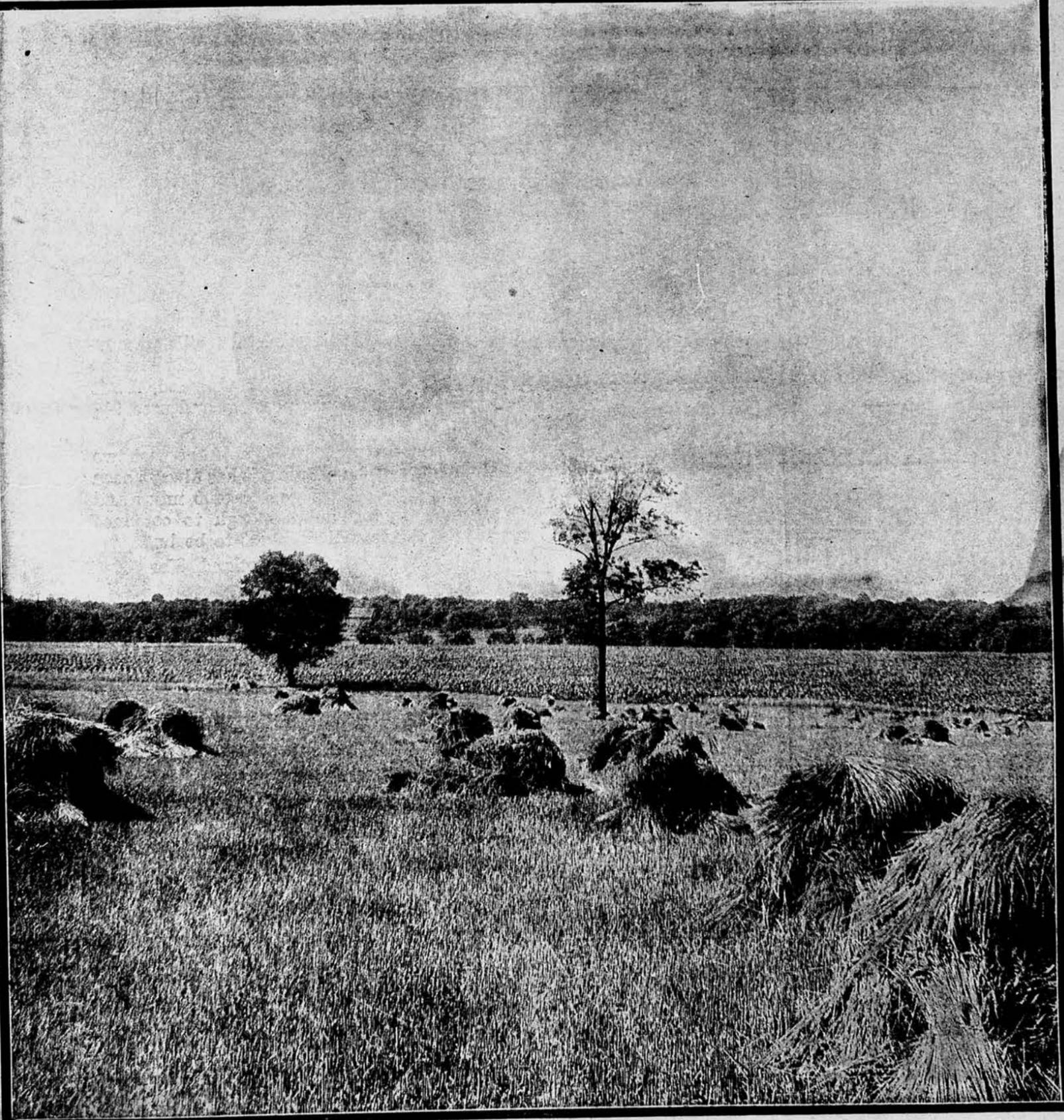


THE FARMERS MAIL AND BREEZE

Volume 43

July 12, 1913

Number 18



"Out There in Kansas"

Double the R. F. D. Circulation of Any Other Kansas Farm Paper

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.

True Co-operation is Simple.

Mr. Editor—True co-operation, tersely stated is, "Each for all of us and all for each of us." We want this idea instilled into the minds and hearts of millions of farmers. Give us enough of this idea and the millennium will dawn. This is the Golden Rule stated in another form. It is a fundamental principle of the Equity Union. The man who lives this principle cannot be a bad man. He will be a good neighbor and an honorable citizen.

To be really effective a farmers' Exchange must have the unflinching support of its members. In order that we may have loyal members we are always busy instilling the principles of the Equity Union into their minds and hearts. But our most potent force for holding our members is our plan of co-operation. This is stated in our text book. I ask every farmer to send 10, 2-cent stamps for the Equity textbook and read our co-operative plan which unites the farmers and keeps them united. We are fighting for a movement that is sure to win. Victory will surely perch on our Banner if we persevere.
Greenville, Ill. C. O. Drayton.

Mitchell Farmers Insure Themselves.

Mr. Editor—Mr. Hatch in his "Jayhawker" column inquires why a mutual company in Kansas can't insure as cheaply as a Nebraska company.

They can and do. In Beloit, Mitchell county, we have one that was organized in 1898. Aside from one small assessment, made as we were starting, it has insured its members for 1 per cent, for each five year period against fire, lightning and tornado. Out of that 1 per cent we have accumulated \$4,000 that we are lending to the banks.

Reasons? Two. One is luck. The other is that we are running a local company only, employ no agent and put on no frills.

Mr. Hatch ought to get busy and organize a Kansas mutual for his county.
Blue Hill, Kan. W. F. Ramsey.

Make the Referendum Universal.

Mr. Editor—I believe Mr. Capper could do an immense amount of good and make his papers very popular by advocating "No law a law till voted by the people." The legislatures to propose the law and the people to vote on every law. Make a universal referendum. This would stop a great deal of corruption in legislatures. The people would soon take away the governor's pardon power and the inheritance tax laws.
Shawnee, Okla. D. Boothe.

Better to Tax the Narrow Tire.

Mr. Editor—Mr. Lampton would forbid the narrow tire. It seems to me that would work a great wrong on the owners of the narrow tire vehicles, compelling them to throw them away or have them made over. I doubt if a law of that kind would stand. By taxing the narrow tire you would be getting paid for the damage and encouraging the use of the wide tire. What I was aiming at was to get some help out of the boys and young men who own a horse and buggy and, no matter what condition the roads are in, drive around and cut them all up. If they are able to own a horse and buggy they are able to contribute \$1 per year for the privilege of using it on the roads which they help wear out with it.
Danville, Kan. M. H. Osborn.

Studying at Home by One Who Does.

Mr. Editor—I read the article in the Mail and Breeze on overloading children with study. I think it a good plan for pupils to bring their books home if they have a quiet place with plenty of good

light and ventilation in which to study. My teacher told me I would have to study my multiplication tables at home. I did and knew them by heart in two weeks. I always studied one lesson at night, consequently had more time to put on my other lessons. I finished up the eighth grade before I was 15 and always got good grades in school.

I am only a young man of 19 now and would still be going to school but for sickness of my parents. However, I have studied at home and surrounded myself with good books and papers, and hope some day to finish my education and make something out of myself.
Hathaway Williams.
Chetopa, Kan.

One more chance for the homeseeker. Next October 350,000 acres of the North Platte forest range, in Grant and Adams counties, Neb., will be thrown open to homestead entry. The area will come under the provisions of the Kinkaid act, allowing homesteaders to file on 640 acres. The points of registration will be determined later.



What a Buick Has Done For Others, a Buick Will Do for You

Records of the past are the best promises for the future.

At the beginning of the 1913 season there were 110,000 Buicks on the road, and every one of those 110,000 Buicks has a record.

It is nothing unusual to see a Buick which has run from 25,000 up to 100,000 miles, and even more. And you never hear of a worn-out Buick.

"I started out in my model 17 Buick in six inches of snow on the morning of February 3rd to post some sale bills. I covered 94.4 miles over roads nobody else had traveled since the snow, and was in high every minute, up hill included. I left my motor running all the time I was posting, and used 9 1/2 gallons of gasoline for the trip.

"I have watched several other makes of cars in the past two years, and every time I have seen a Buick, it has always been doing the work. When a Buick has gone 30,400 miles and still seems as good as new, it is quite enough to convince me that Buicks are built the way they ought to be built."

J. H. Graber, Portland, Kansas.

The Famous Buick Overhead Valve Motor is guaranteed to have more power and more speed than any other type of motor on the market. It will pull stronger on low grade gasoline than any other type of motor ever built and the fuel consumption is less.

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THE FARMERS MAIL

AND BREEZE

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



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WE MUST MAKE KANSAS SOIL TAKE UP MORE RAINWATER

I CONSIDER the conservation of moisture in the soil and its use in crop production, the greatest of all questions confronting Kansas farmers at the present time. We are producing smaller yields today from our land than we did 20 years ago, mainly because our soils are becoming deficient in humus and, therefore, deficient in plant-food nitrogen and capacity to hold water.

The substance which gives to soils their water-holding power is humus, decayed or partially decayed vegetable matter such as corn stalks, wheat straw, weeds, etc., when turned under. The longer land is farmed continuously without returning vegetable matter to the soil the less humus it contains, and the less water it will hold.



W. M. Jardine.

In Kansas our annual rainfall varies from about 16 inches in the extreme western counties to 40, or a little better, in the extreme eastern tier. This amount, except in the western third of the state, would be ample for producing profitable crops every year, if it came at the right time and in the right manner.

HOW WE CAN HOLD THE BIG RAINS.

A year ago, while I was at Lyons, Kan., 9 inches of water fell during three or four hours. It was the first rain of any consequence in that territory for six or eight weeks. At Richfield, Kan., 8 inches of rain fell in three hours approximately one-half of their total yearly average and the first rain that had amounted to anything in six months. Practically all of it was lost in surface run-off. For unless our soils are in a loose, open, porous condition, so they will absorb moisture readily, much of the water precipitated in heavy downpours is lost. By plowing under green-manuring crops such as cowpeas, rye, winter vetch or any kind of green crop, likewise by applying barnyard manure and plowing under straw, corn stalks, etc., we can increase the water-holding capacity and available plant-food of

Use the Straw, Plow Green Stuff Under, Spread Manure—the Way

BY W. M. JARDINE
Kansas Agricultural College

almost any of our soils. The more humus or the more decaying vegetable matter added to a sandy soil, the greater will be its water-holding capacity. A sandy loam—one of our most fertile soils and the easiest to handle—differs mainly from a sandy soil because it contains a greater percentage of humus.

THIS HARDENS THE SOIL SPONGE.

A soil cropped continuously to the same crop will have its humus exhausted. In a Minnesota experiment the native virgin soil was found to contain 3.97 per cent humus, .36 per cent nitrogen and had a water-holding capacity of 62 per cent. A similar soil which had been cropped 23 years, contained 2.59 per cent humus, .19 per cent nitrogen and had a water-holding capacity of 54 per cent.

These figures show we should avoid continuous cropping without regard to restoring vegetable matter to the land, the substance that makes soils hold water, causes mineral plant-food to become soluble and produces plant-food nitrogen.

If Kansas farmers could adopt a more diversified cropping system which would admit of the growing of more livestock, yields could be doubled, at least. Farmers who are working along this line now are producing fully double the average for the state. There are such farmers operating in almost every county.

Our results here, on the agronomy farm of 320 acres, show conclusively what can be done by adding barnyard manure and the plowing under of cowpeas, straw, weeds, cornstalks, etc., to increase the productiveness of the soil. In three years' time our yields have been increased several fold, and at small cost. Our conditions are similar to those of most of the eastern two-thirds of Kansas.

This is our rotation, where it is our purpose to

grow corn, wheat and oats: First, corn; second, oats; third, wheat.

Our oats stubble is plowed deeply as soon as the oat crop is removed, and kept tilled and free from weeds until planting time—October 1-15. After harvesting the wheat the land is double disked and seeded to cowpeas. The cowpeas are plowed under just before frost. During the last three years as much as 1½ to 2 tons to the acre have been turned under.

