSBURG, MISSOURI.

AMERICA'S FAMED HORSE DISTRICTS

This particular district famed for Percherons. The Chandler herd is known for draftiness, substance and bone. Big bunch registered studs for sale, yearlings to fours, with weight and finish equal to the French. From imported ancestry on both sides and well grown. Grown here simply means surest foal-getters and farmer's prices. Trains direct from Kansas City and St. Joe. FRED CHANDLER, ROUTE 7, CHARITON, IOWA.



Bergner & Sons' German Coach Horses

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 that has ever been imported. The St. Louis Fair Champion Milon 4221 \$159 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.



Johnson's Shetland Pony Farm

Write me regarding Shetland Ponies. I have for sale 40 to 50 head of fine ones, spring colts, yearlings, coming two and matured stock. Registered mares or stallions. My herd runs strong to spotted, black and white, and I have Nebraska State Fair winners. Let the children have a pony. My prices are reasonable and every pony is guaranteed as represented. Write me now while I have a fine offering of spring colts on hand. H. H. JOHNSON, CLAY CENTER, NEBRASKA.



Imported Percheron Stallions

Each year I select 35 or 40 horses in France, so good and so correct in type, that any one of them will prove a great benefit to the man who buys him. I have a new lot now. At the Shows of the Southwest Circuit, our horses won every Championship and every Group of Five in 1913, as they have done most of the past five years. Our horses are handsome—our contract just and right—our insurance the very best. Come or write. PERCHERON IMPORTING COMPANY Charles R. Kirk, St. Joseph and South St. Joseph, Mo.

Blue Valley Stock Farm

Largest importers of high-class Belgian Draft Horses in the West. Prize-winners in Europe and America. Sound, acclimated and ready for service. Our American-bred stock goes back to the blood of ERIN D'OR or his descendants. Lowest prices and safest guarantee of any firm in the business. Also a few extra good Percheron stallions. Come and see us, or write. W. H. Bayless & Company, Blue Mound, Linn County, Kan.



Percherons and Belgians

The best lot of imported two and three-year-olds in the West. Am going to sell them down very reasonably and give an absolute gilt-edged guarantee good two years. Come and see them. Dr. W. H. Richards, Emporia, Kansas Barn, 4 blocks from A. T. & S. F. Depot.



Robison's Percherons

175 Head on the Farm. Stallions and Mares all ages for sale. Herd headed by the Champion Casino 27830 (45462). Send for farm catalog. J. C. ROBISON, Towanda, Ks.



PUREBRED HORSES.

A. M. DULL & SON'S PERCHERONS

Two two-year-old black stallions for sale, sired by Black Diamond, of Brilliant breeding. Extra size, bone and quality, with style. For information, prices, etc., address, A. M. Dull & Son, Washington, Kan.

Home-Bred Stallions \$250 to \$650. Imported Stallions cheaper than any firm in Creston. A. Latimer Wilson, Creston, Iowa. **Imported Percheron and Belgian Stallions, Home-bred Stallions,** \$275 to \$600. Frank L. Stream, Creston, Iowa

Excelsior Shetland Pony Farm
Registered and High Grade Ponies for Sale
W. H. Fulcomer
Belleville, Kan.



Dispersion Sale

Percherons, Jacks and Holstein Cows
One black Percheron stallion 8 yrs. old, wt. 1900 lbs.; one dark bay colt 3 yrs. old, wt. 1900 lbs.; one dark bay imported German coach stallion 8 yrs. old, wt. 1600 lbs.; one Standard bred stallion, Pactolus Eliwood No. 5024, wt. 1330 lbs.; one black mammoth bred jack, 15.2, (4 yrs. old) wt. 1100 lbs.; one black Jack 5 yrs. old, wt. 1000 lbs.; Four young Holstein cows, all giving a big flow of milk and all gentle. My reason for selling these cows is that I am going to build up a pure Guernsey herd.
O. L. THISLER & SONS, CHAPMAN, KANS.

Stallions

2 BLACK PERCHERONS.
1 BLACK PERCHERON, 2-year-old.
2 STANDARD BRED TROTTERS.
1 NON-STANDARD TROTTER.
1 JACK.
High class individuals, no better sires in Kansas. Their colts tell the story. We are closing out our stallions and are pricing them cheap.
Sutton Farm, Lawrence, Kan.

