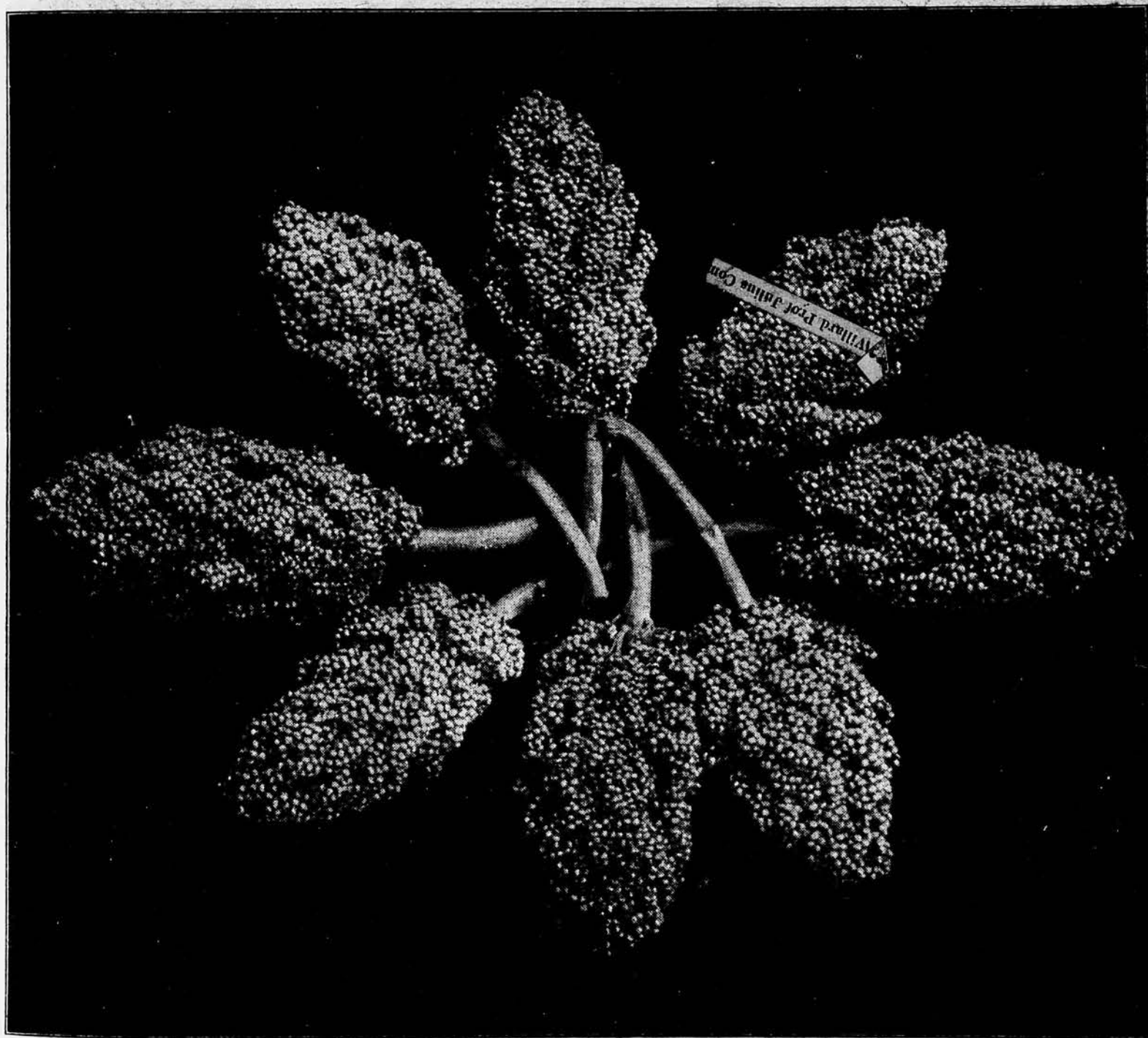


THE FARMERS MAIL AND BREEZE

Volume 42

March 1, 1913

Number 51



Heads of Dwarf White Milo Grown by an Oklahoma Reader of the Mail and Breeze. See Page 6

NEXT week's Mail and Breeze will be a Silo Number with Dairy Annex. Pictorially and otherwise it ought to be and probably will be the most reliably informing and interesting exposition of what Kansas is doing with the silo that has ever been published. The most successful stockmen and farmers of the state have contributed to it, among them James Carman, Phillips county's horseman, who feeds silage to his weanling colts and brood mares; George Fernie of the Fernie Ranch, Reno county; Moses Brothers & Clayton, Barton county's cattlemen; C. J. Solt, Washington county; C. L. King, Comanche county, and others. Particulars elsewhere.

NEXT WEEK THIRD ANNUAL SILO NUMBER WITH DAIRY ANNEX

SIDNEY R. FEIL, Pres.
Registered Pharmacist
Graduate of the
National Institute of Pharmacy



Tell Me How Many Head of Stock You Have and—

I'll feed them 60 days before you pay. I'll show you how to make your farm animals grow faster—thrive better—put on more flesh on no more feed—make you more money.

I'll Rid Them of Worms or No Pay

I'll drive out the blood-sucking, life-sapping, disease-breeding parasites which multiply in the stomach and intestines, killing off your hogs and sheep, starving your horses and cattle and stealing your feed and profits. I'll send you enough Sal-Vet to last all your stock 60 days. Simply put it where all your farm animals can run to it freely and they will doctor themselves. Send no money—just the coupon.

Sidney R. Feil President



What SAL-VET Is and Does

Sal-Vet is a wonder-working medicated salt which completely rids farm animals of their greatest enemies—the stomach and intestinal worms. These deadly pests are the cause of 90% of all live-stock diseases. They keep farm stock in a poor, weakened, money-losing condition—they are the first step to hog cholera, swine plague, horse plague and other contagious diseases.

How SAL-VET Prevents Diseases

Sal-Vet prevents heavy losses when disease breaks out in your neighborhood because it kills and expels these deadly, life-sapping pests and puts every animal on your farm in a healthy, vigorous, worm-free condition—enabling them to better resist these deadly plagues. It sharpens the appetite, improves digestion and makes all stock grow fast into profit because it helps them get the good of all their food. Being a salt, animals like it and run to it freely—and

THEY DOCTOR THEMSELVES!

It requires no starving—no drenching—no dosing—no trouble at all. Leading agricultural colleges and all prominent live stock authorities endorse it.

Let me send you a 60-day supply without a penny of pay in advance.

Send No Money—Just the Coupon

SIDNEY R. FEIL, Pres.

THE S. R. FEIL CO.

Dept. 2-1-13 Cleveland, O.

Ship me enough Sal-Vet to last my stock 60 days. I will pay the freight charges when it arrives, report results in 60 days and will then pay for it if it does what you claim. If it does not, you are to cancel the charge.

Name _____

P. O. _____

Shipping Sta. _____ State _____

Number of _____
Sheep _____ Hogs _____ Cattle _____ Horses _____

All I ask you to do is to fill out the coupon, tell me how many head of stock you have and mail it to me today. I'll ship you enough Sal-Vet to last all your stock 60 days. You simply pay the freight charges when it arrives and at the end of 60 days report results. If Sal-Vet does not do what I claim you won't owe me a penny. Send the coupon NOW. Address

SIDNEY R. FEIL, Pres.

THE S. R. FEIL CO. Dept. 2-1-13 Cleveland, O.

60-day shipments are based on 1 lb. of Sal-Vet for each hog and sheep and 4 lbs. for each horse and head of cattle, so near as we can come without breaking regular packages.

Proof That Proves From Actual Users

"Sal-Vet has been of great service to us; it has kept our hogs and pigs free from worms and, in addition, proved to be a splendid tonic."—J. B. EBBY, Agriculturist, Southeast Alabama Experiment Station, Abbeville, Ala.

"A lot of hogs died in this county from swine plague or cholera. Some of them were within three miles of me, but I have been feeding Sal-Vet, and have not lost a single hog. They are all doing well, eat all I give them and have good appetite for more."—J. B. EBBY, Kingman, Kans., Breeder of Pure Bred Poland Chinas.

"For their own good, I would recommend Sal-Vet to all sheep men. It will destroy every stomach worm in the flock and keep your sheep and lambs free from them and at the same time keep your flock in the pink of condition and health."—ROBERT S. BLASTOGE, Mgr. Sheep Dept., Walnut Stock Farm, Donerail, Ky.

"Your Sal-Vet has done all that you claim and perhaps more. Hog cholera has been all around me and I have had not one sick hog. I cannot praise Sal-Vet too highly, and I do not hesitate to recommend it to all hog raisers."—O. A. KELLOGG, Troy Grove, Ill.

"Sal-Vet is a wonder. I had fourteen shoats that would not fatten. I fed them Sal-Vet and I was very much surprised to see come from them rolls of worms from twelve to fourteen inches long. These shoats began to mend at once and are now doing finely."—J. E. SNELL, Flora, Ind.

"I am very much pleased with the results from feeding Sal-Vet. I have had no sick hogs, while my next neighbor has lost over thirty from cholera. I surely will never be without Sal-Vet on my place again."—BOY C. TRUITT, Lincoln City, Delaware.

"Have been feeding Sal-Vet for the past sixty days, and am much pleased to say that my pigs did better this winter than ever before. My neighbors have been feeding their hogs with other remedies, and their hogs have been dying right along, while I have not lost a single one of my Sal-Vet fed pigs."—(Signed) D. S. JONES, Venedocia, Ohio.

"As a stock tonic and worm remedy I do not hesitate to say that Sal-Vet is unsurpassed by any compound I have ever given a trial; and as you know, my business as Veterinary Editor of the National Stockman & Farmer, and the Tribune-Farmer of New York, requires me to test many tonics and remedies for animal ailments. You are at perfect liberty to say, that I consider Sal-Vet one of the most valuable compounds as yet discovered for use by the live stock owners of this country, and were it to be used more generally the worm family in the animal kingdom would soon be nothing to fear, and colic in horses would be far less in evidence than at present."—C. D. BMEAD, V. S. Inspector, N. Y., New York State Veterinarian, Veterinary Editor New York Tribune-Farmer, Veterinary Editor National Stockman and Farmer.

"After feeding Sal-Vet to my horses and cows for a month, I am glad to give this preparation my hearty endorsement. In order to have reliable data before expressing my opinion about Sal-Vet, I gave it to 21 cows in their feed for a month. Eight others were given no Sal-Vet at this time. At the end of thirty days test, the 21 cows that had been given Sal-Vet showed a more or less degree of health that was really remarkable. The eight that received no Sal-Vet have a more or less listless appearance, showing poor nutrition and doubtless are due to worms or indigestion. Outside of less due to worms or indigestion the same result."—L. H. OOOCH, Editor Practical Farmer, Philadelphia, Pa.

PRICES 40 lbs., \$2.25; 100 lbs., \$5.00; 200 lbs., \$9.00; 300 lbs., \$13.00; 500 lbs., \$21.12. No orders filled for less than 40 lbs. Never sold in bulk; only in Trade-Marked Sal-Vet packages.



THE FARMERS MAIL AND BREEZE

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



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PANAMA'S GREAT CANAL AS A KANSAN SAW IT

I ASSUME the readers of the Mail and Breeze are familiar with the story of the canal as an engineering project, and a detailed description is unnecessary. But something concerning the present status of the work and the more picturesque features of the canal, as they impress a Kansan on his first trip to Panama, may be of interest. The popular impression of a canal is a long, straight ditch of uniform width, but the Panama waterway belies its name. It is, in fact, a water-bridge over the Isthmus by which it is proposed to lift great vessels from the Atlantic to a height of about 85 feet above the sea and gently lower them again on the Pacific side.

More than 60,000 people of every race and tongue who are anxious to view the canal before the water is turned in, and the magnitude of the work hidden from view, have visited Colon during the last 12 months. And it is now they can best behold American brain and brawn overcoming the seemingly insurmountable obstacles which nature opposed to the linking of the East and West. The sight fills every patriotic American with a realization of the power and stability of a government which can successfully prosecute this tremendous undertaking. It will stand as the product of American genius, as a monument to the intelligent Americans who have worked on the canal the past eight years, and who know their business. Enthusiastic approval is now taking the place of the pessimistic prophecies by skeptical foreign critics heard so often in former years. Distinguished engineers from England, France and Germany who have come here the past year to look into the spectacular feats of their American brothers, say that its success is undoubted, and all now agree that a sea-level canal would have been a great blunder.

The canal is about 2,350 miles southeast from Topeka. Leaving Topeka on Thursday afternoon you are in Colon on the morning of the next Thursday. The cost for the round trip, including railroad, Pullman and boat fare, with meals on the boat for 15 days is about \$150. This allows the tourist four days at the canal, which is all the time anyone cares to give. I found the work progressing in record-breaking style. Dynamite and steam shovels have blasted and plowed their way across the Isthmus to good purpose, and although the canal will not be formally opened until January 1, 1915, Colonel Goethals hopes to have it ready for the first vessel to pass through on September 25, 1913, the 400th anniversary of the discovery of the Pacific ocean by Balboa, whose exploring party was the first to cross the Isthmus. I think it very doubtful, however, whether the canal

**The Nation's Commerce and the West
Soon to Feel Its Quickening
Influence**

BY ARTHUR CAPPER

Editor in Chief and Publisher of
Farmers Mail and Breeze

The Canal's Promise

Now that the canal is within measurable distance of completion, the country is becoming more keenly appreciative of its stupendous significance. The world very properly regards the Panama canal as the greatest artificial waterway of all the ages, a realization of the dreams of centuries, but it is only when one sees it with his own eyes, that he obtains a true conception of the colossal nature of the enterprise.

Colonel Goethals expects that not less than 2,500 vessels, or a daily average of seven, will pass through the canal the first year. It is conceded the enterprise cannot be profitable from the standpoint of direct returns. Already the government has expended more than 300 million dollars; this amount will probably be increased to 400 millions. The cost of maintenance, according to Colonel Goethals's estimates, will be about 3 million dollars annually, and this, with the annual interest on the bonded debt, will far exceed the receipts. But Colonel Goethals confidently believes that no other great undertaking has had any such effect on the power, prestige, commerce and opportunity of a nation as the Panama canal will have on the United States. The Gulf, Atlantic and Pacific seaboards will probably see immediate benefits and Colonel Goethals says the whole country will feel its quickening influence later. He also thinks it will double the efficiency of the United States navy. Nineteenths of the people who visit the canal become thoroughly converted to the wisdom and practicability of the enterprise, though they were previously skeptical.

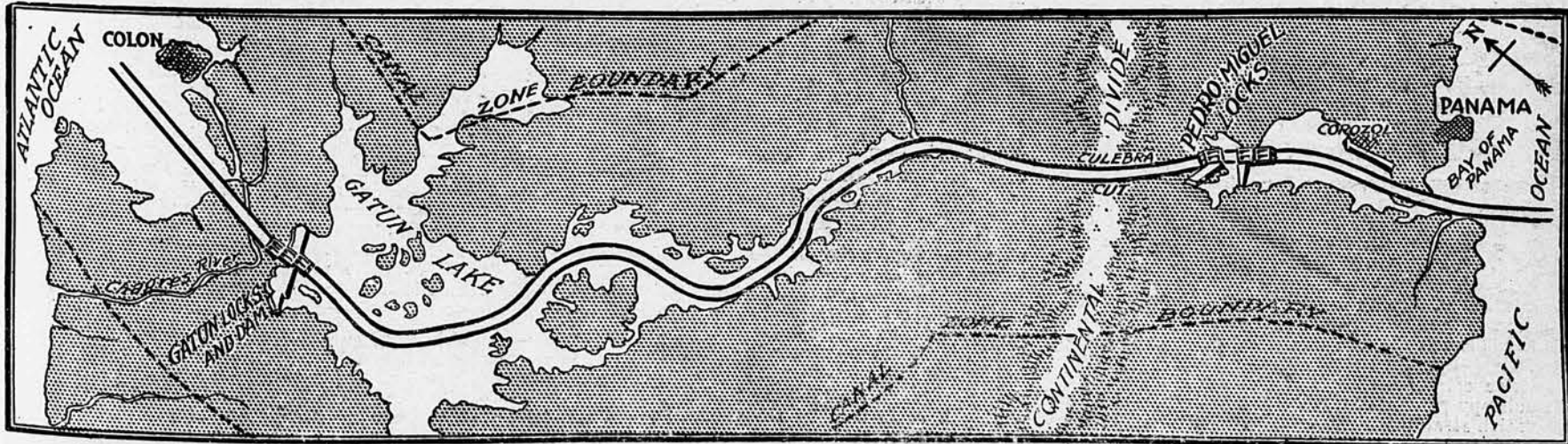
will be completed this year. The great landslides in Culebra cut are undoubtedly delaying the work.

The government is now running special sightseeing trains over the spectacular portions of the canal. On these trains are trained lecturers who tell you just what you want to know. About 15 miles of the canal is at sea level, a large portion of which consists of channels dredged at each end. Out of a total of 50 miles, about 30 miles of its length will be through the waters of a large lake covering 164 square miles formed by the damming of the Chagres river at Gatun. The gigantic barrier which holds this vast body of water to a surface level of 85 feet above the sea, is the immense concrete and earthen structure, the Gatun dam, 135 feet high and over a half-mile thick at its base.

In the construction of the Gatun locks and dam, which are the dominating features of the canal, nearly 5 million barrels of cement, sufficient to build a wall 12 feet high and 8 feet thick from Topeka to Oklahoma City, have been used. The side walls of the Gatun locks may be compared in height to the seven-story Mills building in Topeka and are about six times as long. The ponderous mechanism of the great triple flight of locks overwhelms the visitor with its magnitude and majesty. A simple pull of a small switch is sufficient either to close or open a 700-ton gate, the operation being perfectly automatic. Almost as impressive is the wide-world discussed Gatun dam, which extends across the Chagres valley from the locks to the hills on the west, forming the Gatun lake, in which the water will be backed up 32 miles, creating the largest artificial body of water in the world. This is the world's greatest dam in reality an artificial mountain, built for the purpose of controlling the resistless floods of the Chagres river with a record of rising 25 feet in 24 hours; it is 1½ miles long, a half-mile wide at its base, and 100 feet wide at the top. The canal lock instead of the sea-level lock was adopted because of the difficulty of controlling this torrent of water from the Chagres; the great Gatun dam solves the problem.

The Culebra cut, which proceeds 9 miles in almost a straight line through the backbone of the continent, is overwhelmingly interesting with its mighty scenic canon, an impressive artificial gorge in which are employed regiments of steam shovels and armies of railway dump cars. Every minute 12 carloads of rock and gravel are torn from the earth by mammoth steam shovels; every hour 1,600 pounds of dynamite are exploded. More than 2 million cubic yards of

(Continued in Page 6.)



The canal is, in fact, an immense water-bridge 50 miles long over the Isthmus, by which it is proposed to lift great vessels from the Atlantic to a height of about 85 feet above the sea and gently lower them again on the Pacific side. A map of the canal shows Colon and the Atlantic Ocean apparently where the Pacific Ocean and Panama should be. The explanation is that the Isthmus is almost in the form of a letter S and at this point the two oceans are north and south of each other instead of east and west. From Colon on the Atlantic side, the canal takes a generally southeasterly direction to Panama on the Pacific. See arrow in upper right hand corner of the map, indicating points of compass.

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

SPECIAL NOTICE TO ADVERTISERS.

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



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

CONDITIONS Since the last issue matters have been moving fast but not unexpectedly in Mexico. It was evident that the government of Madero was nearly at an end. I thought, perhaps, he would be able to hold out a little longer than he did, but that he must fail soon was certain.

The new government is simply the coming back of the old order. It is the intention to re-establish the despotism of Diaz that was overthrown two years ago.

What the final outcome will be remains to be told. Order will probably be established and a kind of peace will prevail, at least for a time in Mexico. Madero, in my opinion, had good intentions, but he lacked the strength to carry out his program.

The trouble with Mexico is the injustice that has prevailed for centuries, which has kept the masses ground down in hopeless poverty and ignorance, which has deprived them of anything like a fair opportunity. A few men own the resources of the country and exploit the masses without mercy. These masses rendered desperate, follow blindly any leader who offers them relief, but are too ignorant to act in a way that will better their own condition.

Landlordism is the bane of Mexico. If it were possible to divide the vast estates to give the masses a fair opportunity to own their lands which they cultivate; to school their children; to build for themselves homes; to open to them the doors of opportunity, a change would come over Mexico that is now deemed impossible.

A generation from now would see Mexico filled with an industrious and prosperous people who would be intensely loyal to their government and with no inclination to revolution and violence.

Under present conditions why shouldn't the Mexican people be a revolutionist? What has he to lose by revolution?

Ireland offers a striking object lesson that might well be heeded in Mexico. For generations Ireland was cursed with a system of landlordism about as bad as any in the world. The fertile lands of the island were owned by foreign lords who were represented by resident overseers, whose business was to get as much as possible from the Irish peasantry. If the peasant undertook to improve the lands he tilled it meant only more rent. As a result poverty almost unspeakable was the rule among the peasantry of Ireland.

Famine often prevailed and starvation carried off the unhappy peasants by the tens of thousands. The population steadily declined. The flower of the youth migrated to other lands, especially to America, and here demonstrated that when given a fair opportunity they could and did become prosperous and forceful citizens. Everywhere the Irish immigrant or his immediate descendants were in evidence.

The first immigrants built the railroads of the

country, but their descendants do not work on the section. They are among the leaders in every line of enterprise. The trouble with Ireland was not in the character of the people, but in lack of opportunity.

At last came the land act that permitted these same tenants who had lived in abject poverty to buy their lands at a moderate price and on long-time payments. The result has been marvelous. Prosperity has succeeded poverty. Content has succeeded discontent.

There is no longer any considerable sentiment in favor of revolution in Ireland. The country is being rapidly developed. Immigration has decreased, showing that the Irish are better content to stay at home.

If a liberal policy were adopted in Mexico a generation from now would show a change something similar to the change in Ireland. When I speak of a liberal policy I do not mean that a republic like ours should be established right away. The people are not ready for that. I mean a liberal and just policy that will give the masses a chance; a policy that will permit them to acquire homes and education. The old Diaz style of government will never bring permanent peace to Mexico or general prosperity.

Since the above was written the government of Madero has fallen and he assassinated.

THE DOMINION OF THE JEW.

In the last number of McClure's Magazine is a most interesting article on the development of the power of the Jew in the United States. The information in the article may not astonish other people, but I confess it was astonishing to me. This race of people, in most countries oppressed and despised, seems to be fast coming to the point of dominating the business of this country. In the city of New York are a million Jews. In the city of Chicago they number hundreds of thousands. Most of them came to this country poor immigrants, about the poorest of the poor. Today Jews exercise a dominating influence in practically every line of business enterprise. The great trade in ready-made clothing is absolutely controlled by Jews. The great department stores are falling into their hands. They are fast becoming, if they are not already, the most extensive owners of real estate in New York City and some of the other great cities of the country. The mail order business is coming under their dominion. The theatrical business of the country, including the moving picture business, is controlled by Jews.

The whisky trust is in the hands of the Israelites. Next to the banking house of J. P. Morgan & Company the most powerful financial institution in the country is owned by Jews. They have extended their operations to the great railroads and the Harriman group of railroads is controlled by Jews. It may not be generally known, but seems to be a fact, that the greater part of the offices in New York City have been put under civil service and the Jews have won out in the competitive examinations and now fill the major part of these offices.

We always think of a New York policeman as an Irishman, but it is said that among the patrolmen Jews are becoming more numerous than sons of the Emerald Isle. The most successful lawyers in New York are Jews. And strange as it may seem even the prize fighters are many of them Jews masquerading under Irish names, if the writer in McClure's is correct.

The Jew who has been kicked about and oppressed in all the leading nations of the world, except ours, is the last man you would think about as either a policeman or a prize fighter. The Jew has arrived at this commanding place in finance by dint of remarkable industry, economy and shrewdness. The great banker, Seligman, started his career in this country as a peddler, tramping about with a pack on his back.

The Jew lives and saves where an American would starve to death. He comes to this country to work and save. He works. His wife works. His children work. He first, perhaps, rents a tenement house; lives in the poorest room in it; does the janitor work himself with the help of his wife, who acts as scrub woman, and performs other menial tasks. He rents the rest of the tenement for enough so that he gets a profit.

In the course of a few years he has saved enough to make a good payment on the purchase price of the tenement and then goes on with his wife doing the work of porter and janitor and saving his money until he has paid out on the property. Then he adds other property. In a few years, comparatively, the poor Jewish immigrant has become a wealthy property owner.

We are accustomed to do a good deal of boasting about the superiority of the Anglo-Saxon race. In the past we have been, but if the Jew continues to grow in influence and power during the next 50 years as fast proportionately as he has during the past 50 in this land, he will, speaking collectively, dominate the business of the country in every line worth dominating and likewise will run the government.

If you live to see the year 1962 it will not be surprising if some man by the name of Solomon Levi occupies the presidential chair and a man by the name of Isaac Goldstein is secretary of state and another man by the name of Jacob Rothschild is secretary of the treasury, and another by the name of David Rosenthal is secretary of the interior and Benjamin Steinmetz is secretary of commerce, and an-

other by the name of Abraham Leweshone is attorney general.

If a standing army is still in vogue in that day a Jew will be chief of staff. All the other officers of the line will be descendants of Abraham and the rank and file will be made up of degenerate offspring of the proud Anglo-Saxon race. The Jew will run the government, own the property, and the proud Anglo-Saxon will be working for him at such wages as the Jew sees fit to pay.

RECORDING TAX ON MORTGAGES.

I do not know as I write this whether the legislature will finally remove taxes from mortgages and substitute a recording fee in place of the old tax or not. Of course, when I speak of the old tax on mortgages I use the term that is generally understood. Theoretically there is no such thing as a tax on mortgages. The tax is supposed to be levied on the note for which the mortgage is merely a security.

It has been urged that this will make money cheaper in the western part of the state. I hope that will prove to be true if the experiment is tried, but I do not believe it will. I think the effect will probably be to raise rates of interest rather than lower them. I have not much doubt that it will drive eastern money out of the state to some extent and that lenders of home money will exact a larger rate of interest than they do now.

Eastern money is not lent in western Kansas and a good many persons who live out there think that by taking the tax off mortgages and imposing a nominal recording fee instead of the present tax, money lenders will be induced to lend their money at as much less than the present rate as the present tax amounts to.

I have said that I hope that will be true, for certainly it would be a benefit to the borrowers out there if rates of interest were reduced. But when you come to think it over, why should you expect that the interest rate will be reduced? Eastern money will not go out there any more than it does now. The local money lenders will have the field to themselves just as they have now.

The present demand for money out there seems to be greater than the supply. Then why do you expect that the money lenders will reduce their rates? I think it will be found that they will get just that much more income from the money they lend and that the loss in taxes which, it is estimated will amount in the state to somewhere near \$400,000 per annum, will be just that much additional burden laid on other classes of property.

Taxes on mortgages, or strictly speaking, on mortgage notes in the state of Kansas, amounted last year to more than \$600,000. No one estimates so far as I have heard, that the recording fees on mortgages will amount to more than \$250,000. Some estimate that it will not amount to much more than half that amount. If the legislature finally this week changes the method of taxing mortgages from a direct tax on the mortgage like any other property, to the recording fee, I think this will result: First, some foreign money now lent will be withdrawn from the state. Second, the state will lose somewhere in the neighborhood of \$400,000 per year in taxes, which will have to be made up by increasing the taxes on other classes of property. Third, interest rates will not fall, but on the contrary will probably rise. Fourth, the borrowers will not be benefited, but the money lenders will be.

Now, experience may prove that I am mistaken. If the new law is to be tried I most sincerely hope that I am, for the borrowers are certainly bearing as heavy a burden as they can stand now, without having the rate of interest increased on the one hand and their taxes increased on the other.

Kansas has an object lesson in the matter of municipal bonds. A few years ago the legislators concluded that it would be a benefit to the municipalities if their bonds were relieved from taxation. They reasoned that the rate of interest on municipal bonds would be reduced to the amount of the taxes taken off. That certainly did look like a reasonable conclusion. But the fact is that municipalities are not paying a less rate of interest on their bonds than they did before.

Kansas municipal bonds bearing 4 per cent or even less than that sold before the law was passed exempting them from taxation at par and sold readily. Do you know of any municipal bonds being issued now that bear less than 4 per cent interest? I do not. In fact, the interest on municipal bonds is rather higher now than before the exemption law was passed. It may be that there is a greater demand for money and the interest rates generally have risen, but whatever the reason the fact remains.

I do not, therefore, expect any relief from the proposed law. In principle it is not equitable. Why should the money lender be placed in a favored class?

Not long ago a professor of economy in one of the eastern universities wrote an article on the declining value of gold. He, therefore, advocates a changeable gold dollar. That is, he would have the gold dollar made bigger as the volume of gold grows greater, and I presume made smaller when the volume decreases.

That refutes the old theory of the stability of the gold dollar. It is an acknowledgement that after all gold is just a commodity which increases or decreases in value according to the amount of it on the mar-

ket. And as people read that article they will ask themselves, perhaps, Why should one commodity of changeable value be made by law the standard by which the value of every other commodity must be measured?

Is it fair that one kind of property should be so favored? We know, as a matter of fact, that it would be utterly impossible to transact the business of the world with gold money. We know that for every dollar of gold money in existence there are a hundred credit dollars that are performing the functions of exchange. We know that it would be utterly impossible to redeem this vast volume of credit with gold if we so desired, and, what is more, nobody so desires.

It is within the power and a proper function of the government to render fluid the credit of this country; to take off the backs of the people the enormous and ever-increasing burden of interest; to start public works that will give profitable employment to every person who is willing and able to work; to develop our resources so that the wealth and production of this country will be doubled, perhaps more than quadrupled.

But will that be done? Some time, yes—but let it be remembered that the people who make money by gathering interest in some form or other are the smartest, most powerful and resourceful people in the world. They understand how to obtain legislation they want and how to block legislation they do not want. The people meantime are kept divided by senseless political prejudices.

Some of them swell up and strut around and call themselves Democrats, thinking that there is really something magically important in the name. Others boast that they have been Republicans all their lives and talk as if nothing could possibly be accomplished except through the grand old party. Progressives are new yet and not so hidebound, but I am not certain that they have any definite program, nor have I seen where the leaders have outlined a policy that will relieve the country from the grasp of the interest gatherers. The Socialists have some good ideas along with some that are impractical, but they, too, in most cases, are inclined to be too narrow and dogmatic.

While we talk of liberty and equality and the rule of the people in general terms, we do not seem to me to be getting at the real trouble. The interests that thrive on gathered interest are not very much concerned over high-sounding generalizations. They are content to let the talkers talk, meantime they are saying nothing, but working effectively in their own interest.

I believe people are doing more thinking, and more intelligent thinking, than they ever did before, but I am not deluding myself that this burden of interest is going to be lifted right away.

DEFENDS THE CONSOLIDATED SCHOOL. A few weeks ago a letter written by Mr. Church, of Cherryvale, was published in this department. Mr. Church criticised quite severely the consolidated school in his neighborhood, claiming that it was vastly more expensive than the old separate school district plan and less efficient. Also that it caused a great deal of inconvenience and hardship to the children living on the outskirts of the district. He stated that some of them had to get up between 6 and 7 o'clock and be at the place where the wagon would call for them at 7 o'clock and ride six miles to school in all sorts of weather. On his route there are some six children who have to endure this kind of hardship.

But the most serious part of his complaint was that the school is not doing good work and that after several years' trial seven out of every eight of the patrons of the school would prefer to go back to the old separate school district plan.

I have here a letter from A. D. Day, who says that he has lived in that neighborhood for 33 years, and who strongly defends the consolidated school. He calls attention to the fact that four out of the six pupils mentioned by Mr. Church as having to ride six miles to school are non-residents of the consolidated district and in order to enjoy its advantages the parents of these children pay \$5 per month for tuition and cost of hauling them to school rather than send them to the school in their own district.

If the consolidated school is a failure, as Mr. Church asserts, Mr. Day thinks it rather remarkable that these parents should not only send their children so far to school but should be willing to pay the very considerable burden of tuition and cost of transportation, for it must be admitted that \$5 per month per child is a very considerable burden on a farmer.

The consolidated school, according to Mr. Day's letter, employs five teachers and is doing good work. He also denies emphatically that there is any considerable dissatisfaction among the patrons of the school and estimates that not more than seven persons all told in the consolidated district would be willing to go back to the old plan instead of seven-eighths of the patrons, as Mr. Church estimated.

So there you are. I am not personally acquainted with either Mr. Church or Mr. Day, nor do I know anything personally about the working of the consolidated plan in that particular case. I realize that there must necessarily be some inconvenience connected with the operating of a consolidated district, but on the whole I favor the plan.

When I was considerably younger than I am now

I taught six winters in country schools. I had classes ranging all the way from the alphabet to algebra and higher arithmetic. As I now recollect I had six classes in reading, two or three classes in spelling, four classes in arithmetic, two or three classes in writing, two classes in geography, two classes in grammar, one class in algebra and one in higher arithmetic. All the lower classes in reading and spelling recited at least twice a day. The average time for a recitation was about 10 minutes. It goes without argument that the recitations were hurried and inefficient.

In some cases the teacher in the country school has plenty of time. In fact, has too much time. I have known cases where a teacher in a country school had only four or five scholars. Such a school becomes inexpressibly lonesome both for the teacher and the pupils. There are not enough of them to excite any enthusiasm either in work or play. These conditions have made me favor the consolidated district plan.

I realize some of the difficulties, but think there is no reason why they may not be overcome. With better roads the auto-truck will supplant the horse-drawn wagon at all seasons except, perhaps, a very few days when there may be deep snows or the roads may be exceptionally muddy.

THE STANDING ARMY. The following letter has been received by the Mail and Breeze from a subscriber at Atlanta, Kan.:

Editor Mail and Breeze—Will you please write on the following subject: What are the advantages and disadvantages to the United States in maintaining a large standing army and navy?
W. L. WILSON.

Personally, I do not believe at all in a large standing army or a large navy. Presenting first, however, the reasons advanced by those who do believe in a large standing army or navy, they are about as follows: We have become one of the great world powers and therefore must be prepared to cope with them by force if necessary, hence must have a standing

There are too many useless, conflicting and ambiguous laws. Let's have simple justice, a square deal as between man and man.

—ARTHUR CAPPER.

army ready for war, in case war should be declared, and that army must be sufficiently large and well-equipped to meet the army of any other great power.

The same line of reasoning is used by the advocates of a great navy. Other great powers are building great navies. We must do the same in order to hold our place as their equal among the powers. These persons assume that peace can only be maintained by being so well prepared for war that no other nation will dare to attack us. They further urge that modern armament is of such a character that it would be impossible to prepare for war after war was declared and that in case a quarrel should occur, let us say between this nation and Germany, unless we had a vast standing army and navy Germany would whip us before we could get started to fight and dictate terms of peace to us, no matter how humiliating, which we would be forced to accept.

The fallacy of this line of reasoning, to my mind, is apparent. Commerce is a vastly better security against war than armies and navies. We had better put our efforts into extending friendly trade relations with other nations than into the making of warships and guns to fight them.

If it is true that the only way to preserve peace with other nations is to be ready at any time to whip them in war, then our present policy is particularly stupid. We are neither prepared for peace nor war on that theory. Our standing army, including all the state militia, is not more than one-tenth the regular standing army of Germany or France and nowhere near equal to that of Great Britain. Our navy is not quite one-third as large as the navy of Great Britain and only about half as large as that of Germany.

In order to maintain peace, according to the theory of the advocates of standing armies and navies, we should increase our expenditure for army and navy from about 250 million dollars per annum to more than 1 billion dollars per annum and should withdraw from productive industry more than 2 millions of men.

No advocate of the prepare-for-war-in-time-of-peace theory dares publicly to carry his theory to its logical conclusion, for he knows that the people of this country would not stand for it.

It does not follow, however, that there should be no such thing as military training in this country. I would not be opposed to a reasonable amount of military training in our schools. There are times when it may be necessary to exercise military power. Right now Mexico seems to have nearly reached the point where interference may be necessary.

It is repugnant to our sense of right and justice that the present reign of blood and anarchy should continue indefinitely in Mexico. It may become necessary, and that very soon, to go down there and re-

store peace and justice in that unhappy country, just on the same theory that you would not be willing to allow a neighborhood riot to go indefinitely even though it might not be your own neighborhood.

This, however, does not call for a vast standing army. If intervention in Mexico does really become necessary, if the small army we have now is not sufficient a volunteer army could be mustered and sent down there within two months at the outside.

Standing armies and huge navies are a curse. They are an impeachment of our civilization and a vast and useless burden on the back of productive industry.

ANOTHER WORD Editor Mail and Breeze—Your editorials and most of the published articles upon Socialism on your editorial pages fail to consider the real basis and reason for the modern movement of Socialism. That it is a result, and must continue a developing result, of the change from the old simple hand tools to the machines in all fields of production, has not been well considered by most of the articles on your pages. The thoughts there seem more along the line of "Would it be better?" "Would it be practical?" etc., etc.

Today's Socialism is a result of machinery, and if machinery is to stay a factor in our lives, Socialism is sure to be a factor. Machine production is compelling the workers to Socialism as surely as did economic need ever compel change in any nation in history.

If you can spare an old Kansan a bit of space in the paper I like, I should be pleased to state one of the phases of the industrial development of the past hundred years that is driving the workers to the Socialist position:

As the simple hand tools changed to machines they all left the possession of the workers, and all the mass of workers became dependent upon a very few owners for a chance to live. Let us illustrate:

See the shoe industry of 70 years ago. A large per cent of the workers were owners and managers, and apprentices who lived with the family of the employer and had no interest but that of the employer. With the factory-machine process of today, every worker is a wage-worker; the owners are very few. The whole army of workers is dependent upon these few for their jobs—for their lives.

See the tanneries of some 70 years ago. A large per cent of the workers were owners and managers. Today, every worker in this industry a wage-worker dependent for his job, the owners a small per cent of those connected with the industry.

The spinning of yarn, the weaving of cloth, the making of clothing—all done in the home of our grandparents. Today every worker a dependent wage-worker. The thousands dependent upon the few owners for their jobs. So it has gone in all lines of industry. The tools grown into machines have run away from the workers. And the process continues. The higher machinery develops the larger the per cent of the population must, while this profit system lasts, become dependent upon an ever smaller per cent of the population for a chance to live.

How will the workers look upon this inevitable result? First, their work is no longer a joy. The workers become mere profit-makers for the owners. They see this. The workers become mere tenders of machines—merely tending the machine that makes shoe heels, or can tops, etc., hour after hour, day after day, through their years of work. They fight to be free from such dullness—they fight for life.

Machinery has made skill useless—any worker tends the machine, so in their fight for life it is easier for all workers to unite—skill no longer making "aristocrats of labor." The workers no longer work with the employer, nor as apprentices working and living with the employer. The whole of the work falls to the workers who are wage-workers. The workers thus come to see that they are the important factor to society—that they are the basis of social welfare; there arises ever more and more the question if it is "right" to sacrifice their work, their abilities, to an "owner" who does not even need to see the mill or factory or mine in which they work.

As the tools changed to machines they drove the workers from the small individual work to the mass-work in factories. They unite in making the machinery, they unite in using the machinery, and the development of machinery will compel them to unite in owning and controlling the machinery in order to control their lives.

Let any worker ask himself if it can be well for society to continue as at present where an ever smaller per cent of the people become the economic masters of an ever larger per cent of the people? That the whole mass of the population must get its living only by permit of a few industrial kings? He will choose social ownership of socially-needed things.

Chesterfield, Idaho.

GEORGE F. HIBNER.

HE IS SURE HE WANTS IT. Editor Mail and Breeze—Have just read your second article on government loans and truly believe that you have started a grand and noble thought wave that will gather momentum from coast to coast as it speeds its way to the enlightenment of the agricultural mind and reason.

Sure enough, it is high time our law-giving powers stopped in their mad craze of granting special privileges to Tom, Dick and Harry in government aid to build warships and corporate forces to exploitation of the workers to consider the side of the creators of all this wealth that goes to make up these side shows of exploitation that rob the toilers of more than four-fifths of their products.

Let the workers have just one good chance to be heard in their own interest. I will second the motion by addressing a letter to each of our representatives in congress and the senate to get that say. Will we get it? If all will do this we shall soon see.

In furtherance of this plan I will add that to give it more impetus we might suggest the plan of soliciting the co-operation of those urging the farm advisers. Then if we get government loans we would have more show to follow the advice of those assistants or advisers.

It would be a great advantage if I could borrow a little money on my land at a low rate of interest, even as high as 4 or 5 per cent.

Goodland, Kan.

CHARLES A. BRANNON.

Panama's Great Canal

(Continued from Page 3.)

soil are wrested from this continental divide every 30 days. When I was there, nearly 100 steam shovels were in operation, and some idea of the magnitude of the work may be obtained when I tell you on that day over 300 trains averaging 26 cars each were loaded and unloaded. The big steam shovels seem almost human when at work, loading a train of cars in less than 20 minutes. The enormous equipment now used includes 315 locomotives, 4,400 cars, 20 dredges and 560 drills. The total excavation of earth and rock is 242 million cubic yards, equal to a tunnel or subway 13 feet in diameter through the 8,000 miles of the earth.

The deepest cut is 534 feet at Gold Hill, Culebra. Throughout the first 15 miles from Gatun, the width of the Lake channel is 1,000 feet; then for 4 miles it is 800 feet, and for 4 miles more, to the northern entrance of Culebra cut, it is 500 feet. The depth varies from 85 to 45 feet. The water level in the cut will be that of the lake, the depth 45 feet. Three hundred feet is the minimum bottom width of the canal. This width extends about 8 miles through Culebra cut, with the exception that at all angles the channel is widened sufficiently to allow a thousand-foot vessel to make the turn. The cut has eight angles, or about one to every mile.

Of the obstacles which confront the canal builders, all others have been found insignificant in comparison to the famous Culebra slides—the mere breaking off from the main bulk of huge chunks of earth which tumble into the cut like avalanches, burying steam shovels, locomotives, cars, tracks—everything in their way—sometimes covering an area of 30 acres or more. These slides are due to the steepness of the slopes and the great pressure of heavier material upon the underlying layer of soft material. I was shown one of these great slides which has been moving slowly and imperceptibly for more than a year. But for these the canal would now be completed. Already there have been more than 25 million cubic yards of excavation caused by the slides. It is the theory of the engineers that when the canal is opened the weight of the water will prevent further trouble of this nature. It is conceded, however, that a great deal of dredging will be necessary for several years at least.

The condition of the Canal Zone, known for centuries as a plague spot, has been made perfectly sanitary by the American army, and now has a lower death rate than any other place on the continent. When the United States began cleaning up, eight years ago, it was all one great pest hole—stagnant water backed up under most of the buildings during the rainy season, which lasts nine months in the year, and the streets were a mass of mud and filth. Now it is as healthful as Topeka. Yellow fever and malaria, two of the deadliest enemies of the French canal builders, had dominated the situation for years. Now all is changed through the instrumentality of sewers, waterworks, paving and general sanitation. The results have been miraculous. Since the discovery that mosquitoes were responsible for the transmission of yellow fever and malarial infection there has been no trouble with these maladies.

All residences, rainbarrels and cisterns are made mosquito proof with wire netting, cesspools are drained or oiled, and the breeding places in the jungle growth cleared. Every day you will see a man with a small machine strapped on his back spraying the sides of the big ditch with larvacide, and others burning the grass along the ditch to prevent the hatching of eggs deposited in the moist places by mosquitoes. There have been only three cases of yellow fever in the last five years. The cost of putting the Isthmus in sanitary condition was about 20 million dollars, the larger part of which will be paid by the Panama republic under contract. The United States begins paying to Panama this

year the annuity of \$250,000 per year; this is in addition to the original purchase price of 10 million dollars for the Canal Zone, which includes all the land for 5 miles on each side of the center line of the route of the canal, about 363 square miles.

There is no other place on the globe where the temperature is so stationary, day and night, from day to day, and from one month to another; in fact, in the shade the mercury rarely gets out of the 70s and 80s, either night or day, winter or summer. But the humidity is oppressive to a northerner. On Kansas day, January 29, I had on the lightest clothing I wear in Topeka in August, but on account of the humidity it was uncomfortably warm. Still there have been only three cases of sunstroke in six years. The annual rainfall is 115 inches, as compared with 32 in Topeka and eastern Kansas.

There has been talk of destruction of the canal by earthquake, but a record kept for the last nine years shows not the slightest disturbance.

The wonderful organization, the unique settlement features, consisting of well-ordered, cleanly and artistically laid-out towns, with all sanitary, police and fire protection and everything that can possibly be done for the well-being of the government's 40,000 employees, are among the things that make a deep impression in the minds of all visitors. Colonel Goethals, the chief engineer, probably has more autocratic power than any other American official, and under his management is presented one of the most remarkable illustrations of high efficiency to be found in the wide world. Thirty distinct nationalities and races, all contented and comfortable, are working on the canal. There are no Americans, white or black, employed as laborers, the hot climate being too severe.

Of the 35,000 day laborers about 25,000 are Spanish speaking, including several thousand West Indian negroes from Barbadoes and Jamaica, while the others came from Italy, Spain and South America. The standard rate of wages is 10 to 15 cents an hour and at present there is a shortage of unskilled labor. There are more than 5,000 Americans employed in supervisory positions requiring skill. No man over 45 is brought to work, and rigorous physical examinations are made before anyone is employed. The visitor is surprised at the remarkable health, energy and cheerfulness displayed by the Americans. The government employees pay the commissary department 19 cents a pound for the best cuts of Armour tenderloin steak, the same as sold in Topeka for 22 cents or more. Each day a big steamer brings in supplies from New York. The Postal Savings bank is doing a big business with canal employees, carrying at the present time deposits of more than a half million dollars.

The natives of Panama, who constitute the biggest part of the population of the Isthmus, are for the most part a lazy, ill-smelling outfit, an inferior mixture of Spanish, West Indian and French, who have not the slightest appreciation of the cleanliness thrust upon them by Uncle Sam. Most of the public officials are grafters. Deep down in their hearts there is rankling hatred among the natives for all Americans, and it is only a question of a few years when the United States will be compelled to take them in hand.

Panama City is just the place for tourists who have money to waste. The place is full of grafters, nearly all native Panamanians, and the most successful of all grafts is the so-called Panama hat which sells to the tenderfoot at \$15 to \$30. As a matter of fact, no hats are made in Panama and the hat you buy in Panama is the same as any Panama hat on sale in our clothing stores for half the money; they all come from Ecuador. Another profitable graft is the lottery operated under the authority of the government. Drawings are held each Sunday and the Panama officials who

get a share of the rake-off have grown rich.

Panama is no place for a farmer. Little has been done in the development of agriculture or livestock, and not much can be expected. The Isthmus is one vast swampy jungle with mountains here and there. The jungles teem with snakes, lizards, alligators, monkeys, wildcats and countless varieties of plant and animal life. Tobacco, sugar cane, a few vegetables, bananas, coconuts and a few other fruits are the principal products. The natives live in the jungles, in thatched huts built of bamboo; the floors are bare, the cooking utensils for the most part are gourds and coconut shells; oxen, wooden plows and other primitive methods are used in cultivating the soil. The chief opportunity now is fruit growing. Panama is already supplying large quantities of bananas, for which there is great demand. There is also a bright future for the undeveloped timber industry. It will not be the policy of Colonel Goethals or the government at Washington to encourage the development of the Canal Zone, but rather to permit the zone to return to the original jungle growth, which would form a protection of the canal against possible invasion by land.

The permanent canal headquarters and main repair shops are being erected on the Pacific side where they will overlook the terminal piers and dry docks. A system of dockage surpassing anything in existence is now being built. Colonel Goethals expects that not less than 2,500 vessels, or a daily average of seven, will pass through the canal the first year. It is conceded that the enterprise cannot be profitable from the standpoint of direct returns. Already the government has expended over 300 million dollars; this amount will probably be increased to 400 million. The cost of maintenance, according to Colonel Goethals's estimates, will be about 3 million dollars annually, and this, with the annual interest on the bonded debt will far exceed the receipts.

But Colonel Goethals confidently believes that no other great undertaking has had any such effect on the power, prestige, commerce and opportunity of a nation as the Panama canal will have on the United States. The Gulf, Atlantic and Pacific seaboards will probably see immediate benefits, and Colonel Goethals says the whole country will feel its quickening influence later. He also thinks it will double the efficiency of the United States navy. Nine-tenths of the people who visit the canal become thoroughly converted to the wisdom and practicability of the enterprise, though they were previously skeptical.

Already Uncle Sam is fortifying the canal at both entrances against possibilities of attack. Nearly 6 million dollars has been appropriated for this purpose, and a good part of it has already been expended for the necessary coast artillery, the most powerful and effective types of 16-inch cannon and 12-inch mortars and submarine mines. There will be three regiments of infantry, a squadron of cavalry and a battalion of field artillery. The fortifications are now well under way. During my visit, the battleships Virginia, Nebraska and Georgia were anchored in the Colon harbor with nearly 3,000 men who were there to inspect the canal. By order of President Taft the entire Atlantic fleet is to have this rare treat.

The opinion prevails on the Isthmus that Colonel Goethals, one of the ablest men of our time, will be made lieutenant general of the army, and that Colonel Gorgas, the sanitarian who fought the Tropics at their deadliest and won, will be major-general. They are soldiers whose names will not be forgotten.

Now that the canal is within measurable distance of completion, the country is becoming more keenly appreciative of its stupendous significance. The world very properly regards the Panama canal as the greatest artificial waterway of all the ages, a realization of the dreams of centuries, but it is only when one sees it with his own eyes that he obtains a true conception of the colossal nature of the enterprise.

Report on Improved White Milo

BY JAMES S. CAMP,
Agriculturist and Biologist.

[Written for Farmers Mail and Breeze.]

Editor's Note.—The Mail and Breeze has had several reports from Oklahoma in praise of the Dwarf White milo. In Kansas the Dwarf Yellow is the only milo recommended by the Kansas station. Milo as a crop is chiefly adapted to the western third of the state. It matures earlier than Kafir. Though their grain value is about the same Kafir makes the better fodder crop.

During the five years I have been conducting extensive tests of the drought-resistance of the grain sorghums many varieties of Milo, Kafir, durra, shallu and kowliangs have been tested. The improved White milo has proven far the best of the grain sorghums tested. I am sending you a photograph of some heads of this variety which I grew last season (See first cover page of this number of the Mail and Breeze). I find the improved Dwarf White not only matures earlier than the other varieties but also makes a heavier yield of seed, and stands the dry weather better.

It is only 35 years since the first grain sorghums were introduced into the United States. It is only 20 years since any of them have become crops of recognized importance. Although grain-producing varieties had probably been introduced from time to time since early colonial days none had persisted in cultivation. The first permanent introduction were the two durras, Brown durra and White durra, which reached California in 1874 under the names "Brown Egyptian corn" and "White Egyptian corn." The white variety had two periods of popularity in the Great Plains area first in the early '80's, under the name "rice corn," and again 10 years later, under the name "Jerusalem corn." Both varieties are still grown, but only to a limited extent because of their shattering habit.

Two varieties of Kafir, the White and the Red, were brought from South Africa in 1876. They did not get into general cultivation here until about 1890, 14 years later. The Blackhull Kafir appeared soon after. Whether it was a part of the original importation or was a later introduction will probably never be known. The original White Kafir is rarely found in cultivation today, but the Red and the Blackhull are important crops. The Blackhull is much the better of the two, and has the widest cultivation.

Milo was first introduced into South Carolina or Georgia about the year 1885, but did not come into general notice until about 1890, when it had become a staple crop in parts of western Texas.

The kowliangs have been coming from China and Manchuria since 1901. Most of them have required considerable selection to make them suitable for use as grain crops. None of them has been long enough in the hands of farmers to be considered a farm crop.

In the brief space of 20 years, however, the milos and Kafirs have greatly increased in importance. They are now grown as staple farm crops on a large scale in the West.

The feeding value of the grain sorghums is about the same as that of corn, although a considerable amount of argument to the negative has been made by farmers. In the table below I have given the chemical composition of a number of the grain sorghums together with that of corn, the analyses given are based on an average made from a test of 47 lots of seed grown in several different localities, and the test of corn is an average made from 129 samples.

Crop.	Crude protein	Fiber	Carbohydrates
Milo, Red Standard.	12.41	1.86	80.87
Milo, Red Dwarf.	12.08	2.02	80.78
Milo, Dwarf White.	12.20	1.97	80.86
White Durra.	11.22	1.86	80.81
Blackhull Kafir.	13.69	2.08	78.87
Red Kafir.	13.69	2.14	79.95
Brown Kowliang.	10.51	1.75	80.98
Blackhull Kowliang.	11.52	1.63	80.18
White Kowliang.	11.53	1.39	79.53
Shallu.	13.88	1.85	78.78
Corn.	11.70	2.40	78.10

From the chemical analyses you will see the feeding value of the grain sorghums is or should be, about the same as that of corn, and their ability to stand the dry weather of the arid sections and grow at high altitudes makes them a better crop for the western farmer than corn.

Oklahoma City, Okla.

Studebaker

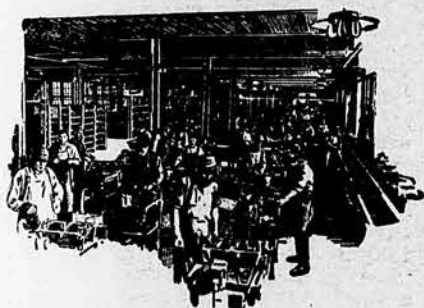
How Studebaker Automobiles are Made

A Heart-to-Heart Story. No. 3

In this series of articles concerning the manufacture of Studebaker automobiles we have already described the four main opening channels of the Studebaker factories—the forge shop, foundry, steel stamping mill and heat-treating ovens—and also some of the many intricate milling and grinding operations which must all be wisely planned and well done before even the single parts of a Studebaker car are ready for assembling.

This issue describes farther steps in manufacturing which carry the car towards completion.

From the time some mighty forge hammers a molten block of steel into the form of a finished part, that, part



A motor assembling department. The stock is drawn from bins at either side.

starts on a long journey through the Studebaker factories. It is milled, ground, heated white hot, baked, tempered and ground again in the course of its journey, but ever the process brings it one stage nearer its final adjustment in the finished car. The process is ceaseless. That stream which we call production always goes on.

Because Studebaker manufacture is organized in this way we are able to get better workmen, at every point in the process. And this is how we do it.

The men who grind Studebaker gears for example, are master mechanics of a single job. They grind gears, and nothing else. It is skilled labor brought to a high degree of specialization,—incidentally, too, very well paid. As Sheffield workmen are famous for cutlery and South Bend watchmakers for watches,—so Detroit workmen are famous for skill in building automobiles. And in no plant is there more attention paid to high standards and the most efficient labor than in the Studebaker factories.

The Studebaker factories have been making automobiles for years and our financial and factory resources are large—naturally this draws to us the best workmen because we can offer them regular employment. We keep our men and as we keep them they gain in specialized expertness. This is one of the important reasons why a concern like the Studebaker Corporation is able to produce the very highest quality of goods.

From each of the departments, as parts are completed they are sent to the big stock rooms where they are laid away until assigned to the assembling departments; but before they are accepted by the stock department they are put through a final test, which is in addition to the many tests they have had during the process of their manufacture.

We want you to appreciate this kind of organization. We maintain a separate department known as the efficiency department. This group of engineers study the methods and organization of Studebaker plants and constantly seek to improve them. All the machines, benches and shops are charted. The journey of every part is charted on big paper charts which show exactly how it passes through the factory. The efficiency engineers study how this journey can be shortened; how handling can be reduced; how by manufacturing universal joints for example, in one shop instead of another a little less time will be consumed in the process; how the change of a bench here, the addition of an electric light there, will enable time and money to be saved. And all this means a better car for less money.