The cowpeas may be planted either in rows with the corn planter or with the grain drill, part of the feed cups being stopped up, or they may be seeded broadcast. With the drill 1 peck of seed will sow an acre, seeded broadcast 1 bushel will be necessary. Either practice is good. Plowing cowpeas under deeply just before frost, puts the land into excellent condition for corn the next year.

A HUMUS RESTORING ROTATION.

This is our rotation where alfalfa is grown and usually left down four years: A stand of 6 to 8 inches of green alfalfa is plowed under probably 4 or 5 inches deep. In the spring the ground is planted to Kafir or corn, or both, according to the acreage of either crop the farmer wishes to grow. The second year, usually, corn is grown, and wheat drilled in the cornstalks that fall as a third crop after alfalfa. This sequence of crops may be repeated for three more years when the land is prepared and seeded again to alfalfa.

The exact number of crops to grow after alfalfa before putting the land again into this crop, will vary to meet the needs of the farmer and depend on the character of his crops. Usually after plowing up alfalfa the field is cropped to intertilled crops, or wheat, for five or six years before seeding it down again. If possible barnyard manure is applied to the alfalfa just before plowing it under. A light top-dressing, say 4 to 6 tons to the acre, usually is ample. Occasionally when manure is plentiful a light application is given to a corn crop.

In this way the land is given a light dressing of barnyard manure every five or six years and one green crop is plowed under, such as the 6 or 8 inches of green alfalfa. With such a system there is little danger of depleting the soil's humus or destroying its physical condition.



Plowing under cowpeas for green manure at Kansas Agricultural College, thereby increasing the water-holding power and fertility of the soil. The longer land is farmed continuously, without returning vegetable matter to the soil the less water it will hold.

The Farmers Mail and Breeze

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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

HARDSHIPS OF THE FARMER'S LIFE.

Sometime ago an investigation was started in Wisconsin, under the direction I believe of the state agricultural college, for the purpose of getting the facts in regard to farm conditions and farm life.

It was the purpose of the investigation not to pick out isolated cases that were particularly favorable on the one hand or particularly unfavorable on the other.

An average rural town was selected and the investigator set to work to find out from personal contact with all the farmers in that township just how the farmers were living, whether or not they were prospering and if there was a disposition to leave the farms and go the cities and towns, why such a disposition existed.

It is evident that the investigation was thorough so far as that township was concerned. The report is a plain, unvarnished recital of the facts as the investigator found them. These farmers are not poverty stricken. They are enjoying a fair degree of prosperity, and yet it cannot be said that the conditions are satisfactory. Boiled down, the principal trouble seemed to be too much hard, grinding toil and too little opportunity for reading or healthful recreation. Diversified farming makes rather more profit for the farmers as the investigator found, but it adds to the burden of the work, and help is hard to get. The successful farmers, he found, work from daylight till dark and after. Their wives have to work as hard or even harder than their husbands. It is not to be wondered at that they grow weary of these long hours of work and no play. If they go away even for a day they feel that they are neglecting some work that ought to be done and probably have to work that much harder afterward in order to make up for the time lost. So the young men and young women, with a natural longing for change and recreation, go away. The farmers' wives wearied with their burdens that grow heavier instead of lighter as the years go on, conclude that it would be a relief if they could get to town. They encourage their husbands to rent the farms and move to town and cannot be blamed for that, but that means rented farms and deterioration. The farms run down, the buildings get out of repair and the country as a whole suffers.

The only trouble about the report is that it does not seem to suggest a remedy. There is no doubt about the truth of the statements made and you would be likely to find a good many of the same conditions in almost any farming community.

The other day a very intelligent and prosperous farmer called at this office. He has no complaint to make about his financial affairs. He has a half section of good land and I imagine that his note of hand without other security would be amply good at any bank that knows him for \$10,000, or almost any other amount he might want to borrow for

temporary purposes, but he told me that for 30 years he had been tied down to his work practically every day, winter and summer. He is now getting past middle life. The burden of work does not lessen. On the other hand it rather tends to increase. He finds it nearly impossible to employ efficient help. If he is fortunate enough to get a good hand it is only a little while until the man has an opportunity to do better than working for farm wages, even good farm wages, while the ordinary hand that he may be able to hire is apt to be careless and unreliable. He is up against it, to use a slang expression. He must either continue to be a drudge and his wife must be a drudge or they must leave the farm.

All this talk that is sometimes indulged in about modern machinery making the farmer's life one continuous round of ease and joy makes me weary. It is true enough that with modern machinery a farmer can accomplish vastly more than he could accomplish when he used to work with the old clumsy hand tools, but the cost of modern machinery makes it necessary to farm on a more extensive scale in order to make a profit on the increased cost of equipment. So on the whole the man who tries to run a farm and keep it up as it ought to be kept up, while he does not have to do as much heavy labor as his father did in his day, has to put in as many hours. It is not so much the hardness of the toil that is discouraging, as the fact that there is no let up to it. The well managed farm means work practically every day from January first to December thirty-first.

What is the remedy? Mr. Faris of Osage county suggests a co-operative plan. He would have, we will say, an entire township organized as a corporation, the members of the corporation holding stock in proportion to their investment. In the center of the township would be the community house or houses where the members of the farming corporation would live. At convenient places in the township would be stations where necessary supplies would be kept, machinery stored, provender put up to feed the stock kept in that particular section. The farming would be done by steam and electricity for the most part and expense of individual teams and plows eliminated. Trolley lines would be established from the central community to the various stations so that the laborers could be quickly transported to and from their work. The work of one steam plow or rather engine pulling a gang of plows would easily do the work of 30 horses and 10 men. The steam gang plow would only require the time and labor of two men and would do the work better than where the plowing is done with teams of horses. By this system of combination, carried out in all the lines of farming he believes that a vast amount of labor could be saved and waste eliminated. The community feature would supply the social features that are necessarily lacking where each farm family is living by itself.

There may be valid objections to Mr. Faris's plan. Maybe it would not work out so well in practice as it looks on paper, but at least I would like to see it tried.

DOES NOT BELIEVE IT WILL HELP MUCH.

Writing from Gorin, Mo., Dennis Kittle says:

"As to Mr. Doolittle's bill I do not think it would be a success or accomplish what he desires. When a young man is starting out and has little or nothing in the way of capital, then is when he needs help. But if the government will only lend him 60 per cent of the value of the land, how would the young man secure the other 40 per cent. This bill would be a help to those who do not so much need the help.

"In this county it is no trouble to get a loan on improved land at from 5 to 6 per cent with commission. Loans are made to about one-half the value of the land. Twenty-one years ago I bought 80 acres of land at \$23 per acre and had a few head of stock, but money was scarce and cattle and horses were cheap. I got a loan on the farm of \$1,300 at 8 per cent and borrowed \$400 at 8 per cent on personal security. One neighbor had confidence in me and lent me the money needed. In those days if I got in a close place I would have to give security to get \$25 at the bank and pay 12 per cent interest or more. Now I own 300 acres of good land. Of course I am in debt, but I can go to the bank any day and borrow \$3,000 at 7 per cent or all that the bank is permitted to lend to one individual, by simply signing my wife's name on the note as security, and that is because the law requires two names on the note.

"Now if a person owns a farm, large or small and lives on it and lives honestly he should not be compelled to pay any more than Mr. Capper, who is printing so many good papers, but he should pay the same in proportion to his wealth.

"I believe that government loans might be made through the postoffice department, that 1 per cent would pay the necessary expenses and that the loans should be made on 10-years' time and prompt payment of interest required."

THE TARIFF ON SUGAR.

It is certain that the tariff bill now pending is not going to be modified so far as the sugar schedule is concerned. It will provide for a reduction of tariff to 1 cent a pound for three years and free sugar after that.

The other day I was talking with a gentleman

connected with the Garden City sugar factory. While of course his opinions like those of every other man are influenced by self-interest, I believe he honestly believes that free sugar will result in the closing down of every beet sugar factory in this country. He gave some figures that seemed to prove his contention, unless it will be possible to cheapen the cost of production below what it costs at present. There would seem to be only three ways in which the cost can be reduced. Improved machinery may be invented so that with the same amount of labor the factory can turn out a greater amount of sugar. Second, the price paid for labor in the factory may be reduced, or third, the price of beets may be reduced. The present price to the farmer is about \$5 or possibly \$5.50 a ton. If the price were reduced \$1 a ton it would of course very materially reduce the cost of production. Whether beets could be raised at that price by the farmers and they make a profit I do not know.

In a recent speech in the senate, Senator John Sharp Williams of Mississippi said that he had no doubt that free sugar would mean the closing of every sugar factory in the South. Now if that is true and if it will result also in the closing of the beet sugar factories, then the result will not be of benefit to the people of this country. While I have favored free sugar, I am satisfied that if it should result in killing the sugar manufacturing business in this country the final result would not be cheaper sugar. If I were a member of the senate and believed as Senator Williams says he does, that removing all the tariff will destroy the sugar business in this country, I would not vote for the bill. Williams says that he intends to vote for it anyway.

THE CORN PROSPECT AND THE WEATHER.

It is never wise to count your poultry before it is incubated nor to figure on a corn crop in Kansas before August. It looks now as if the state will have a great corn crop, but if the weather continues hot and dry through July that hope will be knocked out. The corn is well set and well worked. A dry June is a good thing for corn, but a dry July, in the words of Abe Furimutter, "Why that is different again."

And what worries us is that we know that there is enough moisture in the atmosphere any time to make a crop if the atmosphere can only be induced to leak at the proper time. I firmly believe that in the time that is to come, the time of discoveries more wonderful even than any of the discoveries of the past, man will be able to command the atmosphere to make it rain at his will. That is, to my mind, nowhere near so improbable as was the statement made 25 or 30 years ago that the time would soon be when men could talk over hundreds of miles of space without even the medium of a wire. We have seen that prediction of science fulfilled and I believe that the man or woman who lives a half century from now will see the elements subjected to the command of man. Rain will come when it is needed and parching drouths, destructive floods, fierce wind storms and winter blizzards will be things of memory.

HOPE OF THE WESTERN COUNTIES.

Answering a letter of inquiry from a man in Illinois the editor of the Gove City Gazette paints rather a somber picture of conditions in that county. For three years the crops have been almost total failures and this year promises nothing better.

And yet I believe that Gove county, like all the counties of western Kansas has great possibilities and that the time will come when its farm lands will produce great crops. It is a parallelogram 30 miles wide and 36 miles long. It is traversed from east to west by two principal streams, the Smoky Hill river and Hackberry creek with their various branches. Big creek also runs through the northeast corner of the county. Its total area is 1,080 square miles. In 1911, one of its driest years, the total rainfall for 12 months amounted to something less than 12 inches. Even that small amount fell within a few weeks so that for the greater part of the year there was a total lack of precipitation. How much of what little rain fell, ran away into the streams and gulches, I do not know, but it is safe to say that a large proportion of it did. That did the country no good. What actually fell and went into the sun-baked earth was not sufficient to produce any sort of a crop. Even such hardy crops as Kafir and milo were almost a total failure. If, however, one-quarter of the nearly 12 inches of rain that fell during the 12 months could have been impounded, it would have been sufficient to fill more than 100 reservoirs in the county, each half mile square and 10 feet deep. That amount of water in reservoirs would have irrigated a large part of the land in the county sufficiently to make the growing of almost any sort of farm crops entirely possible.

Taking into consideration their windings, the Smoky Hill and Hackberry creek each have a total length in the county of perhaps more than 60 miles. If dams could be made say every 2 miles along those streams and then if other dams were made at reasonable intervals along these tributaries and still other dams thrown across the numerous gulches found in the county, it would be possible to form considerably more than 100 great reservoirs well distributed over the county. These numerous reservoirs would not only collect a large part of the surface water that now goes to waste, but would re-

strain the flow of the streams themselves. With more than a hundred reservoirs of that size there would be not only a great deal of water for irrigation purposes but the climate would be greatly modified. The warm winds blowing over the surface would become to a certain extent charged with moisture and the heat would be reduced. Instead of a discouraged and sparse population Gove county could easily sustain a population 20 times as great as it does now and they would be prosperous and contented. Instead of the lands going begging for purchasers they would be worth from \$75 to \$100 an acre.