JACKS AND JENNETS.

REGISTERED, BIG BONED, black Jacks and Jennets.
Fine individuals, best breeding.
PRICE AND TERMS RIGHT.
J. E. Smith, R. R. 3, Kingfisher, Okla.



Kentucky Jack and Percheron Farms

200 head of big bone, Kentucky, Mammoth Jacks; Percherons and saddle horses. Special prices in half car and car load lots. Write your wants or visit our farms. 2500 bushels of bluegrass seed. **Cook & Brown, Props., Lexington, Ky.**

Forty Years a Breeder of High-Class Jacks

We have for sale twenty jacks of the big blocky type, also ten very large, well bred Jennets. **R. M. JOHNSON, BOLIVAR, MO.**

One Belgian Stallion One Jack, 3 years old

3 yearling jacks, and 8 jennets, 2 to 8 years old, all bred and good ones. Write me for prices.
C. T. BERRY, Parsons, Kansas



JACKS and JENNETS

80 large boned, black Mammoth Jacks, 15 to 16 hands, standard. Guaranteed and priced to sell. The kind all are looking for; also good, young Percheron stallion. References: 5 banks of Lawrence. 40 miles west of Kansas City, on Santa Fe and Union Pacific.
AL. E. SMITH, Lawrence, Kan.

Jacks and Jennets

25 head of Black Jacks from 14 1/2 to 16 hands coming 3 to 6 years old; all stock guaranteed, as represented when sold. Also some good jennets.
PHIL WALKER
Moline, Elk County, Kansas.



Big Black Missouri Jacks

Ten head of large, well bred, registered jacks and ten jennets. All of my own breeding. A genuine guarantee goes with each and every sale. Can furnish more if necessary.
HENRY OBERMANN, Freistatt, Mo.
8 Miles N. of Monett.

FOR SALE

2 big Jacks, 4 and 6 years old; weight 1050 and 1150. Black with white points, good bone. 1 imported Percheron stallion, 8 year old, weight 1950 pounds, extra good one. 1 brown road horse, weight 1250 lbs. An extra well broke and stylish fellow; has won in several show rings. Also 9 good black jennets well bred and plenty of bone. 2 Jack colts. This stuff is all good and must be sold as I am leaving country. A bargain for someone. If interested come and look them over. Will sell one or all. No trade. **ROY E. LYND, White Cloud, Kans.**

Boen's Big Bone Jacks

They are from 15 to 16 1-2 hands high. Forty Jacks and jennets of the best and biggest on earth. Four three-year-old jacks larger and better than ever before. The two-year-old jacks are larger than thousands of grown Jacks. Four-year-olds 15 3-4 hands to 16 1-4 hands, standard and weigh from 1100 to 1800 pounds. All have plenty of bone. Will sell Jacks for \$600 that can't be bought elsewhere for \$1200. **ED BOEN, LAWSON, MISSOURI.**

For More Equal Rewards

BY THEODORE ROOSEVELT.

We of the great democracies must make them industrial no less than political democracies. So far as may be we must make the tool user the tool owner. This can only be done by a wide extension of the principle of co-operation; and the principle of co-operation can never be successful unless it includes the hearty and generous acknowledgement of leadership; and there can be no such recognition unless we provide that the special service which springs from special ability and character has a special reward.

In dealing with the army and the navy, we have worked out in rough fashion what I may call the democratic idea of trying roughly to proportion service and reward and yet refusing to recognize intolerable inequality of reward. An admiral or general, a Farragut or Sherman or Sheridan enjoys a material reward perhaps ten times or twenty times greater than that of the enlisted man under him who has reached the highest place to which while he remains an enlisted man he can rise. This inequality represents not injustice, but justice; and the enlisted man worth his salt would be the first to say so; for exactly as the success of the admiral or lieutenant depends upon the character of the enlisted men under him, so their success depends upon the ability of the leader at the head of them. There is no unjust disproportion of reward in such a case.

But at present in the world of industry the difference in the reward of the man at the top and of the man lower down is often well-nigh infinite, and represents a travesty upon justice. And moreover the difference between the reward given the man who merely handles the money and the reward given the man who actually handles the men and machinery, is wholly disproportionate to the difference of service. We should sanely and cautiously but resolutely strive to reduce this inequality and to bring about a condition of affairs more nearly corresponding to justice.