The department where the parts are brought together in a car is called an assembling department. There are six great assembling departments in the Studebaker factories; the small parts assembly; the motor assembly; the rear axle assembly; the steering gear assembly; the control assembly and the chassis or final assembly.

In the small parts assembly small units of two or three parts are put together. For instance, the clutch, the



Enameling room where the finish is baked on Studebaker fenders and hoods. The enamel is baked for hours at a time.

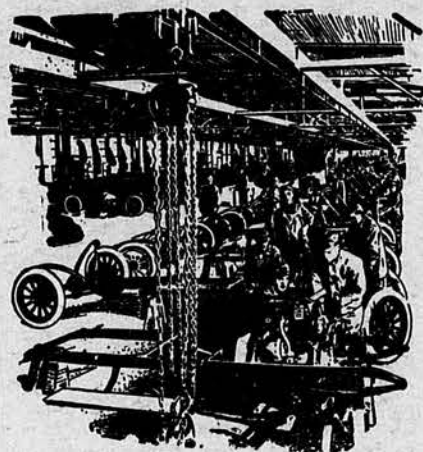
universal joints and other similar small units are assembled and made ready to join with the larger assemblies in the chassis.

The motor assembly is one of the most important assembling departments in the factories. Here the cylinders, the crank shaft, the cam shaft and other parts are brought together and built into a motor. Expert workmanship is absolutely necessary. If the motor is to run true there must not be the slightest looseness or any distortion or unevenness of balance. In fact, each pair of pistons and connecting rods are balanced to within a fraction of an ounce so that the crank shaft will revolve perfectly smoothly.

Did you ever think how rapidly the

parts of a motor must move and how in a good motor, every part must be fitted true to the last degree of accuracy? It is because of the fine workmanship that Studebaker motors run so silently. You can seldom hear them and so efficiently that Studebaker motors deliver, through the transmission to the rear wheels, a larger proportion of the power developed by the exploding gas than any other motor yet designed.

When the motor is assembled it is clamped to a solid frame and belted to an electric motor which drives it for several hours under heavy lubrication in order to "work in" all the bearings. Later the same motor is taken to the



A final or chassis assembly room in the Studebaker factories. Notice the traveling crane in the foreground.

motor test room and run for many hours under its own power. If a "knock" or any imperfection should develop, it is corrected then and there. In this motor room 75 motors are constantly running under their own power yet it is so quiet that no one needs to speak above an ordinary tone of voice.

Before a Studebaker motor is finally approved it is tested for horsepower by a dynamometer. If it shows up perfect in every respect it is passed to the chassis assembly to be placed in its chassis.

If you will reflect a little here, you will see how perfect must be our system of manufacture in order that the different parts of a car may be drawn from stock and yet always each exactly fit the other. If we did not manufacture to the finest limits the cost of assembling would be prohibitive. This is how an owner in Bombay, India, or in Mobile, Alabama, or anywhere in the world may send to us for any part needed on any car we ever built and get a part which may be slipped into the car and fit exactly. This is what we call real interchangeability of parts.

Another important assembly department is where the rear axle and transmission are built up, in much the same way as the motor. When the rear axle and transmission are ready they are belted to an electric motor. It will be remembered that these gears have already been tested for accuracy and silence. They are now tested in permanent relation to each other and must be perfect before they are passed. It is such care as this which is producing Studebaker rear axles on the new cars which are noiseless at all speeds.

When the rear axle passes its final

test it is sent to the chassis or final assembly.

These rooms are huge and in them 150 cars are built at one time. Labor is reduced to a minimum. Electrically driven traveling cranes run the length of the room and the chassis pass down the line of workmen, each doing his part as the cars pass by. One skilled workman places the steering gear or the control mechanism in the chassis; two others working together place the springs on the frame; two more put in the axles; others bolt in the motor, and so on until the chassis is completed.

If you have read between the lines of this story you have already seen how quantity production not only lowers prices but also does better work. The effect of specialized skilled labor is everywhere apparent in the finished Studebaker car.

When the chassis is finally finished, it is ready for the road test. The final adjustment of the carburetor must be made and the little finishing touches which tune up the car to prepare it for the owner's hands.

We have 35 testers, young men and automobile experts, who put a rough body on the chassis and take it out for a long, hard drive on the country roads. It is run at slow, medium and highest speeds over hills and through sand. Of course on the road test old wheels and tires are used. The skilled eye of the driver watches every part of the car and his ear detects instantly any variation or defect in the car's running capabilities. Any necessary minor adjustments are made on the road and when the tester returns he turns in to an inspector a complete report on the car. If changes are necessary they are made and when the inspector finally passes it the car is sent to the painting department, where it is cleaned by steam to take off every particle of oil, sand and dirt.

We have gone over these matters in detail because in the aggregate they account for the remarkable value of Studebaker cars. We want you to believe in Studebaker cars because you know that they are manufactured by most efficient, honest and up-to-date methods. It is for such reasons that friendship and confidence grow strong,



A section of the motor test room. In this room 75 motors are tested under their own power at one time, yet it is so quiet that the workmen speak in ordinary tones.

and we hope you will come to have real friendship for and confidence in Studebaker cars and Studebaker business principles.

The fourth of this series—and next to the last—will appear in the March 15th issue. It will be worth reading. Remember to look for it.

Many other important matters of Studebaker automobile manufacture we have described in our "Proof Book." It explains things about an automobile which few people know but which every buyer ought to know. It is free. Send for it now on the coupon below.

THREE GREAT CARS

Studebaker "25" Touring Car, \$885

5 passenger—Gas starter

Studebaker "35" Touring Car, \$1290

6 passenger—Electric lights, electric self-starter

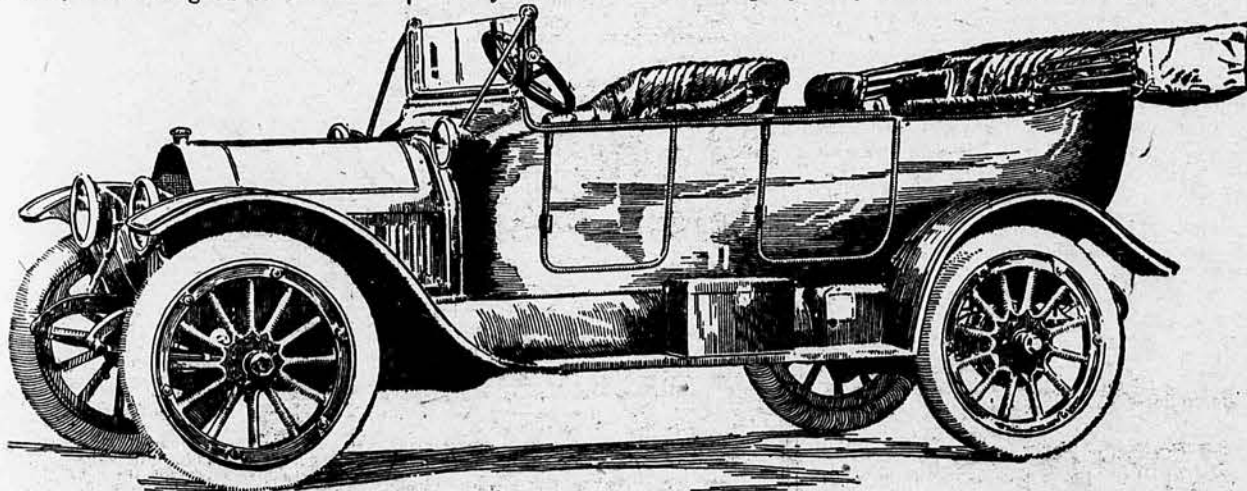
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6 passenger—Electric lights, electric self-starter

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

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Address



The \$1290 Studebaker "35"

Electrically started and lighted, six passengers. Price with equipment complete, f. o. b. Detroit.

Ways=Means=Results

Worked Out by Mail and Breeze Readers

Castor Oil a Wart Specific

Mr. Editor—To the man who wants a cure for a wart on his mule, I would say, apply castor oil twice a day for several days. It is a sure cure for warts on man or beast.

Kiowa, Okla. C. A. Bollinger.

The castor oil is rubbed on for 10 days or several weeks in obstinate cases.—Ed.

Let's Hear From the Blasters

Mr. Editor—I am interested in dynamiting hardpan (buffalo wallows) and would like to know from Mail and Breeze readers who have had experience, how the work is done, the tools necessary, strength of dynamite and how to prepare it. Would also like to have some reader tell a good way of bracing a self supporting barn roof where a track is to be used.

Pratt, Kan.

W. E. B.

Finds White Corn Better

Mr. Editor—My 30 years' experience in growing corn has taught me white corn will yield more than yellow. I have also found that when planted early, when the ground is wet and cold, it will come up better than the yellow. I think white corn is a better drouth-resister than the yellow. There is little difference in the feeding quality of the two.

W. C. Adkisson.

R. 2, McFall, Kan.

Remedy For Wormy Shoats

Mr. Editor—I not B. K. Walters wants a worm destroyer for hogs. I find this effective: I take shelled corn at night and pour turpentine all over it until it is wet. This is allowed to soak until morning when I mix in all the powdered sulphur that will stick to the corn. The night before I give this mixture I feed the hogs very little and the next morning, nothing at all. Then the doctored corn is scattered for them in a dry place, free from dust, so that all can get to it. A half bushel so treated is enough for 40 to 50 shoats. I do not think it safe to feed such corn to brood sows, except in very small quantities.

A. H. Snook.

R. 2, Winfield, Kan.

Too Close to Plant Corn

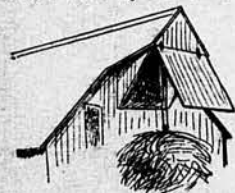
Mr. Editor—H. E. C., Grimes, Okla., wishes to know how he can make a four-horse doubletree for a lister and so make his corn rows 3 feet 2 inches apart. Here you are: Make your main tree 6 feet 4 inches from center to center of outside holes. Make two short doubletrees 3 feet 2 inches from center to center of outside holes, and attach to the main tree. Then let one horse walk on the ridge and you have accomplished your object. However, 3 feet 2 inches is too close to plant corn. H. E. C. will have trouble in cultivating it especially with a riding cultivator. It would be better to make rows 3½ feet apart, making the main tree 7 feet long and the doubletrees 3½ feet.

D. A. Woodman.

Netawaka, Kan.

Mail and Breeze Hay Door O. K.

Mr. Editor—I am sending you a picture of my barn and silo. The large hay door was made after a plan I saw in the Mail and Breeze. The door is 8 by 10 feet in size, hinged at the top and works nicely.



The silo is built of cement blocks and is 32 feet high, by 16 feet in diameter. It is reinforced with two No. 11 wires twisted together, and put in with each layer of blocks. I did not plaster the inside but will do so before I fill it next fall as some silage spoils next to the blocks on

account of the blocks taking up moisture from the silage. I have overcome this to some extent by pumping water on the outer edge. I filled the lower half with Mexican June corn and the rest with Kafir. I like the corn much better. I used a No. 15 Ohio cutter. The only trouble I had was to keep enough corn close by to feed the hungry thing.

Has any Mail and Breeze reader ever had any experience with the velvet bean planted with corn as an ensilage crop?

E. E. Coulter.

Laverne Valley Dairy Farm, Laverne, Okla.

The type of hay door which Mr. Coulter finds so serviceable was first submitted to Mail and Breeze by J. M. Goering of Galva, Kan. Of this door Mr. Goering writes: "It keeps the rope in the dry, does away with warping, and makes the strongest and easiest door to handle one can put in. The door is hinged at the top and swings out from the bottom. My door is 8 by 8 feet and the hood is built out 4 feet. If I had to do it again I would build the door 8 by 10 feet and have the hood out 5 feet."

A Way to Stop Soil Blowing

Mr. Editor—It is a fact that only soils lacking in humus or vegetable matter, blow badly. The absence of these substances also causes the soil

had no trouble from these sources. But there is danger in feeding shelled corn as many horses will eat it too fast and not properly masticate it. This has been my greatest trouble. I have overcome this by mixing bran and oilmeal with the corn, 5 parts corn, 2 parts bran, and 2 parts oilmeal by measure. This is my grain feed for horses through the winter, given twice a day.

Louis Larson.

R. 1, Savonburg, Kan.

Cleveland Bay as a Farm Horse

Mr. Editor—In a recent Mail and Breeze I noticed the question of C. H. H., concerning the coach horse for the farm, and Mr. Wheeler's reply. I do not wish to criticize Mr. Wheeler's statements for I consider his reply good. I merely wish to give my experience with the Cleveland Bay horses which in England are known as coach horses.

The Cleveland Bay is the best farm or general purpose horse I have ever owned. I have worked him side by side with the big draft breeds. Put him on a riding cultivator or a binder and he is there to stay, even on a hot summer afternoon when the big draft horse puffs and pants along. I can do a forenoon's work with a team of them weighing 1,350 to 1,400 pounds and hitch them to the spring wagon in the afternoon for a drive to town and back, 6 to 8 miles, making the trip in a sweeping trot. I own and breed both the big drafters and Cleverlands. I have found the Cleveland Bay to have sounder feet and

manure is worth more on the better soil. This part of the state has only half the livestock it should have and many of us make a mistake in having the barnlot or feeding ground so located that much of the strength of the manure washes away. Another way a good deal of fertility is lost is in burning over fields. It is better to have the fields fenced so these crops can be pastured in season, and where this cannot be done they might be mowed and plowed under. I think growing cowpeas the quickest route to restoring a depleted soil. Raise alfalfa for hay and pasture if you can. If you can't raise clover until you can raise alfalfa, and if you can't raise clover, then grow cowpeas until clover will grow and do well. Last fall I sowed some rye for spring pasture. This field will be plowed and sown to cowpeas, which will be cut for hay in time to put the ground back into rye again next fall. I am doing this as an experiment.

Elk City, Kan.

E. A. Stark.

Alfalfa on Sod in West Kansas

Mr. Editor—My experience and observation have proven to me that alfalfa sown on new sod well worked, will produce better than sowings on old ground or alfalfa sod. In western Kansas the new sod produces the better stand because it holds the moisture better and is free from weeds. Old ground and even alfalfa sod bakes badly here, after a beating rain such as we usually have here. I venture to say three-fourths of the alfalfa in eastern Colorado and western Kansas now showing a full stand, was sown on new ground. Some of this sod, especially the blue-stem land, was so tough that a disk or any other harrow would hardly make an impression on it. But these tools shook the seed down into the cracks in the sod, and this land has produced the finest kind of alfalfa, some of it for a life time or more.

John J. Healey.

Wallace, Kan.

Cutting Telephone Bills

Mr. Editor—I believe that Dwight, Morris county, Kansas has the best mutual telephone system. We organized seven years ago and have had the best of service at a cost of \$3 a year per phone for switching fees. This gives us the privilege of talking through all the exchanges in this county and several outside without extra charge. The city of Dwight organized its own company and each farmers' line entering the city also organized separately. Every line has its own officers including one man to represent each line in installing, maintaining, and operating the switchboard owned by the several lines. In building our line we used 20-foot cedar poles, 20 poles to the mile, and No. 12 Roebling wire. The total cost per mile need not exceed \$25 provided the labor is done gratis. It does not require an expert to build or maintain a good, mutual telephone line.

G. E. Olson.

Dwight, Kan.

Mulching Protects Alfalfa

Mr. Editor—Alfalfa sod will not produce well the first three years. The soil seems to be too rich for the small amount of moisture it holds. The first three crops have to do well if they pay for the breaking. Sowed cane makes the best crop the first year after breaking and millet is best the second year. In northern Kansas the best months to sow alfalfa are April, July, or August, in my estimation. Alfalfa drilled into millet stubble never winter-kills. It is a good plan to mulch alfalfa and wheat about now by simply pitching the straw off the rack while the team is going along. An old hayrake with all the teeth removed but six makes a good spreader and often the wind will do first-class work along this line.

Edward Lind.

Cedar, Kan.

In this connection it might be mentioned that there is now a very good straw spreader on the market that is a really useful farm tool.—Ed.



Good dairy farm equipment on the place of E. E. Coulter, Laverne, Okla. The silo is built of concrete blocks, unplastered, but Mr. Coulter finds this to be the cause of some spoiled silage. He will remedy this defect by plastering. The hay door on the barn was made from a model Mr. Coulter saw in the Mail and Breeze. It is described elsewhere on this page.

to crust and bake under certain conditions. My method of remedying this condition is inexpensive and should appeal to the upland farmer of eastern Kansas in particular. I simply plow under all corn stalks as soon as the corn can be gotten out of the field. Start the plow right beside the corn wagon and don't be afraid of going deep. By continuing this year after year you will find your land greatly improved. I have found land so treated gives better yields, a better quality of grain, the tendency to blow in the spring will be overcome, and the soil will not crust or bake after a heavy rain. A system of crop rotation would be superior to this in localities where crops can be rotated but on a great deal of our eastern Kansas land it is impossible to grow grass or small grain at a profit. Consequently we of small means must adopt a method that will at once be constructive and profitable.

(No address.) F. H. Grippin.

To Feed Shelled Corn to Horses

Mr. Editor—In a recent Mail and Breeze a contributor advised against feeding shelled corn to horses for fear they would get worm dust and moldy corn. All of which is true if you do not select your corn, or use a hand sheller, shelling it as needed. That eliminates the danger of poisoning with moldy corn or worm dust. I have shelled corn for my horses the last four or five years and have

legs, and his uniform bay color, usually free of white marks, makes the finest of matched teams. In the last 10 years I have owned two registered stallions of this breed and neither has been known to be sick or has missed a feed. On the other hand my draft stallions have required considerable doctoring. The Bays have good constitutions, lots of endurance, and are the best of walkers in the field.

E. Pinkston.

Chase county, Kansas.

Reclaiming a Wornout Soil

Mr. Editor—Nature has arranged that a certain amount of plant food become available every year, even though all that was available the preceding year was removed by some crop. As this process of restoring depleted soil is too slow we must give the soil artificial assistance. Commercial fertilizers are expensive. Barnyard manure solves the problem, although most of the manure should never see the barnyard. The spreader offers far the best means of getting the manure on the land. It spreads it more evenly and does not leave it in lumps and piles to burn out the crops, as it will be well mixed with the soil. I prefer to put the manure on the better land. I would rather spread one load of manure on fairly good land than five loads scattered by hand on hardpan soil. Hardpan spots can be made productive but



Why it is a good old habit to wear Dittmann Shoes



FORTUNATE is the man or woman who never wore anything but Dittmann Shoes—that means a man or woman who never knew anything but shoe comfort, whose shoes are always up-to-date in style and whose shoe expenses are the least possible. There are many thousands of them, for Dittmann Shoes have been manufactured for sixty-nine years. The Dittmann sons, father and grandfather, all have enjoyed the rich inheritance of a wide reputation for producing quality goods.

If it's a Dittmann it *has* to be a good shoe, because every bit of material accepted at a Dittmann factory must be the best possible for the use and at the price; and every stroke of workmanship has to be skilled and conscientious. This care has up-built the Dittmann reputation and this same care exercised *all* the time, and continued giving of the best possible value for the money, causes the Dittmann reputation to endure in the favor of careful shoe buyers from coast to coast.

If you get a DITTMANN you get a good shoe.

Style Variety Comfort Durability

These are some of the distinguishing features of Dittmann Shoes for *ladies*. There's a style for every hour and occasion, good wear in all and a comfort model for every foot.

To wear a Dittmann Shoe is to be daintily "shoed"—and a neat foot bespeaks refinement.

For Dress or For Business

—whatever the occasion, the Dittmann lines of Men's Shoes are all that can be desired—and more.

Snappy in style, with variety to suit every taste. They are durable and give comfort because there's a Dittmann Shoe for every foot—and they have behind them the good old Dittmann reputation for reliability.

Men's Work Shoes

designed for comfort and built for durability, are among the most successful of Dittmann specialties for men. There's a Dittmann Shoe for every worker.

The "Dittmann" habit grows on Dittmann Shoe wearers.



"The Flag and the 9 is a Quality Sign."

THIS well-known sign means good shoes for children—the kind that are often outgrown before they are outworn.

The sole of every 9'clock School Shoe is all leather—the window of the sole gives every purchaser an opportunity to test and see. These soles are not only leather, but the best leather we can buy at any price, cut from the finest, heaviest part of the hide. Equal care is exercised in the selection of material and the entire process of making, so that 9 o'clock School Shoes may continue to be *quality* shoes for children.

They are shaped over hygienic lasts and made to give the best possible wear, neat appearance, comfort and just the right support for the active little growing feet and ankles.

9 o'clock School Shoes are right for children.



Look up your nearest Dittmann Dealer He has a fit for every foot. If you don't know a Dittmann dealer, write us TODAY, giving us the name of your regular shoe dealer and we will tell you where you can get Dittmann Shoes. Enclose 2c and we will send you a valuable, educational booklet, "Our Flag," giving the history of our National emblem, handsomely illustrated in colors.

It pays to trade with Dittmann Dealers

Dittmann Shoe Co. Manufacturers
ST. LOUIS

JAYHAWKER FARM DOIN'S

BY H. C. HATCH, GRIDLEY, KANSAS.

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

Strangely enough we hear few fears expressed that this fine open winter is to be followed by a late, cold spring. Most folks seem to think that last winter paid all the bills the present one has incurred.

But should we have a late spring there will be no lack of feed. It has been a good while since we have seen rough feed so plentiful and when sold at sales it brings low prices. At one sale this week good Kafir butts sold for only 3 cents per shock.

But if rough feed sells low it is the only thing offered that goes that way. Livestock of all kinds sells at the very highest figure we can remember and the demand seems eager for more. In spite of a sale for almost every week day the attending crowds are large and bidding brisk.

We have this spring put away a little more meat than usual. We killed the same number of hogs we usually do but they made more meat and we had, this morning, to take out some of the earliest cured to make room for the last. That taken out is now undergoing a heavy smoke. We prefer to have the smoked meat parceled out at different times rather than to have a steady diet of it next summer.

We use the sugar cure for all the meat we intend to smoke while that made into plain salt pork goes in another jar without sugar. In addition to the salt and sugar we use a little salt-peter which makes the meat firmer and adds a little to the color. We do not dry salt but put it all in brine as we have found this the surest way. The meat that is to be kept all summer we smoke; the plain salt pork we aim to have out of the way by July.

Ready Cooked Meals

are rapidly growing in popular favor.

Post Toasties

served either with cream or good milk, or preserved fruit, make a most appetizing dish for breakfast, dinner, or supper.

These delicious toasted flaky bits of white corn have a delicate taste that is very pleasing at this time of year.

Post Toasties are economical, make less work for the busy housewife and please everyone at the table.

"The Memory Lingers"

Sold by Grocers everywhere

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

We had a neighbor come in this week with his 4-horsepower wood saw and work up the woodpile. It took 11 hours to do the job and we now have on hand a larger wood pile than we have ever had since living in the West. It would be much better if this wood could be put in a shed but it would cost more to build the shed than the wood is worth. We still think there is not much to be made by getting up a woodpile, so far as saving on fuel cost is concerned, but it makes a fire that those who have to cook over say is just the thing.

There are six or seven wood sawing outfits owned in this neighborhood, part of them by farmers who do their own sawing only, while others do sawing for wages. The price charged ranges from 75 cents to \$1 per hour. A sawing outfit can make way with a big pile of wood in a short time and it is probably twice as cheap to pay this price as it is to try to work it up by hand with the ax and crosscut saw.

A Greenwood county reader asks what is the customary rent here when farms are rented for a share of the grain. Most of the improved farms here are now rented for two-fifths of the grain delivered in crib or granary and one-half of the hay delivered in the stack. Pasture in nearly all cases is paid for in cash, the amount per acre depending on so many things that we could not give an equitable amount here without knowing what the pasture was and where located. Here of late a number of farms have been rented for one-half the grain in the field; this in all cases refers to land put in corn. This rent takes a little more from the renter than the two-fifths share in most cases, for the difference between two-fifths and one-half usually will more than pay for husking. As land increases in price the renter is called upon to pay a larger and larger share but it would seem to us that the present amounts must be near the limit of what the renter could stand.

In renting a farm for either cash or grain rent considerable account must be made of the buildings and improvements. We know of a number of farms that rent for what is considered rather a steep price yet it is a fact that such a set of buildings in any of the nearby towns would rent for as much money as is paid for them in the country with an 80-acre farm thrown in. In all such cases the investment of the landowner must be considered; he gets no cash return from these buildings when he rents for a share of the crop so it is getting to be more and more the practice to charge straight cash-rent. In some years this works to the advantage of the landowner and in others the renter is ahead by paying cash. On a good deal of the farm land in Kansas it now requires a pretty high rent to make net returns of 5 per cent on the money invested after taxes are paid.

This week we read in a farm paper an inquiry from a South Dakota farmer who had wheat which he was in doubt whether to feed or to sell and with the proceeds buy shorts. He said he could only get 66 cents per bushel for his wheat while \$30 per ton was asked for shorts. We may sometimes think that we are not getting just exactly a square deal here in Kansas on selling and buying wheat products but we have never heard of any extortion approaching what this South Dakota man has to contend with. And even at the prices quoted the editor told this man that it would be best for him to sell his wheat and buy the shorts. Perhaps it would be best but it seems more than hard to have to sell wheat for 66 cents a bushel and buy back the refuse products at \$30 per ton. Just as a contrast let us say that wheat is priced at 83 cents a

bushel here in Coffey county and shorts are \$1.15.

An Osage county reader who has considerable land in cultivation which he wishes to get in grass asks what he had best sow or what would be the best method of proceeding to bring up the land. Had he asked us a year ago as to what grass would be best for the Osage county land, which is underlaid with coal, we should have answered at once "English bluegrass" but now we hardly know what to say. Bluegrass at prices paid for seed up to last year has been profitable enough to pay fair rent, even if the yield had not been more than 5 bushels per acre, but from 20 cents a pound the seed is now down to 4 1/2 cents which is low mark for many years. At this price it will not pay to fool with English bluegrass as a seed crop but if our inquirer was in a position to use pasture he could sow this grass alone or with other grasses and by pasturing bring the soil back to a good state of fertility.

As we have said before, we think the correct way to restore fertility to worn soil is to sow something that can be pastured. Following our own advice we shall this spring sow a 15-acre field to timothy and clover with a little bluegrass mixed in. Should we have a reasonable amount of rain this summer we expect this to grow and do well. If our Osage county friend has his land in fair heart he might find this mixture a good one to sow. Should the land be badly run down it would not be likely to take much hold. Clover, especially, needs some fertility in the soil to make a start. If a light top dressing of any kind of manure can be given it helps wonderfully in starting out clover. We have never had any experience with Brome grass so could not advise about sowing it. If the land is really poor and worn it is likely the best thing would be cowpeas or Sweet clover. The cowpeas we know make good feed and if the present demand for Sweet clover seed holds it would be a paying crop to raise for the seed alone.

We shall have to buy a set of harness this spring and for some time have been hanging around at the sales when such property was being sold but to date have not seen anything that looked as good to us as a new set at the price charged for new ones. For this reason we are going to town this afternoon to buy a set of new harness on the theory that it is better to pay \$10 more for a new article than to get something you know nothing about. There is such a difference in harness that if one does not know the maker he cannot tell from the looks what he is getting. Of the last three sets we have bought two proved good and one was made of fairly rotten leather which did not last five years. We have hanging in our barn a set of harness that has been used regularly for more than 30 years and it is a good set yet; we wish we could buy such harness now but we cannot.

All Five For \$1.25

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

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

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

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

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

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

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

MAIL AND BREEZE, TOPEKA, KANSAS.

Newsy, Helpful Reading.

Mr. Editor—I read the newsy pages of Farmers Mail and Breeze and get many helpful suggestions from them.

Tom J. Myrick.

Blue Mound, Kan., February 3, 1913.

A Paint Lesson

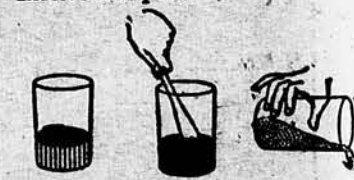


To a paste made of white lead and water, add linseed oil and stir.

Watch the oil drive out the water! Presto! an oil paste instead of water paste.

Dutch Boy White Lead and Dutch Boy Linseed Oil, rush together and cling together just that way on the house painted with them.

What chance has rain or snow to dissolve such paint?



White lead and water, with layer of linseed oil. Mixture of white lead, linseed oil and water. Water poured off, leaving white lead and linseed oil.

Dutch Boy White Lead—white in the bag—any color you want to make it on the house.

Dutch Boy White Lead in steel kegs, 12 1/2, 25, 50 and 100 lbs. Dutch Boy Linseed Oil, 4 and 5 gallon sealed cans. Ask your paint dealer.

Let us send you "Painting Pocket 31" full of facts every house owner should know about painting. Also "Handy Book on Painting," full of information for the man on the farm. We will include our catalogue of 100 beautiful stencils for walls.

NATIONAL LEAD COMPANY

New York Boston Buffalo

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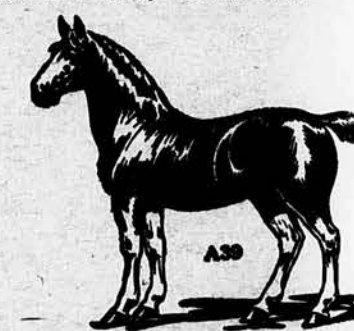
San Francisco Philadelphia

John T. Lewis & Bros. Co., (National Lead & Oil Co., Pittsburgh)

Make Your Lame Horse Sound, Like This

You Can Do It While He Works.

We want to show you that there isn't any affection that causes lameness in horses that can't be cured, no matter of how long standing. We want to send you our instructive book, "Horse Sense" No. 8.



It describes all. And with the book we want to send you an expert's diagnosis of your horse's lameness. All this is absolutely free. Simply mark the spot where swelling or lameness occurs on picture of horse, clip out and send to us telling how it affects the gait, how long animal has been lame and its age.

We absolutely guarantee Mack's \$1.000 Spavin Remedy to cure Spavin, Bone or Bog Spavin, Curb, Splint, Ringbone, Thoroughpin, Sprung Knee, Shoe Bole, Wind Puff, Weak, Sprained and Ruptured Tendons, Sweeney, Shoulder or Hip Lameness and every form of lameness affecting the horse. We have deposited One Thousand Dollars in the bank to back up our guarantee. Cures while he works. No scars, no blemish, no loss of hair.

Your druggist will furnish you with Mack's \$1.000 Spavin Remedy. If he hasn't it in stock, write us. McKellar Drug Co., Binghamton, N. Y.

Country Life in England

An English Village and its "Co-op"

BY ALFRED DOCKING, R. 3, Manhattan, Kan.

Written for Farmers Mail and Breeze.

Editor's Note.—England is so densely populated, compared with Kansas, that her farmers may almost be said to live in town, hence the roar of traffic on the country road that Mr. Docking so graphically describes. Possibly, too, this density of population has made her co-operative stores more successful than ours. President Waters believes other forms of co-operation should come first in this country, that we should begin with neighborhood or community co-operation in livestock production, dairying, fruit-growing and the marketing of products, first—taking up other forms of co-operation later when our experience, or needs justify it.

EAST ANGLIA was sodden, the harvest black in shock or oft uncut, and lying a tangled mass of grain. It had been raining the greater part of six weeks to the despair of the Cambridgeshire farmer. Reaching the city of Cambridge at this time, I decided to tarry a few days in the village of Sawston, 7 miles south. Taking the motor-bus conductor into my confidence he named several possible places where I could get accommodation, among them the White Lion inn. After an interview with Mr. Alfred Fuller, its genial proprietor, I was snugly ensconced at this well-known hostelry, suit case and traveling bag, in the quaint and scrupulously clean inn bedroom overlooking the village street, and, myself, thoroughly at home. Meals were laid for the wandering American in the inn parlor, and such meals. Bacon and eggs, bread and butter, chops, tea, cake, marmalade and jam—fare to satisfy the most fastidious appetite, and such courteous service. Mine host was a widower, but his sister, who was one of the village's capable teachers, and a neighbor to help, carried on the work of the house. Before I left, however, I learned that the names of the White Lion's owner and a Norwich young lady had been "up in church," and thus the inn will have another mistress.

Traffic of a Country Road.

The village was an old one, its street quite narrow in places, in fact one could reach across with a long fishing pole here and there. Some of the houses jutted over where the second story began, many were of the plaster prep-

aration which was the forerunner of stucco, and some were of thatched roof instead of slates or tile. There was a narrow strait right in front of my window, and through that poured the traffic of the great London road, motor-bus, touring car, motor-bike, great motor drays (often piled high with ale barrels,) and horse drawn vehicles of every description, traps, dogcarts, carts, wagons, pony chaises. The road! Aye, it was superb, they all are, perfectly drained laterally—rains did not stop the motors a bit.

"What do you know about that 'co-op' up the street?" said I to my host. "It's all right," he answered, "I belong, and it pays 1 and 9 in the pound, besides 4 per cent on the value of the share."

One and 9 in the pound is 42 cents on each \$4.86, or a trifle less than 9 per cent.

A Village Co-operative Store.

I went up the village street and right opposite the old cross where the street widens and one part leads toward the parish church, I found the long



"Sawston Co-op," the co-operative store of the village of Sawston which with its branches does a business of about \$100,000 a year. Cut reproduced from an engraving printed on one of its reports.

frontage lettered with the name "Co-operative Mercantile and Industrial Institution," and entered to chat with the manager and salesman, and to be introduced in his private office to the secretary of this store and its branches. The goods were first-class, a stock that one could see was moving in the trade, and the customers passing in and out attested that. Up-to-date appliances were in use, and quiet politeness marked every sale whether large or small. Groceries and in fact all goods were about the same in price as at all other stores, very little cheaper if any. Of course, the whole scheme of these stores may have lowered the standard of credit prices once in use, but the differing feature now is in the dividends and interest, and possibilities of saving and of investment associated.

From a Small Beginning.

In the secretary's office I was privileged to see the early reports from his books and compare them with the later. In 1867 when the business began the volume for the first quarter was only about \$1000 and there were only a few shareholders. Yet, it paid 5 per cent on the capital invested, and put 2 1-8 or about \$5.25 in undivided surplus. Now, for the third quarter of 1912, there are 1066 members, and the sales for quarter were 23,550, and of the profits 1-9 in the pound or nearly 9 per cent went to the members on their shares, \$29 was added to the education fund, and about \$13 to surplus.

In the Penny Bank department we find \$3,001. This includes perhaps several other deposits for investment, but all small. Any member can find in the "co-op" concern a place for investing any savings, being assured interest on every pound from the time that it is put in.

Not only that, a poor laboring man

or mill hand can pay down 1 shilling (24 cents) on his share, and 3 pence, (6 cents) for his book of rules, etc., and let the profits upon his purchases go to pay up the rest of his share. In cases in these societies where the share is paid up by installments, the weekly payment is only 3 pence (6 cents). The fully paid up share is only £1, and in the Sawston society, no member is allowed to hold more than £50 (about \$240.)

It is a significant fact that in this village of 1,600 people there are 1,066 members of the "co-op," of course this number includes the surrounding country to the village. Their departments cover grocery and general merchandise, drapery (our dry goods) and boots, bakery, coals, meals, confectionery, oil van, farm produce. In some places toward the North of England and the South of Scotland everything bought and sold is included, even a shave can be obtained in the "co-op."

Everything Except Housekeepers.

I told a canny Scotch manager that he had left out only one thing that I could see, that he provided material to build the house, to feed and clothe the young couple, and supply all household needs, even insurance under the new law—and in connection (for working people) doctor's care—but there was no provision to supply a housekeep-

er in case the boy was too bashful. He said they would have to open a department for that and complete the work.

The Sawston store also, is an investor in a wholesale and manufacturing way. It owns stock in the co-operative Wholesale Ltd. (about \$5,000), receiving interest for the quarter of about \$130; in the Kettering Boot society; the Kettering Clothing society; the Co-op. Per Building society; the Kettering Corset society; the Rothwell Boot society; the Co-op. Insurance society; the Co-op Printing society; the North Wales quarries, Ltd., the Hebden Bridge Fustian society and the Garden City Press, Ltd.

A Network of Organizations.

Besides the above societies, several of whom have also loans made them by the Sawston association, there is a loan to the Glenfield Boot society. These are all co-operative organizations and their goods are handled over the counters of the stores. There are many other lines made by co-op. concerns that are bought through the Wholesale Co-op., including furniture of all kinds, clothing, cocoa, margarine, gravy salt, pickles, etc. In the Insurance, Ltd., named above, there are 975 co-operative societies federated.

Now, as to the management of such a business as that at Sawston, it might be thought that there are specially trained or experienced men upon its board of directors. That is not so. Two days after going through the stores, I sat at the tea table of one of its active workers, a man who had served it on the board, and found him simply an intelligent factory mechanic, modest but gifted with a rare common sense. The hour spent with him and his hospitable wife was all too short in our

(Continued on Page 13.)

PROFIT

If you could invest in a machine today—and be sure that its proper use would increase your returns from the oats harvest \$7 per acre—from winter wheat harvest \$6 per acre—from spring wheat \$3 per acre—over and above what you have been getting, remember, you wouldn't hesitate before investing.

Well, that's exactly the kind of profit you can make if you buy a HAWKEYE Grain Grader and Cleaner. On 100 acres of oats some of its users have cleared \$700 more—on 100 acres of winter wheat \$500 more—on 100 acres of spring wheat \$300 more. The

HAWKEYE

Grain Grader and Cleaner

Is the surest money-making machine on the market. It grades corn and all grains and grass seeds so you can plant good seed for big, profitable yields. It cleans thoroughly—two machines in one—guaranteed by the manufacturer to do all we claim for it, to satisfy you, to make money for you.

Don't go into another season without owning a HAWKEYE, so you can use it to improve the quality of your seed and the quantity of your yields.

Plant corn graded by the HAWKEYE and you'll have three good kernels in every hill 97 times out of 100—and an ear on every stalk when corn harvest comes.

Look into this proposition. Ask your dealer to show you the HAWKEYE and write us quick for full particulars so you can have one of these machines this year.

The Maytag Co.

360 North St. Newton, Iowa



FREE WATCH, RING AND CHAIN

Our fully guaranteed, stem wind and set, richly engraved watch, proper size; and brilliant 14-karat ring, are given FREE to anyone for selling 20 jewelry articles at 10¢ each. Order jewelry now; when sold send \$2.00 and we will send you watch, ring and handsome chain FREE.

HOMER WATCH CO., Dept. 21, CHICAGO

Put Your Grain in the Sack—and Not in the Stack

YOU know that many times there is grain enough wasted in your straw stack to pay your thresh bill. Why? Because you have not insisted upon the best machine to do your threshing. The

Red River Special

saves it and puts the money into your pocket. Why? Because it employs the only true and certain method of beating the grain out of the straw. All other machines expect the grain to drop out.

The Red River Special beats it out just as you do by hand with a pitchfork.

The Big Cylinder, the "Man Behind the Gun" and the up-lifting shakers beat all the grain out before the straw leaves the machine.

Thousands of farmers are saving their thresh bills by using the Red River Special. You can, too, if you insist upon a Red River Special doing your work.

Calvin Brown and seven other farmers of Higginsville, Mo., say, "It really does save the farmers' thresh bill by not wasting his grain."

R. F. Lumm, farmer of Percival, Iowa, says "The Red River Special saved all the grain." You can save yours. Hire a Red River Special. Write for proof.

Nichols & Shepard Co.

Builders of Threshers, Engines and Oil-Gas Tractors
BATTLE CREEK, MICHIGAN

GOOD NATURED AGAIN

Good Humor Returns with Change to Proper Food.

"For many years I was a constant sufferer from indigestion and nervousness, amounting almost to prostration," writes a Montana man.

"My blood was impoverished, the vision was blurred and weak, with moving spots before my eyes. This was a steady daily condition. I grew ill-tempered, and eventually got so nervous I could not keep my books posted, nor handle accounts satisfactorily. I can't describe my sufferings.

"Nothing I ate agreed with me, till one day I happened to notice Grape-Nuts in a grocery store, and bought a package out of curiosity to know what it was.

"I liked the food from the very first, eating it with cream, and now I buy it by the case and use it daily. I soon found that Grape-Nuts food was supplying brain and nerve force as nothing in the drug line ever had done or could do.

"It wasn't long before I was restored to health, comfort and happiness.

"Through the use of Grape-Nuts food my digestion has been restored, my nerves are steady once more, my eyesight is good again, my mental faculties are clear and acute, and I have become so good-natured that my friends are truly astonished at the change. I feel younger and better than I have for 20 years. No amount of money would induce me to surrender what I have gained through the use of Grape-Nuts food." Name given by Postum Co., Battle Creek, Mich. "There's a reason." Read the little book, "The Road to Wellville," in pkgs.

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

Use Caution—Don't be Defrauded!

The great popularity and the heavy demand for the famous Martha Washington Comfort Shoes made only by the F. Mayer Boot & Shoe Co. of Milwaukee, have caused dishonest dealers to sell cheap and inferior imitations to their customers when the genuine Martha Washington was wanted and asked for.

Mayer Martha Washington Comfort Shoes

You can slip them on and off at will—elastic at the sides insures perfect fit and free action of the foot. You get rest, relief and solid comfort. Durable, neat and durable. If your dealer cannot supply you, write to us.

The Mayer trade mark and the name "Martha Washington" are stamped on the sole. If you do not find these marks, you are being defrauded.

FREE—For the name of a dealer who does not handle Mayer Martha Washington Comfort Shoes, we will send free a beautiful 15x20 picture of Martha Washington.

F. Mayer Boot & Shoe Co.
Milwaukee.

No Buttons—No Laces



The Genuine DUNLOP

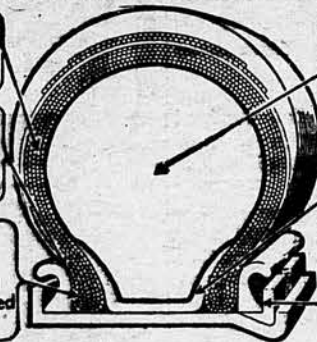
Straight Side Tire is an Ideal Tire for Country Use

6 Distinctive Points of Superiority

1st The most flexible tire on the market

2nd Absolutely guaranteed not to rim-cut during the life of the tire

3rd Held immovably to the rim by seven strands of imported piano wire



4th No tire has ever been built with a larger average air capacity than this Dunlop

5th Tube-pinch is made impossible by this special protecting flap

6th Fits any Quick Detachable Rim

Everywhere men who use their cars in cross country service are turning to the Genuine Dunlop straight side tires.

Here they have found a tire that is fortified at every possible point to withstand the extra rough service over country roads.

Country drivers want maximum flexibility in their tires—they want protection against rim-cuts and tube pinching—they want security of fastening and extra size.

The Genuine Dunlop Tire combines 21 of those advantages and in addition has the extra strength and durability that comes from the co-operative four-factory methods of manufacture used *exclusively* in the making of *all* United States Tires.

The Dunlop is in no sense a new tire.

It was placed on the market over ten years ago, and has been steadily gaining in popularity since then.

But remember—the Genuine Dunlop, the only tire that combines all the advantages of this type—is made exclusively by the

UNITED STATES TIRE COMPANY

Makers of the Famous Nobby and Chain Tread Tires
(Made in 3 Styles including the Dunlop)

Silo Number Next Week

SO FAR as the Mail and Breeze has been able to discover, it was the first publication to get out a silo number. Its third annual silo special will appear next week supplemented with a "Dairy Annex" and will give first hand the experience to date of the leading stockmen and farmers of Kansas with silage and the silo. Nothing quite so interesting in silo literature or so informing on the practical side of the subject has ever appeared in a single number of any publication.

Novel Silo Experiment

O. R. Ingraham of Riley county has just finished a solid wall concrete silo on his farm. It has a cement water tank on top of 170 barrels capacity, fed by a windmill. The purpose of the tank is to provide a gravity high-pressure water system for his home, which he has equipped with city conveniences, and for wetting down silage wherever necessary in filling the silo. He has given the Mail and Breeze the details of the construction of the silo and tank for next week's silo number.

A Common Notion Disproved

The belief is quite common that there is more or less risk in feeding silage to horses. The experience of James Carman, Phillips county's well known horseman goes to disprove this notion or apprehension. In his article for the Silo Number of the Mail and Breeze he says, "We feed it to everything from weanling colts to brood mares heavy in foal and are well pleased with results. They all like it and are looking fine. The article describes his method of feeding silage to his horses."

Cistern-Made Silage

This was a country preacher's experiment. The Rev. B. D. Brooks, pastor of the Methodist church at Bunker Hill, Russell county, got the idea from a talk he heard on underground silos while on a college train that was touring western Kansas. He had an old cistern at home and decided to fill it with silage. Rev. Brooks will relate the result of the experiment and how it was conducted in next week's Mail and Breeze.

Silage For Calves and Cattle

Some very interesting information on this subject will be contributed by George Fernie of the Fernie Ranch in Reno county; by Clarence J. Solt of Washington county; Moses Brothers & Clayton of Barton county; and by C. L. King of Comanche county, all successful cattlemen of sound judgment and ripe experience.

Other Notable Features

Silage for steer fattening will be discussed by C. M. Garver, Abilene, Kan., who uses two silos.

C. H. Hinman, of Colorado Agricultural college, will write on "Silos for Dry-Farming Conditions".

There will be a symposium of letters on calf raising by Mail and Breeze readers.

Albert Dickens of Riley county and George H. Randolph of Lyon county will relate their experience in feeding silage to dairy cows.

W. W. Thayer, of Fairview, Brown county, will tell how he lined a wooden silo with cement.

H. E. Hostetler, Harper county, will discuss the practical details of silo construction with concrete, based on his experience with this material.

How a Babcock tester and pair of scales showed a Kansas dairyman that he was milking 10 cows just for fun, will be related by C. A. Dawdy, a breeder of Guernseys in Jewell county.

F. W. Edmunds, for nearly 40 years in the creamery business in New York state, Nebraska and Kansas, will write of the growth, influence and success of the Independent Creamery at Council Grove, Kan.

Orville Matthews, of Oswego, Labette county, will describe and illustrate with drawings how he built an "Ohio" silo on his farm. These silos are square outside with rounded corners inside and finished with flooring.

The story of Kansas' first Cow Testing association in Dickinson county will be told by O. E. Reed, dairyman of Kansas Agricultural college, who will also give us the details of the remarkable year's record of Maid Henry, the 13-year-old Holstein cow in the college herd at Manhattan.

If room next week, and if not coming later, the Mail and Breeze will publish a story of the remarkable achievements of the Warden sisters, in Oklahoma, whose Three Sisters' Dairy Farm is probably the only one in this country conducted and operated solely by women.

One More Good Chance Left

PROBABLY there will be one more good chance between now and spring to burn out the chinch bugs—after which we shall have to let nature take its course.

This is to ask every reader of the Mail and Breeze to make a final and a determined effort at the moment that chance comes to take the utmost advantage of it.

Whether you do this or not, and whether you think so or not, the results of the coming crop season will largely depend on your action, or inaction; for taken collectively the Kansas readers of the Mail and Breeze are so numerous they have the well-being of the state in their hands, both agriculturally, and industrially and commercially.

Let everyone lend a hand by burning over his own bunch grass and weed patches, his fence corners and roadsides. Will readers who have already done this tell of any handy way or "knack", they have learned of doing such a job and let the Mail and Breeze print it for the benefit of the others?

Silo Experts Are on Call

HELP FROM THE COLLEGE.

The farmers institute season in Kansas closes in March, when demonstrations in orcharding, such as pruning, spraying, etc., will again be a feature of the college extension work. Orchard troubles of any kind referred to the college authorities at Manhattan will bring assistance or advice. Three-day schools in horticultural subjects will be conducted in neighborhoods where enough interest is manifested.

There will again be men in the field to supervise the building of cement silos. This year preference will be given to western Kansas in this line of work. An investigation will also be made to find localities where dairy breeding stock may be secured for Kansas. Where arrangements can be made, a man will be sent to buy cows in car-load lots. Three-day schools will be offered in dairying, stock judging, and poultry raising.

For the women folks, old and young, there will be schools in cooking and sewing, lasting one week each. These schools will be held wherever there are a sufficient number of women interested enough to ask for them. Rural communities as well as towns are entitled to them but no schools are to be held in towns where domestic science is being taught in the public schools, if other places call for the time.

Further information along any of these lines will be gladly furnished by J. H. Miller, director of the college extension service at Manhattan.

Country Life in England

(Continued from Page 11.)

chat about village progress, and his queries about the United States, of great interest to him because he has a son successfully winning his way in the West. I found that this type of men take their responsibilities seriously in a matter like the co-op, and grow to bear a part in large undertakings.

These co-operators usually manage to get a capable secretary, and a store manager who has had a little experience. Very often the manager is the former owner of the business whom they have bought out. But, the checking and auditing system is quite closely looked after and there are practically no failures.

In the United States there have been many attempts at co-operative store-keeping but a rather large percentage have achieved nothing. The new movement in Minnesota and in Wisconsin, however, is having success.

In Wales (Great Britain,) the opening of a store by each co-operative society has been found an essential factor, in fact in that principality the two lines of effort, sale of the farmer's products, and the purchase of his necessities have developed together. Coming along not quite so rapidly have been insurance and co-operative banking. Leading thinkers have stated that this last is absolutely essential to a truly successful co-operative movement. However, it is not necessary to hold back all other unifying plans for it, and places where it is practically unknown are making a success of purchasing and selling organizations. One country, seldom referred to in any discussion of co-operation has brought isolated and sectional efforts into a unified although many-sided scheme of organization, complex it is true but also harmonious in scope and operation. Of that I will write later. It has included what I consider a good plan in co-operative finance.

The Brush Grower's Chance

Mr. Editor—Now that the government at Washington is going to probe the broomcorn combine I wish you would let your readers know about it so that every grower may write his senator and congressman to use their best efforts in the matter. There is no crop with such an up and down market as broomcorn. Often the man with the best brush gets the lowest price. It is now up to the farmer to strike while the iron is hot. This can be done by writing your representatives at Washington. Do not let a good cause die down but let all broomcorn growers wake up and act.

Logan, Okla. Wm. J. Benner.



Bill Galloway Says:

"I Want to Send YOU One of My 1913 Model Spreaders Right to Your Farm—FREE!"

Not One Cent to Pay—No Bank Deposit
Thirty Days' Trial Absolutely FREE!

Just Send Me The Coupon—Do It To-day

DON'T send me a dollar—no, not one cent! Keep your money—let me take the risk. And I'll do it willingly. Just tell me—"Galloway, I'm willing to give your new 1913 spreader a good, fair trial of your risk." That's all I ask. You'll get the spreader just as quick as I can ship it. Test it any way you want to. Then decide whether you want to keep it on this amazingly liberal proposition or send it back and let me pay the freight both ways. I'll put it squarely up to you and I'll accept your decision without a word or question. Now let me tell you briefly

Why I Am Making This Offer:

Now, I know that you can tell more about my spreader in a half-hour's actual

use than you could by reading all the ads I ever wrote. So I'm just going to send you the spreader itself and let you be the judge. I want you to put it through every test you can think of. Take the toughest, tramped-down, unrotted slough-hay manure from the calf yard. If it's frozen, so much the better. Drive out into the field—get your team into a fast trot AND SLAM IT IN GEAR! Do that again and again, and AGAIN! Then, if you can find any fine, powdered manure, load it in and see how it handles that.

Notice how easy it is to load the low-down body. See how easily two horses can do the work it uses up three or four horses to do with the big, horse-killing types. Examine the exclusive patented features. It's the only double-drive spreader on the market having power furnished by BOTH wheels alike to move the load and run the beaters. It's the only roller-bearing spreader. It's the only end-less screw, force-feed spreader. This feature alone makes the Galloway worth \$25 more than any other spreader in the world. Notice how the pull between the wheels is brought entirely upon the reach, making it not only the lightest, but the strongest and most durable spreader known. Use the Galloway a whole month. If that isn't enough, say so, and I'll let you keep it for two or even three months. Then, if you can't honestly say—"Galloway, this is the best spreader in the world"—then I want you to ship it right back to me and I'll cheerfully pay the freight both ways, so that the trial won't cost you one single cent.

The Only Way Is the Galloway Selling Direct From Factory to Farm!

If you do decide to keep my spreader, after having had the free trial, I'll put \$25 to \$50 in your pocket right at the start. You don't pay any middlemen's profits—you don't pay any salesman or dealer to help you make up your mind. The whole deal is just between you and me—AND YOU ARE THE SOLE AND ONLY JUDGE.

Now, Here's Something I've Never Done Before:

I'm going to make you a better proposition for 1913 than anything I've ever made. I'm going

to tell you how you can get your spreader PARTLY OR ENTIRELY FREE! There's no work, no soliciting, no canvassing—I mean exactly what I say. Can't tell more about it here, but I'll tell you all the details in a personal letter when you write me.

Here's the Kind of Letters I Get Every Single Day

Gentlemen—I received my spreader and came out home and got a neighbor to help me start it. We loaded a load of light manure and drove on solid ground. The machine went off without a hitch—just fine. So we drove back, and loaded a load of heavier manure and tramped it and drove to the field on a piece of soft plowed ground, and my team weighing 2500 lbs. just went right through with it. My neighbor said he could not see any difference in the draft when in gear or out. From what I have seen the No. 4 is as good as you say. Very truly,
E. L. GRAY.
Ellis City, Kan.

Gentlemen—The more we use the spreader the better we like it. One of the most attractive things about it is its light draft; two horses take it easily, loaded full up, over soft ground. Yours very truly,
Wapcom, W. Va. E. HERBERT & SON.

Send the 'Coupon' Now! or a Postal or Letter

Get My Three Great Books FREE!

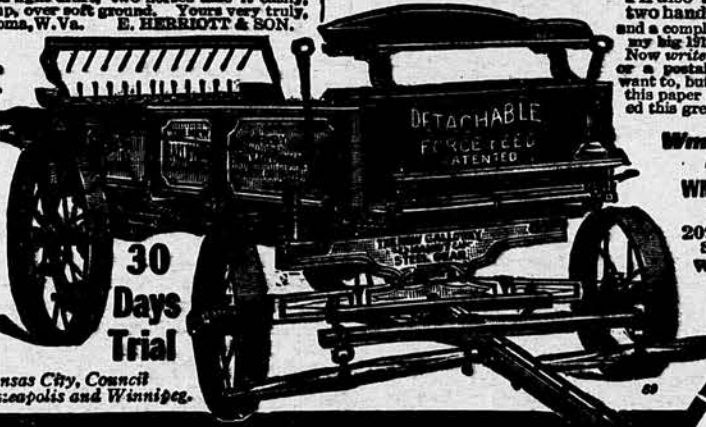
I want you to get my great book "A Streak of Gold" free. It's the only book of its kind in the world. It tells you how to make manure so valuable that it's just like finding gold on your farm. Explains how to produce manure; how to care for it, how to spread it. It's a regular fertilizing manual in clear, plain English. The regular price is one dollar, but I'll send it free. Then I'll also send my other two handsome big books and a complete explanation of my big 1913 offer. Now write. Use the coupon or a postal or letter if you want to, but don't put down this paper until you've clipped this great 1913 offer.



\$39.50 and up for Spreader Attachment

\$64.75 and up for Complete Outfit

We carry Spreaders in Stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg.



Wm. Galloway President
WM. GALLOWAY COMPANY
209 Galloway Station, Waterloo, Iowa.

Wm. Galloway, Pres.
Wm. Galloway Company
209 Galloway Station; Waterloo, Iowa.

I'll admit I'm interested in your new 1913 Spreader Proposition. Send me full particulars and your three books—including "A Streak of Gold"—all FREE.

Name.....
Town.....

R.F.D.....State.....
We will also send you FREE our new 5-color, big, 144-page general merchandising book—giving 1,000 or more bargains in machinery, buggies, harness, furniture, rugs, draperies, etc.; everything you need for the home.