Of course it is impossible for the people who are there now with their limited means to put in such a system of dams and reservoirs. I have heretofore suggested a plan that I consider feasible and while I do not know that it will do any good to suggest it again, I will do so anyway. If the county of Gove could be permitted to use its credit, in other words, could issue its bonds payable to the government of the United States, bearing say 2 per cent interest in order to pay the necessary expenses of the government, and these bonds could be made the basis for currency issued by the government and lent to Gove county, the proceeds to be used in building the system of dams and reservoirs such as I have mentioned, I believe that it would mean the redemption of that part of the country, the turning of it from discouragement and repeated failure to a land of plenty. I am not so very hopeful that this will be done, but I believe that it could be done.

THE AGE OF THE CHEMIST.

The other day I was talking with a Kansas farmer who is a great reader and student in addition to being a successful farmer. "The next age", said the farmer, "will be the age of the chemist. Domestic animals will be almost entirely done away with and the chemist will have discovered how to combine the elements that go to make up meat and other food without having to go through the barbarous process of murdering innocent animals and by so doing brutalizing the human beings who do the butchering. Why should it be necessary to feed the corn to the uncleanly hog in order that he may turn it into hog meat and then be brutally murdered by man, his master, and eaten? Why should not the elements that make that hog meat be combined by chemical action? With domestic animals eliminated and intensive cultivation of the soil a few acres would produce enough to feed a large family and feed them well. With the doing away with domestic animals the filth of the barnyard, the stable and the slaughter pen also would vanish and the fly would see its finish.

"Our present civilization is both brutal and unsanitary. Men cannot follow the business of slaughtering and eating the lower animals without becoming more or less brutalized. Refinement will become general with the coming of the age of the chemist."

THINK OF THE WORM.

One day a robin hopping over the grass suddenly cocked his head to one side and listened. He heard a noise like a worm. Immediately he drove his bill into the soft earth and yanked the lowly worm from its humble lair. As he flirited it out on the grass a small dickey bird that was right there, Johnny-on-the-spot, pounced on the worm and devoured it before the robin had quite sized up the situation. A man and his precocious son were standing near. "Here, my son", said the father, "is a chance to impress a valuable lesson on your youthful mind. The robin represents honest toil. He dug out that worm. The robber dickey bird represents the predatory interests that rob him of the fruit of his labor. The dickey bird was not entitled to that worm. He is a grafter living off the toil of others. Note this lesson well my son."

"I see where you are right dad," replied the precocious lad, "but there seems to me to be one thing that you overlook. Where does the worm come in in either event? What particular difference does it make to him whether he is swallowed by the robin or by the dickey bird?"

"My son", said the old man after some thought, "I fear that you are disposed to pursue a subject to an unnecessary length. I can't see myself that the worm has much choice in the matter but then he is a blamed fool to be a worm."

EDWIN SNYDER ON THE TARIFF.

Editor Mail and Breeze—Tariff taxation has always been a more or less popular method of collecting money to defray the expenses of government. In its favor there is to be said that it is easily and cheaply collected. It is an indirect tax and largely voluntary. By refusing to buy or use the taxed imported goods a man need not pay any part of this indirect tax. The general policy of the Republican party has been to tax imported manufactured goods sufficiently high to encourage the domestic production. The Democratic policy has been tariff for revenue only and therefore taxed tea, coffee, sugar and such articles as are not largely produced in this country.

McKinley expressed the policy of the Republican party succinctly when he wrote, "Absolute freedom of exchange within our own borders and among our own people is the law of the land. Reasonable taxation and restraint upon those without is the doctrine of enlightened patriotism and the policy of the Republican party."

The theory that tariff duty is added not only to

the cost of the imported article but also to the cost of the domestic article and must be paid by the consumer was effectually exploded by the following story told by Henry Clay: "A free trade orator arrested the regular flow of his eloquence long enough to ask a rather shabbily dressed bystander, 'Don't you know these tariff monopolists are making you pay 6 cents a yard more for that shirt you have on than you should pay for it?'"

"The somewhat embarrassed auditor replied, 'I suppose it is so, as you say so, but I don't quite understand it. I only gave 5 1/2 cents a yard for it.'" The tariff duty on coarse cotton in that day was 6 cents a yard.

Early during the war a heavy import duty was placed on watches. There were none made in this country. The duty stimulated the domestic manufacture. American skill and ingenuity invented machinery with which the cheap labor of the old country could not compete and we made superior watches for one-half the money the imported watches had been selling for.

During the war a heavy duty was placed on steel rails, all of which were imported from England and cost here \$130 per ton. Improved processes and machinery and the great impetus given to their manufacture by the high price, wonderfully increased production. Superior steel rails went down in price \$80 per ton and no more were imported but many were exported.

Were it not for a protective tariff we would likely be still importing steel rails and at a cost far above \$10 per ton. No single article of manufacture that has secured protection sufficient to encourage its domestic production but has been largely reduced in price to the consumer.

EDWIN SNYDER.

Topeka, Kan.

OTHER SIDE OF THE JAPANESE QUESTION.

Editor Mail and Breeze—I have just been reading the article by J. A. Jeffries from Livingston, Calif., in regard to California's alien land bill. I believe that he has failed to get the real idea of the law. Like Mr. Jeffries, I lived for many years in Brown county, Kansas, but came from Logan county to California nearly four years ago. I have found the California people very similar to the Kansas people, a mixed people from nearly every nation on the globe, and not far different in average moral disposition.

The Jap, except in color and other race peculiarities, is a great deal like other people, but by habit or past training he is more saving and accumulates property faster than the average American.

Now the question, "Should one who by our law must necessarily remain a foreigner own land within the United States?" I understand that some of the states of our Union restrict the ownership of land to citizens of the United States and this appears to me to be just. Why, then, is it unjust in California to exclude from land ownership those who must remain foreigners?

If a foreigner is more saving and accumulates property faster, would it not be possible for a foreign nation soon to own a large portion of our land and would this be fair to our own citizens?

In regard to our governor's speech. What is wrong in a governor stating he is willing to abide by the decision of the people who elected him to that office? W. H. HASKINSON. Healdsburg, Calif.

The contention of the Japanese is that he does not belong to the race denied citizenship under our law, in other words that he is an Aryan and not a Mongolian. If he can prove this to the satisfaction of our people then the California law does not apply to him. It must be admitted I think that it is not well to admit a large foreign population which never intends to become identified with the citizenship of this country. A few Japanese have been naturalized but speaking generally the Jap does not intend to give up his citizenship in his own country and in case of trouble between Japan and the United States it is reasonable to suppose the sympathy of the Japanese would be with his own government and not with the country in which he is living as an alien. After all the objection to the Jap is one of race pride. He objects to being classed as belonging to an inferior race.

THE PROPOSED CURRENCY BILL.

Here are a Kansas man's observations on the proposed currency bill:

Editor Mail and Breeze—The committee on banking and currency has formulated 32 questions, and asked for opinions regarding changes that would improve our banking and currency system.

To the first question, "What are the essential defects of our banking and currency system," I answer: The essential defect of our banking and currency system consists in the principle that banks are entirely conducted for private profit.

Congress has full power over our finance system. It is a great wrong that a function of government so very important and far reaching in its influence on the industrial life of the nation should be turned over to private interest, to be exploited for private profit.

Second question: "Enumerate concisely its advantages and disadvantages." The advantages of our banking and currency system are, that we have a staple currency and a good system of exchange by the almost universal use of checks and clearing houses.

The disadvantage is, bankers and private money lenders obtain through interest, an income out of all proportion to their services. Business concerns without special privileges and farmers cannot average 3 per cent net profit while they must pay nearly three times that amount on their own debts. Bankers are permitted to capitalize their credits to earn enormous profits on the money of their depositors.

All the banks and trust companies, in 1911, had capital and surplus of \$3,251,307,116. The value, or capital, of all farms, buildings, implements, and livestock was \$40,991,449,090. More than 12 times greater than the entire banking capital. The number of persons working on farms was more than 141 times greater than the number of bankers and brokers. Bankers draw high salaries and make net profits from 12 to more than 100 per cent.

The farm laborers, renters and farm owners, for their hard labor, obtain from \$375 to \$450 a year.

This is without deducting interest on over 6 billion dollars farm debt, or considering the enormous taxes they pay.

It seems incredible, but is a fact, that bankers and money lenders obtain more through interest than the entire value of the farm products produced in a year by the labor of all the persons who work on farms.

Whether the services to humanity of the farmers or of the money lenders is of greater importance I will not attempt to decide.

Third question: "What are the chief purposes to be attained in an improved system?" Money is an artificial representative of wealth and a medium of exchange. All the money of this country is about 1 dollar to 40 dollars of wealth. There is less than 1 dollar to 20 dollars of debts. This shows that the proportion of money used in business transactions is very small, that the business of the country is largely based on credit.

Interest is a device by which money apparently increases, yet there is no increase in real wealth from interest. Interest rates are treble the amount of the average increase of wealth and are the greatest cause of the high cost of living, and of our periodic panics.

The chief purpose of an improved banking and currency system would be to abolish this opportunity of private corporations or individuals to use credit to obtain interest and prevent any persons or corporations from obtaining more than 3 per cent interest for money lent.

The control of money, the issuing of it, regulating interest and granting credit, should be done by the government for the public good. Parties who have idle money could then obtain a low rate of interest from the public banks, interest would be about one-third what it is now, and the greatest cause of the high cost of living would be removed. Men who have idle money would be impelled to use it in productive enterprise.

The government through its banks should be the great reservoir to which all money would flow when not in use, and from which all supplies would come. Interest would be regulated on a basis of statistics of debts and production, but should always be below the average savings of producers. All borrowers for proper legitimate business would be supplied, providing they could furnish good security. Panics would be impossible.

M. SENN.

Lasita, Kan.

Why Not Simpler Living?

One of the chief reasons why fewer people marry today is the inability of the average man to get a situation that will pay enough to support a family in the present period of growing extravagance and luxury.

We hear a great deal nowadays about the increasing cost of living, but there is reason to believe that costly and extravagant living is more to blame than an increased cost of the necessities of life. From whatever source we seek information, the evidence all tends to show that individually and collectively we have become a nation of spendthrifts. Public economy is almost a lost art. And we have developed a craze of extravagance in dress that, to the extent in which it affects all classes, probably surpasses any similar excess in the world's history.

The worst of it is we are rearing boys and girls in these wrong ideas. The mother in the average home has a mistaken notion that the daughter should be spared anything like real work. She fails to understand how necessary is this discipline for everyone. Parents want their children to be better situated and have more than they themselves had. If this idea were carried out sensibly, as to environment and education, it would be all right, but oftentimes the results would be better if children had to endure some of the trials and hardships that their parents met and overcame.

If more parents would teach their sons and daughters the value of money and would point out to them the good and the wholesome things of life, there would be fewer crimes, fewer wrecked lives, fewer unhappy people in the divorce courts, and fewer girls in houses of shame. If the paupers and criminals, who are a drain on society and an annoyance to all well-intentioned citizens, had been given this training when young, few if any of them would have become public leeches.

Why not a country-wide crusade for saner living, and at least a partial return to the thrift and rules of plain living that characterized our fathers? Why not get back to that dignified simplicity which brings far more health and joy? This does not mean miserliness, cheeseparing, squeezing and saving every possible cent at the expense of comfort, health and self-respect, but it means thrift, wholesome living that will help people into comfortable circumstances, banish the worry of debt and lead to health and happiness.

Would it not be feasible to set aside an hour once a week in the school room for the teaching of thrift as a praiseworthy virtue? Who will say that the millions of boys and girls now growing up will not be vastly more efficient as useful citizens and as producers of wealth, if habits of thrift, and higher ideals in the use of money, are instilled into them.

One thing is certain: If this country is to have permanent prosperity, the people must practice more self-denial. We are losing sight of the best things of life. There must be new standards, new ideals, a new point in view for the well-being of rich and poor alike. We must see in society not an institution designed to promote vulgar display, but rather a sacred thing binding men together in genuine brotherhood.