A Kansas Display for Dallas

The agronomy department of the Kansas Agricultural college will send a display to the National Corn exposition at Dallas, Tex., February 10 to 24. It is not expected that many farmers will send displays, for the yields of grain crops last year were too low. This will be the sixth annual show of the National Corn association, and Kansas usually is well represented; it has won many good prizes in past years. The show was held at Columbia, S. C., last year.

The National Corn association is composed of a number of practical farmers, professional agriculturists and business men. It is incorporated for the sole purpose of emphasizing the need of better farming through an educational propaganda, which is called the National Corn Exposition. The exposition consists of many exhibits and demonstrations, which show in detail the practical results of hundreds of experiments which have been conducted by the experiment stations in the past 25 years. Exhibits of machinery, silos, tile drains and the manufacture and use of farm produce are also important features.

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—My exchange advertisement offering an 80 acre bottom farm, run one issue in Farmers Mail and Breeze and brought me 35 inquiries, a number of which I consider good prospects. Yours very truly,
L. L. VROOMAN.
Topeka, Kan., Jan. 2, 1914.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I am having fine trade on my boars, am almost sold out. I sold two today; one for \$45 and one for \$40. My sows and gilts are coming fine. I think I will breed about 70 or 75. I have decided on February 24 for my bred sow sale. There seems to be good demand for hogs this fall even if feed is scarce. I don't believe I ever had a better trade. Yours very truly,
W. R. WEBB,
Breeder of Poland Chinas.
Bendena, Kan., Nov. 18, 1913.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.

54-Percheron Stallions-54

We have fifty-four as good Stallions as can be found in any herd from coming two year to five-year-olds. We can sell a better and bigger stallion for the money than any firm in the business. We fully guarantee every stallion. Write us what you want.

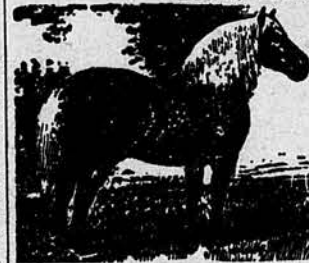
BISHOP BROS., Towanda, Kansas

Towanda is 22 miles east of Wichita on Mo. P. Ry.



Breeders' Sale—400 Registered 400 Horses

In Coliseum, Bloomington, Illinois, JANUARY 27, 28, 29 and 30, 1914. 300 Imported and Native Bred Registered Percherons, Belgians, French Draft, Shire and Clydesdale Stallions and Mares.



100 Head of Imported Stallions and Mares that will land by sale day.
100 Head of Imported Stallions and Mares that have been here a year.
100 Head of the Best Registered Mares that ever went into an auction ring.
50 Head of Imported Fillies, 1 and 2 years old.
100 Reg. Stallions of the very choicest breeding and individuality.
100 Reg. Trotters GRADE DRAFT, Stallions and Mares.
100 Head Ponies Imp. and Native Bred Registered Shetland and Welsh.

Catalogue Ready January 12, 1914.

D. AUGSTIN, C. W. Hurt, Mgr., Arrowsmith, Illinois



STALLION and JACK SALE

Concordia, Kansas, February 4, 1914

Consisting of 3 draft, 2 standard bred, and 1 Coach stallions; also 7 good sound jacks, from 2 to 9 years old. The kind that get the high priced mules. All guaranteed sure foal getters and quick workers. I have handled this stock myself and know them to be money makers, but am knocked out with rheumatism. Write for particulars. Terms, cash or 18 months' time, approved note, 8 per-cent int.

LEWIS J. COX, Concordia, Kan.

Auctioneers—Col. W. Godby, Blackwell, Okla. Col. G. B. Vanlandingham, Concordia, Kans.

A Great Sale of Jacks and Jennets, Cattle, Horses and Mules

Kiowa, Kan., Thursday, Jan. 29, 1914

commencing at 10 o'clock A. M., promptly.

37 Jacks and Jennets

22 Jacks ranging in age from weanlings to 8 years old. 9 head coming three years old; 6 head coming 2 years old; 5 weanlings, one herd jack, black, mealy points 16 1/2 hands high, very heavy-boned, good as can be found anywhere. One 5 year old brown jack, 15 1/2 hands, a good one. 15 jennets, all young and in foal. One jennet with jack colt by side. 20 head of mules, weanlings to 7 years old.