Let Me Send You This Book and I'll Quote Wholesale Prices



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

Try Any Monmouth For 30 Days—Free

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

DIRECT FROM FACTORY. FREIGHT PREPAID, SO YOU KNOW EXACTLY WHAT THE COST IS

Mail coupon or postal now. I've been making and selling Monmouth farm tools for years. You ought to know me. I want to know you. Write me today. The Plow Man,
Monmouth Plow Factory,
421 So. Main St., Monmouth, Ill.



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

My Name.....
Town.....State.....

Farm Tools That Stand The Test

In purchasing tools for the farm care should be taken to select the ones that stand the test. Hoes, Manure Forks and Garden Rakes bearing the name Keen Kutter are positively guaranteed the finest quality made. If you want to save money, time and worry, safeguard yourself by asking for the kind marked

KEEN KUTTER

A lifetime guarantee of absolute satisfaction or money back from your dealer.

"The Recollection of Quality Remains Long After the Price is Forgotten."
Trade Mark Registered. —E. C. SIMMONS.

If not at your dealer's, write us.

SIMMONS HARDWARE
CO., Inc.

St. Louis New York
Philadelphia Toledo
Minneapolis
Sioux City
Wichita

Sweet Clover As a Crop Its Value For Stock and For the Soil

By A. M. TENEYCK, Iowa Agricultural College
Written for Farmers Mail and Breeze.

SWEET CLOVER, or melilot, also called Bokhara clover, is closely related to alfalfa and American clover, being one of the legume family. It also has an effect on soil similar to that noted for alfalfa and clover; that is, certain bacteria living on the roots of the Sweet clover take nitrogen from the air and supply the plant with this food element, thus enriching the soil. The roots of the Sweet clover plant are large and penetrate deeply into the ground, improving the physical condition of the soil.



A. M. TenEyck.

The Plant Is An Annual.

The plant is by nature an annual, or in part, a biennial. It may start one year and seed the second year, when it dies. It often starts in the fall, lives through the winter, and renews its growth in the spring, but the plant ceases to grow when it matures seed. In waste places the plant continually

allowed to reseed sufficiently to maintain its stand.

Grows Well in Many Soils.

Sweet clover is a hardy plant and grows well in almost any soil, from sandy land to heavy clay. It should be a good fertilizing crop to grow on poor soil or "worn" land for the purpose of supplying humus and improving the physical condition of the soil. Also the crop may be a valuable one to use in orchards as a cover crop.

The plant has a place in certain localities as a soil improver and rotation crop. Where alfalfa or common Red clover do not succeed well, Sweet clover may supply their place, furnishing pasture and forage rich in nitrogen, and improving the fertility of the soil when used in rotation with other crops in a manner similar to the improvement of soil fertility by growing alfalfa or clover.

Good For Preceding Alfalfa.

Sweet clover should make a good crop with which to precede the sowing of alfalfa. It appears, as stated by the Illinois Experiment station, that the bacteria which grow on the roots of the Sweet clover plants will soon infect the roots of the alfalfa plants. It is recom-

Will Sow One Thousand Acres

Editor Mail and Breeze:

I have received a good many inquiries for Sweet clover seed from the readers of the Mail and Breeze who read my article. It is astonishing the number of people who desire to sow some of this clover all at once. Out of a little more than 900 bushels, which I raised last fall, I have sold the Barteldes Seed Company, of Lawrence, Kan., a large carload, the first carload, I am told, of one man's own raising ever sold in the world to their knowledge. I have also shipped seed to various states from California to New York and am sowing myself 1,000 acres more which just about cleans up my 900 bushels. I am sending orders accompanied with drafts back to buyer. On the 1,000 acres that I am sowing I am using an end gate seeder and sowing about 35 acres per day. With the 500 acres of clover that I have well set, of the old stand this will keep me busy this fall if weather is favorable.

Garden City, Kan.

E. G. FINNUP.

Mr. Finnup, Finney county's farmer-banker, sold about \$8,450 worth of seed and hay last year from 80 acres of Sweet clover and doubtless feels he can chance this immense acreage, as it is likely to benefit his land whatever the outcome. He has had the best success in getting a stand by sowing without plowing on prairie bottom, sowing right on the grass and doing nothing more with it. Plowed land he runs over with a light drag. Farmers Bulletin No. 485 of the U. S. department of agriculture, Washington, D. C., gives a good idea of the use of Sweet clover and may be had by writing to the department. Mention Farmers Mail and Breeze.

EDITOR.

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reseeds itself, and the ground in which it is growing is filled with dead roots, which add humus and nitrogen to the soil as they decay.

There are two varieties of Sweet clover, the yellow and the white, distinguished by the color of the blossoms. The white is a common roadside weed in eastern Kansas, and seems better adapted for growing there than the yellow. However, either variety will make a rank growth under cultivation.

Sow Early, Spring or Fall.

When growing in cultivated fields Sweet clover should be sown early in the fall or early in the spring, the seedbed being prepared in a manner similar to that for seeding alfalfa. Sow about 40 pounds of seed per acre. No cultivation is required after the Sweet clover is seeded. There appears to be little preference between the two varieties, the yellow blossom and white blossom. If the Sweet clover is used for pasture, it should be closely pastured, or if the growth exceeds the cropping by the stock, run a mower over the field. Likewise, if the crop is saved for hay it should be cut early in order to secure a good quality of hay, also to insure a second growth.

As Sweet clover is an annual it will be necessary to reseed it each year in the cultivated fields. In pastures, especially in grass pastures, it may be

mended by the Illinois Experiment station to grow Sweet clover or to secure soil from places where Sweet clover is growing and spread this soil over the land which is intended to be seeded to alfalfa. In certain parts of Kansas, especially in the southeastern part of the state, the value of Sweet clover in preparing the land for alfalfa should be thoroughly tested.

The growing of Sweet clover in rotation with other crops or plowing it under for green manure in the western counties of the state may in part solve the problem of restoring vegetable matter and humus to the lands which have already been cropped too long continuously with wheat.

A Valuable Stock Feed.

The feeding value of Sweet clover is variously estimated by different farmers in different parts of the country. Some declare it has practically no feeding value, others consider it equal to alfalfa or Red clover. The plant is objectionable for pasture or hay on account of its bitter taste and rank growth of stem. It is asserted by those who have used Sweet clover for pasture that stock will become accustomed to it and relish it, provided the plant is not allowed to grow to maturity. For pasture or hay Sweet clover should be sown very thickly. With a thin stand the plants grow too rank and coarse. The compo-

sition of Sweet clover is similar to that of alfalfa. The composition may be compared with alfalfa, clover and cowpeas as follows:

	Protein.	Moisture.	Fat.	Carbohy- drates
Sweet clover.	12.56	8.37	3.01	36.39
Alfalfa	16.48	6.95	2.02	42.62
Clover	12.84	13.30	2.11	48.31
Cowpeas	19.72	10.29	4.0	45.15

Said Not to Bloat Cattle.

Those who have pastured Sweet clover say it is a safe pasture for cattle and will not cause bloat. It appears, as far as composition is concerned that Sweet clover should make valuable hay. So much favorable report has been made lately regarding the value of Sweet clover for hay and pasture, that I do not question it may be a valuable stock feed.

As an ordinary roadside weed Sweet clover has no particular value for feed, because it usually grows too coarse and stemmy, and many farmers have passed judgment on its value simply by observing it as a roadside weed. It appears, however, from reports from other farmers that when the Sweet clover is sown thickly in cultivated fields that it makes valuable pasture and may also be used for hay, and there is no doubt but that the crop is a valuable fertilizer, either in rotation crop or when plowed under for green manure.

Sweet Clover as a Hay Crop.

No extended experiments in growing Sweet clover as a forage or green manuring crop have been made at the Kansas station. At the experiment station at Manhattan, in 1904, a plot of Sweet clover seeded in the spring of the previous season yielded at the rate of 1.81 tons of cured hay per acre, only one cutting being secured. This was the yellow-blossom Sweet clover. The crop was allowed to reach the blossoming stage before cutting, and it did not make a second growth. The hay was very coarse and stemmy and was not eaten by stock.

It appears from the reports of many farmers that cattle, horses and sheep will pasture on Sweet clover and apparently do well on it. When sown thickly so that the stems are not too coarse, and when cut early before the flowering, it makes hay which is readily eaten by all kinds of stock. However, the bitter principle in the plant is the objection to it either for hay or pasture and usually stock do not eat it readily, until they have become accustomed to the feed. Then doubtless they would leave it for other hay which they relish better. Those who declare Sweet clover to be superior to alfalfa have doubtless not been very successful in growing alfalfa.

Need Not Be Feared As a Weed.

Sweet clover is not a noxious weed, although many may consider it hard to eradicate. A rank growth of Sweet clover is rather unsightly along the roadside, and should be cut to prevent seeding. By persistently cutting the clover during the blooming stage the plants may soon be eradicated, and it is usually easily controlled in cultivated fields.

Shall We Grow Broomcorn?

BY CARLETON R. BALL,
U. S. Department of Agriculture.

Mr. Editor—It should be borne in mind that broomcorn is a limited crop for which there is a fairly regular demand for a definite quantity which increases slightly from year to year but does not fluctuate very widely. Practically all the crop grown in the United States is used in North America, only a very small quantity being exported.

Price and production, however, frequently fluctuate violently, due on one hand to under-production or a greatly increased acreage following high prices the previous year, or from unusual yields following favorable growing and curing conditions in any given year. On the other hand, it may be due to over-production caused either by reduced acreage following low prices, or to a short crop caused by unfavorable conditions.

For the very reason that broomcorn is a limited crop only those should undertake its production who intend to continue as broomcorn growers and who are able and willing to produce brush of good quality with profit. There are many such growers in the United States who always, year in and year out, obtain a good price for their brush without regard to general market conditions.

No-Rim-Cut Tires 10% Oversize

One Million Sold Another Million in a Single Year

One year ago—in our 13th year—we announced that one million Goodyear tires had then gone into use.

This month we touch the two million mark, and it's only one year later.

It took 12 years to bring motor car owners to use a million of these tires.

It took only one year for those million tires to sell a million others.

Mark What Those Tires Told

A million tires, within 12 months, sold a million others. That breaks all the records of Tiredom.

Don't you think you should know how they did it?

This is How

Men found that rim-cutting, with old-type tires, ruined 23 per cent of their tires.

They found that Goodyear No-Rim-Cut tires ended this loss entirely.

Men also found that the 10 per cent oversize added 25 per cent to the average tire mileage.

Hundreds of thousands of men

learned this, then told the facts to others.

The resulting demand now compels an output of 6,000 tires daily.

Are They Wrong?

You who still use other tires must infer that these men are wrong.

But these are days of odometers. Men are keeping track of tire mileage.

Mileage figures only sold those million tires—the mileage figures on the previous million tires.

And Goodyear sales, because of

those figures, are seven times larger than two years ago.

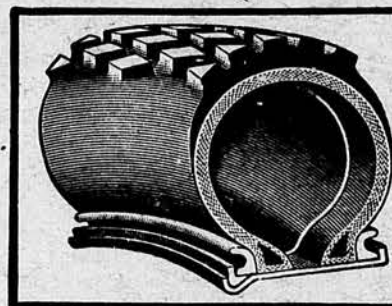
Find Them Out

For your own sake, test No-Rim-Cut tires. They save the average user almost half one's tire bills.

Think how that cuts tire bills. Think how it saves annoyance.

These tires now outsell every other tire in the world. Find out why they do it.

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.



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It Does the Work of Three Teams

Is Built for the Hardest Wear and is a Wonderful Convenience and Money Saver

With this rig you can do more work in one-half the time than three men and three teams can do in a day. It hits the nail right on the head and it is built for the hardest wear and tear. It is guaranteed to give the best of service and satisfaction. Notice the size of the wheels, the large hubs, heavy, durable spokes and rims, axles strong and yet not too heavy, and wheels of just the happy medium—neither too high nor too low. You can put on the back seat and take your family to church or for a pleasure ride; you can haul your pigs, calves, sheep, milk, poultry, eggs and vegetables to market and be back home again before you could even reach town with a horse and wagon. Just think of the convenience of a rig of this kind. When you want something from town in a hurry you can jump into this transport and you have got it before you know it. You can go to town for your groceries, flour, feed, furniture, hardware, cement and lumber or anything you can think of and you can do it cheaper than you can drive a horse and wagon.

HOW I MAKE THE PRICE

There is only one way that I could make a price of \$595 on a rig of this kind, and that is by making them in big quantities. Remember this auto transport is no toy. It is practical, durable and built of the best material that could possibly be used for the purpose intended, and will give you all the service and satisfaction any car could give you even though it cost you twice as much. Send for full description and my special introductory offer that will help you pay for the transport and make you money at the same time. Write me today and you will be mighty glad of it.

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Great Majestic Malleable and Charcoal Iron Range

Don't Buy Any Range Sight Unseen

If you were buying a horse, you wouldn't want any printed description—you would want to look him over mighty carefully so as to know you were getting your money's worth. So, before deciding upon any range the wise woman will go to the local dealer and examine the Great Majestic Range closely—it will stand the test of comparison point for point, with any range ever made. When you have made this comparison—your choice will be the range with a reputation.

The Majestic Outwears Three Ordinary Ranges

It is the only range made of malleable iron and charcoal iron. Charcoal iron won't rust like steel—malleable iron can't break. Outwears 3 ordinary ranges.

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The Majestic is put together with rivets—joints and seams remain air tight forever. Body lined with pure asbestos board—you can see it. Takes but half the fuel—assures perfect baking.

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The reservoir is all copper and heats through copper pocket, pressed from one piece, setting against fire box. Holds 15 gallons of water. Just turn lever and reservoir and frame are instantly moved away from the fire.

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For sale by dealers in nearly every county in 40 states. Any Majestic dealer can furnish any size or style Majestic Range with or without legs. Write for our booklet, "Range Comparison."

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Pull the stumps from your fields and replace them with big crops. Don't pay taxes on idle land.

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pulls an acre of stumps a day. Pulls biggest stump in 5 minutes. Guaranteed against breakage for 3 years. 30 days free trial. Send name for book, free—and special low-price offer. Address Hercules Mfg. Company, 935 21st St., Centerville, Iowa, U. S. A.

Fence Making Suggestions

From Readers of the Mail and Breeze

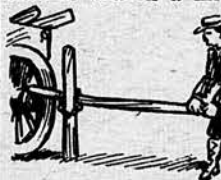
HERE is a brace for a fence post that is easily and cheaply made. The brace is entirely underground and pushes nearly straight against the post, instead of tending to push it out of the ground as so many braces do. In stretching the wire there are no brace poles or wire in the way. A large rock makes a good anchor.



P. W. Dennison.
Garden City, Kan.

Makes Post Pulling Easy.

Mr. Editor—I have Frank Shoup's scheme beaten a mile when it comes to pulling up posts. Take up a pole or small sized post, and with a stay chain looped around the pole and post to be pulled, place the short end on the hub of the wagon wheel. The long end of the pole gives you a good leverage which brings the post up readily. Throw the post on the wagon and drive on to the next.



A. W. Johnson.
Galena, Okla.

A Double Brace For Corners.

Mr. Editor—I set my corner post 4 feet into the ground, tamping the earth down well. The brace post is set 10 feet from the corner and 3 feet deep. A sound brace is then placed against the corner post half way up while the other end reaches the base of the brace post. Then No. 9 wire is put on as shown and twisted up tight. I have never seen a brace that is more satisfactory, and it is easy to put up.

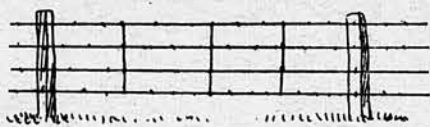


L. H. Beard.
Hall's Summit, Kan.

To Stop the Creeping Habit.

[Prize Suggestion.]

Mr. Editor—The reason cattle crawl through the fences is because the wires spread when they reach through to eat, and they soon learn to go all the way



THE WIRES CANNOT SPREAD.

through. To overcome this fasten two or three wires vertically between each two posts and you will have almost the equal of a woven wire fence. The same principle may be used in making a wire gate, the wires being better than wooden uprights.

Walter D. Ward.

Neosho Falls, Kan.

A Reader's Handy "Fence Fixer".

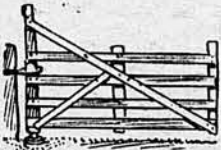
Mr. Editor—I have a handy fence fixer made of a piece of iron rod $\frac{3}{4}$ -inch in diameter and 2½ feet long. I bent this in the shape of a brace and drilled two small holes in one end. There are many ways in which such a tool may be used. By putting the two ends of a barbed wire through the holes this end of the tool may be placed against the post and the wire wrapped about it, stretching it as tight as a fiddle string. One can also wrap the wire around a post or twist it about another wire with this contrivance.

Elmer Million.
R. 3, Pond Creek, Okla.

Some New Ideas in Hinges.

[Prize Letter.]

Mr. Editor—One of the handiest things on the farm is a gate that does not sag and will not break your back in swinging it around. This is the way to get it: Take a 4 by 4 about 6 to 8 feet long, and fit one end to an old wagon spindle. Bury the hub with a few spokes on to hold it

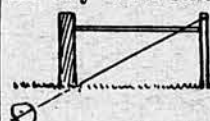


firm, leaving the hub exposed to the sand band. Round off the 4 by 4 near the top of fence and place a hoop about it to serve as the upper hinge. This band may be a piece of wagon tire. Mortise the 4 by 4 for the boards and brace the gate as shown in the drawing. Set the spindle into the wagon hub, bolt the upper hoop to the corner post and you have a gate that I think is just about perfect.

J. H. Carter.
R. 2, Havana, Kan.

An Underground Anchor Brace.

Mr. Editor—In setting corner posts for any wire fence, it is best to set them in concrete. A post set in the ground in concrete, 18 inches or 2 feet deep, is better than one set down 3½ without it. Set a brace post in the line of the fence, several feet away, and use a pole placed horizontally from one to the other for a brace. From a "dead man" buried behind the corner post, run some No. 9 wire up to the top of the brace post and twist up tight. The "dead man" may be a large stone or chunk of wood, the first preferred.



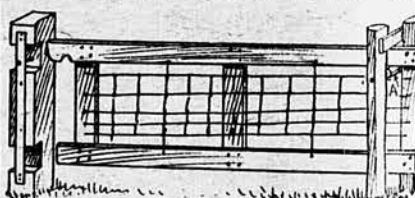
Whiting, Kan.

R. E. Love.

Here's a Good Roller Gate.

[Prize Suggestion.]

Mr. Editor—This sketch represents a gate that almost any boy handy with tools can make. Mine has a good, straight grained board for the top while the others are ordinary 1 by 6 fence boards. The center is filled in with a scrap of hog wire. The roller



ROLLER SHOULD WORK FREELY.

shown at A is the main feature of the gate. It is 2 inches in diameter and has no flange. The drawing shows how the gate is locked at the other end.

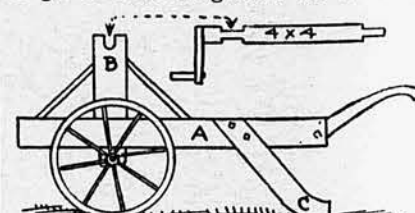
Norwich, Kan.

J. A. Crandall.

How To Make An A No. 1 Wire Cart.

[Prize Suggestion.]

Mr. Editor—This is a sketch of a wire cart I use that has proven very satisfactory. Its worst fault is that I have to go to some neighbor's for it when



ALL THE NEIGHBORS BORROW IT.

ever I want it. A pair of cultivator wheels and handles came in handy in making it. The two pieces A and uprights B are of 2 by 6 pieces, the former 6 feet long, and the latter 3 feet. C is a 2 by 4, 3 feet long, rounded at the bottom. A special spool with boxing made of two 4 and two 6-inch boards fits over the spindle, and is used in rolling up wire. A pipe or rod passed through the spool on which wire is bought will do in unrolling. One man can roll up or unroll wire with this cart. In rolling it up, the wire will pull the cart along as fast as you wind. In unrolling, fasten the end of wire and pull your cart.

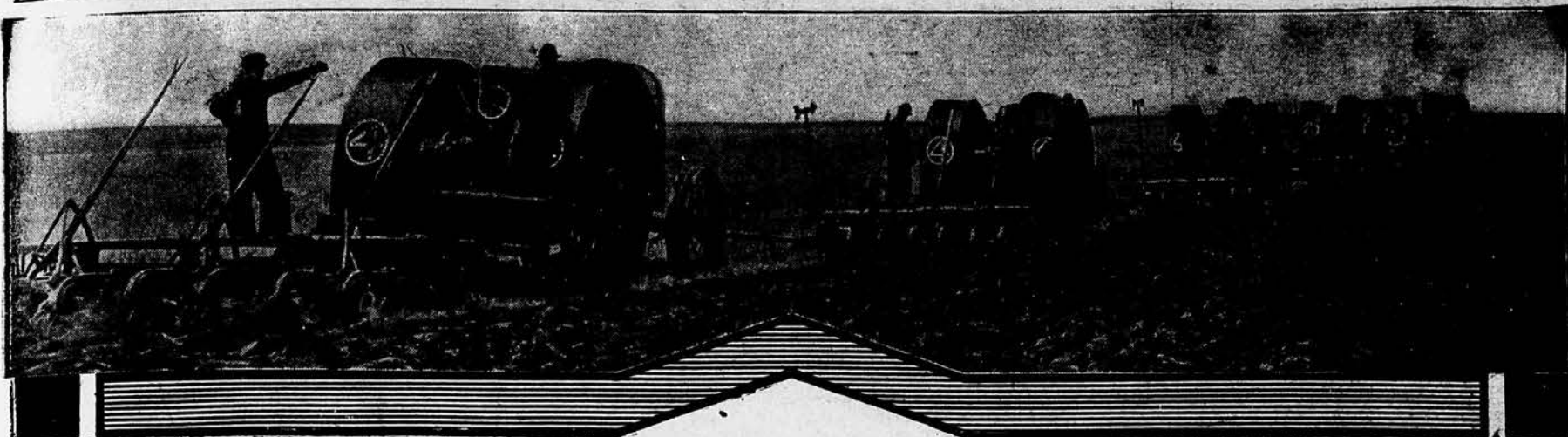
Vern L. Goss.
R. 1, Dwight, Kan.

Keep the Hogs Thrifty.

If there are signs of worms in your hogs, feed concentrated lye, ½ tea-spoonful to each animal well mixed in slop or soft feed.

In the fattening pen give the pigs all the feed they will readily clean up, but no more.

Bran and meat meal help to supply the young sows with muscle and bone.



Why the BIG FOUR is Sold On Approval

Frank Woods, Bowbells, N. D., plowed an equivalent of 3335 acres of stubble plowing, and had a threshing run of 35½ days.
 Murle Perry, Frankport, S. D., has broken 500 acres, plowed 1500, disced 3200 and harvested 1000 acres.

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

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

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

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

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

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

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

Large Drive Wheels

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

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

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

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

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

Transmission and Differential

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

Self-Steering Device

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

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

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

Sold Absolutely On Approval

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

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

REDUCES COSTS INCREASES PROFITS

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

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

Write For FREE Catalog—TODAY

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

Big Four "30" Farm Tractor

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

Fuel Consumption

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

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

Emerson-Brantingham Implement Company

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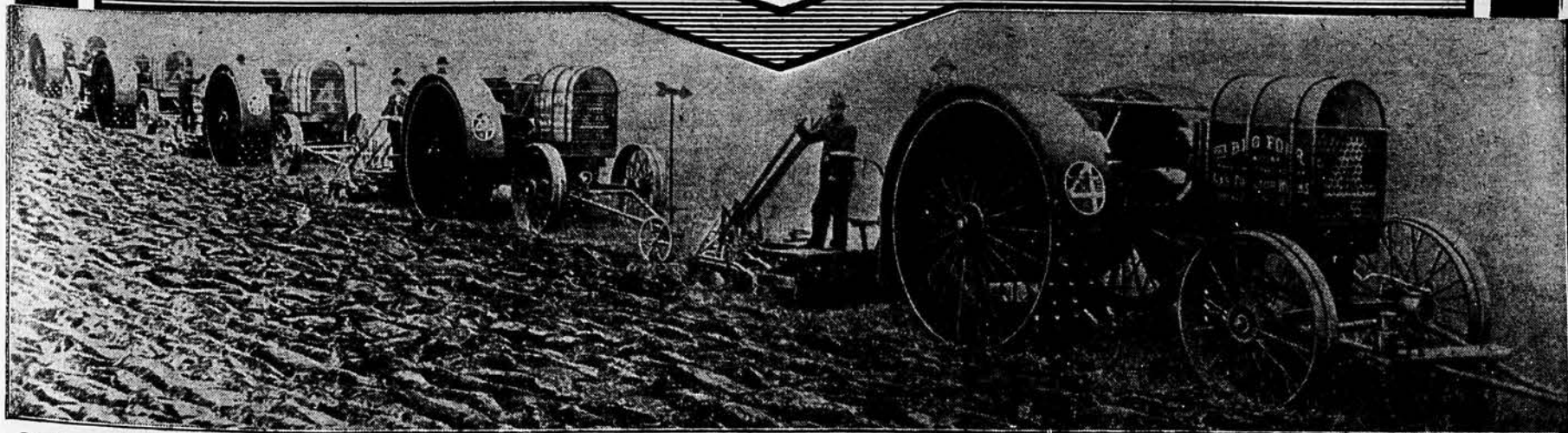
Rockford, Illinois

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ORCHARD & GARDEN

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Smooth, even, medium-sized potatoes, make the best seed.

A mild, showery day in early March is ideal for top grafting.

For a fine, early, yellow peach, put a half dozen Triumph trees in your next nursery order.

Why not plant a fruit or nut tree in the fence corner where the weeds are now in full possession?

Pruning close to the main stem and painting over all large wounds, makes the operation safer to the trees.

Early Ohio for first plantings and Carmen No. 3 for the late patch, will hold their own with any potato varieties.

One insect eating bird like the chickadee has been known to eat 5,000 canker worms in a single day. These are the birds to make welcome in the orchard.

Planting trees in wet, soggy ground is not advisable. It is better to wait until ground dries out a little when it will pack about the roots more readily.

To get a large limb from splitting in removing it from the tree, it is a good idea to saw from below until the saw begins to pinch. Then finish the cut from above.

Radish and lettuce seed may now be planted out of doors as soon as the ground will do to work. We may have some more severe weather but it is well worth risking a dime's worth of seed on it.

A Forcing Bed For Plants.

[Prize Letter.]

Mr. Editor—My hotbed is 3½ feet wide and 12 feet long. The pit is 2 feet deep. Three posts are driven in along the south wall, to about 6 inches above the surface. Along the north wall three similar posts are put in, each 1½ feet above ground. A 6-inch board is then nailed to the posts all the way around, a 12-inch board on top of this on the north side and the sides sloped to match. The pit is filled with fresh stable manure up to the boards, then wetted, and 5 inches of soil from field or garden put on top of the manure.

Poultry wire is stretched over the top of frame and nailed on the north side. When seeds are planted muslin is tacked to the north side of frame and several loops made along the opposite edge are hooked over nails. This makes a convenient bed as one can lay a strip across the frame and rest on it while planting or working in the beds. I uncover the bed on warm spring days to make the plants hardy. Such a bed will give you strong, stocky plants in about a month and they will be much better than you can buy in town. Besides you have them when you are ready for them.

Zeandale, Kan. P. G. Smith.

Why Not a Berry Patch for Home?

[Prize Letter.]

Mr. Editor—It seems almost a crime not to grow some small fruits when they can be raised so cheaply and easily. Yet there are comparatively few home berry patches. It costs little to start a patch of strawberries, raspberries, or blackberries. In most cases the children could take care of them after planted, and would enjoy the work, especially the picking part.

Many people think a raspberry patch must be renewed every three or four years. I have a small patch set out in 1900 that bore the biggest crop last year since it was planted. They are of the Kansas variety, with very strong and vigorous canes. I trim the vines in early spring, removing all dead canes, and clip back the new growth of canes just before the berries ripen as it makes picking more convenient. I work the patch well with a hoe, leaving all trash

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

and weeds on the ground between rows. For experiment's sake, I am going to leave this patch to see how long it will bear good crops of fruit.
R. I. Troy, Kan. O. S. Condit.

Irrigation Tile of Lath.
[Prize Letter.]
Mr. Editor—I am doing some garden irrigation here with a windmill, but upon a plan that I have never seen or heard of being used elsewhere. I think I am having remarkable success. I first tried running the water in ditches with the result that part of the ground became water soaked while other portions did not receive enough moisture. Then the ground baked badly and required much care and cultivation. To meet these conditions, I have tiled my garden with a tile made from common lath, put together and laid in the ground. This arrangement is inexpensive and meets the conditions almost perfectly. My soil now receives moisture evenly distributed. It no longer bakes or cracks, and I am using possibly not more than one-fourth of the water I formerly used besides securing better results. My garden requires less than half the cultivation necessary under the ditch system and is much prettier, as I have done away with the unsightly ditches. It is cultivated as nearly level as I can get it. I have had some of this tiling in the ground for the last three years, and it appears upon examination to be in as good condition as ever. The cost of such tiling as I have is less than 1 cent per foot, which places it in reach of all who want or need it.
Guymon, Okla. J. F. Newsom.

Tile and Water Saved the Trees.
[Prize Letter.]
Mr. Editor—It so happened that our western country was well worked over by fruit tree agents in the fall of 1910. At that time the farmers were looking for opportunities to spend some of their ready cash and it fell to the lot of the fruit tree agent to furnish the opportunity. It goes without saying they did a good job of it for to my personal knowledge there was scarcely a farmer in the whole country that did not order from \$15 to \$85 worth of fruit trees. Out of this vast number of trees, perhaps less than 5 per cent lived through the summer of 1911.
Along with the others I invested something like \$30 in fruit and ornamental trees to be planted in the spring of 1911. As everyone remembers, that spring was very unfavorable for tree planting. After putting the money into the trees I decided it would pay to spend a few more dollars to save the trees. I bought a supply of 4 and 6-inch tile in 2-foot lengths. After planting the trees I dug a hole near each tree with a post hole digger and set a tile upright in each hole leaving 8 or 10 inches above the surface. The earth was well tamped in around the tile and these were occasionally filled with water. I did not lose a tree that was cared for in this way. This method of watering did away with one bad fault of surface irrigation in that it kept the soil from baking. I submit this experience to other western Mail and Breeze readers who may be thinking of planting trees this spring.
Quinter, Kan. A. R. Long.

Farm Schooling For All
In order to bring Kansas Agricultural college still closer to the farm, shop, and home, a secondary school of agriculture, mechanic arts and home economics will be established next fall. It will take students directly from the eighth grade or rural schools and allow them to complete the new courses in three years. These courses will necessarily include only the more practical instruction, fitting boys for the farm and the industries, and girls for the home. Students finishing these courses may continue on into the long courses and complete these if they so desire.
The establishment of the new courses will mean that a farm boy or girl can get a good, practical education, far in advance of what the present short courses offer and at the same time not need to spend from four to five years in completing the longer courses. The same plan has been worked out in Minnesota the last 25 years and has proven very successful. It is also in vogue in Colorado and Wisconsin.

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The corn is a large pure-white, deep grain, matures in less than 100 days and is an extra heavy yielder. I believe this to be the greatest opportunity ever presented for the readers of my paper to make a record increase in the quality and yield of future corn crops. The way to improve the corn crop is by the use of high-bred seed—and here is seed which I believe cannot be equaled by any other, no matter what the price. A few pounds of this seed should bring enough fine quality seed to plant your entire acreage next year.

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J. M. IRVINE, Editor, Box 112, St. Joseph, Mo.

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Shows how to plant and care for an orchard, when to spray, etc. Tells how to make \$400 per acre from cherries—\$300 from berries—\$250 from grapes and \$200 from apples. I have no agents. Apple trees \$5—Cherry trees \$6—Grape vines \$2 per 100. Forest Seedlings—Flowers—Bulbs—Seed Corn. I guarantee better trees for less money. Your money back if not satisfied. Freight paid. Get this free catalog at once.

B. HANSEN, The Nurseryman,
Box 23 Established 1880 Fairbury, Neb.

FOSTER'S FORECASTS

(Copyright 1912 by W. T. Foster.)

To Farmers Mail and Breeze:

Washington, D. C., March 1.—Last bulletin gave forecasts of disturbance to cross continent March 4 to 8, warm wave 3 to 7, cool wave 8 to 10. This will be about an average disturbance and therefore of no great importance. The interesting matter in connection with this weather event is the kind of weather it will give to Washington for the inauguration. The indications are favorable to moderately fair weather for that event. According to our calculations, made about middle of January, the cool wave will be due at Washington on March 4 and therefore clearing weather may be expected for the inauguration.

Next disturbance will reach Pacific coast about March 10, cross Pacific slope by close of 11, great central valleys 12 to 14, eastern sections 15. Warm wave will cross Pacific slope about March 10, great central valleys 12, eastern sections 14. Cool wave will cross Pacific slope about March 13, great central valleys 15, eastern sections 17.

This disturbance does not promise any dangerous storms but there are indications of more than the average rainfall for March 1913. But the rainfall of this disturbance will probably be in the country from Galveston, New Orleans, Houston, San Antonio and Dallas, north to eastern Kansas. It also promises rains in the New England states. Elsewhere probably dry. Large parts of the country are threatened with a March drouth and a general thaw.

Again we hang out danger signals for March 16 to 28. We have no doubt that very destructive storms will occur during that two weeks period but, as we cannot now locate them, all should be on the alert for them. Much property and some lives might be saved by being prepared.

Flower Garden Suggestions

BY JAMES H. BURDETT.

[Written for Farmers Mail and Breeze.]

The sweet pea, which is a flower that everybody likes and is unexcelled for prolific blooming and for producing cut flowers, should be planted very early. In Kansas some of the most successful sweet pea growers plant the seed in the fall. This gives the plants a better root system early, and they nearly always do better than the spring-planted sweet peas. Sow the peas in trenches 6 inches deep, covering with an inch of soil at first and drawing in more and more from time to time as the plants shoot up until the trench is entirely filled with soil.

The nasturtium is old fashioned, but it has held favor against all newcomers. It is one of the easiest flowers to grow, flourishing in almost any soil where there is good sunlight. Dwarf or tall plants in a score of color combinations may be obtained. The dwarf variety makes an excellent border for a shrubbery plantation.

The petunia is of remarkably easy culture and makes a constant show.

For beds where a brilliant color display is desired few annuals surpass the Shirley poppy. Its petals have the sheen of silk. Some flowers are double, and some single. The colors range from purest white to scarlet.

Zinnias are large plants suitable for back rows and hedges. They may be obtained in nearly all colors. They flower profusely all season, and flourish where more delicate flowers would die.

Never Slip Wire Tie

[Prize Suggestion.]

Mr. Editor—The illustration shows how to tie a wire very securely. First make a loop of one wire over the other, then wrap each wire around the other, one on one side of the loop and the other on the opposite side.

M. J. Schnell.
Canton, Ill.

"The City Man Has No Monopoly on My Light"

Says **BILLY BULB**

"Electric Light is just as applicable to the isolated farm as to the city home—and there's no light that's so safe, dependable and convenient. You can get the benefit of my light on your farm, no matter where it is, by installing an Individual Electric Lighting Plant. These plants are simple and inexpensive. They consist of a small gas engine, a dynamo, a simple switchboard and the famous storage battery called the

"Chloride Accumulator"

This battery makes your light ready on the instant, any hour of the night or day, without the necessity of running your engine. By simply using your engine and dynamo in connection with it for a few hours (whenever most convenient) it stores up and retains—puts on tap, so to speak—the electricity. All the rest of the time you can use your engine for other farm work, safe in the knowledge that your electric light is ready for use, only waiting the touch of your hand on the switch to send it flashing to any desired part of the grounds or buildings.

Learn more about the desirability of Electric Light for farm purposes. Write our nearest office for the book called, "How to Have Electric Lights on the Farm," and convince yourself. Better write at once.

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Ever see a man who wasn't glad to get a pipeful of

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If he doesn't already know Velvet, he soon learns that it is the best tobacco anyone can ask for.

His face will light up with pleasure when he lights up a pipeful of this refreshing "no-bite" Velvet.

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Genuine Montana ALFALFA

is scarce this year. Those who want the true northern-grown strain should buy it quickly. Secure it from us and make sure of getting the right seed.

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But it may lose you the race. Horse won't bring as much at the sale. It looks bad and indicates weakness.

ABSORBINE

Will remove it and strengthen the joint without blistering or removing the hair, and horse can be worked. Cures strains, sprains, sore shins, cuts, bruises, removes harden enlargements, leg, swelling, thoroughness, curbs, capped hocks, stops lameness and all sorts of sore. 25c. at dealers or delivered. Book 1 H. free.

W. F. YOUNG, P.O. Box 209 Temple St., Springfield, Mass.

Bad Potatoes to Plant

Beware of Pointed Seed Ends

BY H. M. COTTRELL

Agricultural Commissioner R. I. Lines
Written for Farmers Mail and Breeze.

THE potato with the pointed seed end and many eyes has driven potato growing out of some of the largest and best potato growing districts of the United States.

Potatoes that yield well and are high in quality are round, oval or oblong. The first sign of degeneration is that one or more potatoes in a hill show pointed seed ends. With this defect always comes an increase in the number of eyes, marked decrease in yield and a still greater fall in quality. The yield becomes so small that the crop is unprofitable, the eyes become so numerous

The potato with the pointed seed end and many eyes has almost killed the potato growing in large areas in Iowa and has made the bulk of Iowa grown potatoes considered undesirable among buyers who want quality. It is seriously reducing the profits from growing potatoes in Kansas, Missouri and Illinois. This type of potato is as unprofitable, unproductive and undesirable as is the "razor back" hog, yet thousands of men who are good farmers in every other respect, plant it.

The potato with the pointed seed end and many eyes, when used for seed,



The potatoes with the pointed seed end and many eyes, used for seed, have killed the potato-growing industry in many states and are seriously reducing the profits of growers in Kansas, Oklahoma and Missouri.

and deep that the waste in cooking is excessive.

When one potato in a hill has a sharply pointed seed end and many eyes, all the potatoes in that hill should be rejected for seed, no matter how choice may be the quality of the others. That hill has started on the downward road in both production and quality.

The potato with the pointed seed end and many eyes has killed the potato industry in the Shawnee, Oklahoma, district. It has driven potato growing out of some of the best sections of the "Divide Country" in eastern Colorado.

will cut down the profits faster than bugs, blight and scab. Most growers notice these three pests quickly and take effective means to combat them. Few growers protect themselves against the potato with the pointed seed end.

A good type of seed, selected from productive hills with good methods of growing, harvesting and marketing, quickly make profitable again potato growing in those districts where the potato with the pointed seed end and many eyes has killed or crippled the business.

Potatoes Year by Year

Methods of a Smith County Grower

BY ERNEST CROWN

Written for Farmers Mail and Breeze.

I HAVE farmed in Smith county 15 years and have always been successful in growing enough potatoes for home use at least, usually a good quantity for market, and all from a very small tract of ground. I have tested several of the leading varieties, but do not believe there is an equal to the Red River Early Ohio as an all-purpose potato. I plant 7 or 8 bushels per acre and usually get an average yield of 100

bushels. I get a bushel of new seed each year from which to grow my seed for the year following. I believe the first crop raised here from this seed is as good or better than the seed we get direct from the Red River valley. But I do not favor planting the homegrown seed after the second year.

I make sure my seed is free from scab by dipping it in a solution of corrosive sublimate (mercuric bichloride). I pul-



Mr. Crown's homemade bug-spraying outfit with which he can cover a 4-acre potato patch in one day and "get" about every bug. Right now is a good time to rig up such an outfit. "In time of peace prepare for war."



The Telescope of Speech

The astronomer, by the power of his telescope, becomes a reporter of the movements of a hundred worlds greater than ours, and the student of celestial activities millions of miles away.

He points his instrument at any spot in the heavens, and his sight goes rushing through space to discover and inspect a star hitherto unknown.

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As the telescope may be focused upon any star, so the telephone may be focused upon

any person within the range of its carrying power.

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The telescope is for a very limited class, the astronomers. The telephone is for everyone.

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AMERICAN TELEPHONE AND TELEGRAPH COMPANY
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Anything that helps you keep disease from hogs is certain to increase profits at market time; and in helping you do this Lewis' Lye is therefore worth many times its cost. In safeguarding your money investment in hogs—don't overlook the importance and value of Lye. Lewis' Lye, because of its guaranteed purity, full strength—its simplicity of feeding—has long been recognized as the surest hog conditioner.

The genuine has a Quaker label on every can.

Lewis' Lye

The Standard for Half a Century

Saves its cost hundreds of times a year for others. When fed to your hogs consistently, according to our specific directions, it will do the same for you—and produce big, fat, healthy animals at market time.

On The Farm—

Lewis' Lye, as the pure lye it is, is especially recommended as a hog conditioner and preventive of disease. It is also valuable as a disinfectant and for spraying trees, vines, etc., etc.

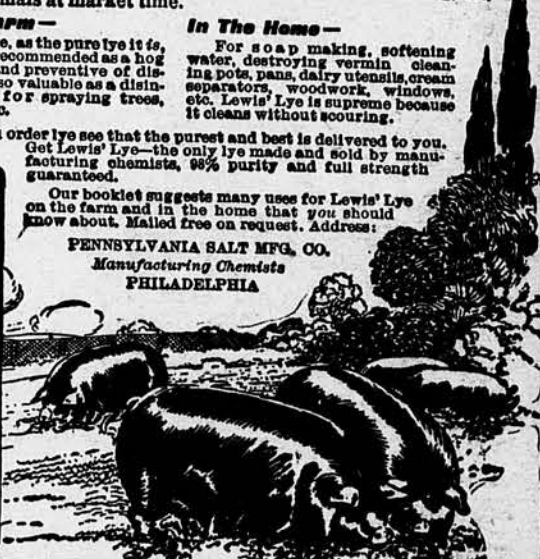
In The Home—

For soap making, softening water, destroying vermin, cleaning pots, pans, dairy utensils, cream separators, woodwork, windows, etc. Lewis' Lye is supreme because it cleans without scouring.

When you order lye see that the purest and best is delivered to you. Get Lewis' Lye—the only lye made and sold by manufacturing chemists, 98% purity and full strength guaranteed.

Our booklet suggests many uses for Lewis' Lye on the farm and in the home that you should know about. Mailed free on request. Address:

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GAS PULL

15-30 h.p.

It really fits any sized farm.

You can count on a Gas-Pull all the time—there's a job it can do every day in the year.

Plowing, baling, sawing, harvesting, threshing, hauling, etc. It does any kind of work.

It's so light and handy—a boy can take it anywhere on the farm and run it without trouble.

It's well built, all the working parts are protected and it's inexpensive to buy or to run.

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Power-Farming Machinery
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Keep the neck and shoulders in good healthy condition. Prevent sores, galls or rubbing. The porous Ventiplex fabric absorbs all sweat and moisture. The air freely circulates through the fabric keeping the neck and shoulders dry and clean. When the pads get soiled, you can wash them as you would clothes. They hold their shape. Your dealer should have them. If he hasn't write us.

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The economical, practical tractor for modern farming. Light in weight, strong and powerful, easy to operate. The real one-man tractor for belt or field work.

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Fish Bite Like hungry wolves if you use **Magic-Fish-Lure**. Best fish bait ever discovered. Keeps you busy pulling them out. Write to-day and get a box to help introduce it. Agents wanted. **J. F. Gregory**, Dept. 81, St. Louis, Mo

verize $\frac{1}{4}$ pound of this and dissolve in a bucket of hot water, then mix it with 30 gallons of water. Before cutting the potatoes I immerse them in this mixture for about $1\frac{1}{2}$ hours. After taking them out the potatoes may be cut at once or dried first. The solution should be kept in wooden vessels as it eats metal but does not injure the hands. It is poisonous however, and should be buried with the potatoes left over.

In cutting the potatoes I leave from one to two eyes to the piece according to the size of the pieces. They should not be cut too small as they must furnish nourishment to the young plant until it becomes strong enough to extract its food from the soil.

Potatoes require a rich soil and abundant moisture so I select the newest, low-lying land on the farm for the patch. I plow 9 or 10 inches deep in the fall, and if possible, cover it with a good coat of manure in winter. As soon as frost is out in the spring I disk and follow with the harrow which puts the ground in condition for planting.

We plant as early as the season will permit, which in this section is usually about March 20 to April 15. Not having a planter I mark out the rows with a lister and two horses, making the furrows 7 or 8 inches deep. The seed is dropped 12 inches apart and covered with a cultivator, not quite leveling the furrows. As soon as the plants are up I run the harrow crosswise which levels the ground, covers all weeds in the row, and renews the soil mulch. I harrow again in 10 days or as soon as a crust forms after a rain, this time following the rows.

I cultivate with a two-horse cultivator after each rain or every 10 days if it does not rain. Early cultivations should be moderately deep but after the tubers begin to form they should be shallow. I keep working the patch until the crop begins to ripen.

I have had a hard fight against the bugs the last two years. As soon as a considerable number appear on the vines I spray them with a solution of $1\frac{1}{2}$ pounds of paris green to 50 gallons of water, putting it on when there is no likelihood of rain to wash it off for two or three days. This treatment is repeated as soon as the eggs on the vines at the first spraying have hatched. This second spraying should be all that is needed unless more bugs get into the patch.

The spraying outfit I use is one of my own make except the pump. A sled as wide as the rows and 4 feet long has a 25-gallon keg bolted on the platform and the pump is bolted to the bottom of the keg. Any good continuous spray pump will answer the purpose well. I use a slow, gentle team on this outfit, throw the lines about my shoulders and thus have both hands free to use the pump. With this rig I can spray 4 acres a day and get nearly every bug. A boy to do the driving would be a big help. **Smith Center, Kan.**

A Demonstrator For S. E. Kansas

A special farm demonstrator has been assigned to southeastern Kansas through the co-operation of the federal government and the Agricultural college at Manhattan. The man selected is H. J. Bowers of Greenwood county, a graduate of the Agricultural college who is chosen because of his knowledge of soils. He will begin work on March 5. His activities will extend over nine counties, Cherokee, Labette, Cowley, Neosho, Wilson, and Bourbon will have from six to eight demonstration farms each, while Anderson and Montgomery will have a fewer number. No crop experiments will be undertaken that will not be profitable. The work will simply call for a few acres on which regular crops may be grown according to certain directions.

A "Farm Adviser" For a Dollar

Mr. Editor—The only "farm adviser" we want is the Mail and Breeze. Its 2,400 pages per year for \$1 give us all the advice we have time to practice.

Edward Lind.

Cedar, Kan., February 4, 1913.

Some day the fruit business of the country will be so handled that there will not be fruit hunger in one section and a surfeit in another.

After You Have Seen All the Rest You'll Decide on the "Ann Arbor."

Balers come and balers go, but the Ann Arbor remains the favorite with the man who doesn't care to take chances with new-fangled ideas and theories, but is looking for assured results. For over 26 years it has been the choice of the man who knows.

And we have been right with it all this time, studying it part by part, improving everything about it where our experience could possibly suggest an improvement.

The big success of the "Ann Arbor" is not an accident—no, sir. The reason you see so many "Ann Arbor" balers used in this section is because no other baler meets the exacting condition to the satisfaction of the man who knows.

It bales anything from fine prairie and alfalfa to sorghum—does it faster and for less money than any other baler. Ask your neighbor.

Ann Arbor

"THE BALER FOR BUSINESS"

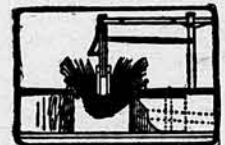
HAY PRESSES

Take the Ann Arbor "20": Measure its big feed hole at the narrowest place (the honest place to measure), then you will see why



The Ordinary Feed Opening

the Ann Arbor patented automatic self-feeder puts in more hay, in better condition than is possible with any other baler.



The "Ann Arbor" Feed Opening

You owe it to your wallet to study this point. Get our catalogue. It explains this and other equally important "Ann Arbor" features.

The "Ann Arbor" is the lowest priced reliable power baler built. Powerful, Simple, Fast.

We build hay balers only, any size or style you need. Every Ann Arbor is backed by our unlimited guarantee and our 26 years' experience in building successful balers.

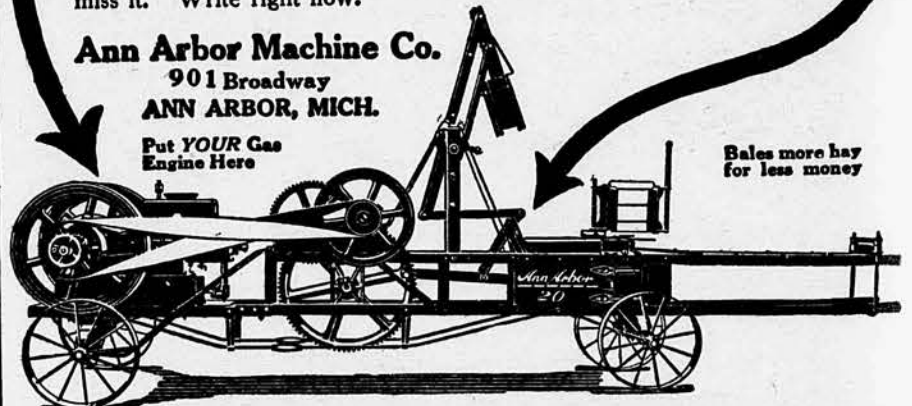
Get our new Big Baler Book No. 1. You cannot afford to miss it. Write right now.

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Put YOUR Gas Engine Here

Bales more hay for less money



Get more Pull from your Horses

You get more pull from your horses when you use **Gamble Equalizers**. They divide the pull evenly between 3, 4 or 5 horses—even the pull to within a fraction of a pound—make horses' work and your work easier. **Gamble Equalizers** work 4 horses abreast—1 in furrow, 3 on unplowed ground. No chance of tug rubbing horses' legs. Pull in direct line—no side draft. Each horse has plenty of room and gets its share of the pull.

Style of Equalizer shown here is for use on 16, 18 and 20 inch sulkeys, and 12 and 14 inch gang plows with cross clevis hitch. Also on disc sulkeys and 12 and 14 inch gangs having wide draw-head. To attach to clevis only one bolt is used. We make clevises and attachments for use with all improvements.

Gamble Equalizers are Guaranteed

to give perfect satisfaction and do everything we say or money refunded. They are the original Equalizers—the best—fully protected by patents. No others like them. Do not accept a substitute. Cost so little you cannot afford to be without them.

Gamble Equalizers are made for 3, 4 or 5 horses—for wagons manure spreaders, potato diggers, harvesters, hay loaders, etc. See them at your implement dealer's. If he does not handle them, send us his name. We will see you are supplied. Send for

Free illustrated CATALOG showing full line of Gamble Equalizers.

STAR MANUFACTURING CO.
Dept. 7. Carpentersville, Ill.

This weight seat proves its perfection



Two-year-old Red cedars in nursery at Kansas Agricultural college. The young cedars range from 12 to 20 inches in height and are just the right size for transplanting to their permanent location.

Red Cedar Windbreaks

Once Established They Stand Much Grief

BY CHARLES A. SCOTT, State Forester, Manhattan.
Written for Farmers Mail and Breeze.

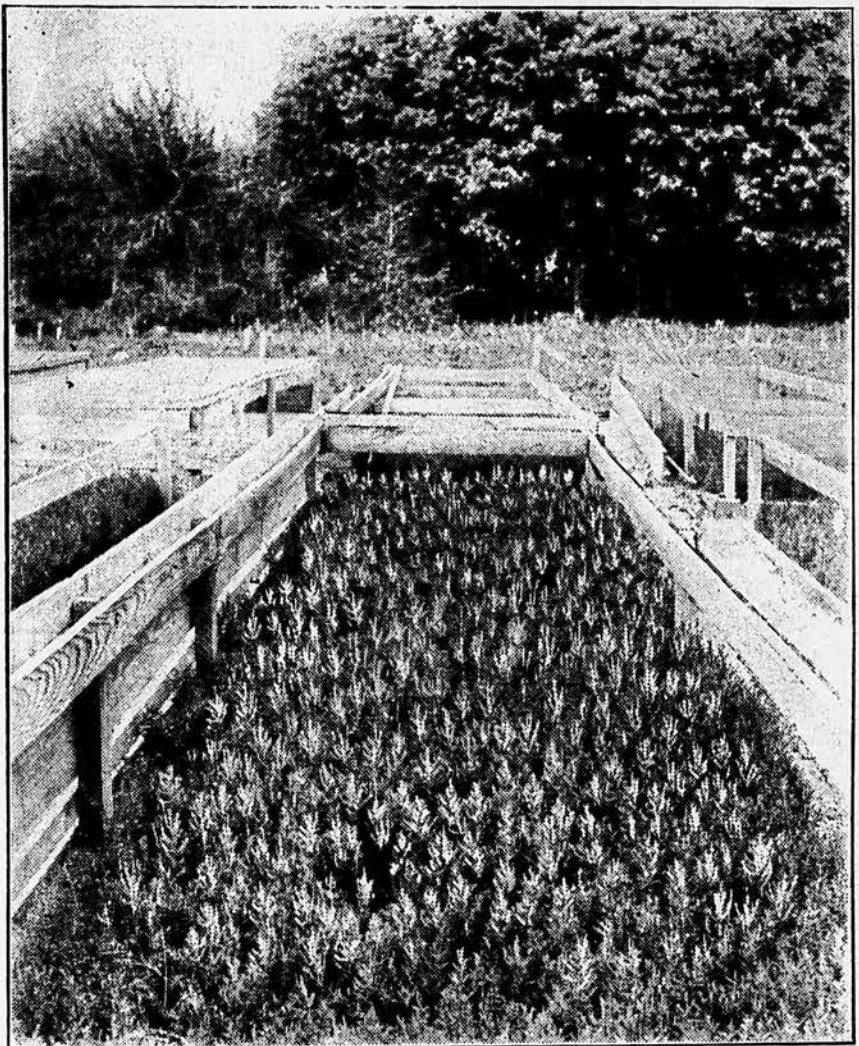
Mr. Scott will be glad to answer questions or advise the readers of Farmers Mail and Breeze in regard to trees or tree planting. Address him at Manhattan and say you want an answer in Farmers Mail and Breeze.

THE RED cedar is one of the few trees which grows successfully in the treeless region between the Missouri river and the Rocky mountains. It withstands the drouth and the cold without apparent injury. Because of its dense foliage it is the best tree for windbreaks. For this reason there is a good demand through the prairie states for cedar planting stock. This demand has led to an investigation of the methods of propagating this species from seed.

Red cedars are the most difficult of evergreen trees to grow from seed. For this reason few nurserymen grow them

in large numbers. The cone scales are tough and leathery and contain resinous oil. These grow together and form a water-proof husk. It is this condition that makes the germination of the seed so uncertain. The seed will not grow until moisture reaches the germ. Any method of treatment that will insure moisture getting to the germ should accomplish the desired purpose if it does not injure the kernel. Simple as this problem may seem, few have really made a success of growing Red cedar seedlings.

To my personal knowledge there is only one nurseryman in the United States who in recent years has claimed he really knows how to propagate the Red cedar. The method used was developed in Germany and has been handed down from father to son for at least



Year-old seedlings of Red cedar at Kansas Agricultural college. At this stage the seedlings are of proper size for transplanting into nursery rows.

Who Can Make the Best Car for You?

The Case "40" is made by the J. I. Case T. M. Company, Inc., at Racine, Wisconsin. You know what this company stands for. For 70 years it has given thousands of customers the finest machinery in its line. These same customers are buying Case Motor Cars. The Case Reputation is at stake in these cars, just as it is in all Case machinery. We can and do make the best "40" that runs. Note the reasons:

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For 70 years we have made machinery to travel country roads in every section of the American Continent. No concern knows so well what these roads demand. No other car that we know is equally fortified against all American road conditions.