Arthur Capper

Ways=Means=Results

Worked Out by Mail and Breeze Readers

Anyone Tried Canadian Peas?

Mr. Editor—Has any reader of the Mail and Breeze found Canadian peas a suitable crop for southeastern Kansas? What of the value and quality of feed they produce and how much should they yield an acre? What are the best methods of planting and harvesting them? When should they be planted and when harvested? Please answer through the Mail and Breeze.

W. J. S.

Fulton, Kan.

Describe Your Silage Lifter

Mr. Editor—Knowing the Mail and Breeze is ready to help at all times, I want to say you could confer a blessing on your farmer readers here by asking those who have pit silos to describe their methods of taking out the silage. The silo is the thing for western Kansas but for many the cost is too high to build them of concrete or staves. The pit silo is our best holt, but getting the silage out of them is the big problem. If you can bring out some good ideas and devices they would be instrumental in encouraging many persons to build pit silos.

Samuel Teaford.

Norton, Kan.

New Way to Stop Halter Pullers

Mr. Editor—Often I have seen pictures and read directions on curing the habit of halter pulling in horses, but have found a simple chain halter the best thing yet. I bought 60 feet of No. O flat, steel coil chain and made halters of it to fit the horses that had the pulling habit. I used their leather halters for patterns and made the chain halters the same size. A snap and open link took the place of the buckle on the leather halter. I riveted a piece of leather to the head band to keep the chain from rubbing the top of the head. I used some of the same chain for tying the halters to the manger. These halters are as light as those of leather but they will cure any horse of the pulling habit, once he puts his weight against them a time or two.

P. H.

Larned, Kan.

Sheep a Small-Farm Opportunity

Mr. Editor—I notice someone would like to see more about sheep raising on small farms published in the Mail and Breeze. I believe the small farmer with from 40 to 80 acres in diversified crops, can make sheep raising the most prolific source of his income. This is certainly a proper question to raise in this time of higher prices for meat.

It is better to advise the beginner what not to do. In stocking up don't buy at the lowest possible prices without regard to quality and don't buy stunted or diseased sheep at any price. Do not expect sheep to support themselves on barren glades or treeless and waterless plains and bring desirable results. They cannot thrive without plenty of wholesome water, and shelter from sun, rain or storm, summer or winter. The average sheep raiser, under just laws would be liable to prosecution for cruelty to animals. One practice alone that would make a strong case, is acting on the theory that the morning dew affords enough moisture to meet the needs of sheep through the day.

Great Bend, Kan. C. C. Hotchkiss.

A Rule For Mixing Concrete

Mr. Editor—The first thing is the proper proportion of materials. A simple method for determining this is to apply the "water measurement."

Take a wash tub and a small bucket and find out the number of buckets of sand necessary to fill or nearly fill the tub. Next determine the number of buckets of water that are necessary to entirely fill the voids in sand, being careful in this measurement to bring the water just to the surface of the sand. The number of buckets of water determines the amount of cement for the quantity of sand. Next measure the broken stone or gravel into the tub the same as the sand in the first step, apply the "water measurement" and this gives the amount of the mixture of sand and

cement necessary for the quantity of broken stone used.

For example. Suppose we put 18 buckets of sand into the tub and it takes 6 buckets of water to fill the voids, then the proportion of cement to sand is 6 to 18, or 1 to 3. Again we put 15 buckets of the broken stone into the tub and find that it takes 9 buckets of water to fill the voids, then the proportion of sand to broken stone is 9 to 15, or 3 to 5. Our total mixture, therefore, should consist of 1 part cement, 3 parts sand and 5 parts broken stone.

O. P. Pennock.

Colorado Agricultural College.

An Eastern Kansas Farm Home

They say a young farmer hasn't much of a chance to get a foothold in the more populous agricultural counties of northeastern Kansas where land is high in price. Perhaps this is partly true at the present time. Twenty-two years ago Fred Engler, a reader of the Mail and Breeze, began farming for himself in Shawnee county. He is now the owner of a well stocked 400-acre farm on which is the modern farm home shown elsewhere on this page. The house has an air-pressure water system, furnace heat, and acetylene gas lights. Other buildings on the farm are a machinery shed 16 by 40 feet, a barn for 20 head of



Results of a modest beginning at farming in Shawnee county 22 years ago. Farm home of Fred Engler, an eastern Kansas reader of the Mail and Breeze. The house has an air-pressure water system, furnace, bath and acetylene lights.

horses, 5 milk cows, and having a capacity for 1,200 bushels of grain and 50 tons of hay.

A Marshall County Serum Test

Mr. Editor—The use of hog cholera serum is a much discussed subject. Our experience with it last fall and winter may be of interest. We had a great deal of cholera in our neighborhood and on November 12 one of my neighbors vaccinated his hogs, using the simultaneous method. His hogs never showed signs of cholera. About the same time cholera appeared in my brother's herd of 26 hogs and by December 16, 24 of them had died. He bought two of my neighbor's vaccinated sows and put them in his pens. On December 20 one of his two remaining hogs died between the two vaccinated sows. The other, a boar pig, got well. The two vaccinated sows never showed a sign of sickness and farrowed April 20.

I had 140 hogs at the same time—81 on the south side of the yard and 59 on the north side about 20 rods away. On December 18 those on the south side began showing signs of sickness and one died six days later. On December 26 I shipped them out and two days later vaccinated the remaining 59 according to Dr. Schoenleber's directions. In this herd were 12 18-months-old sows, and 47 fall pigs about 2 months old. On January 13 I vaccinated the pigs again, with serum and virus. The whole lot did well until the middle of February when I lost four of the 12 sows and nine of the pigs. Then came the snow storm early in

March and all that were sick at that time died. I lost no more hogs after that, but all the remaining sows lost their pigs this spring.

Arnold Dwerlkotte.

R. 1, Marysville, Kan.

Windmill Irrigation is Cheap

Mr. Editor—I know by experience water can be pumped from a depth of 50 feet into a reservoir, at a cost of about 1 1/4 cents a hundred barrels of 50 gallons each. I have a 6-inch well with a 3-inch cylinder and an 8-foot windmill wheel. This outfit will, on an average, throw about 500 barrels of water into a reservoir every week. It is on the work of this outfit that I based the foregoing estimate. With a larger well, a 6-inch cylinder, and a 12-foot wheel I believe the cost could be greatly reduced.

I like Mr. Walker's idea of promoting irrigation in western Kansas, as expressed in a recent Mail and Breeze. Like a great many others I felt the special appropriation made by the state would amount to little except to furnish some ready cash to the board members and a few others. But since reading your comment I have a bright hope, great and lasting good may be the final result of this appropriation.

It is my opinion the irrigation board can establish at least 300 experimental pumping plants with the money appropriated. That would give eight or nine to every county in the western third of the state. Let them install these plants and require the farmers to plant the crops, make the reservoirs, and distrib-

blowing is by listing and by plowing with a disk plow, the latter because it leaves the stubble, etc., partly uncovered which breaks the force of the wind at the surface.

I believe disking both before and after plowing will add to rather than detract from the chances of a crop. Early working of any seedbed is best for several reasons. One that should not be overlooked is that the stubble and trash turned under early will have rotted and therefore be available for plant food for the new plant's growth. Again if nature has favored us with rains the early plowing will have settled down and will retain moisture better than fresh plowed open soil.

A man may theorize and experiment in western Kansas and part of the time he hits it with bumper crops. When he does so he begins to take notice of himself and expects his neighbors to do likewise but in another year his rules may not produce the same results at all. My opinion is that western Kansas will prove an exception to any man-made set of rules inside of 10 years.

R. 1, Fowler, Kan. J. S. Hartman.

Subsoiling of Blowing Soils

Mr. Editor—It has always been a problem here to prevent "blowing" of light soils, but still get the ground worked as well as if it had been plowed. After 20 years of farming we have finally developed a system which beats anything else we have tried. In preparing wheat ground we use our listers—preferably the two-wheelers—take off the moldboards and fit on one of the 30-inch lister shares or "ridge busters."

When we first tried this we hitched on six good horses and put this tool down about 8 inches. That was as deep as the horses could pull it the first year but now we are working deeper. We drive so as to leave a very small ridge, or none at all, between furrows. The ground is then disked and harrowed twice.

On our Kafir ground we use an ordinary 14-inch share, turning the casting over and putting the beam under the frame, which allows us to get down from 10 to 12 inches with the same power. In preparing a field that has been in rowed crops we simply subsoil between the old rows and list shallow later.

With our corn ground, which is always heavy bottom land, we cut the stalks, subsoil north and south with the same share we use in wheat ground, and list east and west.

The longer we follow this system the better we like it. The soil holds the moisture, makes cultivation much easier, prevents blowing, and surely gets results. After seeing the difference between our crops in 1911, one of my neighbors subsoiled part of his corn ground last year with such favorable results that he subsoiled the whole of it this spring.

Cunningham, Kan. W. H. Sellon.

What About Alfalfa on Upland?

Mr. Editor—Has any reader of the Mail and Breeze tried to raise alfalfa on upland in the western half of Kansas? That is, land not subirrigated, where the water is 30 to 40 feet deep? If anyone has done this I should like to hear from him through the paper. My reason for asking this is because I have 100 acres of alfalfa on land of that kind here in Oklahoma. It was put out in May, 1912, and as the ground was very weedy we had to cut it twice. After the second cutting, the weather turned dry in the fall so there was no crop.

This spring the alfalfa came out and made a fine stand but the weather has been unusually dry. We cut it May 1, but it made a very light crop. At present (June 21) the growth looks nice and green but is only about 4 inches high. I attribute this to the absence of spring rains. Many tell me my alfalfa, being on upland and 30 feet to water, will never pay me, even if I should obtain a good stand. So I should like to hear from alfalfa growers in western Kansas.

A. W. Mountain View, Okla.

[The Mail and Breeze of June 28, page 6, contained an account of an alfalfa patch in Sherman county, western Kansas, which might be cited to disprove your advisers. This alfalfa, grown on upland 60 feet to water, was 37 inches in height when cut early in June. The patch is 5 years old. The older the stand the farther the roots extend downward and the more moisture they get from the soil.—Ed.]

We all like the Mail and Breeze very well and surely want it to keep coming.—F. G. Hiebert, Hillsboro, Kan.

other. Two good ways of preventing

FARM Power

CONDUCTED FOR FARMERS MAIL AND BREEZE BY E. B. CHALK.

Questions answered about gasoline engines, automobiles, and engine troubles. Give full information about trouble symptoms, kind, type, and make of engine. An answer by mail if self-addressed stamped envelope is enclosed.

When a Gas Engine Pounds.

The gas engine which knocks and pounds is on the way to the junk pile and the operator who tries to get the most out of his engine will investigate any unusual noise and apply the remedy. Most "knocks" are caused by a part becoming loose but this is not always the case, as a bearing which is too tight will make a knock that is hard to detect and the added friction will cause the bearing to heat and make the knock worse. A crank slightly out of round, will, if the bearing is adjusted too tightly, cause the most pronounced knock, and, where the piston-pin bearing of the connecting rod is too tight, it will cause the piston to strike the cylinder walls twice in each revolution of the crank. This, if one is looking for it, may easily be detected but is hard to find if you don't happen to think of it.

To Avoid Trouble With Bearings.

Babbit bearings will allow closer adjustment than brass or bronze, for the reason that the metal is softer. A tight brass bearing will do more harm than the babbit as the brass will more readily score, or rough, the metal it comes in contact with. Before a bearing is adjusted see that it is smooth and that there are no ridges or hollows. Use a file or a strip of emery cloth on the steel, the finer the file the better, and always finish up with emery cloth so that there is a fine polished surface, then wipe off all of the grit. With the babbit bushings, it is best to use a scraper, or a half round file. Do not use emery or emery cloth, as the grit will work in the metal and cause the bearing to heat. A pocket knife makes a fair scraper, but one of the best is a half round file which has been ground down to a cutting edge, as both hands can be used and more power applied.

Cheaper Fuel for Automobiles.