25 Head of Horses

consisting of some good, heavy mares in foal to jack, and some well-broke driving mares. One registered trotting bred mare, four years old, a fine single driver. One fine family mare, 5 years old, weight 1,200 and safe for any lady. Some nice yearling and 2 year old colts. One registered trotting bred stallion, 3 years old, black, weight 1200, well broke, a good single driver. He is by Thornfield, with a mark of 2:10 1/2, is a beauty, and a fine prospect. One registered Percheron stallion colt coming two years old, fine and very large, sire and dam both imported, is one of the best colts you will find for his age.

95 Head of Cattle

15 Head of Jersey Cows and Heifers, all purebred stock, but not registered. 10 head of calves, 70 head of 2 year old steers, all native stock and a nice bunch.

NOTICE: Will keep steers on wheat at regular price per month, if desired by buyer. Sale at farm 1/2 mile from town. Free automobile conveyance.

I. N. GREEN, Kiowa, Barber Co., Ks.

Auctioneers—Cols. Pete Powelson, Bob Harriman and Jno. Snyder.

Lee Bros. Greatest Percheron Sale

Sale Pavillon, Kansas State Agricultural College

Manhattan, Kan.

January 27, '14

40 Percherons IMPORTED AND AMERICAN BRED **40**
Stallions, Mares, Colts

Including our entire show herd and 1913 champions.

REINHARD

A two-year-old Percheron stallion that was first at Kansas and Missouri State Fairs, and first at American Royal, three times reserve champion stallion of 1913, will be sold in sale.

Fifteen Stallions

Including two of our 2-year-old 1913 show stallions, weighing over 2,100 pounds each.

The mares Marcellene and Flora were placed first and second in every show, also undefeated harness pair.



Imported Grand Champion Scipion 27123 (43677)

Madeline and Moneta were first and second in each show in yearling classes. Neta is our undefeated under-a-year filly by Scipion.

SCIPION 27123

(43677) champion of France and America was made champion of the Kansas State Fair, 1913, at the age of 16. Twenty-two grand mares, bred to this great sire, also colts sired by him, go in this sale.

Our Show Record

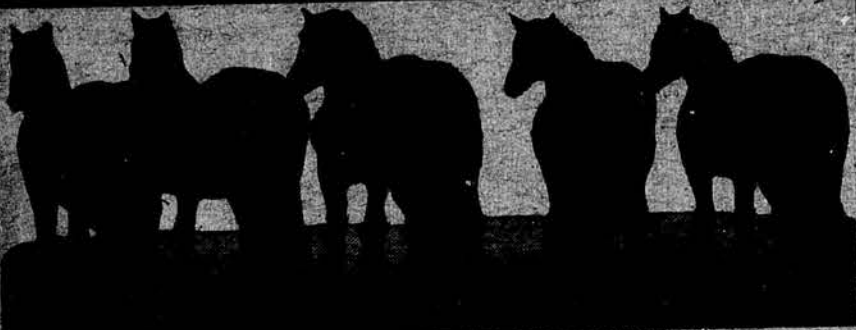
Thirty-two Champions and Reserve Champions out of a possible 44 chances.

One-hundred-thirty First or Blue Ribbons out of a possible 145 chances.

For catalog or other information address

Auctioneers: Harriman, Snyder, Brady and Crews
John W. Johnson, Fieldman.

LEE BROTHERS, Harveyville, Kan.



MARIA AND FIVE OF HER COLTS—ALL GO IN THIS SALE

Percheron Dispersion

Seven Young Stallions, Thirteen Mares and Fillies,
Six Mares Safe in Foal, Mostly Blacks
in Good Condition

Oskaloosa, Kan., Thursday, Jan. 29

Over half of the offering are grandsons and granddaughters of Imp. CASINO. Six mares are safe in foal. Eleven head by CASINEUR 33898, one of Casino's best sons. Casineur has been on our farm for the past eight years and the demand for him is so great that he has been sold at a long price to stand in this community.