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When we started making motor cars we didn't create a new business. We had 10,000 dealers and 65 branch houses before a car was made. We saved that selling expense.

We are capitalized at \$40,000,000. We saved the salaries of officers, sales and advertising departments, rent and other over-

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We Put Them Into the Car

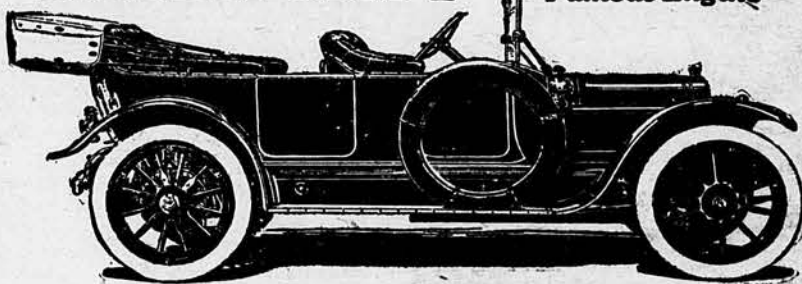
We put all these savings into the car. You pay nothing extra for them. We are able to give them. You might as well have them.

We could save on our motors by using cheaper materials. We could use cheaper clutches, drive shafts, axles, wheels, and save in other essential points. We could cut our assembling cost in two, and this is one of our largest costs.

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Westinghouse Electric Starter; Westinghouse Electric Lighting System for all Lamps; Side and Tail Lamps, Combination Oil and Electric; Warner Autometer; Electric Horn; Rain Vision Ventilating Windshield; English Mohair Top, Side Curtains and Cover; 37x4 1/2-inch Tires; Firestone Universal Quick-Detachable Demountable Rims; 12-inch Wheel Base; Three-Quarter Elliptic Springs; 4 1/2x5 1/2-inch Cylinders; Brown-Lipe Transmission; Timken Full Floating Axle; Rayfield Carburetor with Dash Adjustment; Bosch Magneto, Dual System Single Point Ignition. The usual Tools, Tire Repair Kit, Jack, etc. And in addition Extra Tire and Tube on Rim, Extra Tube separate, Tire Cover, Tire Chains and Handy Work Light on long wire.

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It turns easy, clips fast and stays sharp. Gears are all file hard and cut from solid steel bar. They are enclosed, PRICE protected and run in oil; little friction, little wear. Has six feet of new style easy running flexible shaft and the celebrated Stewart single tension clipping head, highest grade. Get one from your dealer or send \$2.00 and we will ship C. O. D. for balance. Money back if not satisfied.

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on any amount you are going to use. We make 78 different styles of fence and 54 styles of gates. Prices of Ottawa fence range from 11 1/4¢ a rod up, according to height and size of mesh and number of wires used. All fully guaranteed. See our Big Catalog FREE. Pick out the kind of fence you want and let us ship it to you. Will guarantee it to be right or you can have your money back without a single question. Freight is less from Ottawa and our Free Trial offer will protect you. Send for our 4-color Fence Catalog today. It's a Big Money-Saver. OTTAWA MFG. CO., 604 King St., Ottawa, Kans.

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We make you the same price we would make the Dealer or Jobber. That is why we can save you money. Look at these very low prices.

14 CENTS A ROD for 24-in. hog fence.
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Barbed Wire. Large free Catalog showing 100 styles of Farm, Poultry and Lawn Fence. KITSELMAN BROS. Box 52 Muncie, Ind.

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Strongest, most durable made. Basic open hearth wire. Double galvanized. Compare our quality and prices with others.

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150 STILES—18 CENTS PER ROD UP
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24-inch Hog Fence, 14¢.
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80-rod spool Barbed Wire, \$1.55

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11 1/2 cts. a rod

for a 36 in. high fence;
17 1/2¢ a rod for 47 inch high stock fence; 26 1/2¢ a rod for 60 inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barbed wire, 80 rod spool, \$1.55. Catalog free. INTERLOCKING FENCE CO. BOX 25 MORTON, ILLINOIS.

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Big Illustrated Book of Success Secrets FREE

The well-known poultry authority, Reese V. Hicks, has written an intensely interesting and practical book that should be in the hands of everyone interested in raising poultry. This book, "Tricks of the Poultry Trade," tells three methods of selecting the laying hen; A sure and certain method of selecting eggs for hatching; How to raise 500 chickens on a lot 30 by 40 feet; How to build a natural hen incubator; How to build feed hoppers and fireless brooders; How to make feed at 10 cents a bushel; How to make winter egg ration, poultry feeds and tonics, egg preserver, house killers, etc. All these and many more subjects are fully covered in this great book which we're giving away FREE on this plan:

OUR OFFER: We will give you one year's subscription to our big weekly farm Magazine, Farmers Mail and Breeze, one year's subscription to Poultry Culture, the best Poultry Journal in the West, and one copy of this great book of poultry secrets—all for only \$1.25. State whether you are an old or new subscriber. Address at once, Mail and Breeze, Dept. PC-10, Topeka, Kansas

three generations. It is still a family secret.

Some years ago I visited probably the largest evergreen nursery in the United States. While looking over the beds of Red cedar seedlings with the proprietor I remarked that the secret of propagating Red cedars must be an "open secret."

"By the time you have tried growing Red cedars for 40 years you will be unable to see the openness of the secret," said he. "Some years I secure the results you see here now, and then I may have five or more failures in succession. I don't know how to treat the seed to be sure of its growing."

The department of forestry of Kansas Agricultural college has conducted a number of experiments to determine some practical method of treating the seed that would insure germination. After several years' work it was found the best results were secured by stratifying the seed as soon as gathered. While stratified, it was kept in a reasonably moist condition, allowed to freeze as soon as freezing weather set in, and kept in a frozen condition throughout the winter. Alternate freezing and thawing may not be objectionable, but freezing seems necessary.

As soon as the frost went out of the ground in the spring the box containing the stratified seed was buried in a moist location at a depth of at least 12 or 15 inches below the surface of the ground, where it remained until the following spring. It was then taken up and sown in beds and handled in exactly the same manner as the seeds of other conifers.

Stratifying the seed is merely storing it in alternate layers with sand, of sufficient depth to prevent injury by heating or drying out. The continuous action of the frost and moisture on the stratified and buried seed tends to gradually disintegrate the outer covering and allows moisture to penetrate the shell to the kernel. The same processes operate under Nature's method of caring for the seed. When ripe it falls, is sooner or later covered by leaves or settles into the ground and the action of the frost and moisture are the same in one case as in the other.

The occurrence of seedling cedars in orchards and along rail or stone fences is due to certain birds which are fond of the cedar berries. The mechanical action that the seed undergoes in the digestive tract of the birds, clears them of their outer covering and they are cast in the voidings in a condition to be readily acted on by the soil moisture. In all probability a larger per cent of the cedar seed that germinates under natural conditions is seed that has passed through the digestive tract of some bird.

Two More Kansas Soil Maps

Two more Kansas counties, Jewell and Greenwood, have been surveyed by the government bureau of soils and a report on these surveys will be issued next summer. The report will include a topographic map showing in colors the location and extent of various types of soils, the location of all farm houses, churches, schools, public roads, streams and railroads in the counties. In making these surveys, an analysis of the soil in practically every acre of ground on every farm in the county, is made. The value of these surveys lies in the fact that they determine what crops are best adapted in certain localities, farms, or even fields.

Books For Reading Farmers.

"First Principles of Feeding Farm Animals", is the title of a new illustrated book of 355 pages by C. W. Burkett, former director of the Kansas Experiment station. The aim of this book is to give the man on the farm the accumulated knowledge on feeds and feeding, in understandable English. The Orange Judd company, of New York city are the publishers. Another practical, readable book from the same publishers, is "The Young Farmer: Some Things He Should Know", by Thomas F. Hunt, former director of the Pennsylvania Experiment station and now holding the same position with the California station. Both books sell for \$1.50 per copy net.

You get out a fine paper in the Mail and Breeze.—S. A. Crabb, Portales, N. M.



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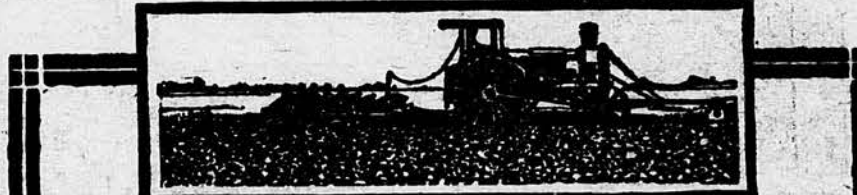
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Good and Bad Catalpa Trees

How to Detect the Worthless Kind

BY J. MONCRIEF, Winfield, Kan.
Written for Farmers Mail and Breeze.

THE most notable feature of true Speciosa catalpa is its erect habit of growth. It is as distinctly upright as the Lombardy poplar. It frequently obtains a height of 100 feet and a diameter of 2 to 4 feet.

The common catalpa seldom exceeds 30 feet in height, has a spreading, very crooked, irregular habit. The trunks usually divide into several branches of about equal size. Notice these characteristics as shown in the illustrations. The difference in bark does not show in young trees, as its real character de-

velops only on older stems. The bark of the Speciosa catalpa is similar to that of the ash, or boxelder, being heavy, thick, and deeply furrowed—the ridges quite prominent. The common varieties have a thin, scaly bark, peeling off in short strips, never deeply furrowed.

The Speciosa catalpa tree shown herewith was grown on the farm of Thomas Mason in Sumner county, Kansas. In 18 years it has reached a height of 70 feet and a diameter of 30 inches. Note its erect habit of growth, as compared with the Soft maple in the background.

Under normal conditions the Speciosa catalpa blooms about two weeks earlier than the common varieties. The flowers are much the same in appearance, although the inferior sorts have a narrow white margin, while the Speciosa catalpa has a broad white border. The seed pods of the Speciosa catalpa grow singly, in pairs, or occasionally three in a cluster. They are, from 14 to 18 inches in length, three-fourths of an inch thick, and the walls of the pod are thick and strong. The pods of common catalpa grow 6 to 18 in a cluster, 6 to 15 inches long and one-half an inch thick, walls thin and brittle.

Speciosa catalpa seed is one-third as broad as long, and has a broad fringe of hairs on each end. Seeds of the inferior kinds are much narrower but fully as long or longer than the Speciosa catalpa, while the hairs at each end are quite long and are drawn to a narrow point, and somewhat twisted.

The seeds of hybrids (crossbred or mixed trees) show characteristics of both parents, so that it is often difficult to distinguish them from the pure Speciosa. Herein lies the great danger as the hybrid catalpas are just as worthless as scrub varieties. A pound of Speciosa catalpa contains about 10,000 seed, while the Bignonioides catalpa and other inferior kinds are much lighter, ranging from 20,000 to 40,000 seed to a pound.

The Speciosa seed will mix readily with that of the common kinds, when both are grown in the same locality. Bees have been known to carry the pollen from the flower clusters as far as 2 miles and this is responsible for the hybridizing. The hybrid tree is almost



Speciosa catalpa tree, 18 years old, on farm of Thomas Mason, Sumner county, Kansas. Height of tree 70 feet, diameter 30 inches. Note its erect habit of growth.

velops only on older stems. The bark of the Speciosa catalpa is similar to that of the ash, or boxelder, being heavy, thick, and deeply furrowed—the ridges quite prominent. The common varieties have a thin, scaly bark, peeling off in short strips, never deeply furrowed.

The Speciosa catalpa tree shown herewith was grown on the farm of Thomas Mason in Sumner county, Kansas. In 18 years it has reached a height

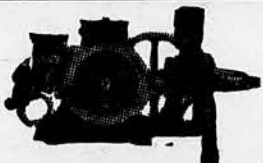


Common, or scrub variety of catalpa. This tree is 25 years old and less than 20 feet high.

as worthless as the common variety and this fact is responsible for many failures. Planters who were positive they had secured seed or seedlings from the true Speciosa had in fact done so, but the seed were hybridized by the presence of worthless trees.

It is not an easy matter to obtain genuinely pure Speciosa seed. On the other hand the seed from common varieties may be secured in large quantities at small expense. For this reason and since the genuine seedling cannot be told from the worthless one by the government forestry experts, even at 2 or 3 years old, there has been opportunity for fraud. Unprincipled seedsmen and nurserymen have foisted both seeds and seedlings upon unsuspecting planters, who did not learn of their costly mistake until years afterward. Many seed houses buy seed in large quantities from seed gatherers. The only object of the seed pickers is to obtain as large a quantity as possible, regardless of the kind of trees on which it grew.

There is only one way to insure safety and profit in planting catalpa and that is to plant the genuine Speciosa. Buy seedlings from a house that has made a specialty of catalpa for years and that can furnish unquestionable proof as to the genuineness and purity of the seed planted. You should demand this proof before you buy your seedlings.



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and a good one or he'll be one of the hands on another man's place before he knows it. GOOD TIMES tend to make everybody reckless except the good business-farmer. They only make him more careful that he gets the limit of INVESTMENT VALUE for every cent he pays out!

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in the Official Rept. (Dept. Agric. Forest Serv. Bul. 95, June 1911), page 33: "Its resistance to decay fits it for Stable-Floors and Timbers near the ground as well as for Fences, Gates, and especially Fence POSTS."

THEN PAGE 24: "AS SIDING IT (CYPRESS) PRACTICALLY WEARS OUT BEFORE IT DECAYS." (TRUE).

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Leidigh's Answers TO FARM QUESTIONS

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

Inoculating Land for Alfalfa.

Will it pay to inoculate alfalfa seed with some of the chemical cultures? Please send me bulletin on cowpeas and anything you have on Sweet clover.—C. P. F., Osage county, Kansas.

If you have land which will not grow alfalfa and you know it needs inoculation, you may secure such inoculation by spreading from 200 to 400 pounds of moist dirt per acre on the land. This dirt should be taken from a successful alfalfa field, and must be worked into the new field without having a chance to dry out. If impossible to secure such dirt, the prepared cultures for sale by the seed houses may be used. We are sending you under separate cover our bulletin on cowpeas and one on grasses and clovers.

A. H. Leidigh.

When and How to Plant Peanuts.

Would you kindly tell me when and how to plant Spanish peanuts and tend them?—C. I. H., Harper county, Kansas.

I would advise you to write to the department of agriculture, Washington, D. C., for farmers' bulletin on peanuts. Briefly stated Spanish peanuts are adapted to rich well-drained sandy soils in a warm climate. They are fairly resistant of drouth and it is hoped they will do fairly well in southern Kansas. The seed must either be shelled or soaked before planting. About 1 bushel of seed will plant an acre. Do not plant until late in the spring. The rows should be of the correct width for cultivating with your ordinary machinery, and the hills should be from 12 to 16 inches apart in the rows. The crop will need hoeing a little in addition to cultivating, and it is especially important to keep the ground loose about the plants at flowering time. After flowering the little pod which will turn into the peanut is forced beneath the soil by the growing plant and the nuts form under ground. Probably the most profitable way to harvest this crop is to pasture it with hogs.

A. H. Leidigh.

Mixed Crops For Silage Often Fail.

I have a silo 12 by 28, also a field of 7 1/2 acres close by, and I would like to plant it in some crop that would fill the silo. This field is slope upland, in pretty good condition. It has been in corn two years. Previously it was in timothy and clover and during that time was well manured. Last year I planted it to three kinds of corn and a half bushel of cowpeas, mixing peas and corn together and planting rather thickly. I found that there would be a few stalks of corn and then a few of peas. The peas did not vine much on the corn and did not amount to much. It took about 3 1/2 acres of Kafir to fill the silo besides the corn from this field.

This year I want to try cowpeas again with corn, but will go over the rows twice, corn once and cowpeas next time. What would be the best kind of corn to plant? Would it do to put Kafir in one box of planter and corn in the other? Last year Kafir yielded more feed than corn but I don't want to plant this field all to Kafir.—G. P. F., Osage county, Kansas.

Ordinarily under your conditions I would not advise attempting to raise Indian corn for silage unless you are on heavy bottom land and wish to have a lot of grain in the ensilage. With good corn you should be able to secure just about enough silage from the area given to fill your silo if you have reasonably good success. If you will use either Kafir or sweet sorghum and give it good cultivation, you ought to secure from 50 to 100 per cent more tonnage per acre than from corn. In fact, it would probably be desirable to plant about half of your area in Blackhull Kafir, at the rate of 15 to 20 pounds of good seed per acre, in rows. And the rest of the area in either Kansas orange or Sumac sorghum at the same rate and in the same manner.

Both Kafir and sweet sorghum should be cut for silage just about the time the seed is ripe. If cut earlier, your silage will be washy.

We do not advise attempting to secure extremely large crops of corn and cowpeas combined for silage except in southern Kansas. This is very satisfactory in some years, but is apt to fail more often than it succeeds. I would never advise mixing corn and Kafir or similar crops. This is because the two crops

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Look at the picture. Notice the air-tight, self-draining, all-wood mortised joint. That patented joint has revolutionized the whole business of building silos by making it possible to construct a perfectly solid stave silo of any desired height. When put together with a little white lead at these joints, a two-piece stave Indiana Silo is as good as if it were made of one-piece staves, and very much less expensive. There is no metal at these joints to become corroded by the acids and no outside moisture can collect in them to rot the wood. This joint adds years to the life of your silo and many dollars to its value, as proven by experience.

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

"You buy an Indiana Silo—but it pays for itself."

do not grow at the same time and they, therefore, require different cultivation and will mature at different times. We never advise the use of any of the large late southern varieties of corn for silage. It would be much better to use a variety of corn that is well adapted to your locality; for such use, Hildreth's Yellow Dent and Commercial White are very satisfactory on the bottom lands; Kansas Sunflower, Boone County White or St. Charles White on the uplands.

A. H. Leidigh.

Improved Black-Hulled White Kafir.

We have taken the Mail and Breeze for some time. In the October 26, 1912, number you told D. E. L. of White Kafir No. 30. How do you think it would thrive here on Missouri bottom-made soil, some light and some heavy? I tried some Kafir and some milo but it seemed to take quite a long time to ripen.—E. C. S., Percival, Ia.

Kafir No. 340 is an improved strain of the black hulled white variety, which matures about two weeks earlier than the standard variety of that name. The dwarf type is also hardy and a better drought resister than the standard. This variety came originally from the U. S. department of agriculture and has been grown at the Ft. Hays Experiment station for several years and given good results. It is also grown successfully in Nebraska.

I should recommend it for trial in western Iowa. It is quite sure to mature and should produce well. You may secure seed from the Ft. Hays Experiment station, Hays, Kan. Also, I refer you to the U. S. department of agriculture. Address Carleton R. Ball, division of cereals, U. S. department of agriculture, Washington, D. C.

Another early maturing variety of Kafir which is grown at the Ft. Hays Experiment station and which is worthy of trial in Iowa is the Improved White Kafir. This is an early sort of the standard type but somewhat more dwarf in growth and a hardy, good-yielding variety. You may secure seed of this variety from the Ft. Hays Experiment station. That station can also supply you with seed of improved dwarf milo which I would recommend to you for trial.

A. M. TenEyck.

Colonel George P. Bellows Dead

By the overturning of his automobile while riding to his farm near Maryville, Colonel George P. Bellows was instantly killed Monday, February 17. The esteem in which he was held, by men throughout the country, was far greater than that accorded most men. Born in Champaign county, Illinois, July 19, 1862, at the age of 3 years, he came to Missouri with his parents, locating in Nodaway county, where his boyhood days were spent. On his father's farm—at that time known as Valley Home Farm—he learned the value of Shorthorn cattle and Poland China swine. After attending the State university he taught school and September 15, 1886, married Miss Lela E. Honnold. To this union was born one son, Harold Honnold Bellows, now a student in the Agricultural course at Ames, Ia. From 1893 to 1905 he was connected with one of the leading publishing firms of Iowa as business representative of their livestock publications. With his keen knowledge of livestock, admirable character and the faculty of making fast friends in connection with his phenomenal ability to correctly classify domestic animals and write articles about livestock, he became an eminent American authority on animal husbandry. His correct judgment and honest dealing with his fellowmen soon gained for him the confidence of all livestock men. Having no equal in knowledge of pedigrees, his articles were famous for their clear expression and unbiased opinions, and he was quoted by hundreds of stockmen. His work in this field and as a livestock salesman did much to stimulate men to higher ideals and encourage them to greater improvement of livestock.

Bog Spavin or Thoroughpin.

I have a yearling draft colt that has been affected for about three months with a tumor that extends through the joint and in front of the hock. I call it a thoroughpin. It is very soft. Is there any cure for this?—E. C. R., Denton, Kan.

From your description I should think that your colt has a distension of the bursa at the hock joint or what is commonly known as bog spavin. Frequently a distension of the bursa at the back of



Two Horses Do the Work of Three

Roller Bearings roll around the axle instead of wearing them out like the ordinary frictional sliding bearing and do away with one-third the usual friction. Our improved hardened steel bushing takes away practically all wear on the bearing and box. Don't think of buying a new wagon until you have seen the

Peter Schuttler Roller Bearing Wagon

The Greatest Improvement in Wagon Construction in 50 Years

Saves horses because it pulls easier; saves time because you can go faster; saves repair bills because the whole wagon stands up better. Roller Bearings need oiling only about once a month and never get hot or tight on the wheel. They are the crowning feature of the old reliable Peter Schuttler "The One Best" wagon that has lead all others for quality since 1843.

Read What U. S. Government Tests Show

Official tests made by Government road experts on common axles in competition with Roller Bearing axles on the same roads report the following:

To Start Load

Common Axle - - - - 850 lbs. pull
Roller Bearing Axle - - 400 lbs. pull

To Haul Load

Common Axle - - - - 260 lbs. pull
Roller Bearing Axle - - 100 lbs. pull

You Can Make the Same Kind of a Saving in Hauling Your Own Loads

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The world's Greatest Wagon Factory, Est. 1843.



Free Book Send for our illustrated book telling more about the Peter Schuttler Roller Bearing Wagons. Read what farmers who have actually used these wagons say of this great new invention. Send for the book today

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is a *business* machine—the typewriter. Farming is a business these days and the successful farmer is a business man. The business man in the city welcomed the typewriter years ago, because it gave him an exact duplicate of every letter, a record of every business transaction, and turned out clean, legible letters two or three times faster than old-fashioned pen and ink.

Smith Premier Typewriter

is the simplest machine ever built and the easiest to understand, because it has a "key for every character." You can write your letters on a Smith Premier faster, plainer and easier than with pen and ink, after very little practice. This saves time, effort and also possible misunderstanding.

When you typewrite your letters you can, at the same time, make carbon copies—exact duplicates of every letter. These can be filed away where you can easily refer to them years afterward. Could you remember what you wrote in a letter two years ago if it meant dollars and cents to you?

Give your son or your daughter a chance to learn typewriting by helping you with your correspondence. It is a useful and well-paid occupation.

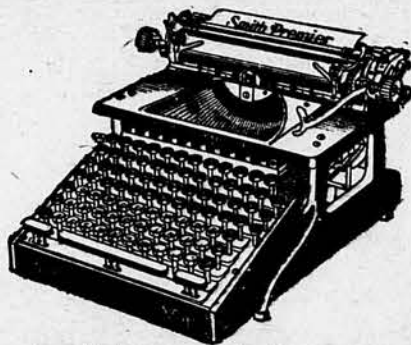
The Smith Premier Typewriter is one of the best-known standard machines. It is least likely to get out of repair on account of its simplicity of construction—a feature which is appreciated by the largest business houses and banks, and is of even more importance to the farmer. Send for our illustrated catalog, giving price and full information.

Smith Premier Dept.

REMINGTON TYPEWRITER CO.

(Incorporated)

327 Broadway, New York



The Best Typewriter For The Farmer's Office

the hock accompanies bog spavin and we get a combination of bog spavin and thoroughpin. Possibly your colt is a little rough in the hock and is pretty heavy

so that it has not quite as good a hock as it should have. Apply a little tincture of iodine every 2 or 3 days until the hair becomes a little roughened and

then you can apply a little vaseline until the skin becomes soft and pliable. As the colt gets older and stronger the trouble may disappear.



Dairy Farming

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

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

Alfalfa fed to cows requires less grain in addition than other hays.

No weed seed ever comes out of a silo alive. Another reason for having a silo.

A pound of butter requires the cream from a trifle less than 10 quarts of 4 per cent milk to make it.

Every 100 pounds of milk contains 87 pounds of water. No wonder a cow needs a lot of pure, fresh water.

There is nothing to be gained in breeding a heifer before she is 18 months old. And 2 years is better than 18 months.

Let the calf have the new milk the first four or five days. The calf needs it and the milk is not fit for human food until then.

Your way of meeting a problem may be the very means that will help a

brother dairyman over a rough place. Why not tell about it on this page?

As soon as calves want to nibble at something, let them have some bright, clean hay regularly. It makes growth and is good for their digestive systems.

I have found that a tank heater used in cold weather, to warm the cows' drinking water, will save feed and give good returns for the investment.—H. E. B., Hope, Kan.

Put a bull ring in the cow's nose, letting it hang well over, and you have a simple, humane remedy for a self-sucking cow.—F. E. S., Neosho Falls, Kan.

Helps in Calf Education.

Mr. Editor—To hold a calf while teaching it to drink I have a stall 2 feet long, 11 inches wide and the sides 2 feet high. The inside is smooth and one end is closed. At the open end I have an inverted box 10 or 12 inches deep, on which a shallow box has been nailed which is just large enough to hold the vessel from which the calf is fed. It is best to have this dish not more than 4 inches deep. The calf is backed into the stall, the box is drawn up in front of him, and the milk vessel set in the top. Place the palm of your right hand under the calf's jaw with two fingers in its mouth and get its nose into the milk. You will likely find business for the other hand.

Bazine, Kan. H. C. Tenny.

Returns from 3 Jersey Cows.

[Prize Letter.]

Mr. Editor—I have three Jersey cows that produced \$36.50 worth of butter, at 30 cents per pound, during the month of January. Besides this butter, 2 gallons of whole milk were kept out each day for table use and to feed a small calf. These cows are not fed heavily. Each cow receives 2 quarts twice a day of bran and chop mixed. I also feed a half bale of alfalfa at night to the three cows. They get some roughage in addition but I do not count this with the feed expense since they would need this roughage if not milked, just the same as any other cattle being roughed through winter.

This feed costs on an average, \$13 a month, which leaves a profit of \$23.50. These cows were fresh two and three months when this record was made. I believe a fair estimate of the net returns from these three cows for a milking period of 11 months would be \$15 per month. This is less than two thirds of what they produced in January. This would mean \$165 per year which is more than the interest a good many farmers make on \$1,000 investments. It must also be borne in mind that these figures do not include the whole milk used daily, the skimmilk, buttermilk, the calves produced, and the fertility added to the soil. It merely represents the butter profits. Could these cows be provided with silage and warmer quarters they would do still better.

H. N. Stone.

R. 1, Lecompton, Kan.

How a Kansas Dairy Grew.

[Prize Letter.]

Mr. Editor—I have been engaged in dairying, more or less, for 20 years but most of the time this was only a side issue with me. As is the case with most farmers, I had only ordinary "dual purpose" cows such as would bring a good calf and give some milk. Some of them hardly gave enough milk to give their calves a good start. With such a bunch of cows I soon learned that dairying was a losing proposition.

The Holsteins appealed to me as the dairy type for the farm for several reasons and three years ago I went to Iowa and bought 23 grade Holsteins and one bull, which just filled a car. On getting these cows home I soon found there was quite a difference in the quality and quantity of milk produced so I sold all that did not come up to my expectations. I now have 12 of the cows left and several promising heifers.

My cows are averaging about \$75 each per year in butter fat returns. I ship my cream, at times direct to Topeka, and also sell to local buyers. I aim to have the cows freshen in early winter as butterfat prices are always at the top notch during the winter months. The calves are also more easily raised as

Why I Bought the BEATRICE Cream Separator



The first great big reason is that it's the only really high-grade separator sold at a reasonable price. Separators have been costing too much money—no doubt about it.

I'm talking about the high-grade separators, of course. Their prices are the same they were many years ago—\$100 up to \$110.

The Beatrice established a new order of things. The price of the very largest size Beatrice, capacity 950 to 1000 pounds, is only \$75.

I bought that size—my saving was \$35. Smaller sizes cost \$55 and \$65. Why should I or any other dairyman pay more than the Beatrice price? We would get no more for our money.

The Beatrice has everything that goes to make a cream separator

valuable. Easy running, durable, a close skimmer, remarkably easy to clean, gets thick, heavy cream. I'll have something to say on each of these points in later talks. Watch for them. Price is only my starter. In the meantime, remember how I saved \$35.

Save \$25 to \$40

Farmer Onswon is right. Ask the Beatrice dealer. If none near you, write us for catalog and particulars. Address nearest office.

THE CONTINENTAL CREAMERY CO.

Topeka, Kan.

Oklahoma City, Okla.

4 Amazing Features

The 1913 Saginaw now has four amazing features—the Patented Angle Steel Rib, the Saginaw Base Anchor, the Saginaw Inner Anchor, the All-Steel Door Frame. No wonder the Saginaw is as strong as a city skyscraper. No wonder 587 Saginaws have been sold in a single day. No wonder five big factories are needed to supply the Saginaw demand. Farmers and stockmen all over the country are simply delighted with the "Saginaw." And you will be, too, when you get our Book which pictures and describes the Saginaw. Remember, the Book is FREE. Just send a postal now for Book No. 61 and it will come by return mail. The McClure Co., formerly Farmers Handy Wagon Co. Saginaw, Mich. Des Moines, Iowa. Cairo, Ill. Minnesota Transfer, Minn. Ft. Worth, Texas.

Nets \$14.00 per Ton From Ensilage in Champion Silo

C. L. Hurd, Mainright, Okla., bought 140 head of steers at \$58 per head. Fed 200 tons of ensilage and \$378 worth of cotton seed meal. Sold them for \$91 per head, bringing \$14 per ton for his ensilage.

Do You Make \$150.00 Per Acre Profit on Corn

50 bu. of corn per acre at 50c brings \$25. One acre of corn ensilage averages about 11 tons, worth \$9 per ton. The difference between corn and ensilage pays for a Champion silo, the best in the world, because it has interlocking steel door frame, malleable lugs, steel anchors and inside hoop, etc.

Write for Free Book of Champion Profits Made by Champion Silo Owners

It tells interesting experiences, gives facts and figures, tells all about the Champion and why thousands of farmers find it the best. Write today. Address

Western Silo Co., 155 11th St., Des Moines, Iowa.

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

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

Before You Milk Your Cows Again Write for the

GREAT WESTERN FREE SEPARATOR Book Sent



Our free book is a gold mine of cream and butter-profit facts. It tells you how to get all the cream, highest quality cream, with least work and biggest profits for the longest term of years. It shows you in plain figures how to make from \$5.00 to \$15.00 more from every cow, per year, whether you now own a cream separator or not. Don't you want this great book, FREE? Get all the

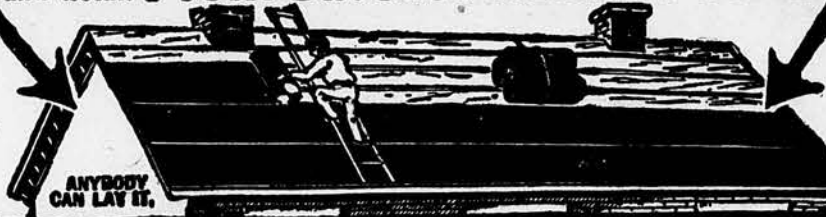
Facts You Want to Know About Separators

Read about the Great Western. Note that the bowl delivers cream from the top and skim-milk from the bottom, so there's no chance of their mixing. It is self-draining and self-flushing; there are no long tubes, no minute slots, corners, crevices, or ragged edges to hold milk and collect dirt. The Great Western is ball-bearing throughout. Perfectly uniform balls, 50 to 100% harder than regular. Ball races tempered so file cannot cut them. We will arrange for you to get a Great Western on any kind of a trial to prove that our claims are not strong enough.

Now! Just mail us your name and address on a postal for the big, fine, illustrated Great Western Book. It's worth MONEY to you.

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RUBBER ROOFING

1-Ply, 35 lb. 108 sq. ft., \$1.10 per roll. 2-Ply, 45 lb. 108 sq. ft., \$1.30 per roll. 3-Ply, 65 lb. 108 sq. ft., \$1.50 per roll.

Warranted For 25 Years. Terms Cash. These Special Prices Only Hold Good for Immediate Shipment.

FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request.

INDESTRUCTIBLE BY HEAT, COLD, SUN OR RAIN.

FIRST-CLASS IN EVERY RESPECT. NO SECONDS, REMNANTS OR MILL ENDS.

Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to the Southern Illinois National Bank.

Century Manufacturing Co., Dept. 197 East St. Louis, Illinois, or Dept. 197 100 E. 11th St., Kansas City, Mo.

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have a world-wide reputation for high quality and our prices have made them famous.

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experience selling to the consumer means success. We ship for examination, guaranteeing safe delivery, satisfaction and to save you money.

Catalog shows all styles of pleasure vehicles and harness, pony vehicles and harness, spring wagons, delivery wagons and harness.

May we send you large catalog?

We also make the "Pratt" Automobiles.

Elkhart Carriage & Harness Mfg. Company

Elkhart, Indiana



Save \$25

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FOR 10 WEEKS

KING Sanitary
Cream
Separator
Factory Direct To You

No
Money
Down

Buy
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\$24.95

Four Sizes
Capacity Up
To 800 lbs. per Hour

We don't ask you to send a penny, make any deposit or obligate yourself in any way. Simply try a King Sanitary Separator in your own home or dairy for Ten Weeks Free, just as if you owned it. It will separate all the cream right down to the very last drop in finer condition and do it easier than any other separator on the market, bar none—then return it, at our expense, the trial costs you nothing.

Simplest and Most Efficient

Absolutely Sanitary

The King skims warm or cold milk more thoroughly and easier than any separator made, regardless of price. Positively never defeated in a skimming contest. Strong, durable, runs very freely; has all latest improvements including our improved separable disc bowl. Simplest machine to clean, all parts readily accessible. No nooks or corners to gather or hold dirt. After ten weeks' free trial, if you decide to keep it, you can take all the time you want to pay. The KING SANITARY SEPARATOR in all sizes cost you only one-half as much as agents' machines. Buying direct from our factory saves you all the expense of the agents, salesmen, stores, wagons, etc. To prove our claims, we make the most liberal offer ever heard of.

Life Long Guarantee

Should any part of the King Separator prove defective in material or workmanship during the entire life of the machine, we'll replace it with a new and perfect part absolutely free of all cost to you and prepay all express charges.

Our million-dollar-factory stands back of every KING Separator.

Send for Free Catalog at once

This is your opportunity to save money. It is to your advantage to read our descriptive catalog AT ONCE.

KING SEPARATOR WORKS
287 Reno St., Buffalo, N. Y.



**DIPPED IN BOILING CREOSOTE
ADDS 17 YEARS TO ITS LIFE**

The Des Moines Silo

Is not painted with creosote—not dipped in the ordinary way—it is run through a vat of boiling creosote. The heat forces the creosote into every crack and into the very heart of the stave itself, covering every particle of the surface with an impervious coating of creosote. It makes painting unnecessary, makes rotting impossible, eliminates a large part of the swelling and shrinkage you encounter in other silos, and our patented spring hoop lug does the rest. The Des Moines has more important special features than any other silo on the market.

They are exclusive features—the creosote, the spring hoop, the triple anchor, the three inside hoops and the refrigerator doors and door frame are just a few of them.

Write for the story of the Des Moines Silo before you buy. You can't afford, for your own protection, not to read it.

DES MOINES SILO & MFG. CO.,
513 New York Ave., Des Moines, Iowa.

Farmers Sons Wanted with knowledge of farm stock and sale education to work in an office; \$60 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 22, London, Canada.

there are no flies to torment them and no sour milk to ruin their digestion.

Two years ago I bought a 150-ton stave silo, which was the best investment I ever made on the farm. In this silo I can put up feed that will make the cows' flow of milk in winter equal that of summer on June grass. I am tempted to say more so, because there are no flies to contend with in winter.

I expect to improve my dairy herd by keeping a purebred bull which will finally give me a herd equal to purebreds. The Holstein is the cow for me. She is a large animal, weighing 1,200 pounds and this size gives her a great capacity for converting into milk and cream such feed as we raise on the farm. Her calves are always large and the bull calves make good steers for beef. The large amount of skim milk is a valuable asset when used as a feed for young porkers.

If the farmers of Kansas could only realize the possibilities of the dairy cow and the silo, land values would increase a great deal faster than they have in the past and more money would be made at farming. Here's to the dairy cow; may her tribe increase.

Belmont, Kan.

A. L. Roehr.

Dairy Train For S. E. Kansas

Because southeastern Kansas is blessed with oil, minerals, gas, and other natural resources, it has not been paying as much attention to dairy farming as Kansas Agricultural college believes it well might. For this reason a lecture train to spread the gospel of better dairying and more of it, will be run over the "Katy" lines during the week of March 11. The train will be out five days, starting at Junction City March 11 and winding up at Paola March 15. R. W. Hockaday, industrial commissioner for the "Katy" will be in charge of the train, and among the speakers will be Miss Florence Brown, Miss Florence Snell, Mrs. Mary Simmons, and Prof.'s O. E. Reed, A. S. Neale, G. C. Wheeler, C. D. Steiner and H. L. Kent, all of the college.

The Silo's Place in Dairying

BY C. W. MELICK.

[Written for Farmers Mail and Breeze.]

Corn silage is the salvation of the dairy farmer wherever corn can be grown. It contains just enough acid to produce a salty taste, (palatability) is very succulent, and is not only easily digested, but stimulates the digestive juices of the body, rendering other food eaten with it also more easily digested. Inasmuch as silage is easily digested, its succulence and lactic acid content produce a laxative condition which materially aids a cow at calving time and subsequent heavy milking.

In rainy districts where grain can hardly be cured before it begins to decay; in dry, semi-arid regions, where forage in its natural state is devoid of succulence, where pastures dry up in the fall of the year, and through the winter months when no green forage is obtainable, the silo is the only method through which we may preserve our feed in a fresh succulent state, and by which our livestock may be kept in good condition at the least expense.

Roots, tubers, beetpulp, and brewers grains are frequently used to give succulence to a winter ration, but Prof. Haecker's investigations at the Nebraska Experiment station show their dietetic value is less than that of silage and they are more expensive.

The value of silage as compared with dried forage is remarkable. Any given quantity of alfalfa, oats, corn or hay that would be sufficient to properly maintain an animal would, if dried and the same amount of water which was evaporated fed separately, be entirely inadequate to maintain the animal without loss. The tough fiber of dried forage retains portions of the nutrition in an inaccessible form, and that which is accessible requires considerable energy to masticate and digest.

There is some difference of opinion in regard to the manner in which silage corn should be planted. The writer has obtained the best results by planting with a drill, slightly thicker than for grain, so as to produce more, but smaller stalks and ears. Such corn should yield 12 to 18 tons of silage per acre.

Lincoln, Neb.

DE LAVAL CREAM SEPARATORS TIME TESTED

If a member of your family were dangerously ill you wouldn't think of calling in an inexperienced doctor?

Certainly not! You would call a physician, who had built up a reputation, a man with experience and a successful practice.

Why not use the same care and common sense in your selection of a cream separator?

Every little while you hear of some new cream separator, claiming to be a "world beater" and just as good as the De Laval but a little cheaper.



These "mushroom" machines stay in the limelight only until they are "found wanting" by the users and in a short time drop out of sight.

It takes years of experience to build a "good" cream separator. More than 30 years of experiments and experience have made the De Laval pre-eminently the best machine on the market for the separation of cream from milk.

Even were other concerns not prevented by the De Laval patents from making a machine exactly like the De Laval they could not build as good a machine as the De Laval, because they all lack the De Laval manufacturing experience and organization.

If you buy a De Laval you run no risk of dissatisfaction or loss. It's time tested and time proven. Why experiment? Why take chances with an inferior machine when you KNOW that the De Laval is the BEST MACHINE FOR YOU TO BUY?

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

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\$15.95 AND UPWARD
SENT ON TRIAL
AMERICAN SEPARATOR

Thousands In Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish a brand new, well made, easy running, easily cleaned, perfect skimming separator for only \$15.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements.

Our Twenty-Year Guarantee Protects You

Our wonderfully low prices and high quality on all sizes and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have an old separator of any make you wish to exchange, do not fail to get our great offer. Our richly illustrated catalog, sent free of charge on request, is the most complete, elaborate and expensive book on Cream Separators issued by any concern in the world. Western orders filled from Western points. Write today for our catalog and see for yourself what a big money saving proposition we will make you. Address,

AMERICAN SEPARATOR CO., Box 1092, Bainbridge, N. Y.



Made from actual photograph of Cyclone at McPherson, Kas., April 24, 1904. Fourteen homes destroyed, and total estimated loss \$70,000.

We paid for total or partial losses by wind in 95 of the 105 counties in this big state during 1912.

It costs you but a trifle to guard against wind loss. We insure you at cost. That's what we farmers banded together for—and that's what hurts the expensive old line companies.

Let us hear from you. Act at once. Write today.

Farmers Alliance Insurance Co.
McPHERSON, KANSAS

ARE YOU READY FOR THE STORM?

Idle question, you think? Nevertheless the solemn fact remains that of the 14 homes destroyed by the cyclone of the accompanying picture only five were insured against wind and the others represented total losses to the owners.

Here are some actual figures for your consideration:

Our company during 1912 paid a total of 1183 losses in Kansas. Of these only 264 were for fire, only 294 for lightning—and the remainder were 625 wind losses.

We paid for total or partial losses by wind in 95 of the 105 counties in this big state during 1912.

It costs you but a trifle to guard against wind loss. We insure you at cost. That's what we farmers banded together for—and that's what hurts the expensive old line companies.

Let us hear from you. Act at once. Write today.



Feeds & Feeding

QUESTIONS ANSWERED

by Prof. G. C. Wheeler

(Address queries to Farmers Mail and Breeze)

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

What Can a Silage Cutter Do?

Can you tell me how many tons the average silage cutter can cut and put into a silo in one hour?—T. D. C., Kansas City, Mo.

The largest size ensilage cutters will cut from 20 to 25 tons per hour, under favorable conditions. A 14-inch cutter, the average size in use, can under favorable conditions cut from 12 to 15 tons per hour. Of course it is seldom possible to run a machine at its full capacity from 8 to 10 hours at a stretch.

G. C. Wheeler.

Sorghum Sometimes Kills Cattle.

I should like to know if Kafir would be all right as pasture for cattle? If the second growth would hurt them?—F. W. M., Holow Rock, Tenn.

The sorghums occasionally develop some poison which is very fatal to cattle, but not much is known about the conditions which bring this about. It occurs only occasionally. A great many cattle are pastured on the various sorghum crops with no harmful results. It has usually been assumed that this condition develops only in second growth sorghum or Kafir. Investigations have shown, however, that this condition is by no means confined to the second growth.

G. C. Wheeler.

No System of Measuring Horses.

Some years ago I took a stallion to the Wichita Fair and scooped everything in sight. I got first in sweepstakes ring with 32 entries. A man from Topeka measured the horse and said he was half an inch above perfect. What I want to know is, how to measure a horse for perfect build. I have forgotten how he measured him.—J. S., Harper county, Kansas.

As far as I know there are no systematic measurements for horses which have been generally agreed to by breeders. Breeders are not agreed among themselves, as to what constitutes the ideal proportions for horses of various types. The man who judged your horse and made the measurements perhaps had some ideals of his own and undoubtedly based his statements upon these ideals. A good judge of horses can determine the general symmetry of the various parts without the use of the tape. About the only measurement that is really essential in judging horses is the height.

G. C. Wheeler.

How Feed Calves for Baby Beef.

I want to feed some calves next fall on alfalfa hay and corn. The calves will weigh from 450 to 500 pounds and will be picked up among farmers that wean them early. How long shall I have to feed them? Is it best to feed something else with alfalfa hay and corn?—C. S., Norton county, Kansas.

It takes a long period of feeding to finish calves for market. The general tendency is for them to grow during this period. Careful feeding is required to cause them to lay on fat at the same time they are producing growth. A spring calf cannot usually be got into marketable condition before late the following summer and sometimes not before fall. Corn and alfalfa hay make good combination for finishing baby beef. A little oil meal or cottonseed meal would probably add to the efficiency of the ration and might profitably be used during the latter portion of the feeding at least. Calves must be wellbred to finish satisfactorily as baby beef.

G. C. Wheeler.

Warm Slop Good for Hogs.

What are your ideas on feeding warm slop during cold weather to a sow with pigs between 4 and 5 weeks old? The sow has lost her appetite and become weak. I am told it is due to the warm slop I am giving her of bran and middlings twice a day. Three times a day I feed a little corn on the cob. I feed her charcoal, a little salt, and slaked lime, once or twice a month. Maybe this is not often enough.—E. M. B., Maryland.

It is a very good practice to feed warm slop to hogs during the winter, and especially sows with little pigs. The feeding of the warm slop could have no connection whatever with your sow losing her appetite and becoming weak. The feeding of charcoal, salt and slaked lime is also good practice. It would be better

to have this material before the hogs all the time. What is known as the government hog remedy is a splendid tonic and it would be a good plan for you to have some prepared. The formula follows:

Wood charcoal 1 pound
Sulphur 1 pound
Sodium chloride (common salt) 2 pounds
Sodium bicarbonate 2 pounds
Sodium hyposulphite 2 pounds
Sodium sulfate 1 pound
Antimony sulfid (black antimony) 1 pound

This may be kept before the hogs at all times, as there is no danger of their eating too much of it.

G. C. Wheeler.

Stock Melons Good Feed in Winter.

What is the best variety of pie melon and where can I get the seed? I want to try them as I have read in the Mail and Breeze they are valuable as cow and hog feed.—R. D. P., Cassville, Mo.

There are about two generally recognized varieties of stock melons. You can probably secure seed from the western seedsmen whose advertisements you will find in the Mail and Breeze. The conditions probably will not be so suitable for the production of large crops of melons in your locality as in a somewhat drier and more sandy section, such as they have in Southwestern Kansas. A succulent feed of this kind is a valuable addition to the ordinary dry ration when feeding stock during the winter.

Your inquiry concerning the relative value of gray and white ship stuff and hard and soft wheat has been referred to Prof. Fitz of our milling department, who has charge of feed inspection work in Kansas.

G. C. Wheeler.

The "Commonsense" Silo and Others.

I am afraid a stave silo would shrink badly in dry weather and our high winds might blow it down while empty. The "commonsense" rather appeals to me. Has it proven to be a success? Are there on the market any patent doors made to fit silos of this kind? What would be the capacity of a silo of that kind built in octagon shape out of 2 by 4's, 8 feet long and 30 feet high? Would a coat of paint inside of that silo render it sufficiently air tight?—F. B., Dover, Okla.

As already stated in reply to J. W. H., Muskogee, in the Mail and Breeze issue of February 1, the Kansas Experiment station regards with great favor the concrete silo. We have found them thoroughly satisfactory in every respect. "Commonsense" silos have been constructed in Kansas and have also proven to be successful silos. They must be carefully covered on the inside with some high grade roofing material to be air tight. It is also desirable to cover the outside with siding or roofing material to prevent the rains from wetting the 2 by 4's. Some very fine silage has been preserved in the common sense silos, constructed in the above manner. The one you mention would have an approximate diameter of 19 feet and a capacity of about 180 tons.

G. C. Wheeler.

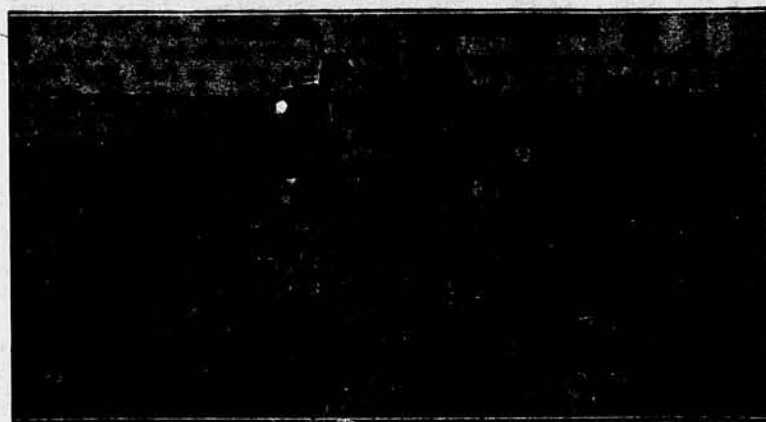
When a Crop Makes Best Silage.

When is the proper time to fill a dug silo? When the fodder is cured well or how soon after cutting fodder? Won't the fodder spoil if put in too green or does silage ever spoil in a silo? If it does get black in a silo will it be of any value for feeding purposes? I am contemplating digging a ground silo and would like information through the paper from some of those who have such silos.—N. N., Sweetwater, Colo.

Corn should be fairly mature before being cut for silage. The grains should be den 1. The kernel should be hardening but the stalks and leaves should still be green. If the leaves and stalks have become dry sometimes very good silage can be made, but it requires the addition of water during the process of filling to make it pack solidly. If the crop is placed in the silo too green and immature it will contain a high per cent of acid juices and will be lacking in feeding value. Silage can be partially spoiled by moulding and still be eaten with reasonable relish by cattle. However, it is not a good plan to feed moldy feed to any kind of stock.

The pit silo makes a fairly good makeshift. If the sides are carefully plastered with cement mortar the silage will be preserved as well as in any other type of silo. Carbonic acid gas may form during the process of filling. It would not be safe to go into a deep pit silo without first investigating the condition of the air. If you do not have the capital to put up a good silo above ground you probably would find it a profitable undertaking to prepare a pit silo, and no one has a patent on a hole in the ground.

G. C. Wheeler.



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This cultivator is different than any cultivator you have ever seen. It is so built that the wheels, and the gangs with the wheels, are turned at will, like the front wheels of an automobile, hence the name "Emerson Auto-Cultivator No. 35."

Quick and Easy This construction enables you to *instantly* change the direction of the wheels and shovels without changing the direction of the team. It makes a much *quicker* and *easier* turn in cultivating crooked corn than where you must swing the gangs as in the old style machine.

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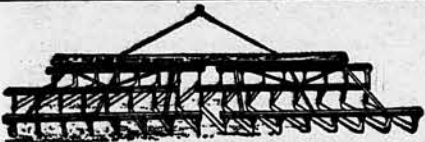


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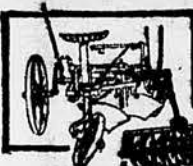
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State Meeting of Co-operators Urged For March 4

Editor's Note.—Farmers Mail and
Breeze has received the following com-
munication from the national president
of the Farmers Equity Union who is
in Kansas at this time. He urges a
state meeting of co-operators at To-
peka March 4 in the interest of a co-
operators' law for Kansas similar to the
Nebraska law. His letter follows:

Mr. Editor—I have just read Mr. But-
ler's article in the Mail and Breeze on
a co-operator's law. The Farmers Equity
Union is working for that law in eight
states where we are organizing co-oper-
ative exchanges. We are especially in-
terested in Kansas where we are starting
and building up 15 exchanges on the
Rock Island and 10 on the Santa Fe
as demonstrations of true blue, Golden
Rule co-operation. We hope every Equity
Union, every Grange and every Farmer's
Union in Kansas will see that 500 postal
cards or more go from each local union
or Grange to your representatives at
Topeka on March 1. Let us have a pos-
tal card shower asking for the enact-
ment of a real co-operator's law in
Kansas.

A rousing meeting of farmers at To-
peka, addressed by President Henry J.
Waters, and representatives of all the
farmers' organizations in the state, as
soon as possible would perhaps be the
most effective method for this legisla-
ture. If Mail and Breeze will call that
meeting for March 4 we will inaugurate
a movement that will bring "Golden
Rule co-operation" to the most progress-
ive state in the Union and make this
state a demonstrator for others.

The Farmers' Equity Union wants the
Nebraska law in every state. We will
work for it in Kansas. We want a law
which recognizes a co-operative com-
pany as well as a corporation. A law
which gives each company the right to
limit the amount of capital each stock-
holder shall hold; the right to say who
shall be stockholders, the right to di-
vide the earnings of the company as
they choose and to allow one man one
vote. The right to do these very desir-
able things should be legalized by pro-
gressive Kansas, and we believe a large,
enthusiastic body of co-operators at To-
peka March 4 would land the law at this
session.

It would give me great pleasure to ad-
dress the Kansas legislature on "Golden
Rule co-operation" if they would give
a common farmer a hearing. The Liber-
al Equity Exchange has only been in
operation about eight months but it is a
fair demonstration of the "Farmers'
Equity Union" plan of Golden Rule co-
operation. If anyone wishes further in-
formation on our plan they can write
me at Liberal, Kan., and send 10 2-cent
stamps for the Equity Text Book.

C. O. DRAYTON.

National President, Farmers' Equity
Union, Liberal, Kan.

Co-operation Restricted in Kansas.

Mr. Editor—It is impossible to organ-
ize and safely operate local fire and
lightning insurance associations on the
co-operative plan as in Iowa and Wis-
consin. Kansas has adopted the arti-
cles of the Alliance association for all
possible insurance associations of a co-
operative nature. These are statewide,
cumbersome and expensive, increasing
instead of lessening fire losses. An as-
sociation limited to a county, with its
officers well distributed over the terri-
tory covered, would be safer because
each person insured would be known by
one or more of the officers and unde-
sirable persons could be kept out. I
know of two associations in Iowa that
have done business for 30 years on 1/2
of 1 per cent for a 5-year policy, plus
\$1 as a policy fee. One is in Butler
and the other in Humboldt and both are
fire and lightning insurance companies.

Why not repeal the senseless restric-
tions on co-operative insurance and make
a flat fee for the solicitor instead of a
per cent rate? Limit the policy to two-
thirds the value of the property in-
sured except in the case of lightning
and let the officers examine all risks.
Then there would be fewer fires and in-
surance would be cheaper.

J. H. Prichard.

R. 3, Toronto, Kan.

We like the Mail and Breeze just fine.
—Harry Matson, Box 16, Kechi, Kan.



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Aside from its many good uses in the home where it
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You can cure any horse of bad habits and actually double its value by this wonderful system.
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Ignorance of the simple principles discovered by Prof. Beery has cost the lives of thousands.
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them to actually duplicate his most marvelous feats.

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Prof. Beery's graduates in all parts of the world are making money training horses, breaking
colts, giving exhibitions, buying up cast-off "tricksters" and "man-killers," taming and training
them and re-selling at high prices. For example, take the case of Emmett White, Kalona, Iowa,
now a prosperous professional Horse-Trainer. Mr. White says: "I wouldn't take \$500 for what
you have taught me. You may judge of my success when I tell you that I have been able to buy
a home and an automobile solely through earnings from training horses as taught by your ex-
cellent methods." A. L. Dickinson, Friendship, N. Y., writes: "I am working a pair of horses
that cleaned out several men. I got them for \$110, gave them a few lessons and have been
offered \$400 for the pair."

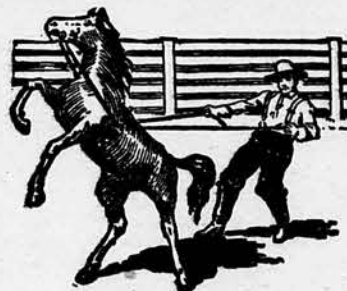
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CAPPER BOYS CORN CLUB

Founded 1907



by Arthur Capper

THE boys intending to take part in the corn contest are now picking out their acre plots on which to grow their corn this summer. Not a few looked after this detail last fall and plowed their ground, which was the wise thing to do. Of course, every boy knows that bottom land will grow the best and most corn, other things being equal. If you can get a piece that was fall-plowed, all the better. If not, it will be well to plow it just as soon as the ground will do to work.