The technical papers are rather enthusiastic over the new motor fuel called motor spirit. It is a petroleum product and it is said will double the output of fuel for gasoline engines, as a given amount of crude oil will yield as much gasoline as it formerly did and an equal amount of the new fuel. The new fuel

CUBS' FOOD

They Thrive on Grape-Nuts.

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"My baby was given up by three doctors who said that the condensed milk on which I had fed her had ruined the child's stomach. One of the doctors told me that the only thing to do would be to try Grape-Nuts, so I got some and prepared it as follows: I soaked 1 1/2 tablespoonfuls in one pint of cold water for half an hour, then I strained off the liquid and mixed 12 teaspoonfuls of this strained Grape-Nuts juice with six teaspoonfuls of rich milk, put in a pinch of salt and a little sugar, warmed it and gave it to baby every two hours.

"In this simple, easy way I saved baby's life and have built her up to a strong, healthy child, rosy and laughing. The food must certainly be perfect to have such a wonderful effect as this. I can truthfully say I think it is the best food in the world to raise delicate babies on and is also a delicious healthful food for grown-ups as we have discovered in our family."

Grape-Nuts is equally valuable to the strong, healthy man or woman. It stands for the true theory of health. "There's a reason," and it is explained in 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.

is described as a yellow liquid, containing 25 per cent more heat than gasoline but has the objection of throwing off a white smoke somewhat as an excess of oil would. It is declared this has no injurious effects on the motor, that it deposits only little more carbon than the gasoline and that the carbon remains soft and can easily be removed. The price will be about 3 cents less than the price of gasoline. A little less cylinder oil can be used with motor spirit than with other fuels.

Tractors For the Smaller Farms.

It has taken the manufacturers a long time to get to it but at last they are putting really light weight tractors on the market. I have always held that for the man farming 80 or 160 acres, the tractor made to pull 10 to 12 plows is too large; that a tractor which will pull three or four plows is what is needed. If a man wanted to grind only 50 bushels of corn at a time it would hardly pay him to buy a large mill. The coming plow, is the tractor capable of pulling three, four, or five plows at most and having the plows arranged so they are carried on the engine frame in such a manner that the engine driver can operate the engine and the plows at the same time. Also it will provide for attaching other machinery and doing all the different kinds of work. A machine like this and another that is suitable for cultivating will be all the power a man would need on the farm. It may not be long until we shall hear the boss say, "Crank up the cultivator (or harrow) and work in the north field today."

The Farm Horse and the Engine.

W. M. Jardine of the Kansas Experiment station is quoted as follows in the Gas Review in regard to the cost of keeping a horse a year: "Sixty dollars a year is approximately the cost to the farmer to care for, maintain and account for depreciation of a horse. These figures are not absolute but they are approximate." The Missouri station is quoted as saying that it costs \$90 a year. The Oklahoma station estimates it costs \$75 to \$100, while the Colorado station places the estimate at \$125 to \$150, depending on locality. It cost the Topeka fire department \$109.27 to buy grain and hay for each of its horses last year; shoeing cost \$20 more and no account is taken of the item of depreciation or interest. Taking this as a basis it would seem that the estimate of Mr. Jardine was a little low. Farmers are among the largest users of power and the amount of power a horse will develop is less than 1 mechanical horsepower. In fact, any of the little 1 and 2 horsepower engines will furnish the power at less expense than the horse. Land will never be cheaper and the only way to get bigger returns from the land is to lessen the cost of production. You can't do this by using cheaper horses, for a poor horse will cost as much to feed as a good one. The only way out seems to be to use mechanical power.

New Books For Farm Readers

Many excellent books on farming and stock raising are being turned out by the publishing houses this year. Farmers Mail and Breeze has received copies of these books by courtesy of the publishers and all are well worth recommending. Following is a list of the newer books and the price at which they are sold. Send orders to the publisher, making mention that you read of the book or books in the Mail and Breeze:

- Making the Farm Pay, by C. C. Bowsfield, published by Forbes & Company, Chicago. Price \$1 net.
- First Principles of Feeding Farm Animals, by C. W. Burkett, published by Orange Judd company, New York City.
- How to Keep Hens for Profit, by C. S. Valentine, published by the MacMillan company, 66 Fifth avenue, New York City. Price 50 cents net.
- School and Home Gardens, by W. H. D. Meier, Ginn & Company, Chicago, Ill. Price 80 cents net.
- How to Keep Bees for Profit, by D. Everett Lyon, published by the MacMillan company, New York City. Price 50 cents net.
- Co-operation in Agriculture, by G. Harold Powell, published by the MacMillan company, New York City. Price \$1.50.
- The Young Farmer; Some Things He Should Know, by Thomas F. Hunt, published by the Orange Judd Company, New York City.
- The Farmer of Tomorrow, by Frederick Irving Anderson, published by the MacMillan company, New York City. Price \$1.50.
- Manual of Practical Farming, by John McLennon, published by the MacMillan company, New York City. 50 cents net.

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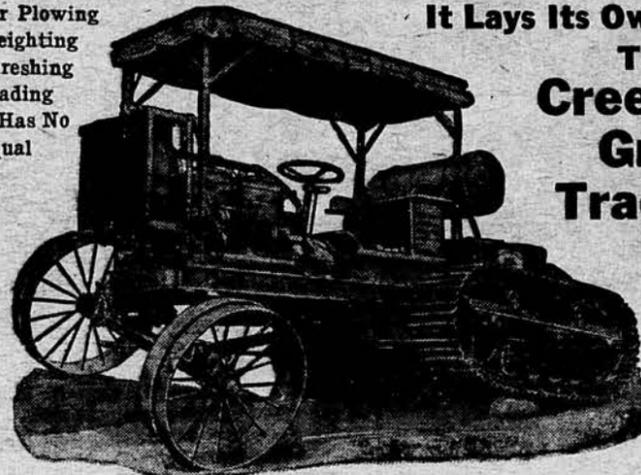


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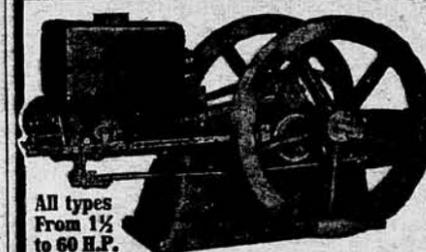
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Find out about "INGECO" Kerosene, Oil and Distillate Engines before you make another move on the engine question—you'll be ahead in money and satisfaction.

International Gas Engine Co.

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100 MONEY MAKING SECRETS.
Every one a winner; 64 pages. Price 10c.
SALINA MAIL ORDER HOUSE.
Dept. B. Salina, Kansas.

Only engine of its kind

Will do more work—do work in more different places—give 60 changes of speed.

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Delivers 100% service. Farmer's power house on wheels. Carries its own line shaft, pulleys, belt tightener and pump jack. Ready for any job, anywhere, at any time. 1 to 27 h.p. Sells from \$22.50 up. Write for particulars.



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Runs Successfully on Either Gasoline, Motor Spirits or Kerosene

We have solved the fuel problem successfully. A simple device permits the use of either Gasoline, Motor Spirits or Kerosene at all speeds and puts our tractor in a class all by itself. A gallon of kerosene runs the Heider Tractor longer than a gallon of gasoline, and develops the same power, thereby doing the same work at less cost than any other tractor on the market.

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Its 4-cylinder motor, light weight, great power, simple operation, economical fuel consumption, make it the best, most practical, all-purpose man tractor manufactured. Investigate before buying. Write today for free book on Tractor Farming. HEIDER MFG. CO., 455 Main St., CARROLL, IOWA.

JAYHAWKER FARM DOIN'S

BY H. C. HATCH, GRIDLEY, KANSAS.

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

Going more than three weeks without rain, as this neighborhood has, makes the farmers wish for moisture. We hope to be thoroughly wet up before this is read.

There is a good deal of moisture in the corn fields and corn is growing well and has a good color. At this stage corn does not need a great deal of moisture; it is when it is tasseling and silking that the ground needs to be well soaked.

We have often heard it argued that showers in a dry time did little good; that they dried up at once leaving the corn more wilted than ever. It is said that nothing but a general rain is of any value in breaking a prolonged drouth. Just the same, we will take all the moisture that comes along, whether in large or small quantities, and be thankful for it.

This week we received a letter and a sample of a plant from a Mail and Breeze reader. He had never in his life seen a cowpea growing but this spring sent to a seed house and got some, which he sowed broadcast. The seed looked so much like beans that he was suspicious and when the peas came up the plants were so like beans that he became convinced he had been "done". The sample he sent was a cowpea showing fine, thrifty growth.

PHOTOGRAPHY REVOLUTIONIZED

BY NEW INVENTION.

Films, Plates and Dark Room
Made Unnecessary.

New Camera Takes Finished
Pictures in Two Minutes.

Mr. Edmond F. Stratton, of New York City, has invented a camera that takes and completes pictures ready to see in two minutes. It does away with the expense of buying films or plates and the trouble, expense and delay of having them developed and pictures printed by a photographer.

This camera, which is called the Gordon Camera, is being manufactured by the Gordon Camera Corporation, 749A Stuyvesant Building, New York, N. Y. As they are desirous of making it known in every locality, they are making a special offer to our readers. For a limited time they will sell Model H at \$5.00 and Model B at \$7.00. The regular price of Model H, which takes pictures 3x4 1/2 inches, is \$8.00, and the regular price of Model B, which takes pictures 3 1/4 x 5 1/2 inches, is \$10.00. Whichever one you order enclose 90 cents additional to cover parcel post, sensitized cards and developing powders.

The sensitized cards are wrapped for daylight loading, and the powders make the developing solution to be put into the developing tank, which is inside the camera. Model H is 5 1/2 x 9 1/2 x 10 inches in size and weighs 3 lbs. 7 oz. Model B, 6 1/2 x 9 x 10 1/2 inches and weighs 4 lbs.

The cost of taking pictures with the Gordon camera is almost nothing in comparison to all other cameras. Extra sensitized cards for Model H can be bought for 2 1/2 cents each (cards for Model B, 3 cents each,) and 10 cents worth of developer will develop over 40 pictures. The Gordon Corporation sells flash-light lamps for \$1.00, which will enable you to take pictures at night in your own parlor, or out of doors.

The operation of this new camera is so simple that any person of ordinary intelligence can easily take pictures with it after reading the directions sent with each one. When ordering a camera under this special offer be sure to mention that you are a reader of THE FARMERS MAIL AND BREEZE.

It was more than 6 inches tall, and stocky. If nothing worse happens, this inquirer is going to have a lot of fine cowpea hay this season.

The cowpea really is a bean and the soy bean is really a pea. That is, so far as looks go. In reality the bean-like cowpea tastes just like a pea and there is no question but that it belongs to the pea family. No bean could make so palatable a quality of hay as this pea.

We are not so well acquainted with the soy bean. Except once, we have never given it a trial on any but a garden scale. That year we planted 4 acres to soy beans, getting them in the ground about June 15. They came up all right but something about them seemed to attract the rabbits. We are satisfied that half the rabbits in the township came on an excursion to our soy bean field and if they had return tickets they had at least a 60-day limit. At any rate, they staid long enough to eat up all the soy beans on that field.

Since then we have heard it is hard to raise soy beans in small quantities on our western prairies. The rabbits eat them almost before they get started. If everyone raised them there might be enough to go around but we don't like to undertake the job of furnishing all the rabbits of the township with soy beans. Their appetites are too good. Rabbits will eat cowpeas to some extent but it is seldom that the damage makes much of a showing on a field of any size. In western Kansas, where the rabbits are thicker, they might do more harm. In this locality the rabbits have never been so numerous as they were before the big snow of 1912.

It has been almost five years since this part of the county has had any bad washing rains. For this reason the roads are in good condition, the grades have not suffered and this summer we have been driving to town on the best roads we have ever traveled over since coming to Kansas. This travel is made better because practically all the culverts are now made of concrete and instead of the 6-inch lift which the plank culvert usually shows, the concrete culvert is hardly noticed when you pass over it.