In presenting this herd of Percherons at auction we have no excuses or apology to offer, as we feel confident that no better or more carefully selected herd has been offered in Kansas in recent years. We have been breeding Percherons for the past ten years, and in selecting our breeding stock we have been especially careful to avoid the defects most common to draft horses. Neither a bad eye nor a beefy hock is to be found on any of our horses. We have made a special effort to breed the useful kind, and the work on our farm has been done entirely by these horses. Our reason for having this sale is a dissolution of partnership.

We want to send you our catalog. Write for it today and kindly mention this paper to

Snyder & Stalons, Oskaloosa, Kan.

Col. Jas. W. Sparks, Auctioneer.



125 Stallions and Mares Percherons, Belgians and Shires

The West's Largest Importing and Breeding Establishment

More actual ton stallions at my Emporia Sale Barns than any other in the West.

Do You Need a Stallion?

I will save you from \$100 to \$200 on a horse. Am making special prices to make room for another consignment. Look at all the horses you can before coming and then you will know you are getting more for your money than any other offer—more bone, size and quality, for the money. I do an exclusive horse business and to stay in business must satisfy my customers. Therefore a gilt-edge guarantee goes with every horse. Come and stay with us a day or two and compare my horses and prices with those you have seen. Drop a line and tell me when to meet you. Barn close to Santa Fe depot.

L. R. WILEY, Rt. 9, Emporia, Kan.

Northern Kansas Duroc-Jersey Bred Sow Sale Circuit

150 Immune bred sows from three prominent herds. Good morning and evening train service. Catalogs ready. Attend the three sales. John W. Johnson, Fieldman

W. E. MONASMITH'S BIG REDUCTION SALE

IN HIS OWN SALE PAVILION AT HIS FARM TWO MILES NORTH OF FORMOSO, KAN., THURSDAY, JANUARY 29.

THURSDAY, JANUARY 29. The first sale in the circuit and free conveyance to and from the sale. **10 TRIED SOWS, 12 FALL GILTS AND 30 SPRING GILTS**

With much regret it has been decided to sell in this sale the great breeding boar **Kansas Special** and his assistant, **Col. Gene**. **Kansas Special** is one of the most popular herd boars in northern Kansas and is just in his prime. He should have been at the shows last season. **Col. Gene** is a coming sire of real merit.

The sows and gilts are all bred for March and April farrow to these boars. Of the 30 spring gilts three are by **Kansas Special**, seven by **Col. Gene**, three by **Dreamland Col.**, 12 by **L. C.'s Defender**, three by **College Boy 2nd**, and two by **Riverbend Col.** Eight of the 12 fall gilts were sired by old **Bonney K.** The 10 tried sows are of the best of popular breeding and right in every way. Catalogs ready now. Address

W. E. MONASMITH, Formoso, Kansas

AUCTIONEERS—John Brennen, Ned Price.

FIELDMAN—John W. Johnson.

N. B. PRICE'S DISPERSION OF TOPS

AT MANKATO, KAN., UNDER COVER, FRIDAY, JANUARY 30

Mr. Price is leaving the farm which he has been operating for a number of years and for this reason is dispersing his entire herd. The heaviest buyer of top Duroc-Jersey bred sows at public sales and at private sale last winter was N. B. Price and the tops of the entire herd go in this dispersion sale. There will be seven tried sows (the tops of 20 head), a number of fall gilts and 21 winter and spring gilts.

Three Great Herd Boars Included in the Offering

These herd boars represent the leading families of Duroc-Jerseys and are individuals of merit. They have been purchased with care and at great expense to use in this herd. They go to the high bidder without reserve.

The sows and gilts in the sale, as has already been stated are the tops of the entire herd. They have been carefully conditioned and bred with a view to their future usefulness and make up one of the strong offerings, both in breeding and individual merit, of the season. Catalogs ready now. Address

Auctioneer—John Brennen.
Fieldman—John W. Johnson.

N. B. PRICE, Mankato, Kansas

Draft Sale of Immune Duroc-Jersey Brood Sows

From the R & S Farm, January 31, 1914, Smith Center, Kansas

This sale will consist of 60 head of bred gilts and tried sows that are of unsurpassed breeding and quality from the **Golden Model**, **Crimson Wonder**, and **Colonel** families.

At the head of our herd we have **R. & S. Crimson Wonder**, sired by **Crimson Wonder Again** and out of a **Valley King Dam**; **Model Hero**, a half brother of the noted sire **Golden Model 2nd**, sired by **Golden Model Col. Muncie**, sired by **Dreamland Col.**, out of a **Muncie Chief Dam**.