Some of the boys are wanting to know whether they had better scatter manure on their corn ground. Last fall was the best time to do this, but it is not too late yet. Manure put on now should be fine and well rotted if you can get that kind. If it is coarse and strawy the corn will not get much benefit from it the first year and it also makes the soil dry out more quickly as it keeps the soil too open. This is one cause of corn "burning."

As soon as the ground is plowed, be sure to harrow it so as to leave the surface level and fine. This keeps the soil from drying out. One can hardly work corn ground too much, either before or after planting. Lester Robinson of Traer, Kan., who made the second best acre yield in the last contest, broke out his ground in the winter. He plowed it twice, disked it three times, harrowed once, then listed his corn May 1. A lot of work you say? Yes, but it gave him 78 bushels and 30 pounds of corn per acre.

Here is a proposition, boys: The next time you get a chance, you "interview" the best corn grower in your neighborhood, the one who always gets just a little better yield each year than the other fellow, no matter what kind of season it was. See if he does not tell you that it is mighty important to work up your ground just as well as you know how before planting and repeat the same trick after planting.

Corn Contest Rules

Any boy under 20 years old may enter the Capper Boys' Corn-growing Contest, for which cash prizes are offered in four states, namely: In Kansas, in Oklahoma, in Nebraska and Missouri. For best acre yield in each state \$50; for champion single ear in each state \$25; for best ear in each state from seed of a boy's own raising \$25. There is a separate contest for boys in Shawnee county, Kansas, in which \$25 is offered for champion ear in that county, \$15 second prize, \$10 third prize.

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

In the acre contest each contestant will keep track of the number of hours' work performed by himself and his team and be prepared to render a report of the methods he used, on a blank to be sent him at his

request before the end of the contest, December 1, 1913. The acre may be a part of a field of corn or a single acre.

Capper Girls' Tomato Club

The interest Kansas girls are showing in the tomato growing contest is good to see. And yet, that is no more than one might expect, for there is no half way business about anything Kansas girls undertake. There is this to say for the girls: (boys, you aren't supposed to read this): They seem to have a greater determination than boys and are less easily discouraged. Once they make up their minds to do a thing they everlastingly stick to it until they see it through.

Cloa Waters of Rosalie, Kan., wants to know what kind of tomato would be best to plant. Her letter was written before she received the last Mail and Breeze, which contained the information she wanted. She also wants to know if newly broken ground is good for toma-

growing. There is still plenty of time to join the club, and those who have not done so will find the blank on this page.

CONTEST RULES.

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

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

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

The contest will end October 10, 1913. A blank form of report will be sent to each contestant at the end of the contest.

The member growing the greatest number of pounds of tomatoes on her plot will be awarded first prize, \$25 in gold. The one getting the next largest yield will receive a cash prize of \$15. The third prize is \$10. To insure fairness to all contestants the winning reports will be verified.

To join the Capper Girls' Tomato club and participate in the contest fill out and mail the entrance blank on this page as directed.

Capper Boys' Swine Club

Well, March 1 is here and any pig farrowed after this date, that is not ineligible under the rules, will do to feed in the coming contest. Let us hear if you have selected yours. Have you broached the matter to dad yet? Perhaps it would be just as well to wait now until there is a new litter in the pens. If it is an especially fine, large one, that will be

where one will raise a pig. You know what that means. And yet, it will require less work and worry to raise a pig than an acre of corn. You won't have to worry for fear the chinch bugs will eat your pig, and hot winds or high water will not hurt him, for pigs can swim. So you'd better fill out the blank and mail it in, then watch for the first sow that farrows, pick the most promising squealer in the bunch, and go after the prize.

CONTEST RULES.

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

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

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

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

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

Entrance Blank

ARTHUR CAPPER, 800 JACKSON STREET, TOPEKA, KAN.

Please enter me in the
Boys' Corn Growing contest.
Boys' Swine contest.
Girls' Tomato Growing contest.

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

My name is.....

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

State.....

My age is.....

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

atoes. She is thinking of planting her bed just below a dam where soil has been washed in. She says the sod is not heavy there and thinks this place would be fine because she can easily irrigate from the pond. If this plot is not so low it will remain wet and soggy a long time after a rain, and if the sod is not too tough, the tomatoes should do well there.

Tomatoes need a well worked soil that can be kept drained, for the plants can't stand wet feet. In planting the plot in a place such as Cloa has in mind there is always the danger that a heavy rain may flood the patch, which would be disastrous to the crop. Unless a good ditch can be put in on both sides of this plot so the water can run off easily following a rain, we should consider it rather risky to use this ground.

Meanwhile, we shall be glad to answer any questions that come within our knowledge, on the subject of tomato

the time to put in your bid in a straightforward way and we'll guarantee he will not say no.

As was stated last week, the best chance to win a prize in any Capper contest this year will be in this club. There will be 10 or a dozen boys growing corn

More Feed Less Cost

Greatest capacity, lightest draft. Forces feed—can't clog. No burn. Rolls grind 5,000 bu. cob corn before dilling. New set costs only \$5.

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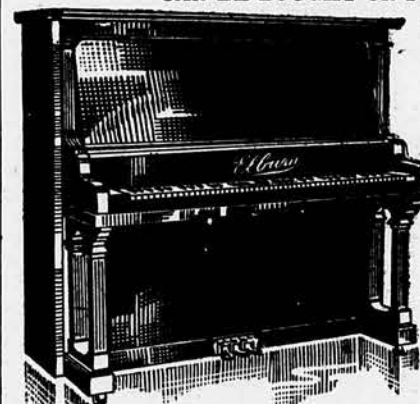
Reading Courses, \$1.00. Extension Courses, \$3.00. College Credit Courses, \$4.00. To residents of Kansas. To non-residents, \$2, \$5, \$7.50.

Send for Correspondence Courses Bulletin. Secy. H. L. Kent, K. S. A. C., Box B, Manhattan, Kan.

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This is Charles Bird, a Mail and Breeze Boy, of Dillon, Kan., and his trained calf, "Kowah." Charles is 9 years old and the calf is 9 months. "Kowah" serves its owner both as saddle pony and driving horse. Charles has trained the calf since it was a few days old and it minds him at a word.

What Farmers Are Thinking

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

Regulating the Beef Shortage by Law.

Mr. Editor—It costs just as much to raise a heifer as it does to raise a steer, but heifers do not sell for more than half as much. In raising a herd of cattle the calves can't all be steers so it is more profitable to sell the heifers for veal. Again, when you buy a steak the butcher doesn't sell you steer meat at one price and cow meat at another.

They may make any law they please forbidding the sale of calves on the open market, but there never will be a law under the sun that can compel the farmer to raise more calves than he wants to or forbid his killing them on the farm. What is needed is a law regulating the price between producer and consumer, then if there are not profits enough to go around let some of the middlemen turn producers. As long as feed is as high as it is, beef cattle and especially cows and heifers will have to sell higher to pay the farmer to produce them. That is the only thing that will make him produce more beef.

Winfield, Kan. Mrs. Will Kowing.

Ownership Good for Farm Boys.

Mr. Editor—If the farmer's son is to follow the footsteps of his father he must find interest in the farmer's profession and a love for the farm. Teach your sons that farming is a noble profession, for where is there another that is so independent, so free from rot and

graft? Call in the boys at an early age for consultation and to help plan the farm work. Let them feel they are partners, which they are in fact. Too many children are looked upon as servants without a word to say on the way things should go on the farm and not a penny of their own to spend. Right there is one reason for many a vacant chair at the farmer's table.

The feeling of ownership is good for the farm boy and he should have a few things that he may choose to own, the father to be consulted in their disposal, but this disposal to be for the son's benefit.

I would caution parents against moving to town to educate their sons and

daughters. In many cases this is all that is needed to create a desire for the city. Supply good reading matter—daily papers, good farm journals such as Farmers Mail and Breeze, an up-to-date library with new books added as the old ones are read and exercise a reasonable restriction on the young folks going out to various gatherings.

With the many modern advantages to be had in the country these days, together with the foregoing privileges there will be contentment and happiness on the farm. George C. Walter.

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CROPS and FARM WORK

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(Crop Reporting Service of Farmers Mail and Breeze.)

Nothing better than last week's thick blanket of snow could have happened to growing wheat. The fall was wet and heavy, and since the soil was open every drop of moisture will take effect unless the thaw should come unusually sudden. The snow also provided a timely protection for wheat during the sharp weather the first of the week, which at this time of year so often does great damage to bare fields.

Early farm work on corn and oats ground has stopped for the time being

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but there are no regrets since the moisture from the snow is just what was needed to make the soil work up in good condition. In some western counties reports state that field work was out of the question on account of the extremely dry soil. Many fields in this state were all but ready for oat seeding when the snow came. In Oklahoma the main part of the crop is sown. In Comanche county some fields are up. Instead of snow the greater part of Oklahoma had rain and sleet last week, some counties reporting 2 to 3 inches of rainfall.

A better winter for stock feeding thus far, could hardly be conceived of. High prices for livestock, cheap feed and mild weather form a money making combination. The only thing lacking is enough stock to dispose of the feed on hand. Wichita county, Kansas, has enough feed left to run the stock through another year, says J. E. White.

KANSAS.

Ellsworth County—About 2 inches of snow on level was beneficial to wheat and will put corn ground in fine condition for spring work. Wheat 78 cents, corn 45.—C. R. Blaylock, Feb. 22.

Clay County—Wheat ground was dry on top but moist 3 or 4 inches below surface but had 10 inches of snow Feb. 21 which drifted very little. Stock have done remarkably well on little feed this winter.—H. H. Wright, Feb. 23.

Dickinson County—A 12-inch snow is lying on wheat fields. Farmers had started work in fields before snow came. Hogs and cattle selling high at sales. Common horses are down somewhat. Hay \$8 to \$10, corn 53 cents, oats 50, wheat 78.—J. G. Engle, Feb. 24.

Wilson County—A 6-inch snow covered ground about 10 days. Not much moisture in soil and not too much stock water. Plowing well along for spring work. All stock doing well with plenty of roughness. Hay is half the price it was a year ago.—S. Canty, Feb. 19.

Franklin County—Wheat has wintered well and the rain and snow will put it in fine shape. Some oats sown. Sales numerous and stock sells extra high. Hogs nearly all marketed. Very little if any cholera in county. Stock in splendid condition.—H. O. Cain, Feb. 21.

Brown County—The fall and winter have been among dryest for many years but fine on all stock. All feed plentiful. Wheat still looks fine and the 6-inch snow of Feb. 21 came just right. Hogs \$7.75, corn 42 cents, wheat 78, oats 30, eggs 14, cream 31.—A. C. Dannenberg, Feb. 22.

Morton County—Had a 4-inch snow the past week. Farmers have been wishing for moisture to keep soil from blowing. Most stock looks good and plenty of feed left in county. The railroad is steadily pushing forward. Eggs 10 cents, butter 25.—Mrs. Margaret McGee, Feb. 13.

Scott County—Light snow Feb. 20. What little wheat was sown has made little or no growth and most of it lying in ground as dry as when sown. Large acreage of corn to be planted. Stock wintering in good shape and feed holding out well.—J. M. Helfrick, Feb. 21.

Reno County—Big inch of snow on ground. Wheat looks better than a year ago. Not much alfalfa hay here. Gophers and moles have done great damage to fields. Much broomcorn fodder being fed as this beats prairie hay. Hogs \$6.50, corn 46 cents, wheat 86, potatoes 90.—D. Engelhart, Feb. 20.

Decatur County—Several inches of fine, wet snow fell here Thursday and Friday which was just the thing for wheat. No spring work done yet and the snow will delay it somewhat. Number of sales above average. All stock sells high. Indications point to light pig crop.—G. A. Jern, Feb. 22.

Kiowa County—Another fine snow makes wheat prospects much brighter. Plenty of feed this winter. Horses and mules not selling as well as expected considering losses of lat fall. Several new brick buildings to go up in Greensburg. Wheat 77 cents, corn 40, eggs 15.—H. E. Stewart, Feb. 23.

Wichita County—About 2 inches of snow on the ground and still snowing. Winter has been dry and pleasant, and stock has done fine. Quite a number of sales and all stock sells high. Feed enough to last another year. Farmers preparing to sow barley. Cream 30 cents, eggs 18.—J. E. White, Feb. 20.

Riley County—Six inches of snow on level and no drifts. Wheat fields were showing green before snow came. Ground had thawed out and farmers were getting ready for spring work. Plenty of feed for stock. Sales still numerous and cattle sell very high. Hogs \$7.50, corn 46 to 50 cents.—P. O. Hawkinson, Feb. 21.

Cloud County—Snow has been falling for last 24 hours which will furnish much needed moisture for wheat. However the crop was making a good start before snow. Some farmers had begun work on oat ground but none sown yet. Farmers made good use of good roads by hauling grain to market. Action of farmer's union has



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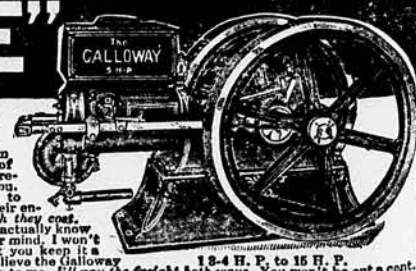
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Improved markets somewhat. Marketable hogs sold off close. Feed plentiful. Stock high, especially cattle—10 month-old calves bringing \$25.—W. H. Plunty, Feb. 21.

Books County—Oat plowing begun but ground is covered with an inch of snow today. Feed holding out well but some corn being shipped in. Few hogs being shipped. Cattle sell high at sales. Horses go at very reasonable prices but good, sound mules almost out of sight. As high as \$600 paid per team.—C. O. Thomas, Feb. 21.

Barton County—About 5 inches of snow fell Feb. 22 without drifting. Will be great benefit to wheat as it needed moisture badly. Roads have been good all winter and much wheat and corn marketed. Plenty of rough feed and stock doing well. Milk cows selling at \$50 to \$75. Wheat 78 cents, corn 40, eggs 15.—J. A. Johnson, Feb. 24.

Greenwood County—Considerable damage done to trees and telephone poles by the heavy sleet of Feb. 21. This was the heaviest sleet ever known here. Good many sales and stock sells well. Feed cheaper than a year ago. Stock in fair shape. Not much spring work done yet.—C. E. Moore, Feb. 24.

Stanton County—A lighter snow than the last now on the ground. Will put the surface in fair shape. Not much wind this month to dry out the ground. Thistles are not rolling much yet. Little broomcorn moving as prices are too low. Fresh pork retails at 14 cents. Eggs 15, butter 15.—G. S. Greger, Feb. 20.

Phillips County—The biggest snow of the season is falling today. Four inches on the level now and still snowing hard. Farmers who have wheat out are rejoicing although the crop was in fair condition. All stock brings fancy prices at sales. Potatoes 70 cents, apples 30 to 60 per peck, cream 29, eggs 15.—N. E. Schneider, Feb. 21.

Trego County—Fine weather but need rain. Threshing finished. Kafir made from 10 to 30 bushels, cane seed 8 to 25, and millet 10 to 40. A few sales being held but prices are poor except for cattle. Several farmers hunting farms to rent. Kafir 68 cents per 100 pounds, cane seed 40 per bushel, corn 45, oats 43, eggs 18.—E. L. Dean, Feb. 17.

Norton County—Snow is about 6 inches deep and still falling. Frost all out of ground. Acreage of oats will be large. Cattle on feed doing extra well. Farmers paying big prices for breeding cattle and hogs. Not much corn being sold now. Mr. McKee, Rock Island farm expert is busy laying plans for farm demonstrations.—Sam Teaford, Feb. 21.

Atchison County—Open winter broken Feb. 21 by 6-inch snow fall which was badly needed by wheat. A few farmers are complaining of fly damage to early sown wheat. Nearly all last year's wheat sold off. More farmers than usual shipped their own grain. Brood mares very scarce and good cows selling at \$75 to \$100 at sales. Few stock hogs and nearly all fat hogs sold off.—C. H. Feerer, Feb. 22.

Ottawa County—February 21 and 22 brought us biggest snow of season—8 inches on level. The moisture was badly needed by wheat. Many hedge fences being cut down. All stock sells high at sales. Draft mares bring \$450 per team, draft colts coming yearlings, \$100 each. Some 2-year-old steers sold at \$54 each. Milk cows \$50 to \$75. Hogs \$7.40, wheat 72 cents, corn 50.—W. S. Wakefield, Feb. 22.

OKLAHOMA.

Comanche County—Heavy showers Feb. 20. Oats all sown, and some coming through. Plowing going on rapidly. Farmers have prospects of getting all crops in in good shape. Feed is plentiful.—Fred E. Wiersig, Feb. 21.

Mayes County—Too wet to work in fields. Some oats sown. Wheat looks fine. Many hogs have died. Cattle scarce and milk cows selling at \$40 to \$60. Calves \$15 to \$20. Corn 15 cents, seed oats 50, eggs 17.—L. A. Howell, Feb. 20.

Kiowa County—Snow of a week ago did much good. Farmers sowing oats and burning stalks. Incubators and hens busy and some broods hatched. One or two sales a week. Great excitement over mining prospects.—Mrs. Alice Henderson, Feb. 19.

Tulsa County—Plenty of moisture in the ground. Large acreage of oats being put out. Much corn ground plowed and early potatoes being planted. Stock brings fair prices at sales. Corn 50 cents, seed oats 40, eggs 25, butter 25.—W. H. Booth, Feb. 21.

Custer County—Worst sleet storm of several winters on Feb. 20 did great damage to fruit and shade trees. The 8-inch snow the first part of month was very good for wheat. Oat sowing begun the middle of month. More winter plowing done than ever before.—E. E. Baker, Feb. 21.

Kingfisher County—Had an inch of snow and sleet today after 2 or 3 inches of rain. Wheat looks fine and shows a good color. Good deal of oat sowing already done. Stock not doing so well since the January storm and some reports of hogs dying.—H. A. Reynolds, Feb. 21.

Pawnee County—Quite a lot of moisture lately and just received a 3-inch rain. Oat sowing started. A somewhat larger acreage to be put out than last year. Most stock looks well. More plowing done than for several years. Oats 45 cents, corn 50, Kafir 45, hogs \$7.50.—V. Funkhouser, Feb. 21.

Canadian County—Had a 2-inch rain Feb. 20 which was the first good rain this year and has soaked up the ground well. Oat seeding about finished. Farmers feeling better since the rain. Still plenty of sales. Cows selling at \$40 to \$80. Wheat 75 cents, oats 38, corn 45.—H. J. Earl, Feb. 22.

Grady County—Weather anything but wet but still have enough moisture for present needs. Wheat growing nicely. Good acreage of oats being sown. Stock in fair shape with plenty of feed on hand but many farmers are having to haul water. No hog disease. Corn 46 cents, oats 38, eggs 20.—Sam C. Heffer, Feb. 19.

Kay County—Rain and sleet Feb. 20, stopped oat sowing. Moisture fine for all crops and prospects good for the season. Chinch bugs not in evidence as much this month as last. Everything sells well at sales but old hens are bringing down the egg market. Corn 43 cents, oats 35, Kafir 37.—Sherman Jacobs, Feb. 21.

Garfield County—Plenty of snow and rain



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Durham has been the standard smoking tobacco of
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combined!



SMOKING TOBACCO

Arthur Capper, Publisher Mail and Breeze, Topeka, Kansas

have put ground in good condition for spring work. A lot of oat ground ready for seeding. Wheat is in good shape. Large Kafir acreage to be planted in this county and less corn. Stock hogs scarce and selling high. Mules and milk cows still bring fancy prices.—H. C. Waggoner, Feb. 21.

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

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

I gave some of this seed corn to Mr.

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

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

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

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

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

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

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

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

We live in Texas now but cannot give up the Mail and Breeze.—Carrie Johnson, Brookshire, Tex.



Poultry Keeping

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

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

For growth or eggs feed skim milk.

March chicks will make next winter's best layers.

One culling season ends as another begins, in fact they overlap.

An ounce of green cut bone three times a week is about the right allowance.

No better eating in the fowl line than capons, say those who have tried them.

Disinfecting incubators between hatchings is a precaution that pays in the long run.

The man who decries purebred poultry plainly proclaims that he is a "rut" farmer.—M. K. Boyer.

A good grain mixture for the litter in the morning is made up of two parts corn, and one part each of wheat and oats.

For the beginner with an incubator we know of no better advice than to follow the directions that come with the machine.

The value of grains for poultry food runs about in this order: Wheat, oats, corn, Kafir or milo, barley, buckwheat and rye.

There is this to say for incubator hatching: Mites and other pests are not waiting outside the shell ready to pounce on the helpless chick as soon as it emerges.

Who Has a Cure That'll Save the Day?

Mr. Editor—I have a fine dog that cucks eggs and can't break him of the habit. I do not like to have him killed. I have tried red pepper without effect. Can any reader suggest a remedy that will really work?

Osage City, Kan. Mrs. T. S.

Who Fumigates For Roup?

Mr. Editor—Do any of the readers of Mail and Breeze know how to fumigate a poultry house with the birds in it so as to cure roup? My flock has the roup now and would like to know how this fumigating is done.

Natoma, Kan. W. K. P.

Does Any One Else Raise Geese?

[Prize Letter.]

Mr. Editor—Little is said in the Mail and Breeze about geese. We would like to see more readers write about them. We keep the dry-land geese. Last year my four geese began laying the last of March and by May I had laid more than 50 eggs. Most of these eggs were used for setting and every egg that was fertile hatched. The goslings were put out in the alfalfa field where they had alfalfa leaves and a wet mash of bran and meal. Every one of them lived. An alfalfa field is the best place for them to run through the day time.

Mrs. G. W. Harvey.

Drummond, Okla.

Making Good Use of Straw.

[Prize Letter.]

Mr. Editor—There are a good many uses for the big straw stack but the best and most profitable one has hardly been mentioned. We have been in the habit of threshing our grain out in the middle of the field to please the threshermen but last fall decided to have our straw stacks close to the hen house. If any Mail and Breeze reader thinks the machine does not blow a lot of good grain into the straw, let him put his straw where the hens can get to it. Then watch the hens scratch and lay. Even with

snow on the ground a path may be shoveled from the poultry house to the stack. The hens will soon be there and will go to work immediately, keeping warm with the exercise. If you will once try this plan you will never again burn a straw stack nor thresh your grain out where the poultry cannot get to it.

Olathe, Kan.

John Reis.

Advertising Evidently Paid.

Mr. Editor—We always look with interest for the poultry items in the Mail and Breeze. Last winter we had 32 White Minorca hens but kept no records of the eggs laid until February 1. From that date until May 31 this bunch of hens laid 2,486 eggs. Of these eggs we sold \$117 worth by advertising them in

the Mail and Breeze. We think it is the best paper in which to advertise.

As a laying ration for the flock, we feed sprouted oats, Kafir, plenty of bran, and a very little corn chop. They have charcoal, grit, and fresh water before them all the time.

A. Manley.

Cottonwood Falls, Kan.

Success In Chick Raising.

[Prize Letter.]

In my poultry raising experiences I have succeeded particularly well in raising little chicks. I begin with the eggs, making sure they are of good stock, fertile, and of the right size and shape. Only a gentle hen is used for hatching, but I like to set two or three at the same time so as to give the best moth-

er of them a good bunch of chicks to care for. I feed the chicks nothing until they are about 30 hours old but they have sand and broken crockery in the box to pick at.

The box in which they are kept is lined with old flannel and the chicks are put into this box as soon as five or six are out of the shell in the nest. Many chicks are crippled or killed by leaving them in the nest with the old hen. The first feed is soaked, stale bread, a little at a time but fed as often as five or six times a day. Give them fresh water in dishes into which they cannot get with their feet. When a week or two old I feed whole wheat, Kafir, and corn chop that is not ground too fine.

Coops must be kept clean and it is nec-








Jim Rohan and His World's Championship Winners

Let me put
You
in this
World's
Champion
Class

Let me tell you how these champions hatched 140 Chicks From 140 Eggs

I Want Your Photo Here

Here's plain common sense: You want an incubator that will hatch every fertile egg. And you want a Brooder that will raise every chick, if such machines are built. You are going to buy the incubator that you believe is better than all others. That is plain good judgment. Good incubators cost so little and last so long that you can't afford not to get the best!

Now here's my proposition: I want to give you facts and proof! I don't want to take up your time here with empty arguments. You haven't time now for dilly-dallying. The time is now here when you must get busy with your hatching. You want an early hatch. You can't afford to lose time experimenting.

Follow the lead of Uncle Sam. The U.S. Government is among my 201,840 customers! Surely the machine good enough for Uncle Sam is good enough to make money for you! I want to send you the proof that my Belle City Incubator is the best. I want to give you the proof that it has produced a chick for every egg—not luck shots, but time after time! I want to prove to you that all of these World's Championship winners and thousands of others are getting 100 per cent hatches with the Belle City Incubator.

I want to send you the most remarkable incubator and brooder news ever published. I want to send you all the facts about my six-time World's Champion Belle City Incubator. I want to show you how to get into the World's Champion Hatching Class. I want to tell you how to make the most profit out of poultry right from the start and at the least possible cost. Let me tell you how my

This is the Tycos Cup won by my Belle City Incubator in the World's Championship Contest for best hatches, beating incubators costing 2 to 5 times more.



You can get record hatches too—just as easily as these World's Champions. I will show you how.

I want to tell you how I give you 1, 2 or 3 months test right in your own home, and my liberal, personal 10-year guarantee and money-back offer. Won't you write me now? Just mail me a postal and I'll send all this information and more, absolutely free.

World's Champion Belle City Incubator

is made—how they are different from all others, how I have embodied in them everything worth having in and on an incubator—the features that have made the Belle City the 6-time World's Championship Winner!

My 140-Egg World's Championship Belle City Incubator has Oakes double disc self-regulator, correct hot water heating system, copper tank and boiler, safety lamp, double walls and double door, with dead air space all over, with roomy nursery and strong egg tray. Of course, the thermometer is right; I use the "Tycos." I also supply egg-tester, Edw. Miller sun hinge burner, funnel, everything you need including valuable instruction book on operation, hatching and care of chicks.

And I want to tell you all about my famous 140-Chick Belle City brooder—the only double walled, hot water, top heat brooder made, guaranteed to raise largest percentage of chicks every time—a fitting companion to my World's Championship Belle City Incubator.

My Price Sensation

You may wonder at the remarkably low price at which I sell my machines direct from factory. I want to tell you how I send them all freight prepaid east of the Rockies and freight allowed that far on shipments beyond.

We Ship Quick from St. Paul, Kansas City, Buffalo or Racine.

Freight Prepaid

East of Rockies—Allowed that far to points beyond. 10 Year Guarantee

Raises Biggest Percentage of Chicks

1, 2, or 3 Months' Home Test

Just Drop Me a Postal—Now!

I will send you by return mail the proof that my World's Champion Belle City is the incubator that will pay you the handsomest returns!

If you're in a hurry—if you don't want to wait for all this proof, you can order direct from this advertisement. I tell you how my machines are made, and give you my money-back guarantee. The editor of this paper, or any bank or express company will tell you your money is perfectly safe and I'll do just as I say I will. I ask you to send only \$7.55 for my 140-egg, 6-time World's Champion Belle City Incubator—the best you can buy at any price, or \$4.85 for the 140-chick Belle City brooder. You can order both together if you wish, and save more money at my unheard-of low combination price—send only \$11.50 when both are ordered together.

Don't turn this page without either writing to me or else tearing out this corner as a reminder. Whether you order or not you get all my valuable World's Championship hatching facts absolutely free! But be sure to write me today. Just say, "Send World's Championship Hatching Facts," or order now and save delay. I guarantee to ship machines same day your order is received. Satisfaction guaranteed. Address Jim Rohan, President, Belle City Incubator Company, Box 21 Racine, Wis.



Price Less Than \$10

Freight Pre-paid East of Rockies—That Far It You Live Beyond.

Book FREE

QUICK!

Get Johnson's Book

It tells so many facts not found in other books that you need it, no matter which others you have. Home made, home printed, plain and practical from cover to cover. Tells about the

OLD TRUSTY

Incubator—over 400,000 in use—all sold on 30 to 90 days' trial, 10 year guarantee—direct from factory. Price less than \$10. Write to Johnson and read his book—then select your incubator.

JOHNSON, INCUBATOR MAN, Clay Center, Neb.

ROUP

Be prepared for this dangerous disease, which is liable to break out in your flock without a moment's warning. Stop it immediately or it will attack every bird and the loss will be frightful.

KELLERSTRASS ROUP REMEDY

Positively cures. Prevents spreading of the disease, besides curing the sick birds. Also cures Canker quickly. Sold under a positive money-back guarantee. If your dealer can't supply you send direct to us for \$5, \$10 and \$20 sizes. FREE—Kellerstrass Way of Treating Poultry Diseases. The most valuable book ever sent free to poultry raisers. Write for it today.

ROYAL MANUFACTURING & IMPORTING CO., 704 Royal Building, Kansas City, Mo.

GET IT

Before buying any kind of an incubator, at any price, from a dry body, get my 1912 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further.

I'm Going to Pay the Freight—Give You An Unqualified Guarantee—Include Everything FREE.

When writing, tell me what size incubator you are interested in and I'll send you my **FREE ILLUSTRATED POULTRY BOOK**. Describes Standard Bred Poultry, tells how to become successful and other valuable information. Easily worth \$1.00. Because it contains advertising, you get it FREE. Ask for copy.

L. W. MILLER CO., Box 349 Rockford, Illinois

\$150 A MONTH

and expenses easily made selling our modern line of family medicines, extracts, spices, soaps, perfumes, stock food, etc. — nearly 100 different articles in all.

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A Reliable Established Company, with a capital of \$200,000.00. No capital required. We furnish the goods on credit. You pay us after customers pay you. No experience necessary. We teach you the business. Position permanent. Exclusive territory. Only line of goods sold on a sanitary free trial plan. For full particulars, write at once to

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on water systems, windmills, pumps, pipe, bathtubs, sinks, etc. Send name today for big FREE illustrated 186-page catalog.

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Farmers Make Poultry Dollars

Poultry and eggs will bring large profits in 1913. Don't fail to get your share. Every farmer should consider how much this actually means to him.

CYPHERS AND BROODERS

are selected—used by farmers who demand "the best" in any tool. The World's Standard is a name by themselves. Send for our Big Free Book, "Practical Poultry and Egg Production," rich with vitally helpful poultry information.

Cyphers Incubator Company, Dept. 52, Buffalo, N.Y.

Save Your Chicks

We can help you. Send us names and addresses of (10) poultry friends and receive our revised 32 page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes Poultry Profits Possible; gives care and feeding of chicks and Turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE postpaid for the names. Write today. F. K. REMEDY CO., 740 Second St., Arkansas City, Kansas.

essary to keep a constant watch on the little fellows so as not to let lice and mites get a start. I seldom lose more than one chick out of 25.

Perry, Okla. Ethel Cubbison.

A Good Breed and Good Care.
[Prize Letter.]

Mr. Editor—I have raised Plymouth Rocks, Black Minorcas, White Leghorns, Dark Brahms, and both Rose and Single comb R. I. Reds. Of these breeds, I have come to the conclusion that the R. I. Red is the best chicken for meat as well as eggs. I have 75 hens, about 50 of them laying, and on February 1, 2, and 3, when there was snow on the ground, I got 18, 23, and 28 eggs respectively.

I feed the flock Kafir and corn and they have plenty of water and grit. I think hot parched whole corn for breakfast and a warm mash for supper are good in cold weather. I boil up potato parings and meat rinds, thickening with corn meal. Adding a little red pepper and soda is good for the birds. In winter I put a few drops of carbolic acid in the drinking water once a month and in spring and summer twice a week. The house is kept clean, well white washed, and lime is kept in boxes on the floor. In hot weather I go over the roosting poles every week, with a brush and plenty of coal oil. Equal parts of grease and oil of cedar are good for lice when rubbed under wings and on the heads of infested birds.

Agra, Okla. Mrs. Maye Botkin.

Winter Feeding for Eggs.
[Prize Letter.]

Mr. Editor—I always read the poultry letters in the Mail and Breeze with great interest. I keep a flock of White Rock hens and will tell you how I encourage them to lay in winter. I have an open front house with a curtain to drop down on stormy days and nights. I give the birds wheat scattered in a clean litter in this house in the morning, at noon they get a warm mash of ground beets (mangels), bran, oats, and corn meal. I also throw in a few mangels for them to pick at. At night I feed a little corn.

In each pen I have galvanized iron bran hoppers in which a mixture of bran, oyster shell, cut bone, beef scrap and charcoal is kept. Clean water fountains and clean, warm water are the first things I think of in the morning. I think mangels are a great factor in winter eggs production. They may be easily kept over winter by pulling them before frost, cutting off the tops, and covering them with about 2 feet of earth in an oval mound.

Keeping the hens busy has a great deal to do with the number of eggs laid. A hen with plenty of dry litter to scratch in is sure to be healthy and have a good circulation. The circulation controls the laying organs and that is why the busy hen lays the most eggs.

R. H. Killebrew.
Sapulpa, Okla.

Liked the Poultry Number

Farmers Mail and Breeze has received many compliments for the usefulness and general appearance of its Seventh Annual Poultry Number which appeared February 1, this year. These words of approval and encouragement are appreciated and go a long way toward making an editor's life worth while, also toward making him put forth his best efforts to do still better next time. Some readers saw one thing in the special issue that appealed to them and some another, while others thought the paper as a whole could not well have been improved upon. Not all the good things said and written about it can be reproduced here but we want to give space to the good word of a newspaper editor since it shows how the hearty co-operation of Mail and Breeze folk was largely responsible for many good things the poultry number contained. This complimentary mention appeared in the Humboldt (Kansas) Sun:

"The prettiest picture that has appeared in the Mail and Breeze for many months is that of a large wicker basket of eggs produced by W. A. Hess' Golden Rule Buff Rocks at his poultry farm near Humboldt. There is a growing demand in this country and even in Canada for the hardy, purebred birds and eggs from his pens. Mr. Hess is a practical breeder and a practical writer as well. He has written some excellent articles on poultry raising for the better class of poultry and farm papers of the country."

Ironclad Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 eggs Ironclad—the name machine—won with 100% hatch. Paid for only \$10. Mr. G. P. Smith, with 100% hatch, hatched 140 chicks from 140 eggs in 1912 contest.

Both for \$10
Freight Paid
East of Rockies

140-EGG Ironclad Incubator
Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these splendid specifications: Galvanized iron body, galvanized iron walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick space—10 cubic feet, heat, copper tanks and boiler, self regulator, 250° thermometer, glass in door and many other special advantages fully explained in our Free Catalog. Write for it TODAY or order direct from this ad.

IRONCLAD INCUBATOR CO., Box 66 Rock, Wis.

140 Chick Breeder

Sure Hatch Incubator and Uncle Sam Poultry Book

The combination of these two will bring you success in the poultry business. The first and greatest thing is a good incubator. You get this when you buy a Sure Hatch. Built of the best California redwood—strong and neat—first class heating system made of pure lake copper which never rusts—large egg chamber and roomy nursery—best regulator made—regulator on side of machine out of the way—top clear like a table—chick tray in nursery—three walls with dead air space—extra thick insulation in lid and a lot more strong features not found in other machines. In fact the Sure Hatch is a quality machine. No thin iron—no paste-board—no knotty lumber—no inferior stuff. Goes out ready to use. Don't have to put 100 pieces together like you do with some others.

60 Days Free Trial
Freight Paid

The Chicks Hatched from Eggs Other Machines would Spoil will soon pay for your Sure Hatch

This is no idle statement, but an absolute fact. There are a lot of cheap machines on the market that hatch so poorly that they discredit incubators in general. Don't be misled by a cheaply built machine sold at a low price. Buy only a standard machine made by a reliable firm. **FULLY GUARANTEED FIVE YEARS.**

UNCLE SAM POULTRY BOOK is written by men who studied out the poultry business for the Agricultural Department of the U. S. Government. It tells plainly (and with the highest authority in the world) just what to do to succeed with chickens. Every poultry man can read the book with profit. Especially if you are beginning the business you should have the book. Nothing like it printed, and published only by us. Sold at almost cost—only 20 cents postpaid, and by our plan you can have 50 cents back. Send for one now. Also ask for our big free Sure Hatch catalogue and pick out an incubator at once.

SURE HATCH INCUBATOR CO.
Box 14, Fremont, Nebraska

The Fostoria Incubator

This incubator has been thoroughly tested in the hands of users and has proved its superiority. It is made of the best redwood lumber and is worth the price. It has a double acting regulator that acts quickly, surely and always. Equipped with Tycos thermometer, the best made. It requires less oil. A special feature is the alarm which makes care of the machine easier and is another check on the temperature. No, it isn't fool proof, but if handled according to simple instructions it will hatch the hatchable eggs. Find out all about the incubator made in the good state of Kansas. Two sizes, 150 and 200 eggs. 30 or 60 days' trial. Money back if not satisfied. Send for the free catalog.

FOSTORIA INCUBATOR COMPANY,
B Street, FOSTORIA, KANSAS.

KANSAS MADE

The World's Most Remarkable Incubator—
Uses Only 1 Gallon of Oil to a Hatch—Lamp is Filled Only Once

We place the lamp underneath, in the center. That means perfect distribution of heat throughout the egg chamber—there is no cold side. Our lamp holds 4 to 8 quarts of oil. Fill it once for a hatch—no daily mess or smell. And our automatic trip cuts the flame down at the burner, when egg-chamber gets too hot. All others let the excess heat escape. That's why the X-Ray needs only one gallon of oil to a hatch, while others require 3 to 5 gallons. And an

X-RAY INCUBATOR

has no front door—it opens from the top. That's why it's so easy to ventilate and turn eggs in the X-Ray. The top has two double glass panels so you can see thermometer at any time without exposing eggs to outside air.

The Only Improved Incubator—Saves 75¢ to \$1.25 On Every Hatch!
Think of this big saving—both of work, worry and money.

Yet there are many other exclusive and patented features of the X-Ray that you should know about. Our new 1913 book No. 47, tells all about these things.

Write Today For Big, Free Book—and learn more reasons why the X-Ray is the most successful one ever invented. Shipments guaranteed same day orders are received. We pay the freight.

X-RAY INCUBATOR CO., Wayne, Neb.

BUY HARNESS FROM MAKER—SAVE 1/3 TO 1/2

We Pay Freight

You not only save one-third to one-half when you buy harness from us, but you get the best harness in the world; made by expert harness makers, in a splendidly equipped shop, from the best materials money can buy. Every harness built on horse and sold direct with but one small profit between maker and user. Get our big Harness Book before you buy. Free—send today. H. & M. Harness Shop, 78 Ill. Av., St. Joseph, Mo.

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Poultry Magazine

Big 40 to 50 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, 600 Jackson, Topeka.

Reliable Poultry Breeders**ORPINGTONS.**

SINGLE COMB Buff Orpington cockerels for sale. Ira Chestnut, Denison, Kan.

CRYSTAL WHITE ORPINGTON eggs \$1.50 per setting. Geo. C. Fisher, Custer, Okla.

CLOSING OUT all my Invincible White Orpington winners. Arthur Haurey, Newton, Kan.

KELLERSTRASS White Orpington eggs in season. Mrs. D. A. Hassenpflug, Toronto, Kan.

FEW CHOICE S. C. White Orpington cockerels one fifty each. J. J. Felzien, McDonald, Kan.

WHITE ORPINGTON eggs. Large stock. Setting \$1.50. Hundred \$7. Mrs. Helen Lill, Mt. Hope, Kan.

SINGLE COMB White and Black Orpington cockerels. J. L. Carmean, Neosho Falls, Kan.

PURE BREED Buff Orpington eggs. \$1.00 for 15. C. O'Roke, Fairview, Kan., Brown Co.

THOROUGHbred White Orpington cockerels for sale. \$1.50. M. Rathbun, Lucas, Kan.

CRYSTAL WHITE ORPINGTONS. Write for prices on stock. Fred Baile, Fredonia, Kan.

S. C. BUFF ORPINGTON eggs from prize winners, for hatching. Mrs. E. C. Eckart, Humboldt, Kan.

ROSE COMB WHITE ORPINGTON cockerels. Egg strain. \$2.00 each. Austin Talbert, Exeter, Mo.

S. C. BUFF ORPINGTONS. Stock and eggs for sale. Mrs. Frank Whearty, Westmoreland, Kan., R. R. 1.

S. C. B. ORPINGTONS. Owens strain. Large, good color. Eggs \$1.00 per 15. Mrs. J. Drennan, Liberty, Kan.

CRYSTAL WHITE ORPINGTON eggs from fine birds, for hatching. Mrs. Thad Wamsley, Conway Springs, Kan.

S. C. WHITE ORPINGTON eggs, scored birds. Kellerstrass strain, \$1.50 per setting. H. J. Lorenz, Russell, Kan.

KELLERSTRASS Crystal White Orpington eggs \$2 per 15. \$10 per hundred. Louis H. Westbrook, Peabody, Kan.

CRYSTAL WHITE ORPINGTON beauties; single comb. Eggs, pullets and cockerels. Oscar Zschelle, Burlington, Kan.

BLUE RIBBON strain S. C. White Orpingtons. Some fine young cockerels at \$2 each. C. C. Crebbs, Stafford, Kan.

PURE BREED Buff Orpington eggs 90c for fifteen. Orders booked now. Albert Schablie, Fairview, Kan., Brown Co.

CRYSTAL WHITE Orpington okls. \$2.00 each. Eggs in season, \$2.00 per 15. Mrs. Alley Ingraham, Manhattan, Kansas.

WHITE ORPINGTONS. Kellerstrass'. Utility eggs \$1.50 per fifteen; first pen \$2.50. Mrs. W. Patterson, Yates Center, Kan.

BUFF AND WHITE ORPINGTONS. Eggs from exhibition stock \$2.00 per 15. Ideal Poultry Yards, Route 8, Enid, Okla.

KELLERSTRASS White Orpingtons. Young stock for sale from winners. \$2 each. Eggs in season. J. Strathmann, Palmyra, Mo.

KELLERSTRASS White Orpingtons from 350 settings. Cocks two dollars. Eggs same per setting. P. C. Stephens, Columbus, Kan.

BUFF ORPINGTONS. Choice matings. Eggs \$1.50 15, \$3 50, \$6 100. Order direct. I can please you. Aug. Petersen, Churdan, Ia.

KELLERSTRASS White Orpingtons. Eggs \$3 for 15; \$3 for 50. Free illustrated catalogue. Phillips Poultry Farm, De Soto, Kan.

CHOICE scored stock. White Orpingtons (Kellerstrass); also White Wyandottes. Eggs \$1, \$2 fifteen. Mrs. M. Garnant, Kidder, Mo.

HIGH CLASS Buff and Black Orpingtons. Winners K. C. International. Eggs reasonable. Mating list free. C. A. Scoville, Sabetha, Kan.

CRYSTAL WHITE ORPINGTONS. Fine pen direct from Kellerstrass; \$4 per 15 eggs. Book orders early. Mrs. Fred Smith, Ogallah, Kan.

EGGS FOR HATCHING from heavy laying strain Crystal White Orpingtons. Farm raised. Prices reasonable. Gustaf Nelson, Falun, Kan.

KELLERSTRASS White Orpingtons, blue ribbon winners. Stock and eggs for sale. Prices reasonable. Hardin Poultry Farm, Noble, Okla.

VERY FINE White Orpington cockerels and eggs for sale. Write immediately for special low prices for a short time. G. S. Gillum, Gypsum, Kan.

SINGLE COMB BUFF ORPINGTON cockerels and pullets of splendid breeding. Eggs from two fine pens \$2. \$3 per 15. Mrs. W. M. England, Callao, Mo.

SHIP EGGS by Parcel Post. We sell the cartons. Full description by return mail. Boss Bros. Seed House, 318 East Douglas, Wichita, Kan.

ATTENTION, POULTRY RAISERS. Guaranteed remedy for white diarrhea. Send your name today for full information. Poultry Remedy Co., Blackwell, Okla.

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FOR SALE—Rose Comb Rhode Island Red eggs, from prize winning, high scored matings. The very best. Write for mating list. Also fifty breeders. J. A. Wells, Erie, Kan.

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EGGS. Wonderful bargain. Rose Comb Reds; score to 93%. Fourteen prizes 1912. All good; headed by grand males; \$6.00 per 100. Chicks 50c each. Mrs. Abbie Rienlets, Pratt, Kan.

ROSE COMB RED eggs. From pens headed by \$10.00 to \$30.00 roosters. 15 eggs \$1.50, 30 \$2.50, 50 \$4.00, and 100 \$7.50. Good range flock \$4.00 per 100. W. R. Huston, Americus, Kan.

FOR SALE—Hatching eggs and baby chicks; Blue Ribbon strain. Single Comb Rhode Island Red. Order now to insure delivery. C. W. Murphy, 1751 New Hampshire St., Lawrence, Kan.

SINGLE COMB RHODE ISLAND REDS. Winners at Kansas State and other shows. Eggs 7 to \$3.00 per 15, \$4.00 per 100. Fertility guaranteed. Catalog free. Karl Spellman, New Albany, Kan.

SINGLE COMB RED cockerels. Best blood lines. Good show record. Splendid individuals. Eggs from superb matings. Prices low. Also white Indian Runner drakes and Boone County White seed corn. J. B. Hunt, Oswego, Kan.

MOORE'S REDS won 12 prizes Kan. State Show, 1912 (including every 1st), our customers won 10 prizes 1913 State Show. Choice cockerels for sale. Get our 1913 mating list. Moore and Moore, 1239 Larimer, Wichita, Kan.

STOVER & MYERS, Rose Comb Reds, choicest quality. Winning 28 ribbons at Oswego, Tulsa, Fredonia and Kansas State Show. Eggs cheapest in West, quality considered. Yard A. & B. \$5.00 per 15; C. & D. \$2.50 per 15; Yard E. \$4.50 per 100. Free circular. Fredonia, Kan.

TURKEYS.

FINE M. BRONZE toms \$5.00. Estella Mather, Le Roy, Kan.

PURE BRED White Holland pullets. Mrs. S. J. Bloxom, Pratt, Kan.

WHITE HOLLAND turkeys. Toms \$4.00; hens \$3.00. Mrs. R. A. Lewis, Bison, Kan.

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TEN WHITE HOLLAND toms. Price \$4.00 each. Large birds. Lee Brothers, Harveyville, Kan.

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BOURBON RED turkey eggs 25 cents each in numbers of 8 or over. Mrs. M. H. Arnold, Toronto, Kan.

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MOTTLED ANCONA eggs. Winter layers. \$1.50 per 15. Walter Wright, Bronson, Kan.

MOTTLED ANCONAS exclusively. Eggs, 15 \$1.00, 100 \$6.00. Lucie House, Haven, Kan.

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

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

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PRIZE WINNING Black Spanish eggs and baby chicks. Also Black Tailed Japanese Bantams. Stamp for circular. H. Chestnut, Centralia, Kan.

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SINGLE COMB BLACK MINORCAS. Cockerels \$2.00 each. Sarah Peters, Nashville, Kan.

SINGLE COMB BLACK MINORCA ckls. \$3.00. Eggs \$2.00 15. A. L. Liston, Garden City, Kan.

HAMBURGS.

SILVER SPANGLED HAMBURGS. Stock and eggs for sale from state prize winners. Minnie Koch, Ellinwood Kan., R. No. 3.

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CORNISH eggs; scored and unscored; mating list ready. D. P. Neher, McCune, Kan.

Reliable Poultry Breeders

LANGSHANS.

PURE BLOOD B. LANGSHAN chl. Chas. Leeper, Harper, Kan.

PURE BRED White Langshan cockerels and eggs. Mrs. Alice Burkhead, Lane, Kan.

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BLK. AND WHITE LANGSHAN. Choice mating eggs \$5.00 15; range flock, \$6.00 100. H. M. Palmer, Florence, Kan.

BLACK LANGSHAN, Houdan cockerels two fifty to five dollars each. Write for mating list. E. D. Hartzell, Rossville, Kan.

BLACK LANGSHAN eggs from high scoring stock, \$1.50 per setting, \$5.00 per 100. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

BUFF AND BLACK LANGSHAN eggs \$2.00 15, \$6.00 100. Positively no better Langshans in America. John Lovette, Mullinville, Kan.

BLACK AND WHITE LANGSHANS for sale. Both sexes. Write for prices. Satisfaction guaranteed or money refunded. Frank A. Vopat, Lucas, Kan.

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EGGS \$5 hundred, \$3 fifty, \$1 setting. Mrs. Frank White, Furley, Kan.

LT. BRAHMAS exclusively; winners at late Kansas City show. Fine large stock for sale. Mating list ready Feb. 1st. Mrs. J. F. O'Daniel, Westmoreland, Kan.

BRAHMA eggs and stock that defy all competition. By their sweeping winnings in every state show. At your price by the dozens. Pictorial price list for the asking. Mrs. J. R. Kenworthy, Wichita, Kan.

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BUFF COCHIN cockerels \$2.50 to \$5.00. Pullets \$2.00. Housel, Smith Center, Kan.

SEVERAL VARIETIES.

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SICILIAN BUTTERCUP eggs from splendid layers. 15 for \$2.00. Lee Threlkeld, Hampton, Ky.

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

WHITE WYANDOTTES, S. C. White Leghorns. Eggs 15 \$1.00, 100 \$4.00. Satisfaction guaranteed. R. W. Gage, Garnett, Kan.

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

EGGS, Indian Runner ducks, Single Comb Reds, Silver cup winners. Prices low. Circular ready. Quality square. A. B. Lampert, Brinkman, Okla.

WHITE MINORCAS and White Orpingtons. Pure bred eggs from the best prize winning strains \$2 per setting. Arthur Goodwyn, Minneapolis, Kan.

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EGGS from White Rocks, White Wyandottes, White Cochins Bantams, White Holland turkeys, White guineas, White China and Embden geese, White Indian Runner and Pekin ducks. A. T. Garman, Courtland, Kan.

EGGS, 63c a dozen! You can get premium prices in any market if you'll read "Poultryology" and learn how Yesterday Egg Farms produce and market their eggs. 144 pages—70 pictures. Get one now! Edition limited. Year's subscription to Standard and Poultry World free. Yesterday Egg Farms, Dept. 40, Pacific, Mo.

BARRED ROCKS. Our birds again demonstrated their high quality at this season's shows. Very best laying strains. Pens mated for the coming season. Send for descriptive circular. Pen eggs \$3 per 15. Utility eggs \$4 per 100. C. C. LINDAMOOD, WALTON, KANSAS.

WANTED—INDIAN RUNNER DUCKS in quantities. Will buy entire flocks. Highest prices for all Pure Bred Poultry. What have you to offer?

F. W. FRENSE, CLARINDA, IOWA.

White Orpington and Indian Runner Ducks

Eggs \$6 per hundred. Turkey and Geese eggs \$1.75 per setting. We breed all leading varieties of Standard Poultry. Plymouth Rocks are our leaders. Stock of highest quality at let live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

PFILE'S 65 Varieties

Land and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box 604, Freeport, Ill.

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Eggs \$6 per hundred. Turkey and Geese eggs \$1.75 per setting. We breed all leading varieties of Standard Poultry. Plymouth Rocks are our leaders. Stock of highest quality at let live prices. Write

"Here's Freedom From Kitchen Drudgery!"



Every Mail and Breeze Housewife May Now Own a "Gold Medal" Kitchen Cabinet!

Read What This

"Western Housewife" Says:

"Before the 'Gold Medal' Kitchen Cabinet came into my home I hardly knew the meaning of a moment's rest. It was a case of tramp, tramp, tramp from the stove to the cupboard, the cupboard to the work table, the table to the sink and back to the cupboard again. Miles of ceaseless walking all through most every hour of every day."

"My 'Gold Medal' Cabinet has I actually believe, added 10 good years to my life! It has made life really worth living—and it has made my Kitchen work a PLEASURE instead of a drudge!"

"My Kitchen is now one of the cosiest and neatest rooms in our home. In the big roomy 'Gold Medal' Cabinet there is a place for everything used in cooking—and everything is always in its place!"

"I can go into my kitchen now and prepare an entire meal with hardly a step to be taken except from my cabinet to the stove. I sit in a comfortable chair drawn up to the big nickel-covered work table—and within easy reach is every article I need in my cooking."

This is How the "Gold Medal" is Made:

The "Gold Medal" Cabinet is an attractive piece of furniture, manufactured from selected oak, and finished a rich golden oak color with a special wax finish. The top has a 2-inch cornice at the back and ends, forming a convenient shelf. Cabinet top 40x38x12 inches. Sanitary flour bin with glass indicator and dust-proof sifter. Large china closet, spice bin, etc. Base 30 inches high, 40 inches long, and 28 inches wide, with nickel top. Large cupboard, three commodious drawers, kneading board, etc.

A very special feature of my Gold Medal Cabinet is its sanitary nickel top, a sheet of heavy zinc, coppered and then nickel-plated, stretched tightly over a cleated top, the brightest, most durable and most sanitary top ever manufactured. Lower drawer contains a two-compartment metal bread and cake box, hinged metal covers. This box can be lifted out of the drawer, cleaned and replaced without trouble. The commodious cupboard to the left of the drawers is 25 inches high, 24 inches wide and 26 inches deep with a sliding tray shelf and large pan rack on door—an all Oak Cabinet, 28x40 inches by 70 inches high, complete with Sifter Flour Bin, Tilting Sugar Bin, Art Glass Door, Metal Bread Box and High-Grade Castors, crated ready for the kitchen.

Get Our "Free Cabinet" Plan!

It is the most liberal, most attractive, most astonishing offer ever made. This beautiful Gold Medal cabinet may be yours almost for nothing—Worth \$30—sold to our CLUB MEMBERS ONLY at just about HALF PRICE—no money down—30 days free trial, then pay our small price in 50c payments. Fully warranted—money back if it doesn't please. Hundreds of letters prove quality.

Thousands have already written for membership in our big club. We want every locality represented. Our wonderful NEW PLAN makes it possible for a few ladies in each locality to get this cabinet ABSOLUTELY FREE. No canvassing or soliciting. No public work.

This great free cabinet offer good for short time only. Send YOUR name and address for full details NOW. It is an offer that will surely please you. Write today. Use a postal card or the coupon printed below. Address,

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Dept. 81, Topeka, Kan.

"Saves Many Steps"

"I like the Gold Medal Kitchen Cabinet just fine and think it is a real nice and useful piece of furniture. It saves many steps and is so easy to keep clean."—Mrs. A. A. Davis, Hoxie, Kan.

"Nothing Like It"

"The Gold Medal Cabinet reached me in perfect condition. It was very well crated to guard against accidents. In neatness, construction, material and workmanship the cabinet simply cannot be duplicated."—Mrs. M. E. Darrough, Emporia, Kan.

Send This Coupon NOW!

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Send me your illustrated folder and tell me all about your free cabinet plan.

NAME

ADDRESS

The WOMEN

Conducted by



FOLKS

Mabel E. Graves

We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house, or if you have anything to say which would be of interest to another woman, send it to the Home Department editor. Prizes for the three best suggestions received each week will be, respectively, a set of triple-plated teaspoons in the beautiful Narcissus design, a year's subscription to the Household magazine, and a year's subscription to the Poultry Culture magazine.

We have had some splendid letters about selecting and arranging flowers for the home yard, and still we want more. You remember the first prize is a set of narcissus silver knives and forks, second and third prizes, narcissus silver teaspoons. We still have two weeks to receive letters. The prizes will be awarded March 15.

There will be no minimum wage bill for working women passed by the legislature this year. The senate committee has decided not to recommend the bill passed by the house, which I told you about last week. They decided instead that the legislature does not know enough about the need and amount of minimum wage to act intelligently; so they will ask for a committee to investigate conditions and report when the next legislature convenes, two years from now. And thus endeth the first chapter.

Churning In Cold Weather.

[Prize Letter.]