In the 8 miles between this farm and our market town of Gridley, there are now only two or three plank culverts left, and these will be replaced with concrete as fast as they can be reached. The township board, we understand, has agreed to put all the road money this year into building concrete culverts and will not have any grading done. While it is true that a concrete culvert is fine for automobile travel, we never could see why it was not just as fine for horse drawn vehicles. What is good for one is good for the other. A big load of hay draws much easier over a good automobile road than over a road full of humps and hollows. We are glad to say, however, that the feeling against making bad roads good, just because it would make them good for autos, has about died out. There never was any of this feeling in Gridley territory; there is as little of the moss-back about the folk in this part of Kansas as may be found anywhere in the state.

We have Irish Cobbler, Rural New Yorker, Bliss Triumph, Early Six Weeks, Burbank and Eureka growing in the same field. The land is just the same, the potatoes were planted at the same time and all have been given an equal show. In other years we have had plenty of weeds in our potatoes but this is one of the years when there are no weeds in the field, at least, not yet. And the Eureka is so far ahead of all the other kinds that there is no com-

parison. Is there any other variety of potato not in this list which any of our Kansas readers have tried and found good? If so we should like to know what it is and we will give it a trial next year. We don't want to be standpat if we can help it.

For a number of years the Eureka potato has been our standby. It seemed so much better than any other kind here that we were content with it and tried no other variety. But after growing these potatoes for several years we thought perhaps we were too much standpat in this matter and that some other variety might be better. This year we have six different varieties growing on this farm and are more strongly convinced than ever that Eureka is the best kind.

Last winter a brother had a water system put in on a farm he owns in another county. The water is lifted out of a shallow well and forced about 70 rods to the top of a hill. The elevation must be at least 60 feet. After it had been in use for some time, the man living on the place reported the windmill was lifting pump, platform and all up with every stroke. We went to examine it, thinking perhaps the pump was too short or too long, but inspection showed the pump has a 3-inch cylinder instead of 2 1/2, which should be used when water is to be forced through a pipe. A smaller cylinder was procured and this morning the change was made. In spite of the fact

a hard wind was blowing, the mill did not lift the pump up at all. The fact that the pump had too much to do caused the trouble. Now we knew better than to put a 3-inch cylinder to work on a job like this, having had a little experience with waterworks systems, but the pump was put in by another man. He should have known better but probably he didn't use his thinker.

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.

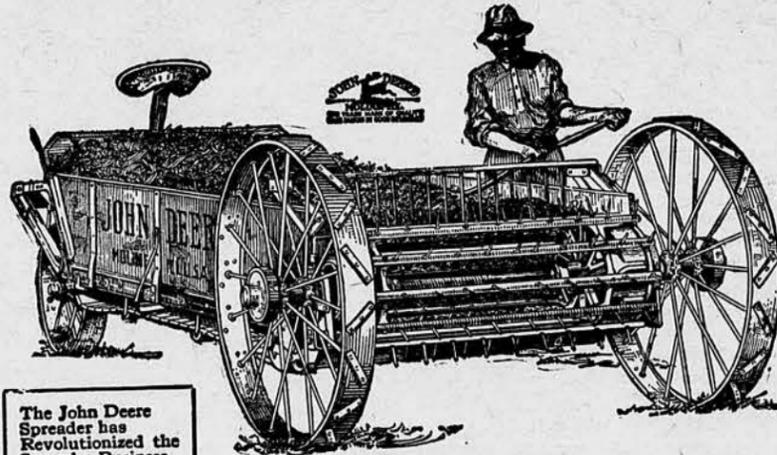
POULTRY CULTURE, a "chicken magazine" full of practical, pertinent, timely and terse talk about the scientific money-making side of poultry raising. Edited by Reese V. Hicks, considered America's greatest poultry expert.

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.

John Deere Spreader

The Spreader with the Beater on the-Axle



The John Deere Spreader has Revolutionized the Spreader Business. Here are Some of the Reasons:

The Low Down Spreader with the Big Drive Wheels

What You Want

Here's your chance to get exactly what you want in a manure spreader.

One that is easy to load, light for your horses free from constant repairing, and one that will last as long as you think it ought to.

What You Get

With a John Deere you get a low-down spreader in which the advantage of big drive wheels is not sacrificed for the low down feature.

You get a spreader that is easy for your horses because it has these big drive wheels, together with roller bearings, few parts, the center of the load comparatively near the horses and evenly distributed over all four wheels.

No clutches to get out of order, no chains to give trouble, no adjustments necessary.

Built with steel frame, securely braced, like modern railway bridges—strong and durable.

Why You Get These Things

Mounting the beater on the axle makes all these things possible in the John Deere Spreader.

It does away with some two hundred trouble-giving parts. It makes the spreader low down. It permits the use of big drive wheels. It does away with clutches, chains and adjustments. It puts all the strain and stress of spreading on the rear axle, where it belongs, not on the sides and frame of the spreader.

It does a lot of other good things, too. They are fully illustrated and described in our new spreader book.

Get this Spreader Book

It tells how the John Deere Spreader is made and why it is made that way. It contains illustrations of the working parts and colored pictures of the John Deere Spreader in the field. It also has valuable information in regard to storing, handling and applying manure to the land.

Get one of these books free, by asking us for our spreader book, Y 12



John Deere Plow Co., Moline, Illinois

A Boy Breeder of Horses

And How He Saved to Buy a Stallion

(Part of it being a personal letter to the editor.)

Editor's Note.—It sometimes surprises the old codgers to find there is depth and purpose in a boy, as well as a noble appetite for grub. More old codgers would find this out if they would give the boys half a chance to develop an interest in the farm, or specialize in growing corn, or raising a steer calf, or pig, as their very own. The writer of this comprehensive little sketch on the origin of the Percheron horse, is a son of C. W. Lamer, the Kansas horseman. He didn't intend the personal part to be printed. This year he has become a breeder of horses himself, having bought his first stallion. He is getting his education at Kansas Agricultural college, and the first thing you know will be showing some of his stuff in the show ring.

I AM going to be a farmer and have started the foundation for a family of horses that I hope to be proud of some day.

I have always wanted to own a good Percheron stallion and for 10 years saved my money to buy one. Last year when my father left for the old country, I gave him all the money I had saved and told him to buy me the best Percheron horse he could get. In this way I became the owner of Kangourou (92360) 91241. This horse was 3 years old May 25 and weighs



H. B. Lamer.

1 ton and 40 pounds. He is now at the head of our stud on the Pioneer Stock Farm at Lindsborg, McPherson county, and we have 50 mares engaged to breed to him this season.

As I have found the history of the Percheron horse interesting I have written out some of the facts for the Mail and Breeze, thinking other farm boys who read the paper will find them as interesting as I have, and maybe, other readers who may not be acquainted with Percheron history.

Horses were first brought to France for the purpose of war. In 732 when the French knights defeated the Saracens they captured their horses. These were of the Arabian type. The French crossed their own mares with the Arabian stud acquired from the Saracens and continued this breeding until 1826, laying in this way the foundation for a horse that should have plenty of action, quality and strength.

After the railroads came, and travel by coach grew less, there arose a demand

for heavier horses. This led to the use of Flemish stallions, the heaviest horses the French people had at that time. The province of La Perche being favorable for the growth of strong active horses the Percheron type was originated in this way. Though the people of France raise several famous breeds of horses and export them to America, none compares with the Percheron in popularity or in the number exported.

The imported Percheron draft horse comes from the old province of La Perche. This province is in the north central part of France and is about 100 miles square. The land is very rolling and has a poor water supply, but is noted for its excellent grass and abundant crops. The climate is mild and excellent for stock raising.

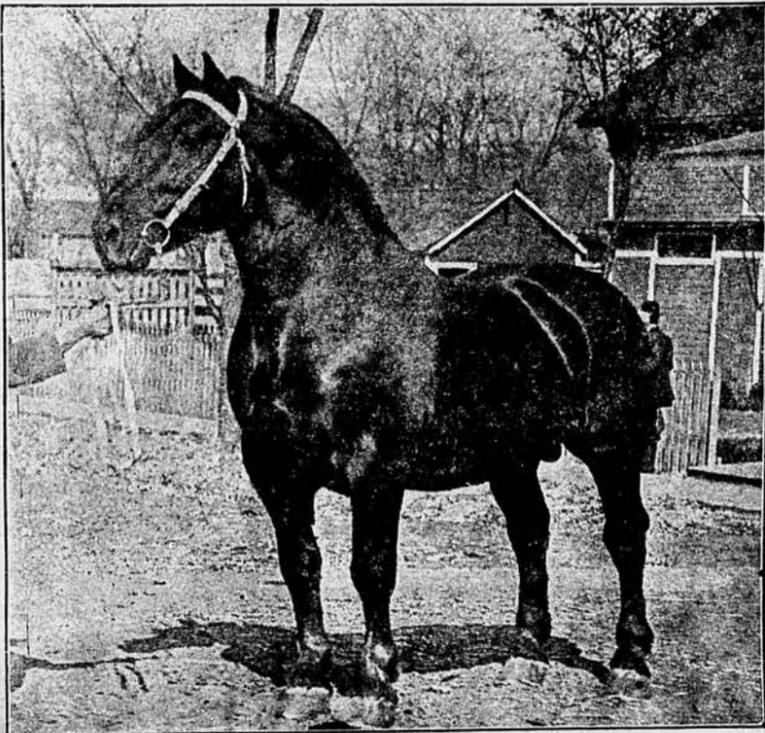
About 80 or 90 years ago the object of the horse breeders of La Perche was to produce a draft horse of medium weight which could pull a heavy load at a rapid rate. At this period the people of France wanted a strong, rangy horse of extra good action, full of vigor and gray in color. As a horse with these qualities the Percheron was in great favor with the farmers of France. But the demand in America was for the heavier, blockier type, for a horse that had a good flat bone. This demand led to the development of the Percheron horse of the present time which stands from 15 to 17 hands high, weighs from 1,700 to 2,200 pounds, and has a good flat bone and plenty of conformation. The Percheron horse of today is the best type obtainable for farm purposes and therefore finds a good market.

The French government inspects all horses that stand in France. A colt must be more than 30 months old before he may be used for public service. If a colt fails to pass inspection it is branded with the letter R, which means refused. The French Percheron society uses the brand SP.

The first importation of Percherons to America was made in 1839 by Edward Harris of New Jersey. The next in 1851 by Fullington & Martin of Ohio. The most noted horse brought over in this last named importation was Louis Napoleon. In 1856 he was sold to a Mr. Dillon of Normal, Ill. This horse was 15½ hands high and weighed about 1,600 pounds. He is said to have been one of the most noted horses ever brought to America because of his breeding and to have sired 400 studs that were used successively.

There is good authority for the statement that in 1866 there were 5,000 Per-

(Continued on Page 15.)



A picture of Young Lamer's stallion was to have accompanied this article but the one taken was a failure. In order to show the Percheron type this picture of another horse has been substituted.

Don't You Scoop!

Get this machine to unload and crib your corn and small grain. You can buy new machines—but you can't buy a new back or a new body—remember that!



LET THE LITTLE GIANT Crib Your Corn

Save Your Back, Your Time and Your Money

The "LITTLE GIANT" is the famous 4-wheel Green Machine seen everywhere at husking time. It is the only sensible practical way to get the corn and small grain into cribs. It does away with scooping—lets huskers do 20 per cent more work—gives you a chance to rest—saves lots of time, saves your back and arms—and saves many dollars that you never figured on. You can't imagine what a wonderful machine the "LITTLE GIANT" is or the wonderful work it does until you see it in action or read about it. Shelled corn and silk in the crib means rattle and rattle means profit. Our new screen feature in bottom section separates it from ear corn and saves it for feeding. Write us at once for catalog explaining it in detail and we'll tell you where you can see one.

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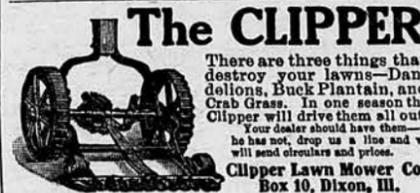
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Big 40 to 80 page illustrated monthly magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10¢. Poultry Culture, 800 Jackson, Topeka, Kan.