This consignment represents the seven years' experience of selecting and mating for a better production, and we believe that we have accomplished a great deal along this line. We will say that this is the best lot we have ever put through the sale ring, and will be the best lot of this number that will be sold in Kansas this year, they are all uniform in the dark cherry color, the best feet and bone, extra length, fine head and ear and the high arched back.

We have fought the battle through this season's high prices of feed and have immuned our entire herd, and have selected and kept this royal lot of seed hogs and will carefully feed them up to the near spring pasture for you. We want you to come and see this offering and you will have your "Hats Off" to a good lot of useful sows, and we want you to make us some liberal bids.

If you can't attend the sale write for catalog and send your bids to the fieldman and he will see that you get what you want. Sale will be held at the Fair Grounds adjoining town. Catalogs ready.

AUCTIONEERS—Col. Jno. Brennen. Col. N. B. Price.
FIELDMAN—J. W. Johnson.

RINEHART & SON, Smith Center, Kansas

MOUSEL BROS. HEREFORDS

—At Auction—

Cambridge, Neb., Jan. 28

70 Head—40 Bulls, 30 Females

A carefully selected lot, "Hand Picked," including some of the classiest herd bull prospects ever produced on our farm. Show Bulls, Herd Bulls, Farm and Range Bulls of superb quality. All our International winners, some of the best show cattle ever offered at public auction. We are also selling a large number of bred heifers, and cows with calves at foot and bred to noted bulls. Just the place to get foundation stock that is "up to date" and of the most popular breeding. Get a Catalogue at once and for full information address

MOUSEL BROS., Cambridge, Neb.

E. D. Snell, Auct.

J. W. Johnson, Fieldman.



Dispersion Hereford Sale

Council Grove, Kan., Sat., Jan. 24

Our ranch is Sold and Before Giving Possession we must dispose of our livestock and equipment. This means that the well bred, profitable cows reserved for our breeding herd and all the young stock must be sold. **20 Bulls—60 Cows and Heifers**, 40 of the latter with calves at foot and re-bred, together with 20 head each of yearling bulls and heifers make up **One of the Best Sale Lists of Recent Years**. Such cattle as are offered only in Dispersion Sales. Breeding of the select sort, from such sires as **Lincoln 2d** (by **Cherry Boy**), **Lincoln 7th**, **Monnington** (by **Imp. Majestic**) **Dandy Andrew**, **Beau Brummel**, **Beau Mystic 11th**, and others of equal note. **Simpson**, an outstanding sire that has given us part of our show stock during the past three years, will be sold.

50 Poland China swine of the popular medium large type **AT FARM, MONDAY, JAN. 26**. Also 25 Horses, 35 Cows, Feed, Implements, and other equipment. We invite you to attend either or both sales. Catalogues of the Hereford Sale ready. Write for one.

COL. FRED REPPERT, Auctioneer

JONES BROTHERS
COUNCIL GROVE, KANSAS

FENCE AT WIRE MILL PRICES

Get My Big Money-Saving Wire Fence Book FREE

I Sell the Entire Output of My Big Factories on the One-Profit Direct-to-You Plan!!

If you buy wire fence from any local retailer, or any mail order middle-man, you are needlessly spending two dollars where one would bring you the same quantity and quality!

You are needlessly paying two or three profits and two or three expense bills for freight, rent and handling when you buy from local dealers, or mail order middle-men. There is sound reason and logic behind my statement that I can save you from 50 to 100% on the price you have been paying for first quality galvanized wire fence.

In the first place, I buy all of my wire direct from America's greatest wire mills in train load lots, when the market is at the very lowest point. During the dull season of the year, this wire is made up into fence at my big factories in Brazil, Ind., and Ottawa, Kansas, and from these points is distributed in car load lots to my warehouses in Denver, Colo.; Fort Worth, Texas; San Francisco, Calif.; Lincoln, Nebr. Every roll of fence is carefully inspected, measured, and tagged ready for shipment. Every order received by me is immediately forwarded to the nearest distributing point and shipped direct to the customer with only one small factory profit added.