I thought I would tell readers of Mail and Breeze how I manage my cream from the time it is separated until it is molded into butter. After it is separated I cool it well, then mix with the other cream. I keep it in a two-gallon jar, stirring well each time new cream is added. The night before I want to churn I put in about a pint of butter-milk, stir well and set on the back of stove to get warm. Next day I keep it in the kitchen until evening, when I churn. It is just about right to churn, although I take the temperature after churning a few minutes, and if need be put in a little warm water. We use a five-gallon barrel churn and churn twice a week during the winter. By following this plan closely I get along better with my butter than I ever did before.

Mrs. P. L. Chapman.

Lexington, Okla.

Easter Clothes for the House.

It is almost time for the spring house-cleaning, and we all want something new. For those who cannot afford to buy, pretty homemade rugs may be made by coloring coarse sacks, cutting into strips 6 inches wide and raveling out each side, leaving a space 1 inch wide in the center. Take a piece of heavy cloth the length you want your rug, and sew on the strips so as to cover the cloth. These rugs are pretty colored dark red or green.

A very pretty and inexpensive bed set may be made of dotted swiss. The center may be made of material with a large dot, and the ruffle or flounce of smaller dots. A lining of pale blue or pink cambric is pretty, and one may have curtains and shades to match.

A nice footstool or seat for a child may be made of a small goods box, covered with patch work or worsted and velvet scraps. The sides may be covered with the same, or with a strip of worsted, and all tacked on with brass-headed tacks.

W. D. Logan.

R. 4, Stockton, Mo.

Girls Have a Right to Know.

[Prize Letter.]

We find so many good things in the Home Department, all of them practical and instructive, one hardly knows which is best. I am impelled to contribute a little something along the same line as the excellent article by Sister Experience some weeks ago, in which she suggested various ways of lightening woman's work, such as folding the sheets from the line when thoroughly dried in our Kansas sunshine, then ironing only the top fold; also folding the dish towels and many other small articles to shorten the ironing hours. She also spoke of teaching our girls the art of housekeeping and cookery. To all of her sugges-

tions this sister mentally replied, "The same here!"—the very same.

Let's teach the girls to sweep and dust properly, to make the beds neatly, and arrange the furniture in an orderly manner. And by all means when we make the bread call daughter and explain the various processes from beating up the sponge to taking the nicely browned loaf from the oven. Then the biscuits, and cookies, cakes and pies—yes, and puddings, too. Let her make something for Sunday dinner every Saturday. After a while, in her own home, loved ones will say, "Isn't our mamma a good cook!" And she will reply, "Give

Whether all the women of Kansas wanted it or not they now have the right of suffrage and should exercise it fully. Their help is needed in settling the complex questions of the time and for the betterment of local conditions.

—ARTHUR CAPPER.

all the credit to mother. She taught me when I was a girl and now I love to imitate her."

Doesn't that sound better than if she replied, "Well, I learned some things at the cooking school and have blundered into the rest myself. Mother always used to say, when I asked her to let me cook something, 'Oh, I can make it in half the time it takes to show you. Run off and play. You'll have enough of it to do when you get big.'" In this connection one is reminded of the letter received at an institution where domestic science is taught. It read: "Dear Teacher: My diploma received some time ago. Will you please send me the formula for cooking ham and eggs? I am married now, and keeping house, and hubby says he is so fond of them." Draw your own conclusions.

Mrs. E. A. W.

R. 1, Hutchinson, Kan.

How to Clean Soiled Carpet.

[Prize Letter.]

To 6 quarts boiling water add 1 large cake of the best laundry soap shaved fine and ½ pound of borax. Boil a few minutes, then add 4 ounces ammonia. Stir well and put away in cans or jars. Wet the spot to be cleaned with the liquid. Use a little soap and brush well with a brush dipped in warm water. This cleanser will do as much as gasoline in cleaning clothes and is perfectly safe.

Mrs. Frank Carothers.

R. 3, Clarence, Mo.

The Very Newest Nemo

Self-Reducing, with a big new feature, "Lasticurve-Back." Extremely long, but the elastic goes at the back expand when you sit down, and you are perfectly comfortable. A new effect.

322—low bust } \$3.00
324—medium }

Fine white coutil, sizes from 20 to 36.



The Mills Dry Goods Company
Topeka, Kansas

HOME DRESSMAKING

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



- 6092—Girls' Dress, 4 sizes, 6 to 12 yrs.
 6093—Misses' and Small Women's Blouse (Coat, sizes 14, 16 and 18 yrs.
 6129—Ladies' Draped Skirt, 5 sizes, 22 to 30 waist.
 6120—Boys' Dress, 3 sizes, 1, 2 and 3 yrs.
 6126—Ladies' Over-Blouse Waist, 5 sizes, 34 to 42 bust.
 6094—Boys' Suit, sizes 2, 4, 6 yrs.
 6105—Ladies' Apron, sizes 34, 36, 38 bust.
 6115—Children's Dress, sizes 2, 4, 6 yrs.
 5907—Ladies' Waist, 6 sizes, 32 to 42 bust.
 5548—Six-Gore Skirt, 5 sizes, 22 to 30 waist.

USE THIS COUPON FOR PATTERN ORDERS.

Farmers Mail and Breeze, Pattern Department,
 Topeka, Kan.
 Dear Sir—Enclosed find cents, for which send me the following patterns:
 Pattern No. Size.....
 Pattern No. Size.....
 Pattern No. Size.....

Name

Postoffice

State

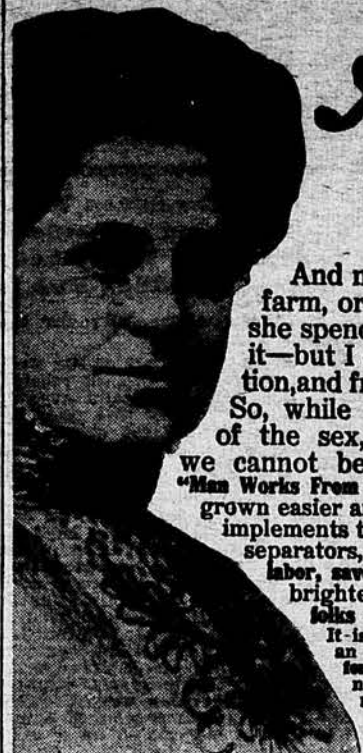
R. F. D. or St. No.

BE SURE TO GIVE NUMBER AND SIZE.

Easy to Work in This Kitchen.

[Prize Letter.]

The woman who is going to house-keeping for the first time usually plans carefully the kind of furniture she will have in the parlor and the color of curtains and wall paper for the bedroom, but she gives little consideration to the furnishings of her kitchen, although it is there she will spend the greater part of her time. She does not realize how much that seems drudgery is really due to inconvenient and gloomy surroundings; that dark blue or drab walls make blue or drab thoughts, and that a bright, sunny room will do much to lighten



MISS PEARL MERWIN, Supervisor American College of Dressmaking.

Miss Merwin is generally recognized as one of America's foremost authorities on everything pertaining to Dress, both for the professional dressmaker and the home seamstress. She is contributing editor to some of America's leading women's fashion magazines.

An Appeal to the Men Folks

An appeal for a fair deal—for the square deal in behalf of the womenfolk! You menfolk hear and say a great deal about the "Square Deal" these days. What say we practice it a bit at home? Don't you think it high time "She" had "Her" work lightened a little? "She" may be too busy in the kitchen to even get to see this announcement. You be sure and call her attention to it right now. She'll thank you for doing it. *Pearl Merwin.*

Uncle Sam Says:

"A Woman Can Earn \$5000 a Year in Dressmaking"

The following is quoted verbatim from the United States Government's Twenty Fifth Annual Report on Industrial Education; Page 446 1910 Edition.

"The demand for girls in dress-making establishments is very great, and those who have had training can always secure positions. There is, too, every opportunity for advancement, as a girl who has ability can look forward to mastering the trade step by step until she is manager of her own establishment earning anywhere from \$1,000 to \$5,000 or more a year."

And I agree with him, for I have seen it demonstrated. Of course it does not follow that every woman can do so well. The rich rewards are for the trained woman. Will you be one of them? The American College of Dressmaking has demonstrated the fact that women who want to turn their spare moments into ready cash are finding our training opens up the greatest opportunity ever offered to them.

\$25 to \$50 A Week for Women Many Receive Much More

One woman, the head designer in Chicago's leading dry goods house, receives \$10,000 a year. The Fashion Editor of The Delmonico says she has refused a salary as high as \$25,000 a year. Salaries of \$25 to \$50 a week are common in the city. Graduate dressmakers are wanted right now in many good towns and cities. Never before has there been such a demand for competent designers. We have right now more calls for graduates than we can supply. We teach you by mail and equip you to command a good income. Or you can start in business for yourself. Become a Graduate Dressmaker. The regular diploma of this College is issued to all who complete this course of lessons.

Opened Her Own Shop

"I opened a shop here and got a lady to help me, as sewing was brought to me by so many it was impossible for me to do even half of it. I take pride in making a perfect fit, and have made \$85.10 in four weeks, above paying the help I had. I know I have saved \$30 to \$40 on my own sewing."

MISS GRACE M. LONG, Olivet, So. Dak.

labor and keep her cheerful and happy. Perhaps there can be found no better way to plan the improvement of one's kitchen than to sit down in it with paper and pencil, and write out its good and bad points, noting what can be done to make the good ones better and to do away with the bad ones. Frequently it will be found that changes can be made with little or no outlay of money. In this critical study of the room the housekeeper should ask herself three questions: First, is it sanitary; second, is it convenient; and third, is it beautiful. To be sanitary the floors must be free from cracks that harbor dirt and disease, the walls impervious to water and grease, the woodwork simple and easily cleaned. There must be no dust catchers, such as old shawls and coats hang-

At Last! At Last!!

A Labor-Saver, Time-Saver and Money-Saver for the HOUSEWIFE on the Farm

And not only for the farm housewife, but for every woman, young or old, on the farm, or in the village, town or city, who wants to get the best results from the money she spends for clothes. I claim for every woman the right of rest and recreation, and freedom from the tiresome toil that has been her lot since the beginning of time. So, while we are clamoring so earnestly for political freedom, for the emancipation of the sex, let us raise our voice a little louder—let us cast one telling ballot where we cannot be denied a vote—for a greater degree of economic efficiency in the home! "Man Works From Sun to Sun, Woman's Work Is Never Done," is an adage as old as the race. Man's work has grown easier and lighter and more systematic and mechanical every year. The men folks have their implements to help them in their work—the windmills, gasoline engines, harvesting machines, cream separators, incubators, auto trucks—and dozens of other implements and appliances that lighten labor, save time, and improve results. I claim that it is high time the inventive minds of America's brightest men and women were devoted to developing ideas and inventions to do for the women folks and their work all that all these modern methods are doing today for the MEN!

It is my very great privilege and pleasure to bring to the women readers of this great farm magazine an opportunity by which they may secure free the greatest labor-saver, time-saver, and money-saver ever devised for use in the making of women's clothes—and the woman who has been making her own clothes by the old-time, nerve-racking methods with results never satisfactory and never worthy of the effort and patience used in the making, will welcome the glad day that will dawn for her as a result of the remarkable offer I am going to make.

I'LL GIVE THIS \$6 "COMPLETE" DRESS FORM FREE

to Every Reader of "Mail and Breeze" Who Accepts My Offer at Once

Yes, I mean just what I say. I am going to make an offer that will enable every woman reader of this paper to secure the most satisfactory dress form ever invented absolutely free of charge. The illustrations of the dress form shown here-with can give you but a very crude idea as to its great beauty and utility.

With the aid of the full length "Complete" Dress Form as illustrated here you are not only enabled to fit waists to yourself perfectly—but you really can have a duplicate of your own form so that you can fit and drape the entire dress, coat, skirt, or other garments and see

for yourself just exactly how it sets, fits, and hangs on all sides—something that is impossible for you to do with the aid of a mirror. You become your own fitter with the aid of the "Complete".

The time, work and worry which it will save you in the making of one dress will surely convince you that the "Complete" would be big value at \$10, if you couldn't get it for less.

But I don't ask you to pay even so much as 10 cents for it—I am going to offer you one of these \$6 "Complete" Dress Forms absolutely free.

Dress Better—Save Half—And Still Wear Tailor Made Clothes

You really can do just that—you can dress better and save more than half by making your own clothes instead of paying high prices to dressmakers. I have proved the truth of this statement to more than 37,000 women who now make their own clothes at home by my great "American System", with the aid of this wonderful new dress form which I am giving away to all who accept my offer. Through my plan of interesting home study any woman may easily and quickly master the "American System", which

teaches how to design, draft, cut, fit, make, drape and trim any garment, including children's clothes—and at a cost much less than half what capable dressmakers and ladies' tailors charge.

There is no reason why you should not be saving from \$50 to several hundred dollars a year on the amount you now spend for clothes—and for the same amount you should be able to dress better, and have two dresses for every one that you can get from the dress-maker at the same cost.

My Book "LESSONS BY MAIL" Free to You

If you will sign your name and address to the coupon below, cut it out and mail it to me at once you will receive free and postpaid, one copy of my 64-page book illustrated in colors, telling all about the "American System" of instruction and how thousands of women throughout America and every civilized country on the globe have put this system to the most critical test during the last eight years, and have found it all and more than represented to be. This coupon will also entitle you to the Free Dress Form Offer and a Dollar Due Bill which may be applied on a scholarship in the American College of Dressmaking—also my offer of two weeks' free instruction, to demonstrate the simplicity and thoroughness of the "American System". Send no money. Simply clip out the coupon, sign your name and address, and mail it today. Address



American College of Dressmaking
 1686 Commerce Bank Building
 KANSAS CITY, MISSOURI

FREE DRESS FORM Book and Dollar Due Bill COUPON

AMERICAN COLLEGE OF DRESSMAKING

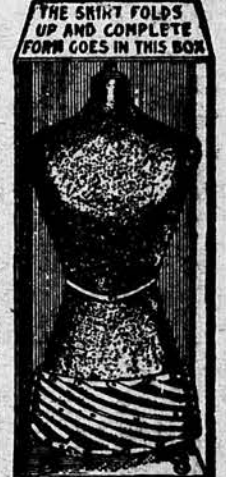
1686 Commerce Bank Building, Kansas City, Missouri

Please send me free and postpaid, your 64-page illustrated book, "Lessons By Mail" telling how I can save half on my home sewing, and qualify for a good income; also Dollar Due Bill to apply on tuition and your offer of a "Complete" Dress Form Free.

Name

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Elma Perry Foulk.

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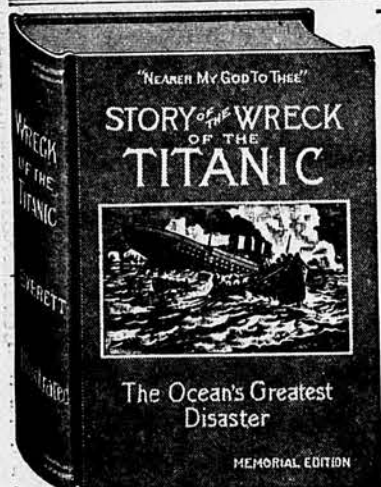



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MARKET PROBABILITIES

Cattle Market Continues Taking on Strength With Greatest Activity Centering in Feeder Trade—Hogs Moving in Same Direction, With Sheep Steady—Grain and Hay Falling Due to Rain and Snow

(Written Specially for the Farmers Mail and Breeze.)

The cattle market the first of the week showed further strength though receipts were fairly liberal. All demand avenues were open and the supply was none too large. The bulk of the fat steers sold at \$8, to \$8.50. Stock and feeding cattle were firm.

The trade in stock and feeding cattle has superseded in scope and importance, temporarily at least, the trade in fat cattle. The scarcity of both thin and fat cattle however brings both limbs of the market in close alignment, and on a very firm footing. Country buyers are in competition with killers for any class of cattle that may carry a killing per cent and at the same time show feeding possibilities. In the stock line young heifers, springer heifers, and cows are being saved from the killing beds by the activity of country buyers. Most of the thin steers, either for stock or feeding purposes are bringing \$7.25 to \$7.75, a top quoted up to \$8.25. For heifers suitable to turn back to the farm prevailing prices are \$6 to \$6.50, and for stock cows \$4.50 to \$6, with some sales of springer cows as high as \$7. The demand is general. In the past week shipments of stock cows or heifers were made as far to the northwest as Wyoming, to New Mexico in the Southwest, Louisiana to the South and Ohio to the East. Cattlemen and farmers both seem to realize at last that the shortage in cattle, which has been the burden of livestock reports for some time past is not a dream but a reality. Now many want to get back in the cattle breeding business, and there is not enough young stock to go around. Prices for all classes of stock and feeding cattle last week were quoted up 15 to 25 cents. It is the general opinion that the advancing season holds no soft spot for the buyer.

Short Butcher Cattle Supplies.

Scarcity now, scarcity to follow is the position of the butcher cattle trade. Cheap beef has been supplicating packers for the past ten years by reducing the foundations of herds, in cows and heifers marketed, and by an easily fattened animal, the spayed heifer. No more spayed heifers, an excellent beef carcass, no winter heifers off of wheat fields for killers, and they are shut down to active competition with countrymen for the meager supplies offered. Good fat cows are selling at \$6 to \$6.75, other kinds, some mere shells quoted as low as \$3.85. Fat are bringing \$6.50 to \$8, some scrubby stock as low as \$5. Veal calves last week retained their \$10 cognomen, with general demand active. Bulls are bringing \$4 to \$7.

Stronger Prices for Beeves.

General firmness characterized trade in fat steers last week. In some cases 10 to 15 cent advances were quoted. February heretofore has not been a month of advancing prices and the advances the first two weeks together with additional gains last week make a record for February strength. As the season advances reports of decreasing supplies on feed increase. Many counties in Missouri, Kansas and Oklahoma have not a carload of steers on feed, if reports are true, and other counties 30 to 50 per cent less than normal. The Chicago supply is being maintained for cattle obtained at markets as heavy feeders in late December, and January. Beef supplies for March, April and May will have to come from feed lots, of the central west, except the hay feds from Colorado and the northwest. That supply is an uncertain quantity, as Pacific coast buyers are pulling them westward. The market for good fat steers last week was \$8 to \$8.50, choice steers up to \$9, and plain to fair kinds \$7.25 to \$7.95. About \$7.50 to \$8.50 took four-fifths of the dressed beef steers last week. The lighter weight classes are being favored as warmer weather is expected, and smaller cuts of beef rule the trade.

Advancing Hog Prices.

Hog prices reached the highest levels of the year on Monday and were generally 10 to 15 cents above last week's close. The top price in Chicago was \$8.62 1/2, in St. Louis \$8.75, in Kansas City \$8.40, in St. Joseph \$8.35 and in Omaha \$8.25. Tuesday last week hog prices made new high levels for the year, but Wednesday the market weakened, fell back 10 to 15 cents Thursday, regained the loss Friday, and Saturday, the market was firm at the high point of the week. The general position of the market is strong. Diminishing supplies, together with the fact that packers are dispersing more product than they are getting and a strong demand from shippers for all light weight hogs, leaves little probability of lower prices. Not enough light weight hogs are coming to supply demand for fresh pork, and light cuts of bacon. Consequently there is keen competition between packers and shipper. The heavy hogs are going into packer's hands but even at that their stock of meat is diminishing. Countrymen have done a good job of feeding this year and with few exceptions the quality is better than for several years past. The recent rise in prices has

encouraged farmers to hold for higher prices, and with prospects for a good market ahead, receipts will continue below normal for this season of the year.

Which View Is Correct.

Provision specialists are predicting a panic in the hog market the result of a heavy run of hogs in the near future. They assert that farmers have been feeding hogs under ideal conditions all winter, and that a big run of heavy hogs is inevitable in the near future. The winter's shortage in numbers will be offset by increased weight of hogs.

On the other hand Michael Cudahy, the Milwaukee packer says: "The winter packing season is drawing to a close and will show a large decrease in number of hogs packed. Part of the shortage will be offset by increased weight of hogs, but packers in the past two months have been decreasing their stock at a time when they should be increased, under a broad demand for pork products. The season is near when fresh pork requirements will be large, and farmers have marketed their hogs more closely than the general trade believes. I predict that higher prices for both hogs and provisions will follow."

Steadiness in Sheep Market.

Twice last week packers tried to break the sheep market but on both occasions they had to back up and pay stronger prices. This amounted to about 10 to 15 cent price fluctuations, with a strong close to the market at the week end. Killers are more eager to get prime lambs. This is due to the approaching Easter trade, when there is urgent demand for fancy light weight mutton. The fact that Easter comes so early this year precludes any possibility of anything like a normal supply of spring lambs. Buffalo, New York, was the weak spot in the market last week, owing to fairly large receipts, and lambs there sold relatively lower than at western markets. This condition however is thought to be only temporary as the East will have to attract Western supplies or do without. At Western markets prices for good fat lambs are on an \$8 to \$8.85 basis, yearlings \$7 to \$7.75, and sheep \$5 to \$6. The long time yet before grass fat sheep begin to move, traders say, insures a firm market for some time to come.

The Movement of Livestock.

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

	Cattle	Hogs	Sheep
Kansas City	33,075	49,350	40,375
Chicago	50,300	163,100	89,000
Omaha	20,900	61,300	64,300
St. Louis	14,800	45,500	12,100
St. Joseph	10,800	33,600	24,000
Total	129,875	352,850	219,775
Preceding week	119,900	376,000	198,800
Year ago	123,425	489,800	219,260

The following table shows receipts on cattle, hogs and sheep at the five western markets, Monday, February 24, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City	11,000	5,000	11,000
Chicago	22,000	42,000	20,000
Omaha	5,000	4,500	15,500
St. Louis	3,500	9,000	1,200
St. Joseph	2,200	3,200	14,500
Totals	43,700	63,700	62,200
A week ago	47,700	80,500	64,000
A year ago	32,675	78,000	35,500

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

	Cattle	Hogs	Sheep
Per 100 lbs. 1913 1912			
Chicago \$9.00 \$8.50	\$8.62 1/2 \$8.27 1/2	\$6.27 1/2 \$6.00	\$5.75 \$5.75
K. City 8.75 8.00	8.40 6.25	7.60 6.55	

Halt in Horse Trade.

Weather conditions last week halted trading in horses and mules. The let up in demand is only of a temporary character, and acting on that theory dealers maintained steady prices. Demand however in spite of the let up is fairly good for this season of the year. Farm mares and farm horses still predominate in the inquiry, and owing to lack of quality the drafter trade was dull. Southern buyers are still taking good fat mules from interior feed lots.

Seeds.

Kafir corn, No. 2 white, 82c a cwt.; No. 3 white 81c a cwt.; alfalfa, 90c a cwt.; flaxseed, \$1.16 a bushel; timothy \$1.50 a bushel; cane seed, \$1.10 a bushel; millet seed, 95c a bushel.

Grain Lower—Hay Weak.

Rains and snows in practically all of the central west and over the entire fall sown wheat area last week served to

weaken the market for cash wheat. Saturday was a holiday, and Friday's quotations were down 1 to 2 cents on wheat, and practically lower on corn and oats. This moisture insures wheat an excellent start in the spring. Hay prices show little quotable change, but the general market is weak owing to lack of demand. The following prices prevail for grain in Kansas City and St. Louis.

	Kansas City	St. Louis
Wheat—		
Hard No. 2...	86 1/2 @ .89	89 1/4 @ .91 1/2
Soft No. 2...	98 @ 1.03 1/2	1.08 @ 1.12 1/2
Corn—		
White No. 2...	47 @ .47 1/2	49 @ .49 1/2
Mixed corn...	46 1/2 @ .47	47 @ .47 1/2
Oats—		
No. 2 white...	33 1/2 @ .34 1/2	34 @ .34 1/2
No. 2 mixed...	33 @ .33 1/2	33 @ .33 1/2

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

	Wheat	Corn	Oats
	1912	1912	1912
Chicago...	1.08	1.11	50 1/2 63 1/2 34 1/2 52 1/2
Kan. City...	1.04 1/2	1.07	47 1/2 67 36 53 1/2

No Broom Corn Moving.

Weather conditions last week were unfavorable for marketing broomcorn, and in much of the Oklahoma districts rains were heavy enough to delay hauling for some time. Demand is small and indifferent. In the absence of any particular movement prices are quoted nominally steady. Choice green, selfworking corn is quoted at \$85 to \$100 a ton; fair to good \$45 to \$80; common to fair \$25 to \$40 a ton.

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Kansas City Hay Quotations.

Prairie, choice	10.00 @ 11.00
Prairie, No. 1	9.00 @ 9.50
Prairie, No. 2	7.00 @ 8.50
Prairie, No. 3	5.50 @ 6.50
Timothy, choice	13.00 @ 13.50
Timothy, No. 1	11.50 @ 12.50
Timothy, No. 2	8.50 @ 11.00
Timothy, No. 3	5.50 @ 8.00
Clover mixed, choice	12.50 @ 13.00
Clover mixed, No. 1	11.00 @ 12.00
Clover mixed, No. 2	9.00 @ 10.50
Clover, choice	12.00 @ 12.50
Clover, No. 1	10.50 @ 11.50
Clover, No. 2	9.00 @ 10.00
Alfalfa, fancy	16.00 @ 17.00
Alfalfa, choice	14.50 @ 15.50
Alfalfa, No. 1	10.00 @ 13.50
Alfalfa, No. 2	7.00 @ 9.50
Alfalfa, No. 3	5.50 @ 6.50
Straw	4.50 @ 5.00
Packing hay	4.50 @ 5.00

Live Stock In Kansas City.

Urgent demand for stock and feeding cattle last week featured the market. It caused killers to show more concern in filling their orders. Prices for fat cattle were 20 to 25 cents higher, and stock and feeding cattle up 25 to 35 cents. The top price for fat steers was \$3.75, and for feeding steers \$3.35. Most of the fat steers sold at \$7.75 to \$8.50, and the stock and feeding steers \$7.25 to \$7.75. On the quarantine side steers sold up to \$7.90. Cows are quoted at \$3.85 to \$7.25, heifers \$4.75 to \$8, calves \$5 to \$10, and bulls \$4 to \$6.50. Hog prices Saturday were 15 to 17 1/2 cents higher than at the close of the preceding week. Average prices for the week were 10 cents higher. Light weight hogs are bringing a premium over heavies.

The following table shows the range in prices of hogs last week and in the preceding week:

	Last week	Preceding wk.
Monday	7.90 @ 8.15	7.60 @ 7.85
Tuesday	8.00 @ 8.30	7.90 @ 8.20
Wednesday	8.00 @ 8.22	8.00 @ 8.20
Thursday	7.90 @ 8.15	7.95 @ 8.20
Friday	8.00 @ 8.25	7.85 @ 8.10
Saturday	8.10 @ 8.25	7.90 @ 8.07 1/2

Sheep prices held within a narrow range and closed last week net unchanged, but generally firm. Fat lambs are quoted at \$8 to \$8.85, yearlings \$7 to \$7.75, ewes \$5 to \$5.75, and wethers \$5.50 to \$6.25.

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	243,822	238,572	5,250	.....
Calves	14,995	13,654	1,341	.....
Hogs	420,522	548,601	.....	128,079
Sheep	275,462	328,079	.....	52,617
H. & M.	18,411	17,212	1,199	.....
Cars	17,023	18,775	.....	1,752

Livestock In St. Louis.

Receipts of cattle last week were fairly liberal but a large per cent of the supply was from the South and quality averaged plain. Demand ruled active with prices up 15 to 25 cents. Native beef steers are quoted at \$6.75 to \$9, native cows and heifers \$4.50 to \$8, stockers and feeders \$5.75 to \$7.25. Texas and Indian steers, quarantine, \$5.25 to \$7.90, Texas and Indian cows and heifers \$3.75 to \$6.50, calves \$5 to \$10.25.

At mid-week hog prices broke 10 to 20 cents from the high level of the preceding but by Saturday the loss had been regained. Light hogs are quoted at \$6.80 to \$8.55; mixed and butchers \$8.35 to \$8.55, heavy \$8.45 to \$8.55; bulk \$8.40 to \$8.50.

Receipts of sheep last week were fairly liberal for this season of the year, but prices held steady. Lambs are quoted at \$7.50 to \$8.85, yearlings \$6.50 to \$7.50, and other sheep \$4.50 to \$6.25.

The following table shows receipts of cattle, hogs and sheep in St. Louis thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	143,947	108,996	34,951	.....
Hogs	431,545	494,125	.....	62,580
Sheep	110,889	134,301	.....	23,412
H. & M.	34,448	37,106	.....	2,658
Cars	11,803	11,360	443	.....

Livestock In St. Joseph.

With cattle receipts last week about normal, prices were quoted strong to 10 to 25 cents higher. Beef steers are quoted at \$6.75 to \$8.75, cows and heifers \$3.75 to \$7.50, calves \$5.50 to \$9.50.

Hog prices Saturday were the highest of the week showing a net advance of 10 to 15 cents. The top price Saturday was \$8.25 and bulk of sales \$3.15 to \$3.20.

Last week sheep receipts were the largest of the season, numbering 24,000. Saturday 5,000 were received, some of which were driven in by the storm. Lambs are quoted at \$7.75 to \$8.75, yearlings \$6.50 to \$7.50, and sheep \$4.75 to \$6.

The following table shows receipts of livestock in St. Joseph thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	68,853	78,951	.....	10,098
Hogs	294,745	380,299	.....	85,554
Sheep	104,517	107,634	.....	3,117
H. & M.	5,991	9,318	.....	3,327
Cars	7,341	8,730	.....	1,389

Butter, Eggs and Poultry.

Elgin Feb. 24.—Butter this week is firm at 36 cents.

Kansas City, Feb. 24.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 17 1/2 @ 18c a doz.; current receipts, 17 @ 17 1/2 c; seconds, 13 @ 14c.

Butter—Creamery, extras, 33 1/2 @ 35c a lb.; firsts, 31 @ 33c; seconds, 30 @ 31c; packing stock, 19 @ 19 1/2 c.

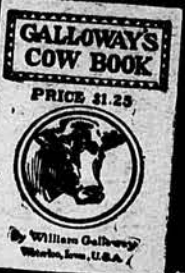
Live Poultry—Broilers, 16 @ 18c a lb.; spring chickens, 12 @ 13c; hens, 12 1/2 c; young roosters, 9 1/2 @ 10c; old roosters, 8 @ 8 1/2 c; young turkeys and turkey hens, 16 1/2 @ 17c; old toms, 13 @ 14c; cull turkeys, 7 @ 8c.

Produce Prices Now and One Year Ago.

	Butter	Eggs	Hens
	1913	1912	1913
Chicago...	35	28	19 29 1/2 13 14
Kan. City...	35	26	18 28 12 1/2 11 1/2

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Address

FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department at the low price of 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. No order taken for less than \$1. This does not mean that a single insertion of your ad must cost \$1, but that your total order must reach \$1. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

HORSES, CATTLE, HOGS, SHEEP.

WANTED—Twenty cows on shares. Address Box sixty four, W. E. Snyder, Arapahoe, Colo.

SHEPHERD MARES in foal for sale; kind and gentle. Blacks and spotted. Lee Brothers, Harveyville, Kan.

GOOD young jacks ready for service, \$300 to \$500. One Imp. 6-year-old Belgian. Write Bruce Saunders, Holton, Kan.

DUROC HOGS, Bronze turkeys, Barred P. Rock and Brown Leghorn chickens for sale. J. M. Young, Fall River, Kan.

FOR SALE—One Black imported Percheron stallion, 5 years old. Weight one ton. Sure breeder. J. E. Dreier, Hesston, Kan.

CHOLERA IMMUNE fall Duron boars. Best blood lines with quality. Write for particulars. G. M. Shepherd, Lyons, Kan.

FOR SALE—Eight Jersey bull calves; some from high producing dams; some ready for use. Chester Thomas, Waterville, Kans.

ENTIRE DAIRY HERD—50 head of the best cows—Jerseys, Holsteins and Short-horns. Fresh and springing. Just bought from a retiring dairyman. Jack Hammel, 215 Adams, Topeka, Kan.

FOR SALE—Registered Percheron stallion, dark steel grey, coming three, weight between nineteen and twenty hundred. Sure foal getter, extra fine individual. A. C. Williams, Valley Falls, Kans.

MULEFOOTED HOGS.

AMERICA'S champion herd mulefooted hogs. Dunlap, Box 442, Williamsport, Ohio.

POULTRY.

BRED TO LAY S. C. W. Leghorn eggs and baby chicks; will exchange for Kaffa. Okla. City, Route 8, Box 62.

SEEDS AND NURSERIES.

GOOD ALFALFA SEED \$9.00. Ph. 351. Grantville, A. L. Brooke.

COW PEAS. Write for samples and prices. W. R. Hutton, Cordell, Okla.

100 BU. re-cleaned alfalfa seed. Send for sample. J. F. Laman, Portis, Kans.

SPANISH PEANUTS for sale 5c per lb. F. O. B. Alene, Okla. John W. Burkes.

CHOICE FRUIT TREES, ornamentals, berry plants. Waverly Nurseries, Waverly, Kan.

ALFALFA SEED for sale. Samples and prices on application. Chas. Jensen, Jamestown, Kans.

ENGLISH blue grass seed. Nice re-cleaned seed \$2.00 per bu. W. W. Dunham, Silver Lake, Kan.

50 BUSHELS of re-cleaned alfalfa seed \$8.00 per bu., sacks free. John Ryman, Dunlap, Kans.

SEED CORN—Iowa Gold Mine and White Cap; \$1.25 per bushel, sacks free. H. A. Hamilton, Yutan, Neb.

HOME GROWN alfalfa seed, finest quality, in any quantities. Write for sample and prices. D. Badger, Bureka, Kan.

McGEE TOMATO—1200 bushels per acre. Please send me your address for full particulars. M. C. McGee, San Marcos, Texas.

PEACH TREES—100,000; best varieties; finest trees. Wholesale prices for ten trees or car load. Boonville Nurseries, Boonville, Mo.

250 STRAWBERRY PLANTS \$1.00. Best varieties. Wholesale prices on fruit trees. Free list. John F. Dayton, Waukon, Iowa, Drawer G.

FIRST CLASS Senator Dunlap Strawberry plants \$2.50 per 1000. Quality guaranteed. Also Rhubarb Roots, Jerome Buteyn, St. Joe, Mo., Rt. No. 2.

PRIZE watermelon and muskmelon seed, true to name and sure to grow. 1/4 lb. 15c; 1/2 lb. 50c, postpaid. L. M. DeWeese, Richfield, Kan., wholesale grower.

FREE. "A Salesman That Costs You Nothing," with special prices on high grade nursery stock. Send us your want list. Brown Nurseries, Hutchinson, Kan.

FOR SALE—Prunes, good size and quality, 3 to 4c per lb., according size. Shipped in 100 lb. sacks. Freight will cost \$2.40 per 100 lbs. to every state. Alex Marolf, St. Helena, Cal.

YELLOW DENT seed corn, hand sorted, \$2.25 bu. up to five bu.; \$2.00 per bu. for 6 bu. or more. Choice timothy seed two dollars per bu.; sacks 25c. Beckett Bros., Carrollton, Mo.

FOR SALE—100 bushels Boone County White Seed corn. 200 bushels Hildreth's Yellow Dent Seed Corn. 50 bushels Black Hull White Raps corn for seed. All guaranteed 95 per cent to Germinate. All at \$1.00 per bushel shelled on board Cars, Humboldt, Kans. Cash with orders. Josiah Wood, Dealer in Hay, Grain and Seed corn a specialty.

SEEDS AND NURSERIES.

300 BEST VARIETIES strawberry plants. \$1.50 express paid fall bearing strawberries, dozen \$1.25, 100 \$8.00. 25 Black Raspberries never winter kill, \$1.00. W. H. Koell, Box 740, Hampton, Iowa.

JOHNSON CO. WHITE, selected at husking time; guaranteed pure and satisfactory. Germination test 99%. Won first at Mannattan. In ear sacked or crated \$2 per bushel. H. H. Neumann, Hanover, Kan.

ALFALFA SEED. Home grown, re-cleaned, non-irrigated alfalfa seed, \$5.00, \$6.00, \$7.00 and \$7.50 per bu. Our track, seamless bags 25c each. Samples and delivered prices on request. The L. C. Adams Mercantile Co., Cedar Vale, Kan.

SEED CORN—Early selected and well cured, fire dried since selected, seed in ear testing 98 per cent, sold on approval. Also clovers, timothy and field seeds. Samples and circulars on request. L. C. DeWail, Gibson City, Ill.

PURE BRED Seed corn. Boone Co. White, Commercial White, McAuley White, Hildreth Yellow Dent, Kansas Sunflower yellow. Write for circular and prices. J. M. McCray, Manhattan, Kans. Member Kansas Crop Improvement Association.

FOR SALE—White Burley Leaf Tobacco, best in world, raised in the blue grass fields of Ky. 25c per lb. or 3 1/2 lbs., postpaid \$1.00. Send 25c before March 1st and get sample one only to each customer. Any grade furnished from mild to strong. J. J. Coyle, Owingsville, Ky.

SEEDS WANTED.

SWEET CLOVER seed wanted. John Lewis, Madison, Kan.

LANDS.

65-ACRE FARM. Fine spring. Investigate. Wm. Meak, Licking, Mo.

FOR SALE OR TRADE—Locust grove at Kremen; 15 lots Tulsa, Okla. A. T. Jones, Sentinel, Okla.

IF YOU want a farm write me, I have some good ones easy terms, some good trades. Youngs, Howard, Kan.

IMPROVED ranches and farm lands, large cattle ranches a specialty. Prices right. Ask C. K. Gwinn, McAlester, Okla.

FOR SALE—Good improved farms. 25 to 50 per acre. Some for trade. Write A. Kruckenberg, Nashville, Kan.

240 ACRE grain and stock farm N. east Kan., good buildings, close to good town. Address Z, care Mail and Breeze.

FOR SALE—640 acres. Improved. Two miles of Andale, Kans. All or part. \$100 per acre. M. Lill, Mt. Hope, Kans.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

960 ACRES Artesian Valley, Meade County, some improvements. 125 acres in cultivation, for sale or rent. P. J. Lee, Meade, Kans.

WILL SELL equity quarter section Sherman county, Kansas, land \$1,400. Also 40 acres Florida land for sale. E. Elcher, Beaverton, Colo.

320 ACRES Hodgeman Co., seventy broke, \$6,000.00, 1/4 cash, balance long time low interest. School across the road. Box 38, Mount Hope, Kan.

FINE 1/4 SEC. Gray county land, black sandy loam; must sell it quick. You can clean the price in one crop. Address J. H. Williams, Wilson, Kan.

FARM SNAP 135 Acres adjoining fine town in northwest Missouri. Worth \$150, quick sale \$100. O. D. Riggs, 1204 Commerce Bldg., Kansas City, Mo.

TAKE SOME TRADE, 320 acres, town one mile. Fenced. 200 acres hay land. 120 cultivated. Price \$20,000. Describe offer. Route 3, Box 3, Thayer, Kansas.

FOR SALE—A hog and chicken ranch of a fine 4 A. alfalfa, suburban tract in Rice Co. Well improved. A bargain. Address Ranch, Care Mail and Breeze.

CHEAP patented state school lands, South Texas, \$1 an acre cash, balance ten years. For all particulars write F. A. Connable, trustee, 516 Commercial Bank Bldg., Houston, Texas.

THIRTY ACRES; fourth mile city; rich soil; 6 rooms, cellar; large barn; poultry houses; fine fruit; city schools; truck, poultry, dairying; possession soon; \$4,000. H. V. Hill, Mt. Vernon, Ill.

QUARTER SECTION Seward Co., Kan., fenced, cross fenced. House, barn, hen house, buggy shed, cave, well, windmill, orchard, grove, 60 a. wheat. All for \$3,500 if sold in 30 days. M. W. Smith, owner, Sawyer, Kan.

BARGAIN—140 acres, 110 nearly level cultivated, 6 miles out. P. O., school and church near. Fair buildings. Wire fences. Quick sale \$17.75. For Information Book and land list write J. L. McKamey, Imboden, Ark.

320 ACRES choicest land in Kansas. All richest river valley, above overflow. Fine buildings. Close to railroads and towns. Best southeastern Kansas country. Owner too old to farm. Big snap. Farmers Co-Operative Realty Co., Springfield, Mo.

LANDS.

DAIRY FARMS in central Wisconsin. All sizes and prices, we bring you to the owner so you can make your own bargain. Send for our free list. Homeseekers Information Bureau, Marshfield, Wis.

FOR EXCHANGE. A good improved stock farm of 280 acres, 7 miles from Concordia, Kans., to exchange for improved unimproved land in southeastern Kansas. W. C. Whipp & Co., Concordia, Kans.

TEX. FARM 220. \$45 A. all under cultivation 1 mile from Groom. Living water with reservoir, fish and ducks. Catholic, Baptist, Methodist churches and school. Inquire Theodore Conrad, Groom, Tex.

CANADA LAND. Write for our 32 page booklet containing 63 photographic views, and statistical and detailed information about our lands in east central Saskatchewan. It's free. The Walch Land Co., Winnipeg, Canada.

FOR SALE 480 Finney Co. Kans., smooth, fertile upland prairie fenced, underlaid with sheet water, clear title, \$12.50 per acre or will trade for small farm equal value, Central or Northern Kansas. Address Muron Tombaugh, Grand Ridge, Ill.

120 ACRE FARM improved good country. \$40.00 per acre. 160 acre farm three miles town, 1 mile school, fine location. 80 acre farm 3 miles town, can have possession if bought soon. \$50 per acre. 160 acre farm Black Bottom land, eight miles town. Fred L. Kent, Uniontown, Kans.

TEXAS SCHOOL LAND is now on market. You can buy good land at \$2 per acre; pay 5 cents per acre cash and no more for 40 years but 3 per cent interest on the balance. Send 6 cents postage for further information. Investor Pub. Co., Dept. 71, San Antonio, Texas.

RETIRING FARMER, attention. Have six room cottage with about 4 a. ground in Kincaid, Kan. Dandy chicken ranch. Price \$950. Bargain in wheat or alfalfa land. 160 a. Finney Co. in shallow water district at \$15 per a. Address John B. Sharon, 643 Greeley Ave., Kansas City, Kan.

ADVERTISE YOUR PROPERTY in Kansas Weekly Capital for quick and sure results. 200,000 circulation guaranteed—among best farmers in Kansas. Advertising rate only 40c per line of seven words. Address Kansas Weekly Capital, Adv. Dept., Topeka, Kan.

TEXAS Gulf Coast Country—Be your own judge. Our land grows lemons, oranges, figs, cotton, corn and onions; crops year around; no irrigation; fine climate; good water; railroad; price \$40; good terms. Write H. C. Blahm, 2930 Main St., Kansas City, or Muenster, Tex.

FOR SALE at a bargain, 20 acres of improved land, 1/4 mile from city limits, 6 room cottage, well and cistern, barn 40x40 with mow, hen houses with parks in connection. Fruit, apples to berries. Our town is electric lighted. Fine high school and church privileges. Write owner, H. E. Turner, Centralia, Kan.

GOVERNMENT FARMS FREE. Our 112-page book "Vacant Government Lands" describes every acre in every county in U. S. How secured free. Latest diagrams and tables. All about free government farms. Official 112-page book. Price, 25c postpaid. Webb Publishing Co., (Sta. K), St. Paul, Minn.

SAFE, SURE, large returns in Taylor county, Wis., rapidly developing dairy country. Land as productive as the corn belt. Much valuable timber. Big profits in cattle. We are owners, improved and unimproved. Price \$10.00 up. Ten years to pay. Send for list. We sell outfits (teams, wagon, harness) on credit. A genuine opportunity for Renters and Wage Earners. Get the facts from gov't. records. You can own in Taylor County. Write today. Loeb-Hammel Realty Co., (not inc.) Box D, Medford, Wis.

WISCONSIN FARM LANDS.

LANDOLOGY TELLS about farm lands. If for a home or as an investment you are thinking of buying good farm land we will send you our valuable monthly magazine LandoLOGY for three months free. To get facts about the land situation and to learn where the great opportunities are, simply write me a letter marking it "Personal" and say, "Mail me LandoLOGY and all particulars free." Address Lloyd M. Skinner, Gen. Mgr., Skidmore Land Co., 13 Hall Ave., Marinette, Wis.

FARM WANTED.

WANTED OF OWNER, a small farm 60 to 80 eastern Kansas or northern Okla. H. H. Cladwell, Ford, Kan.

WILL BUY good farm. Well situated. Owners only. Give description and price. Addr. Coens, Box 754, Chicago.

FARMS WANTED. We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

FOR SALE.

USED BEE SUPPLIES. Hackwith Quincy, Kan.

FOR SALE—Auto livery and garage. C. B. Thomas, Buffalo, Kan.

MUST SELL—A job lot of bee supplies. Edgar Likes, Pomona, Kan.

FOR SALE.

CARDS—25 with name in black or gold 20c. Holladay Novelty Co., Villa Grove, Ill.

THREE GREAT PIANOS—Steinway, Steck, Vose. Write for prices. Jenkins Music Co., Kansas City, Mo.

MODERN LIGHTING SYSTEM. Write for prices. World Beater Generator Co., 2206 Forest, Kansas City, Mo.

ELEVATOR AND FRED MILL for sale. Only elevator located in city of 9,000. Inquire G. E. Pees, Iola, Kansas.

FOR SALE—Motorcycle. Excellent condition with new lamp, gas tank, cyclometer, luggage carrier. \$105. H. L. Jennison, Dighton, Kan.

HEAVEN AND HELL. Swedenborg's great work on the life after death. 400 pages only 15 cents postpaid. B. C. Unruh, Pawnee Rock, Kansas.

SUPERIOR POTATO PLANTER; only planted about 20 acres; will sell for half price. Reason for selling, not in potato country. H. Rumold, Dillon, Kan.

FOR SALE—145 H. F. International twin cylinder engine good as new. John Deere 14 in. 8 bottom gang plow, 2 sets bottoms and shares. J. W. Harrod, Stockholm, Kan.

FOR SALE OR TRADE—I have a four passenger Maxwell, four cylinder, good condition car for sale, or will trade on Percheron horse or jack. K. Care Mail and Breeze.

YORK TRACTORS use low grade fuel, are slow speed engines, have no transmission bevel gears or chains. Are built in ten sizes. Sample engine at Newton. S. E. Vaughan, agent, Newton, Kan.

FOR SALE OR TRADE—Nine H. P. Ideal gas engine, No. 2 Kelly grinder, cross cut circle saw, all good as new and four hole sheller. Will trade for threshing outfit, auto or good jack. Harry Dyck, Moundridge, Kan., R. No. 4.

EXCHANGE—One Case 24x42 Separator, used 2 seasons, and 12 horsepower Alamo, portable gasoline engine, all in good shape, to trade for larger separator and gasoline traction engine, will pay difference if price is right. W. H. Pittman & Co., Ravia, Ok.

\$130.00 BUYS a brand new piano fully warranted, stool and scarf included, freight prepaid, thirty days free trial in your home. Terms, Five Dollars per month. We are western distributors for Knabe, Ivers & Pond, Fischer and twenty others. Write Olney Music Company, Kansas City, Mo.

NO. 1 STAR TRACTION drilling machine, good working condition, fully equipped with all necessary tools, just the thing to make money drilling farm wells these dry years. No experience needed. I earned \$3,000 in about five months last year, account other business will sell very reasonable. S. W. Sunday, 323 East 10th St., Topeka, Kans.

DOGS.

SCOTCH COLLIES. Western Home Kennels, St. John, Kans.

WOLF and coon hounds for sale. Jesse Ashburn, Garnett, Kan.

REGISTERED English bloodhounds; young stock, guaranteed to make man-trailers. Best blood in world. Max J. Kennedy, Fredonia, Kan.

SCOTCH COLLIE puppies, finely marked, sable, white collars. Males \$7, females \$5. Fine brood bitch \$15. Wm. Graham, Eldorado, Kan.

PATENTS.

PATENTS SECURED. Send model or sketch for free search. Harry Patton, 360 McGill Bldg., Washington, D. C.

SEND FOR FREE BOOKLET, All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C.

PATENTS THAT PAY. \$561,536 made by clients. Patent book—"What and How to Invent—Proof of Fortunes in Patents" free. 112-page guide. E. E. Vrooman, Pat. Att'y., 885 F St., Wash., D. C.

TYPEWRITERS.

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

MALE HELP WANTED.

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

SALESMEN wanted in Kansas, Oklahoma, Missouri and Arkansas. Work full or part time, as you prefer. Pay weekly. Outfit free. The Lawrence Nurseries, Lawrence, Kan.

YOUR opportunity to learn salesmanship quickly. We want ten more good men to act as special representatives in the best territory in Oklahoma and Kansas. Will pay extraordinarily liberal commissions to start. Send one bank reference with application. Address, Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.



Our Farmers' Cattle Knife

Free

This Farmers' Cattle Knife

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

MAIL AND BREEZE
Topeka, Kansas

BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

NICE impr. 160, \$35 per a. Also nice improved creek farm near town at reduced price. J. H. King, Cawker City, Kan.

SOME good bargains in well improved Jackson Co., Kansas, farms. Price \$75.00 and up. Wm. Harrison, Whiting, Kan.

BARGAIN: 57 a. extra improved, 3 mi. out, \$3,500. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

AGENTS WANTED, to sell Neosho Valley corn and alfalfa lands. \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

SUMNER COUNTY—Farms—alfalfa, corn, wheat, oats, all other crops grown here. Dairy and stock raising. Sure crops. Write Lock Box 285, Wellington, Kan.

20 DAYS ONLY. 320 a. stock farm, Washington Co. One mile to shipping point. \$60 per a. Terms. 50 a. wheat free. PRALLE BROS. REALTY CO., Bremen, Kan.

160 ACRES Scott county, Kansas. Price \$1,050. We have all kinds of good cheap property for sale. Free list. DONWELL, 3612 Wyandotte, Kansas City, Mo.

WRITE for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holtzman, Concordia, Kan. (Pioneer Kan. farmers.)

FARM HOME for sale. Well improved, in good location; all kinds of fruit. Plenty of shade and ornamental trees. For particulars address R. R. No. 2, Box 55, Mulvane, Kan.

CENTRAL Southern Kan. alfalfa lands. 320 a. valley land, 200 suitable for alfalfa, \$8,000. 160 a. in valley, 120 in cult., \$4,800. For free list write P. H. THORNTON, Coldwater, Kan.

EXTRA good farm, 160 acres, less than one mile to county seat of Johnson Co., Kan. Water, fruit, shade. Well improved. Address McKee, Peck Bldg., Olathe, Kan.

Stevens County

Write for prices on R. R. lands. Easy terms. Santa Fe Land Co., Hugoton, Kan.

Immediate Possession

6 farms, every one a bargain. Write, state size you want. SCHMEIL & SHARP, Osborne, Kan.

LOOK! 160 in garden spot of Harper Co. 1 1/2 mi. town, church and school; soft water; orchard, pasture, alfalfa. R. mail, phone. 90 a. wheat, looking fine. J. M. BROWN, Owner, Harper, Kan.

Along the New Railroad

5 quarters in Haskell, Grant and Stevens counties, near new railroad towns on D. C. & C. V., for \$7 per acre, on easy terms. Can sell single quarters.

HAVE GOOD PROPOSITION FOR AGENTS. DON VAN WORMER, Richfield, Kan.

\$1.75 Per Month

for 10 months buys a guaranteed level, well located lot in Plains, Kansas. No "ifs" nor "ands," no favors shown, but a gilt edge proposition for those who act promptly. Only a few to be sold at this price. Send \$1.75 as first payment or write for complete list. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

Sedgwick County Farm Bargains

200 a. farm, all good land, fair improvements, good location, only \$45.00 per acre. Just the price of grass land. 145 a. farm, good 7 room house, 2 barns, mostly alfalfa land, fine location, \$62.50 per a. Terms to suit. 240 a. farm, all alfalfa land, good improvements, only 10 miles to Wichita, the biggest snap in Kansas at \$60 per a. \$4,600 handles this. Come quick for this. Call on or write H. E. OSBURN, 227 E. Douglas Ave., Wichita, Kansas.

400 ACRES FOR SALE

Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

FARMS FOR SALE

One 50 acre farm, 3 miles from town; price \$1800. \$700 cash will handle this farm. One 20 acre farm 2 1/2 miles from town; price \$1200. 5 years to pay at 7 per cent interest. One 155 acre farm 5 miles from town. Price \$52.50 per acre. 120 acre farm 4 miles from town; price \$40 per acre. One fine 160 acre farm 3 mi. from town, price \$85 per acre. 117 acre farm 2 miles from railroad, price \$45.00 per acre. J. C. LAMING, Tonganoxie, Kans.

30 Minutes

From Wichita Union Stock Yards, just the place for a farmer and stockman. 120 acres in cultivation, 120 acres in grass, conveniently fenced into fields and lots. Some hog tight. A good 5 room house, barn, sheds, etc. Shallow water, all smooth and tillable; will grow good alfalfa; a deep rich loam soil. Just think of it! 240 acres all told for \$65 per acre and easy terms. This must be sold. THE LEACH REALTY CO., Wichita, Kan.

320 A. smooth mixed land, 100 in cult., not far from the new Santa Fe R. R., \$10 per a. Other bargains. Moore & Falls, Liberal, Kan.

WANT to purchase section Western Kansas land at \$5.00 per acre, on terms. J. R. Collins, 1029 Omaha Nat'l Bank Bldg., Omaha, Nebraska.

\$1,000 CASH, balance easy terms. 160 a. in N. E. Kingman Co., fair imp's; a good farm; corn and wheat land. Price \$7,500.00. Box 82, Belpre, Kansas.

SEVERAL large ranches and tracts of wheat land to trade for income and land east; land on crop payments, some bargains for cash. BUXTON LAND CO., Utica, Ness Co., Kan.

FOR SALE: A section of fine, smooth land, black rich soil, 5 miles Jetmore, Co. seat Hodgeman Co. About 75 a. in cultivation. All can be cultivated. Only \$20 per a., one-fifth cash and long time and easy terms on the balance. For particulars write the owner, O. W. Dawson, Great Bend, Kan.

CASH BARGAIN. 240 a. well improved, bottom land close to town. No waste. Part time. Price \$84. E. changes. Write JESSE SIMPSON, Scandia, Kan.

280 A. 2 1/2 mi. from Garfield, Kan. In great Arkansas river valley. About 1/2 bottom land, remainder upland; about 200 a. broke, bal. pasture. Good new 7 room house; other outbuildings in good repair. This is an ideal location for a stock or dairy farm being close to main line of A. T. & S. F. R. R. Priced for quick sale at \$30 an a. Address owner, C. R. MURRAY, Garfield, Kan.

EASTERN KANSAS 1,000 acres, \$25 per acre. KANSAS 1,730 acres, \$19 per acre. RANCHES 1,871 acres, \$26 per acre. T. B. GODSEY, Emporia, Kan.

IF YOU WANT TO BUY LAND in western Kan. for \$6 to \$10 an a., write Geo. M. Lynch, Co. Treas., Tribune, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good homes and investments. Corn, tame grass and ranch lands, \$30 to \$60 per a. List free. LANE & KENT, Burlington, Kan.

FOR SALE OR TRADE. 100 farms, Western, Central, Eastern Kansas in tested counties. Crop failures unknown. List free. THOS. DARCEY, Offerle, Kansas.

50 FARM BARGAINS. Montgomery Co., Kansas; all sized tracts. Easy terms. \$30 to \$60 per acre. FOSTER BROTHERS, Independence, Kansas.

WHEAT, ALFALFA AND GRAZING LANDS \$1,600 to \$4,000 a quarter. New railroad now building. Write for full information. H. J. HANSON, Hugoton, Kan.