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

Our readers are invited to consult Dr. Schoenleber in an advisory way in case of trouble with livestock. Be sure to state the history of the case, location of the disease and the conditions under which animal has been kept.

Ailing Pigs.

I have some pigs nearly 2 months old and for two or three weeks one of them has been weak in the hindparts, part of the time dragging its hind feet along.

Paralysis of the hindparts is a common condition in pigs. The actual cause has not been determined. Give 10 grains of powdered nux vomica in a little milk to the affected pigs daily.

Udder Infection.

About a week ago one of my cows began giving lumpy milk and on examining her udder found large lumps in it.

Your cows have an infectious form of inflammation of the udder. It usually results in the destruction of the affected parts. These cows should be kept separate from the other cows and be milked last.

Lump Jaw.

Can lump jaw be cured and is milk from a heifer affected with it good to use? Would a calf from such a cow be liable to have the disease?

Lump jaw in cattle is caused by a fungus which enters the animal's body through decayed teeth or other wounds. It is not contagious and seldom passes through the system.

Eye Infection.

I have a Mexican mare pony that got her eye hurt about a month ago. It ran for a while and then seemed to be all right but I have since discovered a pink looking spot in the right corner of the eye.

Treat the pink looking spot on the horse's eye by placing in the eye daily, a small piece of cotton saturated with the following solution: Protargol, 10 grains, and rain water sufficient to make 1 ounce.

Cholera Symptoms.

A disease has broken out in several bunches of hogs in this locality. They first get off feed, stand around, get thin in flesh, and die in the course of about two weeks.

From the description of the symptoms I am strongly of the opinion your hogs are affected with the intestinal form of hog cholera. I would suggest you have them treated by the serum alone method until the disease is controlled and that in the course of a month or six weeks you use the simultaneous method of vaccination.

Kidney Trouble.

I have a mare that I think had a touch of the horse disease last summer. Ever since that time she has been urinating frequently. It comes in small quantities, sometimes clear, at other times dark, and often it is bloody.

Your mare is undoubtedly affected with inflammation of the kidneys and as the condition is of old standing the chances of recovery are rather poor.

would suggest you give the mare with her feed two powders daily, each having the following composition: Boric acid, 1 dram; tannic acid, 1 dram; powdered nux vomica 1 dram.

Ailing Pigs.

I have some 2-months-old pigs, the largest of which break down in their hindparts like hogs with kidney worms.

It has never been positively determined exactly what causes paralysis of the hindquarters in pigs. It may be due to intestinal worms, kidney worms, or tuberculosis of the spinal cord.

Inflamed Kidneys.

I have a horse that had some trouble with his kidneys last summer, passing water very frequently. He got better through the winter but is now getting worse again.

From the description of the symptoms I am inclined to believe possibly your horse may be affected with acute inflammation of the kidneys.

Tannic acid, 1 dram. Boric acid, 1 dram. Powdered nux vomica, 1 dram.

Keep this up for three or four weeks as it may benefit the animal.

Treatment for Stiffness.

What can I do for a horse that is more or less stiff and is falling off in flesh? He is 12 years old and weighs 1,250 pounds.

For the unthrifty condition of your horse have a graduate veterinarian make an examination of the teeth. In addition you should feed the horse a large tablespoonful of powdered saltpeter twice daily.

Tongue Infection.

I have a 3-year-old Jersey cow that began to lick or lap water before she freshened. Her tongue has black spots on it.

I don't think that the black spots on the cow's tongue indicate any particular disease. You should have your cow tested for tuberculosis and if she is free from this condition a good tonic powder would probably be of value.

Powdered nux vomica.....2 ounces Powdered ginger.....3 ounces Powdered sulphate of iron.....2 ounces

Add enough artificial Carlsbad salts to make 1 pound. Give her 2 tablespoonsful twice per day in the feed.

We look for the Mail and Breeze as regularly as we do Sunday.—H. D. Howell, Hunter, Kan.

Write for this Free Book and grow rich Baling Hay!

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

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Each year hay press buyers are more careful. They demand better machines with bigger tonnage. Yet each year Sandwich sales have gone ahead—by leaps and bounds.

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Gas Engine is high grade, hopper cooled



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Simple Time-Tried Self Feeder

Rises high up out of the way of the operator and will stand hard crowding. The motion is slow, steady, sure and strong.

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Get My Special Engine and Pump-Jack Combination Offer—NOW! Yes, sir. Do it today. Don't wait a minute. Just sit right down and drop me a postal and say, "Galloway, send me your special pumping engine offer."

I'll Save You \$25 to \$300 on the first cost alone. I'll save you \$25 to \$300 on the best pumping outfit made.

Write Today for My Catalog and Special 1913 Business Proposition Here's a final clincher. My 1913 Special Business Proposition. I've got a new plan which will help you get your engine partly or entirely without cost to you in the end.



FREE Service Department. When it comes to help or information for proper installing to get the most profit out of your engine, just call on my Service Department composed of engine experts.

The PERFECT CORN HARVESTER

SOLD DIRECTLY TO FARMERS \$18.00--Freight Prepaid



The correctly adjusted machine to cut for shock or silo. Works in all kinds of corn and on all kinds of soil. No breaking off of ears or pulling of stalks. Absolutely safe. Cut from five to ten acres a day with one man and one horse.

Kerrick, Ill., Nov. 18, 1912.
I take great pleasure in recommending the Perfect Corn Harvester to anyone who has corn to cut. I used two machines purchased from you in corn that would make 60 bushels per acre. Two machines, two men and two mules cut 40 acres of corn averaging 60 bushels per acre and cut 96 shocks per day. 16 hills square, and fed three car load of steers every day, besides doing other chores, and were all through with their day's work by six o'clock every night. I would be glad to have you refer anyone to me for any further information. Very truly, L. H. Kerrick.

Send today for booklet on "Cutting Shock of Silo Corn."
LOVE MANUFACTURING COMPANY, Dept. 18, Lincoln, Ill.

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.

Streaky butter is one result of working it when too soft.

The runty or pot-bellied calf is a product of irregular or over feeding.

When necessary to mix new milk with that of a former milking, it is best to let the new milk cool first.

A wet blanket or canvas over the cans on the way to town will add that much to the quality of cream or milk.

None of the new fangled churns have yet put the old fashioned barrel churn on the shelf.

The cow left to skimp along on short feed while dry will be that much longer in coming to her best milk flow after she freshens.

This is a good time to put out root crops in vacant spaces. Rutabagas, mangels, sugar beets, and turnips all are good and will furnish succulent feed six or seven months hence when there is no other to be had except from a silo.

The cream buyer gets a slice of profit, the railroad gets two slices, and the creamery and merchant each get one slice, making in all five slices of profit between the farmer and consumer.—Mrs. B. M., Hays, Kan.

A Separate Well Wheel For the Cream. [Prize Letter.]

Mr. Editor—For 20 years we have been hanging our cream in the well but it was not until this season that I adopted an idea that makes an easy job of it. My cream can holds about 3 gallons and when full it was a difficult task to raise or lower it. I now have a pulley put up on the frame near the pulley for the water bucket and it is an easy matter to draw up the cream can or anything else I may want to hang down the well to keep cool.

I have a large spike near the corner of the curb and after lowering the can the rope is swung over this spike to hold the can over on one side out of the way of the water bucket.

In buying a new cream can, get one with a cover that comes down over the outside. You can then fill up the can and no rain or dripping water can get in as with covers that fit down on the inside. Have a small stand near the well on which to set your cream can and you will be surprised how much it will save your back. I have a second stand near the screen door and when my hands are full I can empty one to open the door, without stooping.

To prevent cream spattering while churning I melted the bottom and small round cover from a quart tin can. This was set over the opening for the dash with the large opening down. There is no more spattering now and the tin can is easily washed.

I have found that to fill milk crocks half full or less, will give me more cream than if the crock were filled up. That is, two crocks half full will yield more cream than one crock full of milk. Yes, it makes more work washing crocks but it pays.

I have a four-legged milk stool with the seat long enough to hold the bucket. I sit on the stool sidewise as in riding horseback. This leaves the hands free to do the milking and with the right limb one can hold the pail firmly by pressing it against the strip on the outer edge of the seat. Sitting this way, one can also grab the pail and jump instantly in case of necessity.

Hattie Weld Andrews, Greeley, Kan.

Please renew my subscription to the most valued Mail and Breeze.—Walter Flick, R. 1, Hunnewell, Kan.

Easy to Run



Simple to Set Up
A 10 year old boy could set up a Blizzards Ensilage Cutter. Comes in three pieces. Can't be put together wrong. Self feed table. Almost runs itself. Big capacity with small power. The

BLIZZARD Ensilage Cutter

elevates to any height in any direction. Rigidly guaranteed. Lasts many years without repair expense.

These Books Free
(1) "Why Silage Pays"—(2) 1913 Catalog—(3) "What Users Say."
Write today for any or all of these books mentioning whether or not you have silo.

The Jos. Dick Mfg. Co. 1456 Tuscarawas St. Canton, Ohio

1913 Blizzards Why Silage Pays What Users Say

Saves Time!

Only Filler whose power and capacity ratings are made on a gasoline engine basis. Don't be deceived by steam ratings and lose many hours by having to operate a steam-rated Filler with Gas Power. The

Whirlwind Silo Filler

has strongly braced, under-trussed frame; patent start, stop and reverse mechanism. Fan case independent of working parts. Knife Head and Blower Wheel one solid, single piece. Adjustable front-plate. Feed table just waist high. No table strain on working parts. A tip-top, high-quality machine throughout, and priced right. Send postal for latest Catalog 51.

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(Formerly Farmers Handy Wagon Company)
Manufacturers of the FAMOUS SAGINAW SILO
Saginaw, Mich. Cairo, Ill. Des Moines, Iowa
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(70)



BUTLER Grain Bin STEEL

Corrugated. Can't Cave In. Rat-Proof. Fire-Proof.
Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

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Champion Silos for Big Profits

That's what farmers make who own Champion silos because the silo is perfect in construction. It's ahead of others in improvements and is sold at factory prices on our special proposition. Valuable Information Free. Get it before you buy. Find out what other farmers are doing. Get proof that Champion silos are bigger value for the money than any other.

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DE LAVAL CREAM SEPARATORS

Save Much Time and Labor in Summer

BESIDES greatly increasing the quantity and improving the quality of cream and butter DE LAVAL cream separators save much valuable time and labor.

This great saving of time and labor counts for more in summer than at any other season and often alone saves the cost of a separator, aside from all its other advantages.

As compared with any kind of gravity setting the saving of man's time and labor and usually woman's drudgery with a DE LAVAL is a big item in its favor.

As compared with other separators the DE LAVAL saves much time and labor by its greater capacity, easier running, easier handling, easier cleaning and freedom from need of adjustment or repair.

These are merely some of the advantages which make a DE LAVAL cream separator the best of all summer farm investments, as every DE LAVAL agent will be glad to explain and demonstrate to anyone at all interested.

See the nearest DE LAVAL agent at once or if you do not know him write us direct for any desired information.



THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

BEATRICE CREAM SEPARATORS



Here's the separator that solves the price problem. Sells for \$25 to \$40 less than other standard machines. The connecting link between separator efficiency and reasonable price.

Another point: Our patented device cleans the machine in less than 2 minutes. Will save you time—will save you money—will save you cream. Skims close and clean. Easy to run—hard to wear out. Second to none.

Sold by dealers. Ask them or write us for free booklets and full particulars. Address nearest office below.

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Topeka, Kan. Oklahoma City, Okla.

Save \$25 to \$40.

Bigger Silo Profits

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The HINGE-DOOR SILO

Two famous makes. Best construction in both. Address Dept. 27, Continental Creamery Co. Topeka, Kan. State Agents General Office: WOODS BROS. SILO & MFG. CO., Lincoln, Neb.

SEND IN YOUR NAME

Only \$2 Down One Year to Pay!

\$24 Buys the New Butter-Fly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 90 qts. per hour. Made also in four larger sizes up to 5-12 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free trial folder and "direct-from-factory" offer. Buy from the manufacturer and save half.