The great national business which I do direct with the farmers all over America, enables me to operate on a small margin of profit—giving my customers the very best wire fence that can be made at a saving of from 50 to 100 per cent on average retail prices, and still have a reasonable margin left for myself at the end of each season's business.

Every Rod Guaranteed Perfect—Money Refunded if not Satisfactory!

Every rod of wire fence that leaves either of my factories, or warehouses, is backed with a positive, iron-clad, quality-proving, money-back guarantee. Only the highest quality spring wire is used, every piece is thoroughly galvanized and warranted to withstand all weather conditions.

Every rod of Ottawa fence is made by my own patented process. The Ottawa non-slip tie is guaranteed to hold under any and all conditions.

You do not take a particle of risk when you send me an order for Ottawa fence. I not only save you from 50 to 100 per cent on what the same quality of fence would cost you anywhere else, but I guarantee that you will be absolutely satisfied in every way with every rod of fence you buy from me. If you are not satisfied for any reason whatever, it is your privilege to return the fence, and I will pay transportation charges both ways, and refund every cent you have paid me.

And that guarantee is in full force for all time—it is just as effective five years from the day you put up your fence, as it is right now. If the Ottawa tie ever slips, or if the fence proves defective, or not as represented in any way, ship it back to me and your money will be refunded. I am more than willing to take all of the risk, because I know that my fence has the sort of quality which justifies every claim I make regarding it.



164 Styles to select from

11c a Rod and Up!

In my big 40 page catalog, you will find illustrated and described 164 different styles of farm, poultry and lawn fence and gates—all styles, all sizes and a grade to meet every need. I claim that my line is the largest and most complete produced by any American manufacturer—and that I can give you greater value for your money than you can secure from anyone, anywhere. I will sell you any quantity you want, from one rod to ten thousand or more, and every rod is backed with the same "satisfaction-or-money-back" guarantee.

Just to give you an idea as to the many real bargains which you will find in my big catalog, I list below six popular styles in fencing with my direct-to-you factory price per rod:

	Per Rod		Per Rod
18 in. hog fence.....	11c	60 in. poultry fence....	25 ³ / ₄ c
26 in. hog fence.....	14c	42 in. ex. heavy field fence	22c
48 in. poultry fence....	22 ¹ / ₂ c	50 in. heavy field fence.	24 ¹ / ₂ c

These are unusual bargains as compared with the price your local dealer would ask you for the same quality fence—but these are not unusual bargains when compared with the other 158 items listed in my big catalog, because every item is a big value bargain which I do not believe you can duplicate anywhere in America.

"Perfect in Every Way"

Carroll, Wyo., Oct. 20, 1913.
The Ottawa Mfg. Co., Ottawa, Kansas.
Dear Sirs: I am well pleased with the woven wire I got of you last Spring and don't believe there is another factory in the U.S. that puts out as good wire at the same price. The wire has proved to be perfect in every way.
Yours truly, C. W. FRIEDRICH.

"Saved Money"

Gilley, Texas, July 10, 1913.
The Ottawa Mfg. Co., Ottawa, Kansas.
Dear Sirs: The poultry and stock fence which I purchased of you a few months ago, has proved entirely satisfactory, and I do not hesitate to recommend it to anyone. It comes up to your claim for it in every way, and I saved a nice sum of money by ordering direct from your factory.
Yours truly, J. J. YOWELL.

Send Your Name for the Free Book Today!

If you are familiar with wire fence prices, you will recognize a genuine bargain in every one of the six items on which I have quoted above. If you are in the market for any quantity of wire fence or gates, you will find it well worth your while to consult my big illustrated price list before placing your order elsewhere.

I don't want the order if I can't convince you that I can give you greater quality and quantity than you can secure anywhere in America for the same amount of money. My big 40-page illustrated book contains full information regarding my plan of factory-to-farm selling; gives you inside secrets about the fence business which you ought to know, illustrates, fully describes and prices in plain figures every one of the 164 different styles of Ottawa fence and gates. The book is sent absolutely free and postpaid, and you place yourself under no obligation whatever by asking for it. It will be money in your pocket if you write for it today. We also manufacture a complete line of gasoline engines, force pumps, wind mills and other farm machinery and appliances. These goods are illustrated and attractively priced in the big 40-page catalog which I want to mail you free. Send your name on the coupon, letter paper, or postal card today. Address

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