COMANCHE COUNTY BARGAIN. 480 a. improved, 9 miles from Coldwater. 17 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

MORTON COUNTY. For complete information and list of bargains in deeded land and relinquishments near new railroad town, write LUTHER & CO., Rolla, Kan.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/3 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

MONEY-MAKERS AND GOOD HOMES. Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mdse. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

ALFALFA AND WHEAT LANDS at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

CLOSE TO COUNTY HIGH SCHOOL. 25 acres, smooth, fenced and fine well, no buildings, two blocks from above school at Altamont, fine town. Easy terms. Land no better situated \$150 an acre. I am forced to sell at \$1,800. D. H. WALLINGFORD, Mound Valley, Kan.

OPPORTUNITIES FOR ALL. Satanta, Kans. R. R. company's choice of towns on Colmer cutoff of S. F. lines. Schools, church, several lines business. Good openings for various lines. Get in on the ground floor. Lands close in—reasonable. SATANTA COM'L CLUB, Satanta, Kan.

REAL ESTATE WANTED.

REAL ESTATE DEALERS and property owners are getting big returns in the way of quick cash sales through the use of small advertisements in our classified advertising columns. Homeseekers and investors all over Kansas watch Topeka Daily Capital want ads for attractive offers. The Daily Capital is the only daily in Kansas with a state-wide circulation—total guaranteed 34,000. More classified ads than any other Kansas daily. Most consistent result-producer. Over half million dollars worth of property sold through its columns the past year. If you want to sell or exchange property at smallest cost and in shortest time, try an advertisement in our "For Sale," "Business Chances" or "For Exchange" columns—results will more than please you. Special trial offer: Send a 30-word advertisement and \$1.50 and we will publish your ad for seven consecutive issues. For each additional word, seven times, add 5c. Send advertisement and remittance direct to Daily Capital, Want Department, Topeka, Kan.

OWNER MUST SACRIFICE—Fine, whole section, 100 a. in fall wheat. Ideal community, 4 mi. from good town. Price \$7,200. Better than railroad terms. Investigate. WINONA LAND CO., Winona, Kansas.

DO YOU WANT this 80 acre farm? It is well improved, 1/2 mile of town. Fine schools. A small payment will handle it. Ask about it—you will be surprised. F. D. GREENE, Longton, Kan.

80 A. SNAP. 2 1/2 miles from town and graded school, all in cultivation, nearly all alfalfa land. Improvements worth \$3,500. Price \$6,000. Write us for full description. V. E. NIQUETTE, Salina, Kansas.

A SNAP. 240 acres valley and alfalfa land, running stream, small house and barn, 2-3 in cultivation, close to town, 70 a. in wheat, price \$32.50 per a. Half cash, easy terms. TAYLOR & BRATCHER, Coldwater, Kan.

FARMS bought at right prices are a good investment. Send for our booklet containing choice bargains in the corn and alfalfa belt of southeast Kansas. Farms, prices and terms are right. Write for it today. MILLER & SON, Petrolia, Kan.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 160, 240, 320, 408, 620, all above farms are good prices from \$30 up to \$56 per a. WM. GODBY, Arkansas City, Kan.

158 ACRES 5 miles of Ottawa, all tillable smooth land, 35 acres bluegrass, 40 acres timothy and clover, orchard, 9 room house, barn 40x60; double corn crib; holds 3,000 bu. corn, other outbuildings; buildings in good condition. Owner must sell; will loan \$8,500 6%. Price \$85 per acre. MANSFIELD, Ottawa, Kansas.

LINN AND BOURBON CO. FARMS. Biggest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$30. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illus. folder free. EBY-CADY REALTY CO., Pleasanton and Ft. Scott, Kan.

THINK OF IT. We will sell you 160 or 320 acres of the best unimproved corn and wheat land in Wallace county, Kansas, for \$10 an acre. \$1 an acre down, balance in nine equal payments 8 per cent. THE WARD-SCOTT INVESTMENT CO., Sharon Springs, Kansas.

GREATEST JEFFERSON CO. BARGAIN. 160 a. 3 mi. to good R. R. town. Elegantly impr. \$55 per acre, 110 acres under plow, 10 a. fine wheat, bal. bluegrass pasture. A little timber. Several good 40 and 80 acre tracts from \$3,000 to \$5,000. Other great bargains. JOHN A. DECKER, Valley Falls, Kan.

ARKANSAS

FOR SALE: Well imp. 240 a. near city, \$12.50 a. J. A. Webb, Russellville, Ark.

BENTON county. We have extra bargains in fruit and grain farms. Some exchanges. Address Frazer R. E. Co., Gravette, Ark.

120 A. land, 30 a. in cultivation, 3 room house; good spring, 100 fruit trees, 9 mi. bearing. 2 mi. from Evening Shade. 9 mo. school every year. Very healthful, good neighborhood. For sale at \$700 or for good trade at same. J. W. THOMPSON, Evening Shade, Arkansas.

120 A. Impr. valley farm; 60 cult., bal. timbered; white community; public road; mail and phone route; orchard; good water. \$600 down, bal. easy. ROBERT SESSIONS, Winthrop, Ark.

274 A. dark and red loam. 200 a. in cultivation, 6 room residence, 4 renter houses, barns, outhouses, wells, springs, orchard and pastures, on gravelled road, railway and phone line. 1 mile from town. \$6,000.00, easy terms. H. M. McIVER, Texarkana, Ark.

A REMARKABLE BARGAIN. 623 ACRES; good 8 room residence; two tenant houses; 130 a. cultivation. 2 mi. railroad town. No wash land. Price \$10 per a. Other lands. R. C. THOMAS, Magnolia, Ark.

Arkansas Land \$5 to \$40 per acre. J. E. DOW & CO., Carter, Arkansas.

For Sale in Southwest Arkansas

80 improved farms at a price ranging from \$15.00 to \$40.00 per acre. Write for literature. SOUTHERN REALTY & TRUST COMPANY, Ashdown, Arkansas.

ARKANSAS

FARMS and fruit lands. All sizes and prices. T. A. Bayley, Ft. Smith, Ark.

LANDS CHEAP. Book and list free. Address J. T. Carlton, De Queen, Ark.

RED RIVER corn and alfalfa farms, \$20 to \$50 per acre; income \$50 to \$60 per acre. List free. L. A. JUSTUS, Foreman, Ark.

891 A. alfalfa and cotton land; some improved, tracts to suit. \$75 per a. New list free. Pope Co. R. E. Co., Russellville, Ark.

40 A. improved fruit farm near Gravette, \$2,000. 400 a. timber land N. E. Okla., \$5 per acre. J. T. OSWALT, Gravette, Ark.

80 ACRES improved, near Clarksville, Ark., county seat of Johnson Co. Price \$15.00 per acre. For further information write M. S. Park, Clarksville, Ark.

DO YOU want a farm in Arkansas? If so, write for my illustrated book, Imp. and unimp. prairie, timber and rice lands. Write me today. Olaf H. Kyster, Stuttgart, Ark.

DO YOU want a home? Do you want unimp. land for an investment? Let us show you some bargains. Some exchanges. Star Land Co., Ge. ntry, Benton Co., Ark.

ATTENTION. We have selected list of very best bargains in farm, fruit, alfalfa and timber lands in Ark. Get our list of bargains. A. W. Estes Co., Little Rock, Ark.

CALIFORNIA

CALIFORNIA alfalfa and fruit lands. Only \$50 to \$110 per acre including water right. Terms, one-fourth cash, bal. 8 payments commencing second year. Send for booklet 161. Agents wanted. The Cal-Tex Inv. Co., 908 Security Bldg., Los Angeles, Cal.

FLORIDA

FOR SALE BY OWNER: Four very desirable unimproved pieces of property in Alachua county, Fla.—90, 20, 30 and 30 acre tracts on large lake. Not to be classed with the ordinary Florida lands being offered for sale. Terms to suit customers. T. S. McMANUS, Waldo, Fla.

COLORADO

BEAUTIFUL Irr. farms, fruit, sugar beets, grain, alfalfa. Ordway Land Co., Ordway, Colo.

960 A. stock ranch, \$16,000. Well improved. Fine hay, irrigated, good range. All tools, stock, all equipments. L. A. COBB INV. CO., 242 Century Bldg., Denver, Colo.

2 FINE 160 a. relinquishments that join Under Chivington Irr. system. Good grass, level ground. 4 1/2 mi. Bristol, Colo. \$250 each. Burr T. Beachel Co., Granda, Colo.

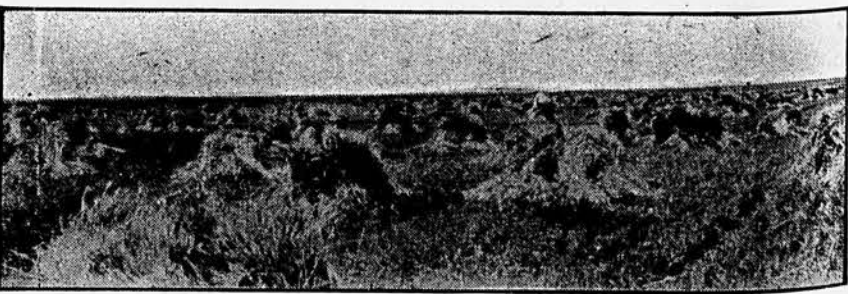
SAN LUIS VALLEY, Colorado, 160 a. 3 mi. good R. R. town; lays fine; plenty of water; partly cleared and ready for plow; 4 room house; small stable; only \$40 a. Worth \$60; small cash payment; bal. long time 6%. Write owner. E. G. BYLANDER, Sedalia, Mo.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, alms-receiving Kansas" become the wealthiest state per capita? Only a few hours' west of Salina, no finer soil on earth; 50 schools, 4 banks, churches, best of Colorado. Now. Pamphlet. R. T. CLINE, Towner, Colo.

182 ACRES 3 1/2 miles from Ft. Collins, 1/2 mile to good school. Last year 50 acres beets sold for \$5,600; 50 acres alfalfa sold for \$5,500. Best water rights guaranteed. First class improvements all around. Can be leased to present tenant for \$1,500 net per yr. for 5 years. \$11,000 cash and time on remaining \$10,000. Let me send you particulars of this and other bargains in stock ranches, irrigated farms and garden tracts. F. S. DOTY, 337 Ry. Ex., Denver, Colo.

COLORADO BARGAINS. Stock ranches, irrigated farms and garden tracts. H. E. KEELER, 1649 Champd, Denver, Colo.

THE INTERNATIONAL REALTY & INV. CO. 618-20 Gas and Electric Bldg., DENVER, COLORADO Write us for highly improved irrigated and dry farms, choice Fruit Tracts in Colorado, and City Property in Denver.



One of the large wheat fields in the S HOLLOW WATER DISTRICT, Logan county, Colorado. This field yielded 46 bu. per acre. This is the finest farm land in the West, and we are selling it at the very lowest prices. One crop pays for the land. Finest soil and water. Close to market. Agents wanted. Write for free circular. PLATTE RIVER VALLEY LAND COMPANY, 1119-22 City National Bank, Omaha, Nebraska.

MISSOURI.

OSARK bottom farms. List free. Write E. H. Wright, Marshfield, Mo.

485 A. Best stock farm in Mo., at price \$7,000. Write "Brown's," Golden, Mo.

WHITE Morris & Walker for list of south Missouri farms. Mountain View, Mo.

160 A. farm, \$1,800, imp. Write for picture. Box 594, Mountain View, Mo.

STOP! Listen! 80 a. creek farm \$850; terms. Other farms. McGrath, Mountain View, Mo.

FOR SALE. Some of the best farms in Central Missouri. For list and particulars write W. B. Marshall, Ionia, Mo.

WELL imp. 160 acre farm, 4 1/2 miles out; \$4,500, on easy terms. Write for particulars. DeMotte Realty Co., Mountain Grove, Mo.

FREE. "The Ozark Region." Contains new list, cheap lands, and valuable information. Durnell & McKinney, Cabool, Mo.

WRITE for list improved farms in heart of Corn Belt (Northwest part of State). H. J. Hughes, Trenton, Missouri. Seller of Missouri Black Dirt.

MISSOURI agriculture and grazing land \$15 to \$50 per acre. Finest climate, best water and grass. Some tracts to trade. R. W. Hedrick, Cole Camp, Mo.

LAND BARGAINS—\$5 down, \$5 monthly buys 40 acres, good timber land, south Missouri; price \$200. Perfect title. Write for list Mo. lands, Fred Jarrell, Mt. Vernon, Ill.

VALLEY FARMS. \$25 to \$50; unimproved lands, \$6 to \$20; orchard and berry farms, \$40 up; water and climate unexcelled. Literature and free list. ANDERSON REAL ESTATE CO., Anderson, Mo.

ONE OF THE BEST 200 acre farms in Howell Co., Mo. 160 a. cult. Good house, large barn, other buildings. Fine water, all fenced; plenty fruit. Near county seat. 34 mi. school, 3 mi. town. \$6,500. Terms. No trade. A. P. COTTELL LAND CO., Potosi, Howell Co., Mo.

BATES COUNTY FARMS ranging from 40 to 800 acres; \$40 to \$25; located 60 miles south of Kansas City, Mo. J. D. SAGE, Amsterdam, Mo.

A SNAP FOR THE CASH. 200 acres, 160 fenced, 120 cultivation. 3 1/2 miles to postoffice, 1 mi. to school, 10 to county seat. Good house and barn; ever-lasting spring; fruit; price \$4,000. Will give terms. KIRWAN & LAIRD, West Plains, Mo.

OSARK LANDS FOR SALE. 40 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 5 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

SPECIAL BARGAIN MUST SELL QUICK. 284 acre farm, highly improved and most conveniently located. In Pettis county, Mo. Must be sold by February 15th, 1913. Has 100 acres of good bottom land. An ideal stock farm. Price \$45 per a. Small payments and easy terms. No trade. J. H. FREDERICH, Cole Camp, Mo.

POLK COUNTY FARMS For Sale or Exchange. Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Belvoir, Mo.

Poor Man's Chance

40 acres, well improved, 6 miles Warrensburg, town 6,000, 3/4 mile school. All in cultivation, lots of water. Price \$50 per acre. O. J. TAPP, Warrensburg, Mo.

Public Land Acquired Without Residence

Write for particulars of organization forming for securing large block public agricultural land at government appraisement; \$500 represents 140 acres. KELLY & KELLY, Sharp Bldg., Kansas City, Mo.

530 ACRES

Taney Co., Mo. 9 miles from r. r., 3 miles Co. seat. 100 a. under fence. Log house, stable, drilled well, 75 a. in cult., 200 more tillable. Bal. good grazing land. Well watered by springs and White River. Cedar and oak timber. Price \$15 per a. Write L. A. ATKINS, OWNER, HOLLISTER, MISSOURI.

A Remarkable Bargain

320 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tie timber. 180 fenced, wire and rail; 9 room house, good well at house; barn 70x70; good well at barn; smoke house, other outbuildings; phone in house; handy to school and church; 6 mi. to North View on Frisco R. R. 5 mi. to Fairgrove; 8 mi. to Co. seat, Marshfield; price \$17,600. Incumbrance \$5,000, 5 per cent, due 6 years; will exchange for good Kansas farm. Will assume as much as \$9,000. What have you to offer? See or write PURDY & COMPANY, Springfield, Mo.

S. E. Mo. Corn Lands

We are in the heart of the drained lands of S. E. Mo. The soil is a fine black, sandy loam and adjoins town of Malden; population 3,000. Five thousand acres have been sold and is in cultivation. A Kansas farmer said he would not take \$1,000 for his bargain. The price on this land is \$30 per a. 1-6 cash, bal. one, two, three, four, five years at 6 per cent. Write for literature. MALDEN REAL ESTATE CO., Malden, Mo.

IOWA

CORN AND ALFALFA farm for exchange. 240 acres 1 1/2 miles from town; corn, wheat, alfalfa and clover; no waste. Large house, tenant house and improvements. Price \$135 per acre. Mortgage \$12,000. Owner will take improved Kansas farm for equity. Box 128, Hamburg, Iowa.

OKLAHOMA

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

600 FARMS and other prop. for sale or ex. Blackwell Real Estate Co., Blackwell, Okla.

KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.

IMPROVED 240 a. farm in E. Oklahoma for sale. Running water. Price \$45.00 per a. For full description write or see Troy L. Powell, Raymond Bldg., Muskogee, Okla.

800 ACRES black land, 2 1/2 miles from railroad. 450 acres in cultivation, 4 sets of improvements. \$30 per acre. E. HOLCOMB, Durant, Oklahoma.

640 A. 3 mi. Hodgess, Okla., on main line Ry. In fine grass and timber; part tillable, close to oil and gas well drilling. For quick sale \$5 per a. W. F. Colnon, Heavener, Okla.

BARGAINS on farms in New Eastern Oklahoma. Good wheat, alfalfa and small grain land. 47 inch rain belt. Fine grass and several large ranches, cheap. Write today. Union Security Co., McAlester, Okla.

200 A., 160 tillable. Used for meadow. Bal. fine pasture all under fence, close to city of 2,000, this county. Make 1 1/2 tons hay per a. Hay never worth less than \$8 per ton. Price \$25 per a. No exchange. Write us for bargains. SOUTHERN REALTY CO., McAlester, Okla.

ADDDO COUNTY WINS First on agricultural products at State Fair. Write for information, corn and alfalfa lands. Baldwin & Gibbs Co., Anadarko, Okla.

SEVERAL FINE FARMS FOR SALE in the best corn and cotton belt of Eastern Oklahoma; 80 to 600 acre tracts, \$25 to \$40 per acre. R. B. HUTCHINSON, Checotah, Okla.

INDIAN FARMS for sale in rain, corn and oil belt of N. E. Oklahoma at from \$15 to \$35 per acre. Easy terms. A perfect title is guaranteed. For description and prices write the owner, W. C. WOOD, Nowata, Oklahoma.

OKLAHOMA, ARK. AND LOUISIANA. 15,000 a. in Oklahoma, 10,000 a. in Arkansas, 4,000 in rich red river bottom in Louisiana, in 40 a. tracts, up. We are owners. Write for literature on state desired. Agents wanted. ADLEN & HART, 308 Commercial Bldg., Kansas City, Mo.

Eastern Oklahoma

Land \$3.00 to \$25.00 per a. Prices are steadily advancing—now is the time to buy. If you want a good, cheap home, or a money making investment, write to or call on W. T. HARDY, McAlester, Okla.

TEXAS

FREE. Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

160 A. Improved, \$35. 40 a. improved \$45. Easy terms. Close in, black soil. Artesian water. J. H. Cope, Palacios, Tex.

WRITE FOR FREE literature describing choice lands in the Eagle Lake district. Send your name today. Fidelity Immigration Co., Eagle Lake, Tex.

RANCH of 1,500 a. near Brownwood, Tex.; best farming or cattle raising ranch in state; close to 2 railroads; title clear; no inc.; will sell ranch or cut into farms. Terms. C. W. NICHOLS, 631 Rialto Bldg., K. C., Mo.

NEW RAILROAD building through the Panhandle opens up richest territory in Southwest. Great opportunities in small grain and stock farming. Invest while land is cheap. C. E. McLarty, Ochiltree, Texas.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

LISTEN! Tarrant county, Texas, has more railroads, more inducements for homeseekers in good lands, paved roads, good markets, health record, schools, churches, etc., all things considered, than any county in the Southwest. Ask for special list of farms, ranches and dairy propositions, close to this great city. KITCHEN-VAUGHN-SEAVAR CO., Fort Worth, Texas.

BUY COAST FARM LANDS. We make a specialty of locating the best for the money for the homeseeker and investor. For list and free information write C. H. Stanciliff Land Co., Houston, Tex.

HALF THE PRICE You pay in the North, or less, will purchase prairie land, 160 acres up. Will yield 40 bushels corn per acre, only \$40 per acre. Plenty rain, fine climate. Have some exchanges. See or write JNO. C. PENN LAND COMPANY, Houston, Tex.

PROFITS IN GULF COAST LAND. Wonderful production, large increase in value, an attractive home. Get our Free Booklets. "The Road to Prosperity" and "A Pointer on Where to Buy Land." Will send you free "The Gulf Coast Bulletin" for 6 mo. Write THE ALLISON RICHIEY LAND CO., 2nd Floor Carter Bldg., Houston, Tex.

All About General Farming in the Mid-Coast Country of Texas Write for our illustrated booklet. **Mid-Coast Colonization Company** A. A. Highbarger, Mgr., Bay City, Texas.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mds. F. Gass, Joplin, Mo.

EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.

BATES CO., Mo., farms for sale and exchange. J. N. Duke & Co., Adrian, Mo.

WRITE for my new exchange list of Dickinson Co. Farms. Melvin Smeltz, Enterprise, Ka.

IF YOU have mds., income property or land to trade, list it with Triplett Land Co., Garnett, Kansas.

WE BUY, sell, exchange anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.

BOOK 1,000 farms, etc., everywhere, for ex. Get our fair plan of making quick square trades. Graham Bros., Eldorado, Kan.

BARGAINS in southern Kansas farms. \$40.00 to \$75.00 per acre. Exchanges. Send for list. N. F. Paulin, Parsons, Kan.

960 A. Trego Co.; 200 creek alfalfa land, impr. \$24,000. Would consider good 160 acre farm for part. Stevens & Ruby, Stockton, Kan.

FOR SALE OR TRADE: Quarter section of land in Gray county, Kansas. Price \$25 per acre. Half cash or trade. Balance terms to suit. J. H. WOLF, Macksville, Kan.

WANT MERCHANDISE for 320 a. alfalfa, wheat and best farm. 240 under ditch, \$65.00 per a. Clear. Owner will put in some cash for No. 1 stock. Box 874, Garden City, Kan.

TOUCH a live wire. Our Red Letter Special will trade your property. List today. Guaranteed deal. Write for particulars. Midwest Realty Exchange, Riverton, Neb.

TO TRADE: 360 a. improved farm, 4 1/2 mi. to Wakeeney. Fine land. Price \$40 per a. Mortgage \$4,800. For good eastern Kansas land. W. A. Doerschlag, Ransom, Kan.

WOULD you trade your farm; city residence, rental property; mds.; hotel; steam plow; auto or other property for good land? Write Kysar Realty Co., Goodland, Kan.

WHAT have you to trade for Arkansas level cutover land? Close to railroad; no overflow; no negroes; no rocks. Shaeffer Land Co., 640 Reserve Bk. Bldg., Kansas City, Mo.

TO EXCHANGE for merchandise or hardware, 320 acres improved, 3 1/2 miles from good town in south central Kansas. Address L. H. Whitman, owner, 213 Biting Bldg., Wichita, Kan.

TO EXCHANGE for farm, nice clean stock general merchandise. Invoice about \$11,000; want to deal direct with owner. Will take livestock and implements on deal. Address Box 106, Medicine Lodge, Kansas.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. F. JOHNSON, Ordway, Colo.

FOR SALE—Choice wheat, corn, and alfalfa lands in Clark, Ford, and Meade Cos. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

FOR SALE AND EXCHANGE Ozark lands in tracts to suit, \$4.00 acre up. List free. Anna E. Hockensmith, Ava, Mo.

FOR SALE AND EXCHANGE. Washington Co. improved farms at \$50 to \$150 a. Write F. E. Beeson, Washington, Ks.

LOUISIANA

DON'T be a renter; we sell finest improved corn land in North Louisiana on 15 years' time. Write HUGO JACOBSON, Salina, Kansas, immigration agent.

Ruston, Louisiana

Is the best place for a tenant farmer that only has a little money to own a farm. Rich fertile soil—ample rainfall.

Healthy Climate

Two crops a year—Good markets. \$10.00 to \$25.00 an acre, easy terms. No floods, mosquitoes or swamps. Write for illustrated literature. **NORTH LOUISIANA REALTY & INV. CO. RUSTON, LOUISIANA.**

There is Lots of Louisiana Land That Will Produce Three Times Its Cost Every Year

Louisiana is in a class by itself. For rich land, big crops, low prices. It makes no difference if you are rich or poor, an owner or tenant, where you live, or what you are interested in, Louisiana offers you more opportunities, more show to get ahead, bigger returns for your work and investment, than any other section on the North American continent, barring none. We have soil here that is so rich it could be used to fertilize your northern farm. We can raise the biggest kind of crops of corn and alfalfa; fatten hogs and cattle for half the money it costs in North or Middle West, and this land can be bought from \$10.00 to \$25.00 per acre. We have issued a nice illustrated booklet with a number of fine photo engravings showing the splendid growing crops of this country. It tells FACTS in big letters about this section in a simple and a plain way. It is free to you just for the asking. Every farmer should read this book for the information undoubtedly will prove to be of great value to you; it probably will give you the opportunity of making an investment, the best you ever made in all your life. Farm for yourself; farm in Louisiana and particularly farm in Alexandria district. Sit right down now and write us a letter for full information about this most wonderful section of the country. **COOK-ALEXANDER LAND CO., Alexandria, Louisiana.**

CANADA

CANADA LAND For Sale: A few choice sections well located in Saskatchewan and Alberta. Very easy terms to actual settlers. Address Box 329, Minneapolis, Minn.

OWN YOUR HOME IN CANADA. Buy a farm in Sunny Southern Alberta, any size, easy terms. Climate ideal, soil unequalled, no crop failures, no personal tax. Write today. **LYNN W. BARRETT, Aldersyde, Alberta.**

ARIZONA

ARIZONA for good government land. Climate healthy, summers cool, winters mild, soil fertile. Grain, fruit and dairy. 200 mile auto ride through valleys. **ELGIN CO., Elgin, Ariz., or Fisher Hotel, El Paso, Tex.**

Best Crops For Bee Pasture

Two years ago I brought some bees here from Missouri. I had always heard that alfalfa made a fine bee pasture but although I had a fine patch of it last year I never saw a bee on the blooms. Was this the fault of the bees, the alfalfa, or are people mistaken about alfalfa producing a good honey flower?—J. T. Lookaba, Okla.

This was not the bees' fault. Alfalfa must be several years old before it will yield much honey for bees. It yields best in a dry climate under irrigation or when left growing for seed. In climates of considerable humidity it does not yield so well and some years not at all. Old fields in my neighborhood yielded nothing last fall. Then again, a small patch could not support several colonies. It is considered that 5 acres of bee pasture is none too much for one colony. Sweet clover is the best honey plant and will yield honey anywhere it can be made to grow. Last year my bees made their excess of honey from sumac and the year before from buck brush.

J. P. Brumfield.

Galena, Kan.

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kan.
J. W. Johnson, 820 Lincoln St., Topeka, Kan.
N. W. Kansas and S. Nebraska.
C. H. Walker, N. E. Kansas, N. Missouri, 3632 Flora Ave., Kansas City, Mo.
Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kan.
H. W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
E. R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kan.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Combination Horse Sale.

Mar. 6—Mitchell County Breeders' Association, Beloit, Kan.

Percheron Horses.

Mar. 5—J. C. Robinson, Towanda, Kan., and Willard R. Brown, Minneapolis, Kan., at K. C. Mo., Stock Yards.
March 12th—L. H. Luckhardt, Manager, Tarkio, Missouri.
Mar. 13—C. W. Lamer, Salina, Kan.

Percherons and Jacks.

March 6—S. J. Miller, Kirksville, Mo.

Brood Mares, Work Horses and Mules.

Mar. 12—C. W. Lamer, Salina, Kan. (100 head.)

Belgian Horses.

March 6—Bayless-Dero & Co., Blue Mound, Kans.

Jacks and Jennets.

March 6—Bayless-Dero & Co., Blue Mound, Kans.
Mch. 10—G. C. Roan, La Plata, Mo.

Poland China Hogs.

Mar. 8—I. E. Knox, South Haven, Kan.
Apr. 3—Roy Johnston, South Mound, Kan.

Duroc-Jersey Hogs.

Mar. 10—Sam'l. Drybread, Elk City, Kan.
Mar. 11—W. W. Otey & Sons, Winfield, Kan.
Mar. 15—W. C. Whitney, Agra, Kan.

Herefords.

March 4-5—Funkhouser, Gabbert & Others at Kansas City. R. T. Thornton, Mgr., 1317 East 15th St., Kansas City, Mo.

Shorthorns.

Mar. 14—C. G. Cochran & Sons, Plainville, Kan., at Lamer's sale barn, Salina, Kan.

Holstein Cattle.

March 15—Springdale Stock Farm, Concordia, Kans. Fairbury, Nebr., Phil Dawson and Col. C. W. Smith, Sale Managers.

Red Poled Cattle.

March 4—L. W. Beem, Smith Center, Kan.

Shire Values Abroad.

On February 15, J. G. Truman, manager of the Truman Pioneer Stud Farm, Bushnell, Ill., received from Mr. J. H. Truman, the following cablegram: "At Lord Rothschild's sale, held at Tring, yesterday, 32 Shire colts and fillies, running in ages from yearlings to three-year-olds this spring, sold for an average of 454 guineas, the colt that was Junior Champion at London last year 'Champions Goalkeeper' topping the sale at 4,100 guineas." This is the world's record sale.

An Enthusiastic Meeting.

A. C. Shallenberger, president of Central Shorthorn Breeders' association sent out a call on December 30th for a meeting of the Shorthorn breeders of Kansas and Missouri to be held February 11th and 12th in Exchange Building at Kansas City, Mo. This call resulted in the assembling of a goodly number of

breeders from both Kansas and Missouri, the attendance being about equally divided between the two states. The meetings on both days were well attended and many subjects of interest were discussed. All were enthusiastic for their favorite breed and no doubt much good will come from the meeting. Among other subjects discussed was the advisability of holding sales under auspices of the association. It was finally decided to hold a bull sale at Kansas City in March 1914. It is the intention to have nothing but high class bulls offered in this sale. A number of breeders agreed to contribute to this sale and to make their selection and begin preparation for the sale at once. Owing to the illness of Secretary B. O. Cowan, Mr. Ed Hall, of Carthage, Mo., was chosen secretary and anyone desiring information concerning this sale should correspond with him. The older members of this association stated that this was the most enthusiastic meeting and one of the best attended meetings that had been held by the association for a number of years.

Kansas and Oklahoma.

BY A. B. HUNTER.

I. E. Knox, South Haven, Kan., will sell Saturday, March 8, a choice draft of bred sows and gilts, also a number of purebred young Hereford bulls. Mr. Knox is an old time and reliable breeder and in the selection of his breeding stock never loses sight of quality, but has at all times endeavored to maintain size as well, so if you want bred sows and gilts with plenty of bone, size and quality send Mr. Knox your name for catalog and arrange early to attend this sale. You will be pleased with the offering and the catalog will be interesting reading. In writing please mention Farmers Mail and Breeze.

Choice Duroc Boars.

W. A. Wood & Son, Elmdale, Kan., are pricing for quick sale a choice lot of young Duroc boars, also a few fall gilts and a few good yearling sows and gilts, either bred or open. While they only have a few of these young boars, among them are a number of show prospects and prospective herd heads. Wood & Son have always made a practice of saving for breeding purposes only a very small per cent of their male crop of pigs and you will undoubtedly be pleased with any young boars they have to offer. They are fashionably bred and priced to sell quickly. For particulars write them today, mentioning Farmers Mail and Breeze.

Bishop Brothers' Percheron Stallions.

Bishop Brothers, Towanda, Kan., whose ad appears in this issue, are having an unusual trade on their good young Percheron stallions. The writer visited their barns last week, and saw the consummation of a deal whereby two stallions were sold to one man who bought of them last year and came back this year for more of the same kind. Bishop Brothers are careful in selecting colts of the right kind. They then grow and develop them in open lots until they are ready for service, thoroughly acclimated and sure breeders from the start. Among other recent sales was a high class 2-year-old, sold to W. L. Hudson, Reno county, Kan., and a splendid young stallion to Geo. L. Ralstin, Kiowa, Kan., both to head purebred Percheron herds. If you want a good young Percheron stallion write or call on Bishop Bros., Towanda, Kan. Do it today. Please mention Farmers Mail and Breeze.

Kansas City Percheron Sale.

In a letter dated February 17, Mr. J. C. Robinson, proprietor of Whitewater Falls Stock Farm, Towanda, Kan., says: "The busy time here this fine weather. Horsemen rolling in on every train. Sold pair of 2-year-old Casino fillies today for \$1,000 and sold same man pair of Glacia yearling fillies for \$800, and an imported stud coming 2, that weighed even 1,700, for \$900. Sold eight last week. Prospects look good for sales. Plenty of inquiries for the Kansas City sale. I look for a good sale up there." The sale referred to by Mr. Robinson will be held at stock yards, Kansas City, Mo., Wednesday, March 6. In this sale he and Mr. W. R. Brown of Minneapolis, Kan., are selling 50 head of Percherons, including imported and home bred animals. There will be 20 mares and colts from the Brown farm and 30 stallions and mares from the Robinson farm. This will be one of the best Percheron offerings made in Kansas or Missouri this year and the chances are there will be many bargains. If interested in good Percherons arrange to attend this sale.

Stith Has Good Sale.

Chas. Stith, Eureka, Kansas, sold at auction Thursday, February 20th, 40 Duroc sows and gilts. They averaged \$30. Most of them were spring gilts. A stormy day caused a light attendance. A number of breeders from a distance were present. The local crowd was small owing to the weather. It was a satisfactory sale. Every hog catalogued sold. The following is a representative list of the buyers: Delbert Hale, Hamilton, Kansas; C. C. Nye, Eureka, Kansas; Fred Petty, Toronto, Kansas; O. L. Kirkendall, Pond Creek, Okla.; Bert Ladd, Eureka, Kansas; J. U. Howe, Wichita, Kansas; J. F. Staddt, Ottawa, Kansas; W. S. Boone, Eureka, Kansas; John Edwards, Eureka, Kansas; R. D. Martin & Sons, Eureka,

Kansas; J. H. Walters, Eureka, Kansas; S. C. Skaggs, Eureka, Kansas; John Porter, Reece, Kansas; Sam Drybread, Elk City, Kansas; Theodore Peters, Pontiac, Kansas; H. H. Haines, Rosalia, Kansas; O. C. Culver, Lindon, Kansas; M. P. Hanson, Pontiac, Kansas; John Schott, Eureka, Kansas; H. A. Lovett, Eureka, Kansas.

Blackshere Has Good Sale.

J. R. Blackshere, Elmdale, Kansas, with Mr. Weaver, one of the proprietors of the Blackshere Farm herd of Durocs, held on February 22nd one of the most successful Duroc sales of the season. The offering consisted of 40 bred sows and gilts which sold for an average of \$45.75. Breeders from various parts of the state and a number of well known Missouri breeders were present and showed their appreciation of the high class offering by their liberal buying. It was an unusual snappy sale from start to finish. Col. Burger and Crouch and Wood did the selling. The following is a representative list of sales:

1—Jas. Dixon, Rock Island, Tex. \$37.50
2—Wm. Lytton, Peabody, Kans. 42.50
3—Amos Campbell, Elmdale, Kans. 32.50
4—Chas. Shaft, Florence, Kans. 36.00
5—Robt. Nordstat, Wellington, Kans. 42.50
6—Ira Beehmer, Portland, Kans. 65.00
7—Amos Dye, Clements, Kans. 60.00
8—James Porterfield, Jamesport, Mo. 50.00
9—F. C. Campbell, Elmdale, Kans. 38.00
10—Ed. Riley, Elmdale, Kans. 32.00
11—S. C. Jacob, Emporia, Kans. 34.00
12—Fred Riley, Elmdale, Kans. 80.00
13—W. T. Hutchinson, Cleveland, Mo. 67.50
14—E. M. Farnham, Hope, Kans. 47.50
15—Harry Plumber, Wellington, Kans. 48.00

Hershberger's Horses Average \$339.00.

J. P. Hershberger and P. S. Shrock sold at Harper, Kansas, February 19th, 11 head of pure bred Percherons, five stallions and 6 mares. The 11 head sold for \$3,730.00 or an average of \$339. The stallions were all young and therefore sold for only \$293 on an average while the mares and fillies sold for an average of \$377.50. The following is a list of sales:

MARES.
No. 1—Grimaciere, by Coco (57241), J. D. Naffziger, Crystal Springs, Kan. \$500.00
2—Gavotte, by Martin (46912), D. D. Naffziger, Harper, Kans. 435.00
3—Muriel, by Torpilleur 31221 (48443), Henry Olivier, Danville, Kan. 400.00
4—Isard, by Denonville—Ex-Sarthois (60531), W. E. Dettwiler, Harper, Kan. 300.00
5—Roselle, by Vermouth III, Dave Wohlshchalge, Harper, Kan. 300.00
6—Bulet 42322, by Black Duke, W. D. Givens, Watonga, Okla. 330.00

STALLIONS.
No. 1—Verross 78444, by Vermouth III, D. B. Rich, Crystal Springs, Kan. \$440.00
2—Cashiere 38892, by Juneau, I. L. Holdeman, Harper, Kansas. 275.00
3—Vermouth 72802, by Vermouth III, D. B. Naffziger, Harper, Kans. 350.00
4—Stallion by Banker 67942, Jno. Weineheimer, Harper, Kans. 150.00
5—Stallion by Prosperity, J. J. Troyer, Hutchinson, Kans. 250.00

Kansas and Nebraska.

BY J. W. JOHNSON.

F. C. Gookin, Russell, Kan., is booking orders for O. I. C. pigs, sired by five different boars and out of sows no two akin. These pigs will be priced to sell and if you are interested you better get in touch with him.

Red Polled Cattle Sale.

Tuesday, March 4, is the date of L. W. Beem's public sale of registered Red Polled cattle (21 head) and two registered Percheron stallions coming 2 and 4. Also a registered Percheron mare. This herd of Red Polled cattle is one of the young herds founded a few years ago and will be found one of the best in northern Kansas. His advertisement appears in this issue. His catalogs are ready to mail and will be sent promptly on request to L. W. Beem, Smith Center, Kan.

Murray's Chester White Sale.

One of the greatest sales of Chester Whites ever made in the West was held by Chas. H. Murray, Friend, Neb., on February 7. Buyers were present from all over Nebraska and many nearby states. The entire offering sold for an average of \$49 per head and, while there were many bargains, yet it must be conceded a very nice sale. Mr. Murray has put forth a mighty effort to bring his herd up to the very highest possible point of excellence and we are glad to know that his efforts were appreciated. This was a great offering all the way through.

Big Sales at Salina.

March 13 is the date of C. W. Lamer & Co.'s big Percheron sale at Salina, Kan. In this sale they will sell 50 Percheron stallions and mares. These stallions and mares are both imported and home grown and will prove one of the good offerings of the season. The sale will be held in Lamer's big sale barn in Salina. The day before they

will sell 100 head of work horses, mules and brood mares. On the day following C. G. Cochran & Sons, Plainville, Kan., will sell 70 head of Shorthorn cattle. This is a draft sale from their big western herd of over 500 head. If you can do so you better arrange to attend these big sales on the above dates. Ask C. W. Lamer, Salina, Kan., for his catalog of registered Percheron horses and for further information if interested in his big horse and mule sale the day before. If interested in the Shorthorn sale ask C. G. Cochran & Sons, Plainville, Kan., for their catalog which is now ready. Mention Farmers Mail and Breeze when writing either party.

Horse Sale at Beloit.

One of the big events of the season is the big sale of registered horses being made at the fair grounds, Beloit, Kan., by the horse members of the Mitchell County Breeders' association, Thursday, March 6. Forty-five head go in this sale, consisting of registered Percherons, French Drafts, Oldenburg German Coach and Standard bred horses. Among the horses in this sale will be found prize winners at the American Royal, International, Topeka State Fair and Hutchinson and other big county fairs. It is a clean offering of young stallions and mares that are consigned by the different breeders of Mitchell county. It is a combination sale and is being consigned to by breeders who have attracted attention to Mitchell county by the high class mares and stallions they have bought during the past four or five years and shipped in that county. Catalogs are ready and will be mailed promptly upon request. Address either Chris Hansen or M. A. Smith, Cawker City, Kan. Mention Farmers Mail and Breeze when you ask for a catalog.

Whitney's Bred Sow Sale.

W. C. Whitney, Agra, Kan., sells Duroc-Jersey bred sows at his farm joining Agra, Saturday, March 15. Forty head go in the sale, consisting of 16 tried sows that are coming 2 and 3 years old. They are choice sows else they would not be offered for sale for breeding purposes by "Chris" Whitney. They were sired by Agra Topnotcher, King of Kant Be Beat and I Am a Bonney K. Twelve will be fall yearlings and picked from a large number expressly for this sale. They are by Belle's Prince Wonder and Buddy's Red Col. They are bred to Buddy's Red Col. and The Ruler. The spring gilts are by Belle's Prince Wonder and bred same as the fall gilts. Buddy's Red Col. is by Buddy K. 4th and his dam was Raven's Star, by G. C.'s Col. The Ruler is closely related to the great Golden Rule family and is out of a King of Kant Be Beat dam. Mr. Whitney has been in the Duroc-Jersey business a good while and is probably the pioneer in the business on the Rock Island. He has kept abreast of the times by buying from leading herds such animals as he believed would strengthen his herd. He is a conditioner in the respect that he will never over fatten a brood sow. The sows that go in this sale will be "cut out" from those that he will keep a day or so before the sale and sold in the same condition as those he is keeping. This is a good chance to buy something good and about the last chance. Everything will farrow the last of March and in April. Ask for the catalog tonight and it will come by return mail.

Durocs Make Good Average.

E. M. Myers' seventh annual Duroc-Jersey bred sow sale at Burr Oak, Kansas, last Wednesday, was one of the good ones of the season. To start with his offering was, as had been stated in his paper one of the choice offerings of the season. Many of the best sows were bred a little late and had it not been for this fact the average would have been better. The spring gilts were toppy and most all of them bred to Buddy's Best, the new herd boar that Mr. Myers bought this season. He had this fine young fellow on exhibition and he made a hit with everyone. He is a splendid prospect and will be heard from in the future. The average of \$41.58 was none too much and while it was very satisfactory to Mr. Myers it was looked upon as just fairly good considering the high quality of the offering. E. M. Myers is Jewell county's pioneer Duroc-Jersey breeder and has steadily gained in popularity with the breeders and his farmer customers each year. His herd is one of the best in Northern Kansas. Below is a partial list of the buyers:

1—I. M. Chilcott, Mankato, Kan. \$51.00
2—J. B. Fogo, Otego, Kan. 37.00
3—J. L. Phillips, Ionia, Kan. 50.00
4—H. B. Miner, Gulde Rock, Neb. 59.00
5—N. B. Price, Mankato, Kan. 75.00
6—E. H. Tucker, Esbon, Kan. 40.00
7—Geo. Sheppard, Burr Oak, Kan. 37.50
8—Riley F. Smith, Jewell, Kan. 40.00
9—L. B. Bunker, Otego, Kan. 37.50
10—D. D. Shuck, Burr Oak, Kan. 38.00
11—John Fogo, Burr Oak, Kan. 37.50
12—Chas. Anderson, Burr Oak, Kan. 45.00
13—John Beeson, Burr Oak, Kan. 41.00
14—H. Stump, Lebanon, Kan. 45.00
15—H. I. Guthrie, Burr Oak, Kan. 32.50

Harter's Eleventh Sale.

J. H. Harter's Poland China bred sow sale at his farm near Westmoreland, Kan., last Tuesday was one of the good sales of the season. The prices ranged very even and the top was \$68, paid by M. F. Flood, Catoosa, Okla., who bought several head around the top and who was an old time

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan. May come again. Have received over 50 letters of inquiry and still they come. Enclosed find check for \$12.60 which I think was the amount due you. Yours very truly,

F. R. FORD,
Real Estate Dealer.
Eldorado, Mo., Sept. 12, 1912.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I have advertised my Shetlands in the Farmers Mail and Breeze for many years and have sold a great number to people who said, "I saw your ad in Farmers Mail and Breeze."

Yours very truly,
C. R. CLEMMONS,
Breeder and Importer of Shetland Ponies.
Coffeyville, Kan., Feb. 3, 1913.

OIL-OIL-OIL

WHOLESALE PRICE TO CONSUMERS—Combining best quality with low price. NO WATER IN MY KEROSENE OR GASOLINE.

XXX 46 gravity water white kerosene.....\$6.00 for 52 gal. bbl.
XX 42 gravity kerosene (the kind usually sold)\$5.25 for 52 gal. bbl.
XXX 64 gravity gasoline.....\$10.00 for 52 gal. bbl.
1 case graphite axle grease (2 doz. 3 pound pails)\$3.50
40 gravity prime white stove distillate.....\$4.50 for 52 gal. bbl.
38 gravity stove distillate.....\$4.25 for 52 gal. bbl.
60 gallon (26 gauge) galvanized steel tank with pump and hood cover complete—a great convenience in every home.....\$3.60
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.

C. A. STANNARD, BOX M, EMPORIA, KAN.

resident of Pottawatomie County and knew Mr. Harter's herd well. The offering was presented in its every day dress without any attempt to dress it up. It was in very ordinary flesh and breeders and farmers agreed that it was in the best possible breeding condition to go out and do the most good for the buyers. Six late spring boars sold well, the top being \$48, paid by J. H. Reedy of St. Marys, Kan. The average on the six boars was \$36. Mrs. Harter, assisted by several of her neighbors, served an elegant dinner. The day was ideal. It was Mr. Harter's eleventh annual sale. Below is a partial list of buyers:

2—M. F. Flood, Cestos, Okla.	\$68.00
3—Wm. Herington, Blaine, Kan.	53.00
4—Henry Krueger, Beemer, Kan.	51.00
5—L. D. Arnold, Manhattan, Kan.	64.00
6—F. L. Swanson, Randolph, Kan.	39.00
7—E. S. Barry, Manhattan, Kan.	66.00
8—J. O. Crowley, Havensville, Kan.	64.00
9—Wm. Littlefield, Belvue, Kan.	50.00
10—John Grindle, Garrison, Kan.	51.00
11—A. E. Nelson, Osburg, Kan.	50.00
12—H. V. Ebert, Green, Kan.	46.00
13—Ed. Welter, Plush, Kan.	47.00
14—A. P. Schmitz, Alma, Kan.	39.00
15—M. A. Ryan, Blaine, Kan.	37.00
16—F. S. Gould, Westmoreland, Kan.	34.00

BOARS.

34—Chas. V. Myers, Rush Springs, Okla.	27.50
35—H. A. Reedy, St. Marys, Kan.	43.00
36—J. M. Rhodes, Topeka, Kan.	41.00
37—Jas. Quigley, Blaine, Kan.	31.00
38—S. Carnahan, Manhattan, Kan.	25.00

A Good Duroc Sale.
A. M. Rinehart & Son, Smith Center, Kan., had every right to expect that their sale of Duroc-Jersey bred sows at that place last Thursday would be one of the best attended sales of the season. In fact it was freely predicted as late as Wednesday night that this would be the top sale of the winter for northern Kansas at least. But the day was the worst of the winter, being a real old fashioned blizzard in that part of the country and making it next to impossible for the farmers to get out. There was a number of breeders present who had started the day before. Among the prominent breeders from out of town who were present were: Ed. Munsell, Herington, Kan.; W. E. Monasmith, Formoso, Kan.; Ralph Wells, Formoso; W. C. Whitney, Agra; E. M. Myers, Burr Oak; Henry Ramaker, Prairie View; N. B. Price, Mankato; Elmer Trump, Formoso; John McMullen, Formoso and others. While it looked like an almost impossible undertaking the Rineharts believed they should give those who were there a chance to buy and the sale started about 1:30 and about 30 head out of the 60 head catalogued were sold. It was one of the best offerings of the season and with a fair day would have proved one of the best sales of the season. The top was \$132.50 paid by W. E. Monasmith for number 4 which was a very fine tried sow sired by King of Kant Be Beat, and bred to Rambler Wonder, for an early litter. Below is a list of the principal buyers:

5—Geo. Philippi, Lebanon, Kan.	\$ 50.00
8—E. M. Myers, Burr Oak, Kan.	42.00
9—Sam Wooster, Smith Center, Kan.	39.00
11—A. F. Pfander, Lebanon, Kan.	36.00
17—John Williams, Smith Center, Kan.	39.00
20—S. W. Gibson, Esbon, Kan.	50.00
21—E. L. McCune, Smith Center, Kan.	33.00
22—O. A. Scott, Athol, Kan.	39.00
28—Munsell & Isenburg, Herington, Kan.	40.00
29—W. C. Whitney, Agra, Kan.	52.00
37—John McMullen, Formoso, Kan.	34.00
44—Henry Williams, Smith Center, Kan.	36.00
45—Geo. Brown, Smith Center, Kan.	29.00
48—R. P. Wells, Formoso, Kan.	34.00
54—W. E. Monasmith, Formoso, Kan.	132.50
55—N. B. Price, Mankato, Kan.	70.00
57—H. W. Winslow, Esbon, Kan.	49.50
58—Elmer Trump, Formoso, Kan.	70.00
63—S. D. Seevers, Smith Center, Kan.	40.00

Kansas, Missouri and Iowa

BY C. H. WALKER.

We want to call our readers' attention to the fact that this issue is the last before G. C. Roan's sale of Jacks and Jennets that will appear in time to send for the catalogue. The offering of 20 Jacks and 20 Jennets is so good and deserves the patronage of every man in need of good animals that we urge you to read about them in the beautiful illustrated catalog which Mr. Roan is sending out upon request. Write for one today and kindly mention this paper.

Closing Out Sale of Jacks.

Sappington & Brockman of Centralia, Mo., announce in this issue their closing out sale of Jacks, Jennets and stallions to be held in the barn at Centralia on Tuesday, March 11. This sale includes 30 head of Jacks and Jennets and five saddle and draft stallions. The Jacks range from yearlings to 7 years; are all blacks with white points and good ones. The Jennets are good, practically all in foal and some with Jack colts at side. All stock is registered and guaranteed as represented. Write for their catalog as per announcement in this issue.

Herefords at Kansas City.

This is just a reminder that the big Hereford event of the season will be held at Kansas City next week—March 4 and 5. This is the annual sale by Funkhouser, Gabbert & Others, which in itself is sufficient guarantee of a high class offering. There isn't any question about the present or future of the Hereford business and those who are in the market for the best in bulls and females will do themselves a favor by attending this big sale. Dr. R. T. Thornton is sale manager and will gladly furnish any information desired.

A Great Offering of Jacks.

The S. J. Miller sale of stallions, Jacks and Jennets to be held on Thursday of next week, March 6, at Kirksville, Mo., should be one of the best of the season—judging from the standpoint of quality of the stock to be sold. There is a surprise waiting for buyers who attend this sale. It is doubtful if a better line of Jacks will be sold this season than are listed for this sale. It isn't too late to get a catalogue and we suggest that if you want to read about some of the best stock to be sold this year—write for it at once. Kindly mention this paper when doing so.

Dapple-Gray Percherons Popular.

Chas. R. Kirk, of the Percheron Importing Co., South St. Joseph, Missouri, says: "One-third of our last importation, now on hand, are Dapple Grays—beautiful horses, with short backs, correct slope of croup, flinty legs and big feet; big stylish horses that can trot out with more action and speed than most roadsters. Our guarantee and insurance are the best. Our trade has been satisfactory. The demand as good as usual, and better than at this time last year. The incoming administration does not worry the farmers and breeders. They are more than prosperous throughout the southwest, and the sun rises on a new opportunity, every day."

Mastodon Bred Gilts and Boars.

Clarence Dean, of Weston, Mo., is offering from his well known herd of Mastodon Poland Chinas—Mastodon in quality and breeding worth as well as size—a few choice bred gilts bred to his great herd boars, Mastodon Price, Columbia Wonder and Gritter's Longfellow. It would be hard to find a better line of big type Polands than in the Dean herd and to those who are yet short a few sows we recommend writing to Mr. Dean for further description and prices of the stock he has to offer. He also has a few choice boars of fall farrow left that will be priced right, quality considered. Kindly mention this paper when writing him.

The Linscott Jerseys.

In a recent issue of the Olathe Mirror the following tribute was paid Mr. Linscott and his Jersey cattle. "In some correspondence with Mr. Linscott of Holton, Kansas, proprietor of the famous Linscott herd of Jerseys he writes W. J. Moore, county clerk, that he has another registered Jersey heifer, which will be fresh in June, to sell at the extremely reasonable price of \$125.00. This heifer is bred in the purple, as is also the other one Mr. Moore bought some time ago. Mr. Moore's cow, although it has been several months since she was fresh (but two years old) is now giving over two gallons of milk per day, from about half of which Mr. Moore makes six pounds of butter per week. Mr.

MULE FOOT HOGS.

Mule Foot Hogs More premiums won in 1912, than any herd in the U. S. Bred sows, some extra spring farrow boars and pigs in pairs not related. Pedigrees furnished. ZENE G. HALLEY, R. F. D. 5, WILMINGTON, OHIO.

MULE-FOOTED HOGS.

The coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free. DR. W. J. CONNER, Labette, Kan.

POLAND CHINAS.

LARGE WITH PLENTY OF QUALITY. Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock. OLIVIER & SONS, DANVILLE, KANSAS.

40 Sows and Gilts Bred and open for sale of the higher order of Poland Chinas. ROY JOHNSTON, Southmound, Kansas.

POLAND CHINAS Select young boars. Gilts, bred or open. Prices right. Call or Address H. L. BROOKS, LARNED, KANSAS

QUALITY and SIZE Big, Smooth Polands. Bred sows and summer pigs for sale. LAMBERT BROS., SMITH CENTER, KANSAS.

PUBLIC SALE of 40 high-class Poland China Sows to be held at Rich Hill, Mo., February 21st by W. Z. BAKER. Send for Catalog.

Big Polands and Barred Rocks. Herd boar prospects, all sizes. Tried sows and gilts. Big bone, big litter, big quality. Low prices. Fine big cockerels. \$1.00 to \$2.00. W. C. MILLIGAN, - - Clay Center, Kansas.

BigBoned Bred Sows

March and February gilts sired by Gold Mine, bred to Pan Look and Wide Awake; also tried sows bred to Gold Mine. 40 late summer and early fall pigs priced cheap. Dietrich & Spaulding, Richmond, Ks.

BigType Poland Chinas

With unusual size and show yard quality. The kind you saw us win with at Topeka and Hutchinson. Don't you want some of them? R. B. BAIRD, CENTRAL CITY, NEBRASKA

Becker's Poland Chinas

Sows and gilts safe in pig to Hadley's Wonder, 62806. Also a few open gilts and fall boars. Price for quick sale. Satisfaction guaranteed. J. H. BECKER, NEWTON, KANSAS.

BIG TYPE POLANDS

Summer and fall pigs both sex, strong in the blood of Big Hadley and A Wonder. Sows and gilts, the big, smooth kind, bred for early litters. Description guaranteed. Call or write A. R. ENOS, Ramona, Kas.

Schneider's Poland Chinas

Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and Goldust Hadley. Also 10 head of yearling sows bred to these boars. JOE SCHNEIDER, Nortonville, Kansas.

Polands—Barred Rocks

Summer and fall pigs by Referendum and J. C. Metal and out of choice sows. Priced to sell. Also 50 Barred Rock Cockerels. A. N. Waechter & Son, Riverton, Neb.

Robinson's Mammoth Poland Chinas!

My herd boars weigh from 800 to 1,025 lbs. Now have for sale, two good tried boars and a few extra good last fall pigs of both sexes. My terms are: If you are not satisfied return the hog and I return your money. F. P. ROBINSON, Maryville, Mo.

MEADOW BROOK BERKSHIRES AT BURLINGTON, KANS.

200 bred sows, all bred to Premier Longfellow, King's 2d Masterpiece, True Type, King's 4th Masterpiece, King's X Masterpiece (the greatest yearling we ever raised), Forrest Count, etc. One hundred open sows and twenty extra nice males. Two extra good herd boars for sale (every one deep in breeding and rich in blood). E. D. KING, BURLINGTON, KANSAS.

Registered GALLOWAY CATTLE

"We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

PUBLIC SALE
Red Poll Cattle
At my farm 6 miles south and 2 east of
Smith Center, Kan., Tues., March 4

Also one registered Percheron mare and two Percheron stallions, coming two and four. Very desirable and choice animals. The cattle which numbers 21 head are all either registered or eligible. The breeding is of the very best and the best of milkers. Gentle and good colors. The bulls that have been used have come from the well known herds of Chas. Morrison and P. G. Henderson. I have carefully constructed this herd and have always sold from the bottom, reserving the tops for my own use. I have rented my farm and am moving to a smaller one in eastern Kansas. For that reason it is a dispersion sale. Also all my farm machinery and other personal effects. Catalogs ready to mail at once. Address,

L. W. BEEM, Smith Center, Kan.

POLAND CHINAS.

NEBRASKA TYPE. A fine lot of summer and fall pigs by Hyden's Big Hadley 2nd, Pan Wonder and Neb. Chief. Bargains in the best. C. C. Ingram, Bloomington, Neb.

Fall and Summer Pigs For Sale.

Sired by my Iowa boar. Extra good and out of my mature sows. Everything immune. Also Rhode Island Red cockerels for sale. L. E. KLEIN, ZEANDALE, KANSAS.

HARRY HOAK'S POLAND CHINAS

A few large, Big Type boars, also some good sows and gilts bred for early litters. Fashionable Big Type breeding and priced right to buy. Call or write today! HARRY HOAK, Attica, Kansas

ALBRIGHT'S BRED SOWS AND GILTS

20 gilts bred to one of the good sons of Big Tom and Sensation; 8 tried sows bred to Cavett's Mastiff by King Mastiff. One extra good sow bred Oct. 16th. A. L. ALBRIGHT, WATERVILLE, KAN.

Dean's Mastodon Polands

Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. All Immunized by Double Treatment

Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 8d. Everything guaranteed and sold worth the money. Address CLARENCE DEAN, WESTON, MISSOURI

BROOD SOWS

For Sale

Ten tried brood sows, ten fall gilts and ten early spring gilts all safe in pig to Forrest Wonder and Long King. Big Poland Chinas at reasonable price. Will not hold a winter brood sow sale. These are priced to sell. Our herd boars are Designer, Good Medal and Major Look. C. S. NEVIUS, CHILES, KANSAS.

POLAND CHINAS!

Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomes, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. JOSEPH M. BAIER, ELMO, KANSAS.

Poland China Gilts

of Sept. farrow, \$18 each, 2 for \$35. Heavy boned, growthy and well grown out. Sired by Expansion Too 59484 and their dams by Blain's Last Hadley, Pawnee Price, Big Smoke and Cowles's Tecumseh, representing the herds of Blain, Williams Bros. and Longegran. Were given a heavy dose of serum Nov. 26. F. S. COWLES, R.R.No.2, Lawrence, Kan.

A.D.JONES,

OF DUNLAP, IOWA

has for sale sows and gilts bred to 1,000 lb. boars, and 600 and 800 pound dams. To farrow in March, April, May and June. Strictly Big Type Poland Chinas. I breed for length, bone and quick maturity. Send for price and description.

LIVESTOCK AUCTIONEERS.

Wm. H. Harper, LIVESTOCK AUCTIONEER. GLASCO, KANSAS. Phone for Dates.

JAS.W.SPARKS Live Stock Auctioneer MARSHALL, MO.

COL. HOMER BOLES, Randolph, Kan. Livestock and General Auctioneer.

Col. D.F.Perkins, Concordia, Kan. Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write for dates.

L.R.BRADY LIVESTOCK AUCTIONEER Manhattan, Kan. Write or wire for dates.

COL. S. B. YOUNG, Osborne, Kan. Livestock Auctioneer. Write for dates.

R.H.DENGATE, Lucas,Kan. LIVESTOCK AUCTIONEER. DATES CLAIMED ARE PROTECTED.

N. S. HOYT, Mankato, Kan. Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

T. E. GORDON, WATERVILLE, KANS. Livestock and Real Estate Auctioneer. WRITE FOR DATES.

Will Myers, Livestock Auctioneer Beloit, Kansas. Write or phone for dates. I am located right to give good service.

Col. J. R. LOYD, ATHOL, KANSAS. LIVESTOCK AUCTIONEER. Write for terms and dates, and reference.

Col.N.B.PRICE, Mankato, Kan. LIVESTOCK AUCTIONEER. Phone or write for dates. Bonney K. heads myDuroc-Jersey herd

G. A. DRYBREAD Elk City, Kans. Live stock and farm sales made anywhere. Give me a trial. Satisfaction guaranteed.

G. G. DENNEY GUIDE ROCK, Nebr. Livestock Auctioneer. Pure bred stock sales and big farm sales. Write or phone.

SALE BILLS Printed on heavy paper 11x17 inches in 2 colors. Sent post paid \$2 per 100; 200 for \$3. Send 2c stamp for sample and particulars. C. S. DEMAREE, Printer, Dept. C, 610 Walnut, Kansas City, Mo.

W. B. Carpenter, Live Stock and Real Estate Auctioneer. Also President Missouri Auction School. 14th and Grand Ave., Kansas City, Mo.

John D. Snyder HUTCHINSON, KANSAS LIVE STOCK AUCTIONEER Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

FRANK J. ZAUN FINE STOCK AUCTIONEER INDEPENDENCE, MO. Bell Phone, 675 Ind. "GET ZAUN, HE KNOWS HOW!"

R. L. HARRIMAN Live Stock Auctioneer BUNCETON, MISSOURI

BERKSHIRES.

Hazlewood's Berkshires!
Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

GOOD SOWS BRED

to champions and grand champions. I also have some splendid fall pigs that I will sell single or in pairs no kin.

C. G. NASH, Eskridge, Kan.

BERKSHIRES, SHORT-HORNS and JERSEYS

FOR SALE—25 boars by Robinhood Premier 2nd or Rival's Lord Premier, and out of sows representing such sires as Imported Baron Compton, Berryton Duke and Premier Longfellow.

Also a choice Shorthorn bull calf by Silk Goods and out of a show cow.
W. J. GRIST, :: OZAWKIE, KANSAS

THE Walnut Berkshire Farm

Where prize winners are bred, developed and sold at reasonable prices.

LOOK! LISTEN! Now booking orders for March and April pigs, \$15.00 each in pairs or trios.

BRED GILTS

I have 30 very choice gilts weighing from 200 to 300 lbs., bred for March, April and May farrow. These are high class Robinhood bred gilts and bred to either Rival's Crusader or Legal's Rival. Priced from \$40 to \$60 each. Priced for immediate sale. A splendid grandson of Masterpiece, weighs about 300 lbs., very gentle and a guaranteed breeder; a first class sire. Priced, if taken soon, \$75.00. Special attention always given mail orders and perfect satisfaction guaranteed. Visitors always welcome.

Leon A. Walte, Winfield, Kansas

HAMPSHIRE.

Pure Bred Hampshires
Inspect our herd or write for prices. Our motto is to please. ALVIN LONG, Lyons, Kansas.



WRITE J. F. PRICE,
Medora, Kans.
For prices on Pedigreed
Hampshire Hogs

Try The White Belts

Special prices on boars; also bred sows and gilts for sale. Address T.W. Lavelock, Princeton, Kas.

Pedigreed Hampshires

of various ages, not a kin. Four boars, 8 months old. C. E. LOWRY, Sumner County, OXFORD, KANSAS.

O. I. C. SWINE.

GOOKIN'S O. I. C. HOGS. Booking orders for different breeds, out of sows not about to farrow. Priced to sell. F. C. GOOKIN, RUSSELL, KANSAS.

CHESTER WHITE HOGS
Good quality, either sex, the short nose kind. Write for prices. FRANK PROCHASKA, Glasco, Kans.

STAR HERD O. I. C's.

Breeding stock of various ages, either sex. Best breeding re. sented in this herd. Write your wants. ANDREW KOSAR, GLASCO, KANSAS.

O. I. C. 125 HEAD HOGS
Pigs in pairs, Bred Sows and Service Boars
W. H. LYNCH, Reading, Kansas.

Neef's Cholera Immune O. I. C's.

Pure bred seeds and S. C. R. I. Reds. Hogs all ages for sale reasonable prices. Special on sows and gilts bred for spring farrow. Have choice lot Reid's Yellow Dent, Boone Co. White and Carter's seed corn at \$2.00 per bu. shelled and \$3.00 in ear. Recleaned Texas Red Rust Proof seed oats and seed rye. Some fancy S. C. R. I. Red cockerels at \$1.00 and \$2.00 each. Eggs for setting \$1.00 per 15, \$4.00 per 100.
Biverside Farms, J. H. NEEF, Boonville, Mo.

DUROC-JERSEYS.

BIG TYPE DUROCS All kinds for sale. Our customers must be satisfied. We have what you want. Write us. Fall sale Oct 17
MOSER & FITZWATER, Goff, Kansas.

GOOD E. NUFF AGAIN KING 35203 CRIMSON WONDER IV. 43655
The two great boars of the west head our herd. Sale 35 head March 11. Send for Catalog.
W. W. OTEY & SONS, WINFIELD, KAN.

Bonnie View Farm
Duroc-Jerseys: Extra fall pigs. Plymouth Rocks: Eggs in season. Searle & Cottle, Berryton, Ks.

Moore's cow cost him \$200.00 and he thinks he has a bargain. This is but a sample of the good things we hear from customers of Mr. Linscott. He is now offering a rare bargain in an eminent bull. Also some bargains in bred helpers and cows. Note the advertisement in this issue and write Mr. Linscott.

Davis Makes Great Sale.

When a breeder can sell 118 sows and gilts in one day for an average of \$59.65, it is to say the least, "going some." That is what W. F. Davis, the Hampshire breeder of St. Joseph, Mo., did on the 18th. Attracted by his reputation for the best in Hampshires and the large number to be sold, the largest crowd that has attended a hog sale in this section in years was in attendance. The Davis Hampshire sales are not local affairs but are of national importance, judging from the wide territory into which breeding stock of this well known herd has been sent. Col. T. E. Deem of Cameron, Mo., whose reputation as a Hampshire salesman was made in the previous sales held by Mr. Davis, fully sustained it in this sale.—C. H. W.

Iowa and Nebraska

GEO. W. BERRY.

J. C. Robison of Towanda, Kan., and Willard R. Brown of Minneapolis, Kan., will sell 60 Percheron stallions, mares and colts at the stock yards, Kansas City, Mo., Wednesday, March 5. All of our readers who are interested in Percherons should attend this sale.

Searle & Cottle of Berryton, Kansas, offer Duroc fall pigs including a litter by Tata Walla, from Bonnie Pride, being exactly same breeding as the 1st and 2nd Junior sow pigs and 2nd and 3rd prize boar pigs at Topeka last fall. Messrs. Searle & Cottle say their fall pigs are exceedingly promising. Look for their advertisement of Bonnie View Farm Durocs and Plymouth Rocks.

Galloway Bulls.

Galloway bulls in lots to suit the purchaser are offered by G. E. Clark and W. W. Dunham of Capital View Farm, Topeka, Kansas. This firm can please any one wanting either a single bull to head a good herd or a car load of bulls for pasture service. The herd is one of the largest of this breed and represents the best breeding and headed by noted bulls.

O. I. C. Hogs.

W. H. Lynch, of Reading, Kansas, one of the oldest breeders of O. I. C. swine in the state is prepared to fill orders for breeding stock of most all ages. He has a large herd and with a large number from which to choose can make selections that will please old and new customers alike. He has used a number of the noted sires of the breed and is offering sows bred to the best boars he ever owned.

Berkshire Bred Sows.

C. G. Nash of Eskridge, Kansas, is making a special offering of Berkshire sows bred to champion boars for spring litters, also last fall pigs single or in pairs of proper mating. Mr. Nash's Berkshires are noted for great size, heavy bone and large litters, and his herd has captured a large share of premiums at the state fairs.

Polled Durhams.

Parties looking for Polled Durham breeding stock should call on S. M. Howard, Hammond, Kansas. Mr. Howard is offering a number of bulls that are extra individuals and choicely bred; also cows and helpers that will please buyers who want to stock their farms with all purpose, hornless cattle. Mr. Howard's farm is only a few minutes' drive from Fort Scott. Write or call on him mentioning Farmers Mail and Breeze.

Modern Herefords.

Hereford breeders looking for bulls to head good herds should write or call on Robt. H. Hazlett, Eldorado, Kansas, proprietor of Hazford Place, and the breeder of one of the largest and richest bred herds of Hereford cattle in the West. Mr. Hazlett's methods of breeding and development of beef cattle are unexcelled and the success attained by him in concentrating the best Hereford blood in the herd at Hazford Place has attracted the attention of students in cattle breeding. That he has developed a family of Herefords famous for show yard quality and retaining and increasing the size and good fleshing and early maturing qualities is an achievement that puts Robt. H. Hazlett in the first rank of cattle breeders. Any one interested in good cattle would enjoy a visit at Hazford Place.

Halford's Poland Average \$65.35.

The blizzard which swept northwestern Iowa doubtless prevented a larger attendance at the sale of Poland China bred sows held by R. W. Halford, at Manning, Ia., on February 21. It was really a surprise that any number of breeders would face such a snow storm in a driving, cold wind to attend a public sale. However, about 25 farmers and breeders and a few spectators were in the pavilion at the opening of the auction, which resulted in disposing of the entire offering at the average price of \$65.35. The top was \$107.50, paid by Tim Neuhofer of Central City, Neb., for the 2-year-old sow Smooth Mollie bred to Mabel's Wonder. Several gilts sired by Mabel's Wonder brought \$100 to \$140 each. The offering was high class, big type, individually, and was deserving of a considerably higher average. The small crowd was treated to an exhibition of breeding stock seldom equaled in a sale pavilion. The three herd boars owned by Mr. Halford, including Mabel's Wonder, Long Jumbo and Chief Price, weighing 900 to 1,000 pounds each, were on exhibition and much admired by the breeders present. H. S. Duncan was the auctioneer. Among the buyers are listed the following: G. W. Goslee, Kenton, Ohio; H. A. Woods, York, Neb.; T. H. Paul, Washington, Ia.; J. H. Healy, Manila, Ia.; Fred Hassler, Manning, Ia.; M. P. Hacher, Rolf, Ia.; J. C. Myrup, Harlan, Ia.; E. S. Frick, Central City, Neb.; W. W. Griffith, Lake City, Ia.; Willard Zeller, Cooper, Ia.; Geo.

Sale at Star Breeding Farm

Near Elk City, Kansas,

Monday, Mar. 10th

45 Head of High-Classed Duroc-Jersey Bred Sows and 5 Choice Young Boars.

12 Matured sows mostly bred to Model Top, 15 good fall yearling gilts, mostly bred to B. & C's Col., 29 spring gilts by B. & C's Col., and 5 choice young boars.

The majority of the above are sired by B. & C's Col., and a portion of the sows and gilts are bred to Model Top. A few are bred to S. D's Buddy, by Buddy K 4th, and a few are bred to Star Chief, by Good Enuf Again Chief. This really should be called a Model Chief sale. Mr. Breeder, if you want size along with the quality and blood lines, we have got them ranging in weight from 650 lbs., down in this sale.

Sale will be held under comfortable tent and we will do everything to make the day pleasant for you. Free conveyance to and from farm.

Col. Reppert will be with us and if you cannot come, send your bids to the Colonel or Ed. R. Dorsey who will represent this paper at this sale.

The above offering, with the exception of three, have had the simultaneous, or double, treatment. All stock guaranteed breeders and if any should fail under subsequent good treatment they are yours at market price. Pedigrees will be in hands of the clerk on sale day. Send for catalogue which will explain more fully. Address all letters in our care.

SAMUEL DRYBREAD & SONS
ELK CITY, KANSAS

POLAND CHINA Bred Sow Sale

Large Smooth Type at

South Haven, Kan., Saturday, March 8th

40 Bred Sows and Gilts Consisting of 9 Tried Sows, 31 Spring Gilts

The tried sows are by such sires as ON and ON, CHIEF, D's EXPANSION, and CORRECTOR. The gilts are most all by K's Hadley by Big Hadley's Likeness and bred to K's Orphan Chief by Orphan Chief. The tried sows are all safe in pig for March and April litters to either K's Orphan Chief or K's Hadley. A few are bred to Long Mastiff by Young Mastiff. Three August gilts by D's Expansion and out of a Defender Colossus dam. Show prospects, will also be included, also

FIVE HEREFORD BULLS, 8 to 20 months old, three by a son of Blizard and out of cows that carry the blood of Beau Real and Lord Wilton. For catalog write today.

I. E. KNOX, South Haven, Kan.

Auctioneers: Cols. John D. Snyder and J. R. Bonall.

W.C. Whitney's Sale

of Duroc-Jersey Bred Sows

At his farm joining Agra, Kansas, Saturday, March 15

40 HEAD: 16 Tried Sows, 12 Fall Yearling Gilts and 16 Spring Gilts

Everything bred for last of March and April farrow. The 16 tried sows are coming 2 and 3 years old and in their very prime of usefulness. They were sired by Agra Topnotcher, King of Kant Be Beat and I Am A Bonney K. The fall gilts are by Belle's Prince Wonder and Buddy's Red Col. The spring gilts by Belle's Prince Wonder. Everything is bred to the best advantage to The Ruler and Buddy's Red Col. Everything in the best of breeding condition and showing up well sale day. Write for Catalog and arrange to attend. Address

W.C. Whitney, Agra, Kansas

Auctioneers—John Brennen, N. B. Price, Mr. Ewing. J. W. Johnson, Fieldman. Note—Agra is on the main line Rock Island west of Smith Center. Best of train service. Take the "Jersey" at Belleville morning of the sale.

DUROC-JERSEYS.

A Fine Offering Bred Sows and Gilts
Also open gilts and summer pigs. Best of breeding.
R. C. WATSON, ALTOONA, KANSAS.

Pleasant View Durocs. Bred sows at private sale. Spring gilts, fall yearlings and tried sows. All immune. Write for prices. **T. P. TEAGARDEN, Wayne, Kas.**

BRED GILTS I have an exceptionally fine lot of Duroc gilts bred to my prize winning boars for sale. Also a few top summer boars. Write for prices and description.
CHAS. L. TAYLOR, Olean, Mo.

ROYAL SCION FARM DUROCS

Fashionably Bred Durocs, spring boars and bred gilts, by the great Graduate Col. Also sows and gilts bred to him.
C. C. Norman Prop., Winfield, Kan.

Perfection Stock Farm

Nov. boars and gilts, also 80 choice spring pigs, by State Fair grand and reserve champions. Pairs and trios not related. Ship on approval. Prices right. Write your wants.
Geo. M. Clasen, Union City, Okla.

BIG TYPE DUROC-JERSEYS

Spring males at \$25; summer pigs \$10, trios \$25; fall boars, good ones at \$30 to \$40; yearling sows, open or bred. Every hog shipped on approval. Satisfied customers in 22 states. Red Polled cattle, cheap.
GEO. W. SCHWAB, CLAY CENTER, NEB.

HILSIDE DUROCS

Select young boars and fall gilts. A few good yearlings, sows and gilts, bred or open. Priced for quick sale.

W. A. WOOD & SON, Elmdale, Kansas.

TATARRAX HERD DUROCS

The finest lot of Fall pigs we ever offered, either sex. Most of them by the Grand Champion Tatarrax. Bred sows and gilts priced for quick sale.
HAMMOND & BUSKIRK, Newton, Kansas

College Hill Durocs

Bred sows and gilts for spring farrow for sale. Popular breeding. Farm adjoins agricultural college. Prices right.
W. W. BALES & SONS, MANHATTAN, KAN.

FALL BOARS BY DREXEL'S PRIDE

the sire of my show hogs. Spring pigs by him and Queen's Wonder 112317, a sensational Crimson Wonder Again yearling. All choice and priced right.
W. T. HUTCHISON, CLEVELAND, MO.

Leon Carter, Asherville, Kan.

Duroc-Jerseys. Oldest herd in Mitchell county. Plenty of new breeding in my bred sow sale Thursday, Jan. 30. 45 head. Write for catalog.

BEAVER VALLEY HERD DUROCS

Sept. and Oct. boars and gilts sired by Grand Master Col. 2nd No. 9493; Grand Champion of Oklahoma, both 1911 and 1912; Defender's Col. by Defender and Select Col. by Chief Select, the great show and breeding boar. Satisfaction guaranteed. **W. A. WILLIAMS, Marlow, Okla.**

30 HEAD of Duroc-Jersey fall pigs of "Kant be Beat",

Crimson Wonder and Col. breeding. Registered. Priced reasonable and delivered your station. Either sex.
ARTHUR A. PATTERSON, Ellsworth, Kan.

Bancroft's Durocs

We hold no public sales. Nothing but the best offered as breeding stock. Tried sows and fall yearlings bred. Spring gilts bred or open. Fall pigs, either sex. Pairs or trios not akin. Prices right. Customers in 6 states satisfied. Describe what you want. We have it.
D. O. BANCROFT, OSBORNE, KANSAS.

HEREFORDS.**Klaus Bros.' Herefords!**

We offer 16 head of strong, rugged bulls, herd header material, ready for service, sired by Fulfiller 3rd, Fulfiller 25th and Beau Onward. Priced right and worth the money.
KLAUS BROS., BENDENA, KANSAS.

Mathews Herefords

We are offering 20 registered heifers about 11 months old. ANXIETY 4th blood predominates.
FRED MATHEWS & SONS, Kinsley, Kan.

Star Breeding Farm

HEREFORDS Headed by Tophon 4th. 90 Bulls, 14 to 30 mos. Single or carloads. Can spare a few females in lots to suit buyer.

DUROCS Of most fashionable breeding headed by Model Top 77405. Choice individuals of both sexes for sale at all times.

Sam'l Drybread, Elk City, Kansas

Blue Valley Breeding Farm

Herd of Herefords established 20 years ago. 175 head at present. 24 bulls for sale, from 9 to 15 months. Guaranteed and priced low, delivered at your station. Registered Poland Chinas. Fall boars for sale. **BARRED ROCKS**—Eggs for sale in season.

Fred Cottrell, Irving, Kan.

Modern Herefords

ROBT. H. HAZLETT

Hazford Place
Eldorado, Kansas

Bingham, Bradford, Kan.; R. P. Powers, Aurora, Neb.; H. Fesenmeyer, Clarinda, Ia.; H. A. Wood, York, Neb.; W. E. Zimmerman, Neola, Ia.; Chas. W. Blewen, Ames, Ia.; Tim Neuhoefel, Central City, Neb.

Kansas City Percheron Sale.

The sale of imported and American bred Percherons which has been announced by the well known breeders J. C. Robison, Towanda, Kan., and Willard R. Brown, Minneapolis, Kan., to be held at the stock yards, Kansas City, Mo., on March 5, is the best opportunity that horse raisers will have perhaps for some time to purchase high class registered stallions and mares. Mr. Brown will disperse his stud including the stallion Rex 71533, one of the best young stallions in Kansas, also his collection of choice mares representing such noted sires as Blande, Brilliant III, Calypso and Casino. The mares are good workers, and every one of breeding age will be sold showing foal. The offering by Mr. Robison will include several sons and daughters of the famous Casino, the best known stallion in America, that stood at the head of the Percheron classes at the St. Louis World's Fair, and the greatest prize winning stallion living. Mr. Robison will include, also, in the sale several choice stallions from yearlings to 4 years old and a few fillies from his importation of 90 head from France to his farm in September, 1912. The combined offering will include about 25 stallions from yearlings up and about the same number of mares and colts. As noted above this sale will be held at the Kansas City, Mo., stock yards, in order to accommodate the breeders of both Kansas and Missouri as well as adjacent states, and the sale will be held in convenient and comfortable quarters.

Kansas and Missouri

BY ED. R. DORSEY.

Dr. W. H. Richards of Emporia, Kan., importer of Belgian, Percheron and Shire horses, is one of the best judges of horses in the business. He is a graduate of the Ontario Veterinary college and a practitioner for nearly 30 years. His experience as a horseman and a veterinarian gives him the advantage over inexperienced men in selecting a good, sound lot in Europe. He does all of his own buying and he never brings over an unsound horse. Today he has one of the most complete stables in the Central West. His motto is: "Small profits and quick sales." We know he is making a number of good sales. He pleases those looking for a high class lot of horses.

Try F. S. Cowles for Polands.

F. S. Cowles, owner of the Glen Ellen Stock Farm and breeder of the large type Poland China hogs at Lawrence, Kan., writes under recent date that his hogs are doing nicely and his trade is good, but he has a number of September male pigs that will weigh about 150 pounds that he is closing out at \$18 each or two for \$35. At the head of his herd is Expansion Two 59484. He is sired by Expansion Over 53110, dam, Pan's Perfection 139156. His herd sows are mostly sired by Cowles's Tecumseh, Blaine's Last Hadley, Big Smoke and Pawnee Prince. Mr. Cowles has been breeding Poland China hogs of the big type for the last five years and with his fair dealing he has built up a wonderfully good trade.

Extra Good Poland Chinas.

Roy Johnston of South Mound, Kan., is getting his Poland Chinas ready for his annual spring brood sow sale of April 3. He has sold 35 bred sows since his January 20 brood sow sale but he controls the herds on four large farms representing nearly 2,000 acres and 500 to 1,000 hogs during the year, so three sales a year do not keep him from doing business all the time. He will sell six sows bred to A Wonder Longview 2d, by A Wonder Longview, by the mighty A Wonder and out Lady Jumbo 4th. Since this will be an entirely new cross for Mr. Johnston's customers it will also help his sale. It is safe to say we have no breeders better than Mr. Johnston, no one tries harder to please his customers and in fact no one is making more of a success of his business than Mr. Johnston. Write him for a catalog.

Nevius Enjoying Fine Trade.

C. S. Nevius & Son, owners of Glenn Wood Stock Farm, at Chiles, Kan., the home of the great bull Searchlight 393031, Searchlight Junior, Prince Valentine 4th at the head of his Shorthorn herd, and Designer 89199, Good Metal 51700 and First Wonder, at the head of his Poland China herd, write that they are enjoying a splendid trade for bred sows and Shorthorn bulls. He recently sold J. F. Gamber of Sulver, Kan., three bred sows; two of them were sired by Designer and bred to Good Metal, and one sow by Major Look. Also sold to John Regier of Whitewater, Kan., one male by Designer. Three good gilts to Earl Claton of Admire, Kan.; one gilt to A. W. Miller of Bem, Mo., and a male to J. E. Ellenberger of Polo, Mo. Says he has a few more as good males left as he ever had on Glenn Wood Farm. The inquiries for cattle were never better and prices are back to the good old times of 1900. He has plenty of ensilage to feed them. By the way, Mr. Nevius has a number of silos on his farm, made of concrete and he manufactures them himself. He is kept busy in the spring of the year putting them up, all over the country. Anyone interested in the silo business should take the matter up with him now before the busy season opens up, as along in June, July and August he has more business than he can attend to.

The Bayless-Dero Offering.

We spent a day looking over the importing stable of Belgian and Percheron stallions and mares at Blue Mound, Kan., a few days ago and the owners of the Blue Valley Stock Farm will sell 28 head March 6. Don't think we ever described a sounder lot of horses than W. H. Bayless-Dero & Company will sell on this date. The announcement in this paper has stated the ages and sex and the catalog, under each animal, gives a brief description of each horse or mare to be sold. Mr. Dero lives in Belgium and raises as many horses as any breeder in his country. He buys them at all seasons of the year. He well knows that W. H. Bayless is one of the most par-

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order. We don't need the money. We want you to come and buy. We want regular customers and shall try hard to please you.

Young Heifers and Bulls at \$50, \$75 and \$100 each. Two Heifers and a Bull, not related, \$200 for the three. Herd Header Material is Scarce. We have a few. They are priced right. Come early and get first choice.

**Over 200 Head From Which to Select**

A great variety of prize winners and prize winning blood. Breeding stock of both sexes and all ages. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

Cows with Calf at Foot and Re-bred.

Richly Bred Young Things, Show Prospects.

Handsome Young Bulls, Herd Header Material.

Rugged Young Bulls, the Farmer and Stockman Kind.

In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. Lookabaugh, Watonga, Okla.

C. G. Cochran & Sons
Plainville, Kansas

Selling a select draft of 70 head of

Shorthorn Cattle

Consisting of bulls of serviceable age, and cows with calf at foot or to drop calves this spring. Tops from their big western herd numbering over 500 head. Sale will be held in Lamer's Sale Pavilion at

Salina, Kansas
Friday, March 14, 1913

Watch this paper for detailed sale announcement next week

C. W. Lamer & Co., will sell 50 Percherons in same pavilion the day before.

POLLED DURHAMS.

Polled Durham Bulls

Six well bred young bulls and a limited number of cows and heifers for sale.

C. M. HOWARD, HAMMOND, KANSAS.

Prize Winning Polled Durhams

One yearling bull and several bull calves sired by Roan Choice (Jr. Champion of 1911), also a few young cows and heifers. All from the greatest show and prize winning herd in Kansas or the West.

C. J. WOODS, CHILES, KANSAS.

GALLOWAYS.

G. E. CLARK, W. W. DUNHAM.

CAPITAL VIEW GALLOWAYS.

12 Miles West of Topeka.

Can furnish car of good bulls ranging in ages from calves to 2-yr-olds. Can suit your wants. Write.

CAPITAL VIEW RANCH, Silver Lake, Kan.

Fort Larned Herd

REGISTERED BULLS. 20 GALLOWAYS and 20 RED POLLS. 10 to 20 months old. Priced to sell.

E. E. FRIZELL, LARNED, KANSAS

SHORTHORNS.

SHORTHORN CATTLE

POLAND CHINA SWINE and CLEVELAND

RAY HORSES. All stock pedigreed. Prices reasonable.

Thos. B. Murphy & Sons, Corbin, Kas.

SHORTHORNS

Bulls from 12 to 18 months. Roans and reds. Scotch Tops.

Address: L. M. NOFFSINGER, OSBORNE, KAN.

Pearl Herd of Shorthorns

I have a select bunch of young bulls from six to 20 months old, well bred, well grown and the making of good useful animals. They are both reds and roans. Can ship via C. R. L. & P. A. T. & S. F. U. P. and Mo. Pac. Address

C. W. TAYLOR

ABILENE : : KANSAS

DAIRY CATTLE.

HOLSTEINS FOR SALE—30 head of registered

bulls and males; also 73 head of fine bred heifers

and young cows, \$28.50 and up. Come and see them.

M. P. KNUDSEN, CONCORDIA, KANSAS.

BANKS' FARM JERSEYS

Quality with milk and butter records. One

of the best sons of CHAMPION FLYING

FOX, imported, at head of herd. Stock for

sale.

W. N. BANKS, Independence, Kan.

OAK HILL HOLSTEINS

Bulls ready for spring service by Shady-

brook Gerben Sir Korndyke out of A. R. O.

clams. Heifers bred. Also a few fresh

cows. All tuberculin tested.

BEN SCHNEIDER, NORTONVILLE, KAN.

HOLSTEINS

—CHOICE BULL CALVES

H. B. COWLES, TOPEKA, KANSAS.

LINSCOTT JERSEYS

Only officially tested herd in Kansas. FOR SALE:

A two-year-old Eminent bull, \$125. A two-year-old

red heifer \$125, cows \$150.

E. J. LINSCOTT, HOLTON, KANSAS

Holsteins For Sale

High grade cows and heifers. About 40

head. Heavy springers from two to five

years old. 15 head coming two years old.

Two fresh this spring and summer. All bred

to registered bulls. Also bulls, high grade

and registered. From 4 to 12 months of age.

These are all highly bred dairy cattle and

fine young stuff.

IRA ROMIG, Station B, TOPEKA, KAN.

Holsteins!

I will sell the following high grade Hol-

steins, many of them practically full bloods,

and in good condition: 50 yearling heifers

and 50 1½-year-old heifers just being bred

to a son of a 24 lb. dam; 100 2 to 2½-year-

old heifers and 100 2½ to 3-year-old heifers

bred to a high class registered bull, to

freshen from Dec. 1st, 1912, to March 1st,

1913. 100 matured cows, very heavy pro-

ducers, springing up ready to freshen soon,

most of them in calf from registered bulls.

A number of high colored registered bulls,

ranging in age from 6 months up, out of

heavy producing dams, and selected espe-

cially to head choice herds. Can fill any order

from one animal up. Have a small surplus

of excellent registered cows and heifers I

will dispose of. Also have 100 head of high

grade Guernsey cows and heifers from year-

lings up. Write me regarding your wants.

JAMES DORSEY, Gilberts, Illinois

**Butter Profits**

You ought to get more butter profits. Jersey Cattle mean more butter profits, because they yield more butter fat at less net cost of keep than any other breed.

THE JERSEY

excels in beauty of dairy type. She is a persistent milker. Jerseys are easily acclimated. They live long and keep healthy. They mean steady butter profits. Write now for Jersey facts. Free for the asking. AMERICAN JERSEY CATTLE CLUB 224 W. 23d St., New York

ticular buyers in America and when they offer this magnificent lot of horses to the public it will be the greatest advertisement they have ever had because more people will come together especially to see what W. H. Bayless-Dero & Co. are doing. It will be even a better advertisement than the 17 prizes they won at the last American Royal as many get the idea that an exhibitor has brought all the good ones he has, but no one could go into the Bayless-Dero & Company's importing stable and select the 11 head that won so many prizes because the stable is full of prize winners and prospective prize winners. Since the Belgians have taken such a lead the last few years it is safe to say there will not be a better opportunity offered this winter to secure the ton kind as they are not scarce in this offering and some of them are not yet 3 years old. If looking for Percherons it is safe to say this firm will sell the best black 2-year-old Percheron colt that will be sold this season and few ever were sold under the hammer to equal him. They have some extra fine 3-year-old Percherons, too, that will be sold. For further information send for their catalog.

Editorial News Notes

The Electric Wheel Company of Quincy, Ill., makes low steel wheels. You can put them on the running gear you now have or you can buy a complete Low Wheel Handy Wagon. Such wheels have many advantages which by this time are apparent to every farmer. Write for the free illustrated book. Address Electric Wheel Company, 30 Elm St., Quincy, Ill.

On page 9 appears a new page ad of the Dittman Shoe Company of St. Louis. If you are interested in shoe values and everyone is interested, you will surely read this interesting ad. Dealers sell them in nearly every town. Look up the Dittman dealer in your town. Note in the ad the offer for two cents only of a little book, "Our Flag." Say you saw the offer in this paper.

A man who is making good growing and selling seed corn is Frank J. Rist, Humboldt, Neb. See his ad on page 18. His standing in his home state is shown by the fact that he is president of the Nebraska Pure Seed Growers' association. He is a graduate of the Nebraska School of Agriculture. Get his proposition and his attractive illustrated booklet. Tell him you saw his ad in Farmers Mail and Breeze.

The Chicago Flexible Shaft Company, 213 Ontario St., Chicago, is the largest firm of its kind anywhere. It makes the largest. It makes especially horse clipping and sheep shearing machines, of the "Flexible Shaft" kind. These machines give satisfaction invariably in the hands of those who purchase them. The illustrated catalog of the company is most interesting. Write for a copy of it to above address. Ask also for a copy of the booklet "Why Horses Should be Clipped." See ad on page 23.

Have you received your copy of the Johnson incubator catalog? If not, you have missed seeing the most unique catalog of this season or of any season. It is full of real meat from first to last. It is a real Johnson catalog. It is issued by the company which sells more incubators than any other firm in the world. You ought to know about the Old Trust Incubator. Write for catalog now before you forget it to M. M. Johnson Company, Clay Center, Neb., and say you saw the ad in this paper. See ad on page 37.

One of the best, most reliable firms in the country making farm tools is the Monmouth Plow Company of Monmouth, Ill. They make a variety of implements, including plows, eveners, disc, drills, cultivators, seeders, alfalfa cultivators, ensilage cutters, feed cutters, rakes, stackers, harrows, hay presses, rollers, manure spreaders, spray pumps, farm trucks, gates, cream separators, etc. All are practical, down-to-date, reasonably priced, and sold direct to user. You can't afford to be without the fine catalog, which tells all about the Monmouth line. Write for it to Monmouth Plow Company, 421 S. Main street, Monmouth, Ill. See ad on page 13.

We wish to call our readers' attention to the ad of Orient Chemical Co., 642 Gumbel Bldg., Kansas City, Mo., appearing in this issue. The information they send free is of exceptional value to every owner of an automobile, piano or highly finished furniture. They tell you how you have been destroying the varnish and brilliant factory finish, causing the article to look old and dull in a short time; the cause of the small checking or cracking of the varnish. They also tell you how all this can be prevented; how you can preserve the newness and factory brilliancy of any varnished article; the information is valuable and they will mail it to our readers free. Write them for it. Address as above.

The McClure Company.

For many years the Farmers Handy Wagon Company has been known in all parts of the United States as manufacturers of the famous low-down wagons from which the company's name was derived. Eight years ago we began the manufacture of silos and during the last three years we have devoted our entire energy to perfecting the Saginaw Silo. The old name has been confusing at times and have, therefore, adopted The McClure Company as the name by which the company will be known in the future. There will be no change in the management or policy of the institution and we trust that our relations with the stockmen, dairy-men and farmers of the country will be as pleasant under the new name as they have been under the old one. Write to the company, asking for their book No. 61. Address The McClure Company, Saginaw, Mich.

Endorses Woman's Enterprise.

"Miss Merwin, supervisor of the American College of Dressmaking, 1886 Commerce Bank Bldg., Kansas City, Mo., is well and favorably known by the publisher of Mail and Breeze. She is doing a good work for the women of this country. I recently had the pleasure of being shown through her school. This visit proved to be a great revelation—thousands of women, many from foreign countries, learning to do their own sewing—the most practical solution I have

ABERDEEN-ANGUS.

Angus Bulls For Sale

sired by Rutger Heatherson 3d 118104, Presto 2d 133774 and Professor Kurtz 135693. Ready for service including two choice Blackbirds. Priced right. Satisfaction guaranteed.

W. G. DENTON, DENTON, KANSAS.

ANGUS CATTLE

Bulls and females for sale; singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

RED POLLED CATTLE.

Foster's Red Polls

Write for prices on breeding stock.

C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED BULLS

and heifers by Actor 7781 and Launfal 13221. Cows large, plenty quality, represent best milking families. Also large type POLAND CHINAS. Pigs. Write or come.

CHAS. MORRISON & SON, Phillipsburg, Kan.

JACKS AND JENNETS.

JACKS FOR SALE

Two big boned black jacks with meaty points, coming three and five years old. They are fine performers, good dispositions; both are over 16 hands, "big fellows." Good reasons for selling. Write or come. A. B. HAGUE, Kiowa, Kan.

Jacks and Jennets

One of the largest selections of large Black Mammoth Jacks in the West, 15 to 16 hands standard. I have the large kind that all are looking for; the kind that bring the large high-class mule. Reference: the five banks of Lawrence.

AL. E. SMITH, LAWRENCE, KANSAS.

JACKS AND JENNETS.

Jacks and Saddlers

45 of the biggest bone and best Mammoth Jacks in Kentucky. Saddle stallions, mares, colts and fillies. Write for catalog and visit the Cloverdale Farm. H. T. BROWN & CO., Lexington, Ky.

50 Registered, big-boned, black

JACKS AND JENNETS

from colts to 16 hands high; fine body and style, best breeding. A certificate with each animal sold. Jacks, prices and terms right. Nothing better for Oklahoma and Texas as they are acclimated here.

KINGFISHER VALLEY STOCK FARM,

J. H. Smith, Proprietor, Route 3, Box 17, Kingfisher, Oklahoma.

Mammoth Jacks and Jennets For Sale

From 2 to 5 years—big boned, black Jacks with white points, 15 to 16 hands high. No better bred ones in the country. All of our Missouri, Illinois and Iowa prize winners for sale. Been breeding Jacks for 30 years. Mention this paper and write or come to

DEIERLING & OTTO, QUEEN CITY, MO.

JACKS AT PRIVATE SALE

If you want the good kind, come to one of the oldest breeding barns in the state, where you will find the large, big boned, black fellows that will do your country good, at prices you can afford.

G. M. SCOTT, Rea, Mo.

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seen of the great economic problem—how to meet the increased cost of living. I was particularly pleased to learn that as usual Kansas leads her neighbor states in this important phase of economic efficiency among her women. 1,500 Kansas women have enrolled in Miss Merwin's school, as against Missouri's 1,246, Oklahoma's 892, Nebraska's 771 and Colorado's 648. Her book, "Lessons by Mail," published for free distribution on request, is well worth while to every woman. (Signed) Arthur Capper, publisher.

Mail and Breeze readers are urged to write Miss Merwin at once for a copy of this big free book (a post card will do). Learn how to save half on your home sewing.

The Cheapest Livestock Remedy on the Market.

The average cost of livestock remedies for years has been from 12 to 20 cents a pound, a figure which has kept many farmers from using them, on the belief that they could not afford to feed them. Of course, this question of cost depends upon the benefit derived. If a livestock remedy produces excellent results, saves your stock losses, prevents contagious disease, etc., one could afford to pay even more than 20 cents a pound. It is the results you get from preparations of this character which determine whether they are expensive or economical. But it is no longer necessary to pay 12 to 20 cents a pound for stock remedies. There is one on the market now which costs 5 cents a pound in 100 pound lots and less in larger quantities. And the makers prove its merit before you pay for it. Therefore, you are not only assured of a saving of 100 per cent to 400 per cent in cost, making it one of the cheapest preparations on the market, but it is sold on a guarantee that it must prove satisfactory.

JACKS AND JENNETS.

JACKS AND JENNETS

20 head good black jacks for sale, ages from 2 to 6 years, large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me. Barns 2 miles of town.

PHIL WALKER, Moline, Elk Co., Kan.



Jacks for Cash or Trade

Two Mammoth bred Jacks, 4 and 5 years old. Will sell, worth the money, part terms to right party, or trade for good mares or pure bred or high grade cattle. Address

D. F. McALISTER, Severy, Kansas

Oakland Stock Farm

The jacks on this farm are all raised there. This is strictly a breeding farm, and not an assembling place of other people's breeding. Five went out last week with 25 more still there. We sell the good ones cheaper than anybody, because we raise them. Every jack is guaranteed a breeder. If he is not a breeder he isn't worth thirty cents, and the man who raises him should lose him and not the buyer. Will sell them from \$400.00 up; cash or time.

OAKLAND STOCK FARM, Chillicothe, Mo.

PUREBRED HORSES.

Good Percheron Stallions, Holstein-Friesian Bulls prices right. H. N. HOLDEMAN, Meade, Kan.

Clydesdale Stallions and Mares

I have a number of Clyde Stallions, many of them of my own raising, that I will sell at less than 1/2 of the regular importer's prices. R. O. MILLER, LUCAS, IOWA.

SPECIAL SALE Thirty Days

Registered American bred stallions \$200 to \$600 each. Ten imp. mares in foal \$400 to \$500 each. Imported stallions at from \$900 to \$1,200. One hour's ride from Union Stock Yds., Chicago, Ill. Address

CHAS. A. FINCH, JOLIET, ILLINOIS.

STALLIONS and JACKS

Percherons and Belgians, also Mammoth Jacks and Jennets. State Fair winners and all at prices that will move them. Write today describing your wants.

C. F. COOPER R. 4, Box 4, Hutchinson, Kan.

FOR SALE AT Riverside Stock Farm 10 Head of Young Registered STALLIONS

4 head of Percherons coming 3 years old, weighing from 1650 to 1800 lbs. Any one will make ton horses. 4 head coming 2 years old; all black, weighing from 1500 to 1600; when matured will weigh from 2000 to 2200. They are the big bone kind. 2 standard bred stallions that weigh 1250 and 1280 lbs. 3 head of young Mammoth bred jacks from 15 to 15-1/2, well broke. All these animals will be sold cheap for the quality. Pedigrees and breeding quality guaranteed.

O. L. Thistler & Sons, Chapman, Kan. 150 miles west from Kansas City, Mo., on the main line of the Union Pacific R. R.

to you before you pay. We refer to "Sal Vet," a preparation which in about three years' time has become the most popular and best known remedy on the market, and has a larger sale than all others combined. It is not only the cheapest in price, but sold on a plan that makes every purchaser safe. Success always has its horde of imitators and "knockers" and of course "Sal Vet" has its share. Don't take anybody's word about "Sal Vet." Try it and see for yourself and then you will know how little it costs and how much good it does. All this you can find out before you pay out a cent of money. All you need to do is to write the manufacturers, The S. R. Fell Co., Cleveland, O., tell them how many head of stock you have and they will send you enough "Sal Vet" to last your stock 60 days. If it proves satisfactory at the end of 60 days you pay for it, if not, they cancel the charge. Just read their advertisement on page 2 of this issue, then fill out and mail the coupon. You take no risk whatever. Mail the coupon and mention this paper.

A Harbinger of Spring.

Very few firms can boast of having been actively engaged in business in three centuries (1784-1913), so when we received a few days since, the new spring catalogue of the D. Landreth Seed Company, who own the Bloomsdale Seed Farms, at Bristol, Penn., we sat up and took notice, and found our perusal of their handsome book well worth our while. The accumulated knowledge and experience of a concern such as theirs deserves the recognition of those who wish to get the worth of the money which they devote to seeds, plants and bulbs—for the best is none too good, and they supply the best always. In another part of the paper will be found their advertisement in which they call particular attention to their "Red Rock" Tomato Seed, a packet of which, together with a copy of their catalogue, they will be glad to send gratis to any one upon receipt of a postal. Write to above address for illustrated catalog, mentioning this paper.

Save Money On Fencing.

James Brown, president of the Brown Fence & Wire Co., Cleveland, Ohio, sends an invitation to all our readers to write for his new 1913 catalogue. He promises to save money for chicken raisers on poultry fencing that is five times stronger and more durable than ordinary chicken netting. He also promises to save you money on other kind of wire fencing you may need, for any purpose. And we have known Jim for many years and know that he tells the truth. Brown Fence is sold direct from factory to you, all freight prepaid—satisfaction absolutely guaranteed. Why not write for Brown's new book—see what his new prices are—note how his fences are made and what they are made of. Brown usually does something worth while in his yearly catalogues and we are sure the 1913 editions are up to his standard. If so, you certainly should not miss them. Address a postal to the Brown Fence & Wire Co., Dept. 13, Cleveland, Ohio, and the Bargain Fence Catalogue will come by return mail. See ad on page 24.

January A, B and C List.

How Do You Buy Farm Tools?

This is the time of the year when farmers buy axes, hammers, bits and braces. How do you buy your farm tools? You take chances when you simply ask your dealer for a hammer, a bit, an axe or a tool of any kind. If the article turns out unsatisfactory you might get your money back—you might—if the dealer thinks he can also get his money back. That's taking a chance. Now, you can buy the finest tools in the world by simply asking for Keen Kutter tools. Your dealer buys these tools on the express guarantee and understanding that if he sells you anything bearing the famous Keen Kutter trade mark that is not absolutely perfect, he will cheerfully refund your money, and we, in turn, will protect him. This couldn't be done if the Simmons Hardware Co., of St. Louis, Mo., makers of Keen Kutter tools, was not thoroughly confident about the quality of its wares. Our readers can be assured that when they buy Keen Kutter tools they have bought the best, with an unqualified money-back guarantee in case of the slightest defect. See the Simmons ad on Page 14.

Poisoned Raisins For Gophers

My alfalfa field is badly infested with ground moles. Can you tell me how to get rid of them?—J. W. J., Anadarko, Okla.

Locate their tunnel by the use of a dibber, crowbar, or other pointed instrument. Place in the tunnel a raisin previously poisoned with strychnine. Place a clod or similar object in the opening made by the crowbar, then fill the hole with soil so as to keep the light out of the tunnel. The gopher, passing through his tunnel, will find this poisoned raisin and make an end of himself with it.

To poison a raisin, slit the rind with a pen knife and introduce a very small quantity of strychnine on the end of the knife blade, after which bring the opening of the raisin together so that the poison cannot be detected.

The Knox Manufacturing Company of Pasadena, Calif., manufacture an article which they call "Gophergo", also a very good article for destroying these gophers. Directions come on the cans which contain the poisoned grains and fruits that they sell for poisoning these animals.

C. E. Sanborn, Entomologist, Oklahoma Experiment Station.

We like Mail and Breeze, especially Tom McNeal's editorials.—Floyd Harsh, Jefferson City, Mo.

PUREBRED HORSES.

200 Percherons Stallions and Mares Singmaster & Son, Keosauqua, Iowa

The Best Imported Horses One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors. A. LATIMER WILSON, CRESTON, IOWA.

Truman's Pioneer Stud Farm America's Largest Importers

Shire, Percheron and Belgian Horses

Write for Illustrated Catalogue. TRUMAN'S, Box E, BUSHNELL, ILLINOIS

BIG BONED MULES

37 head of coming 3-year-old mules for sale. About one-half mare mules, run in height from 14 1/2 to 16 hands, all big boned mules. A few of them broke to harness. Will make attractive prices for immediate sale. C. W. HIGGINBOTHAM & SONS, Rossville, Kansas, Shawnee County.

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA



Our horses are big, smooth, fat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co., 201 S. LINCOLN, NEB.

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Forty Percheron Stallions, 2 to 4 years old, blacks, greys and a few bays all registered in the Percheron Society of America. Several of these 2 year olds will now weigh 1,800 to 1,950. Price \$500 to \$1,000. Three, a little higher.

Fifteen Belgian Stallions, 2 to 5 years old, bays and sorrels. Two-year-olds that are weighing a ton. Price, \$500 to \$1,200.

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Ten head Shire Stallions and Mares I will sell at bargain prices.

All of these Stallions have been examined and found to be of pure breeding and sound and certificate as such will go with each horse; if you want a real bargain in an imported or American bred Stallion or Mare come right away as I mean business.

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Percherons and Royal Belgians



We have decided to offer all of our state fair prize winners, 22 stallions and mares for sale. Every one of these horses has been shown and has been a prize winner at the shows of 1912. These stallions and mares will be sold at exceedingly low prices, quality considered.

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BELGIAN and PERCHERON SALE



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Blue Mound, Kansas, Thursday, March 6, 1913

Sale Starts at
12.00 p.m. Sharp.

- 10 Imported Belgian Stallions, 2 to 6 years old.
- 8 Imported Belgian Mares, 2 to 3 years old. 3-year-olds in foal to Imported Horse.
- 2 American-Bred Belgian Mares, 2 and 3 years old. 3-year-old in foal to Imported Horse.
- 6 Imported Percheron Stallions, 2 to 4 years old.

- 1 French Draft Stallion, 4 years old.
- 1 Cross-Bred Stallion, 7 years old.
- 7 Jacks 3 to 6 years old, 14½ to 15 hands.
- 4 Big Jennets.
- 24. Write for Catalog and arrange to come to this Sale.

Auctioneers—Cols. Harriman, Long, Robbins, Macon, Bridges.
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Blue Mound, Linn Co., Kansas

Breeder's Sale 45 Stallions and Mares

Fair Grounds, Beloit, Kan.

The Mitchell County Horse Breeders' Association announce their sale of thirty-six registered Percheron Stallions and Mares, one French Draft Stallion, three German Coach and four Standard-bred Stallions and Mares.

Thursday, March 6, 1913

First prize and sweepstakes winners at the American Royal, Topeka State Fair, Hutchinson State Fair and various County Fairs will be offered without reserve. Catalogues ready February 20th. Address

**CHRIS HANSEN, Beloit, Kansas, or
M. A. SMITH, Cawker City, Kansas**

Lamer's Percheron Sale

Thursday, March 13

44—Mares and Stallions—44

Consisting of

12 Stallions, 3 yrs. old, (Imported) weighing from 1900 to 2100 pounds.

8 Stallions, 1 to 5 yrs. old (Home Bred).

30 Mares and Fillies.

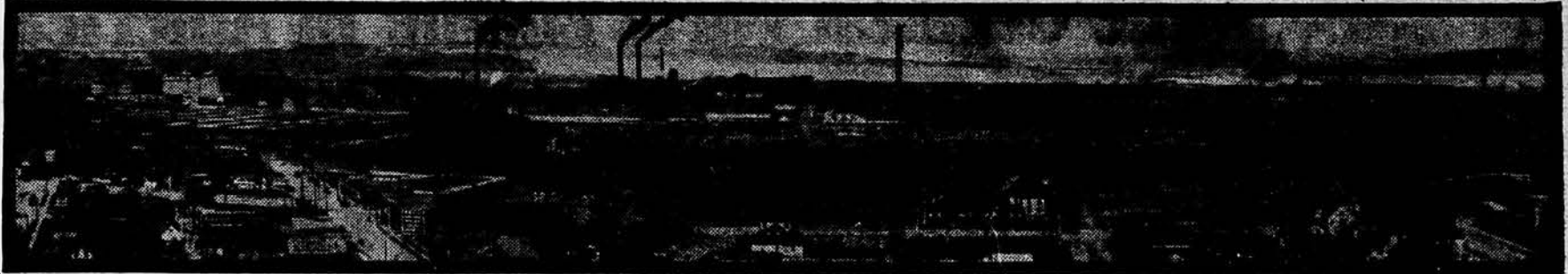
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SALINA, KANSAS

P. S. On Wednesday, March 12th, we sell 100 head Brood Mares, Work Horses and Mules. Shorthorn Cattle (70 head) of C. G. Cochran & Sons, will be sold here on Friday March 14th.

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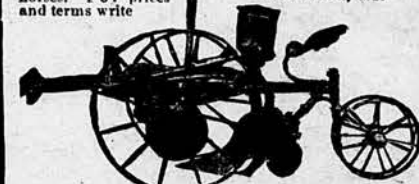
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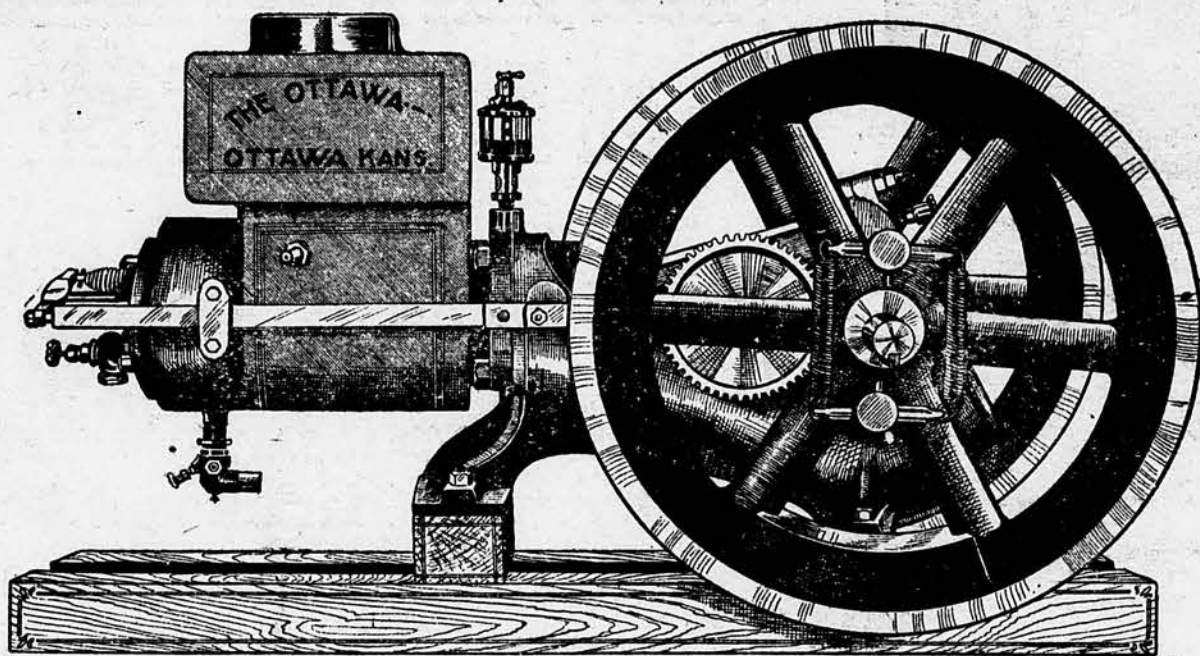


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