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Shoo-Fly THE ANIMALS' FRIEND



Keeps flies and other insects off of animals—in barn or pasture—longer than any imitation. Used and endorsed since 1885 by leading dairymen and farmers.

\$1 WORTH SAVES \$20-00

in milk and flesh on each cow in a single season. Heals sores, stops itching and prevents infection. Nothing better for galls. Kills lice and mites in poultry houses.

SEND \$1. If your dealer can't supply you. We'll send enough Shoo-Fly to protect 200 cows, also our 3-tube gravity sprayer without extra charge. Money back if not satisfactory. Name Express Office. Booklet FREE. Special terms to agents.

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Editor knows from experience that Shoo-Fly is O. K.

New Silo Book FREE



It's full of valuable information for every farmer and stock raiser. Tells all about the special and exclusive features of the famous

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Twenty-Five Thousand in use. Write and learn why it is best and cheapest and get our New Silo Book Free.

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Distributors, Paper Ensilage Cutter. The largest makers of Silos in the world. Address nearest factory: 57 Union Bldg., Anderson, Ind. Indiana Bldg., Des Moines, Ia. Silo Bldg., Kansas City, Mo.

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Different and superior. Operate with less power, do more work at less cost. Only silo filler carrying the famous center-shear cut, and many other exclusive features. Catalog explains completely this wonderful feature and our extra-capacity, power-saving line. Send for it. Address Dept. 81



KALAMAZOO TANK & SILO CO.
KALAMAZOO, MICH.
Branches: Minneapolis, Minn.—No. Kansas City, Mo.—No. Fort Worth, Texas.

The Awakening.

[Written for Farmers Mail and Breeze.]

I've been in the city six months now
I'm tired of looking for work
Tired of worry, wondering how,
I'm going to pay my board;
Tired of reading the want column page,
Tired of life, that's all,
It seems as though I'd lived an age
Since I came here just last fall.

I've been dreaming a dream of the old
home place
Before I began to roam
And in my dreams my mother's face
Smiled and called me home.
Strong though I am, the tears will come,
Despair is plain in my face;
But I've hardly the nerve to turn and run,
Admitting failure—disgrace.

There's a place in this world for everyone
And the city claims its share,
But I'm going back to the old farm home
Where there's plenty to eat and to spare.
I'm going back where the grass is green,
Away from the city's noise,
Away from this mere existence,
Back to life and its joys.

—C. H. Bailey,
1005 Washington St., Kansas City, Mo.

Gilman Wanted in Corn Work

J. M. GILMAN, of Leavenworth county, a not infrequent contributor to the Mail and Breeze, has been appointed an assistant corn investigator in the department of agriculture at Washington.



J. M. Gilman.

The position pays a salary of \$2,500 a year. Mr. Gilman will assist C. P. Hartley, also a Kansan, who has charge of this work in the department. As a farmer in Leavenworth county, near Springdale, Mr. Gilman has made more than a statewide reputation as a corn breeder.

He has been an active member and officer of the Kansas Corn Breeders' association and, with one or two other members of that organization, has frequently maintained Kansas's reputation as a producer of improved seed corn by sending prize-winning exhibits to the big shows. His sons have won prizes at the state corn show and in the Capper contests.

Protection Against Typhoid

For years Mr. Gilman has tested, studied and experimented with a large number of field crops on his farm. His last article written for the Mail and Breeze and published early in the spring, was based on a field study of the sorghums. Years ago Mr. Gilman was county superintendent of schools in Leavenworth county and a good one. He represented the country districts of Leavenworth in the last legislature.

It used to be a serious question what caused typhoid fever. Now we know its source is a germ carried from one place to another, or from one person to another, usually in water or milk. Town people have to watch the milk supply. Generally their water supply is tested for them. Farm folks have to watch their water supply themselves. Drainage by ground seepage of slop water, privies, or manure piles, into the water supply creates a typhoid well. Milk from a farm where there is a case of typhoid fever, or where the cows are drinking typhoid water, is almost sure to carry with it the germs of the disease. Flies—often transmit the germs from infected centers; on their feet.

Statistics of the state board of health show there is more typhoid fever in the country, in proportion to population, than in town. This may seem strange, but in the country all the drinking water comes from wells. The germs of typhoid fever which you swallow, may come from the next farm, or from across a range of hills 20 or 30 miles away. If the same vein of water is tapped by the wells of several different families every family will swallow the typhoid germs, and more than likely someone will be taken sick. If there is an epidemic of typhoid fever in your neighborhood, or even one or two cases, it will be well to look after your water supply.

Boiling is a sure way of making polluted water safe, but it is rather slow. Dr. Allen McLaughlin of the United States public health service has found the best and cheapest way of disinfecting water is with chloride of lime. He says: "With reasonably clear water from 3-10 to 6-10 of 1 part of available chlorine to 1 million parts of water will destroy germs like those of cholera,

typhoid, dysentery, and colon bacillus. This is a very small quantity, about 1/8 of a grain to a gallon. Chloride of lime will not change the color of turbid water, but its power to promptly destroy disease germs makes it invaluable, especially in case of an epidemic due to polluted water."

It will be well when using the chloride of lime to thoroughly dissolve and strain it, as it has a tendency to remain in small lumps on the surface of the water. This is the typhoid season, and for the sake of health it will be well to take every precaution.

Why We Need a Twine Plant

Mr. Editor—Have you noticed that farmers are compelled to pay a very high price for binder twine this year? Last year we bought penitentiary twine for 7 cents a pound and trust twine was selling for 8 cents. This year I could not get state twine and had to pay 12 cents a pound for trust twine, an increase of 5 cents a pound over last year.

Last fall one of our local dealers who handles trust twine, advised me to buy my 1913 supply of twine then as I would have to pay more than 10 cents a pound this year. Now I should like to know how he knew the state twine plant would be destroyed this year. When will the state twine plant be in operation again?

H. J. Kipers.
R. 1, Benton, Kan.

Few persons doubt that the state twine plant at Lansing saves the farmers of Kansas a cent or two a pound on their binding twine every year it is in operation. To a certain extent the price of twine depends on the supply of the raw material, sisal. It may be your local dealer had some inside information about the sisal supply.—Ed.

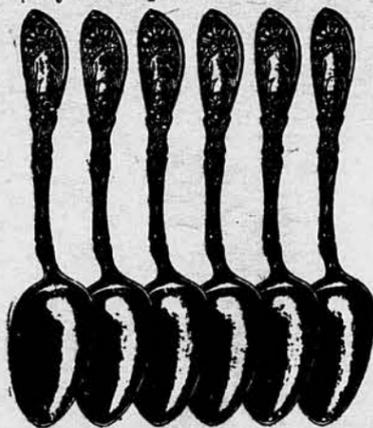
Shipping Hogs in Hot Weather

In shipping hogs this time of year, "don't overload" is good advice. A man who has been shipping hogs for 40 years says he has never known a summer in which so many hogs have died in transit. His way of avoiding this trouble is given in his own words: "Before loading I clean the car, bed it with sand only, wetting it well, then fill eight bags with 50 pounds of ice each, and adjust them to the cross bars in top of the car. This will cool the car and keep your hogs cool until they arrive at the yards and by so doing you will have no dead hogs."

A great many of the weeds now present in prairie grass are of the tumbleweed kind. If cutting is put off for a time they will ripen, dry up and blow away. But should the weather continue of the dry order, the quality of the grass will not be quite so good.

SIX SILVER NARCISSUS TEASPOONS FREE.

I have just consummated a most remarkable purchase whereby I secured at a ridiculously low figure 5,000 sets of beautiful Silver Plated Narcissus Spoons made by the famous Oxford Silver Plate Company. Each spoon is extra heavy, full



standard length, extra deep bowl and with beautifully embossed and engraved handles. I am going to give a set of these handsome spoons absolutely free, postage paid, to all who send just \$1.00 to pay for a year's subscription to my big farm weekly, The Farmers Mail and Breeze. Send your subscription order at once and secure a set of these beautiful and serviceable spoons. State whether you are new or old subscriber. Time will be extended one year if you are already paid in advance. Address Arthur Capper, Publisher Mail and Breeze, Topeka, Kan.

P & O

Light Draft Plows

P & O Light Draft Plows have been used in ever increasing quantities by three generations of American Farmers, spanning a period of 71 years, from 1842 to the present day.

Why? Because we have always insisted on the thorough working out of three cardinal points of merit, upon which rests the foundation of the success of P & O Plows: Strength, Simplicity, and Ease of Operation. These three features with us are something more than a mere choice of words, and they mean just what they say.

Strength—in the use of material, heavy when necessary but not cumbersome, braced, reinforced and ribbed where the strain is greatest. **Simplicity**—in the studied effort to build plows and other tillage implements that are shorn of all superfluous parts, and still give every needed adjustment. **Ease of Operation**—in the position and counterbalancing of levers, the absence of jerking and jarring, either on the driver or the horses, and that general air of finish so difficult to describe, but which characterizes all P & O implements.

P & O Light Draft Plows, all styles and sizes, from Walking to Engine Gangs, either Molds or Discs made for all kinds of soil, for work under all conditions and under any circumstances, and **BACKED BY AN UNQUALIFIED GUARANTEE.** Ask your local dealer for P & O Light Draft Plows and then insist on getting them. When you spend your money for plows, get the best—the P & O line.

PARLIN & ORENDORFF CO., Canton, Ill.

Minneapolis Omaha St. Louis
 Sioux Falls Dallas Portland
 Kansas City Denver Okla. City

Get Your Canadian Home From the Canadian Pacific

20 Years to Pay

Rich Canadian land for from \$11 to \$30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

We Lend You \$2000

for erecting your buildings, fencing, staking well and breaking. You have twenty years in which to repay this loan. You pay only the banking interest of 6 per cent.

Advance of Live Stock on Loan Basis

The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle sheep and hogs up to the value of \$1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 26 years. We give the valuable assistance of great demonstration farms—free.

This Great Offer Based On Good Land

Ask for our handsome illustrated books on Manitoba, Saskatchewan and Alberta—mention the one you wish. Also maps. Write today.

C. E. THORNTON, Colonization Agent
Canadian Pacific Railway
 Colonization Department
 112 W. Adams St., Chicago

FOR SALE—Town lots in all growing towns. Ask for information concerning openings.

Running Water

in House and Barn at ever temperature Winter or Summer at Small Cost.

Send Postal for New Water Supply

Aermotor Co., 1144 S. Campbell Av. Chicago, Ill.
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FITZ OVERALLS

Give that air of prosperity necessary to success. Get a pair and identify yourself with SUCCESS.

BURNHAM-MUNGER-ROOT DRY GOODS CO.
 Kansas City, Mo.

Lightning Protection

SAVE 1/2

Direct to User by Mail. Rod your own buildings. "Made Right" Lightning Cable is pure soft copper and extra heavy. Shipped on Trial. Freight Prepaid With Complete Directions, Foot System guaranteed satisfactory or goods returned at our expense. Write today for catalog.

8 1/2 C.

IOWA LIGHTNING ROD CO. OF DES MOINES, ILL. 813 North Liberty St.

12 Beautiful 7-Color 10c Scenic Post Cards

We now have ready for distribution a series of 36 of the most gorgeous scenic post cards ever printed. These cards are made direct from photographs covering all the most important points of interest in Colorado—Mountains, Pea's, Lakes, Valleys, Mines, famous buildings and places—practically every scenic spot of greatest interest is included in this wonderful series of post card views. The cards are printed on finest stock in from five to seven colors producing the most beautiful effect imaginable. These cards have an educational as well as artistic value as they provide true-to-life illustrations of the most-talked-of points throughout this mountain wonderland. Get a complete set for your album or collection, another set to mail to your friends—36 different views.

BARGAIN OFFER. These cards would ordinarily retail at 2 for 5 cents, and they are worth it, too. We are wholesale distributors and just to get these beautiful cards introduced in all parts of the country we will for a limited time send postpaid 12 all different Colorado View Cards, for only 10 cents, or 26 all different for 25 cents. Send your order today—Stamps or coin. Address:

COLORADO SELLING CO.,
 1624 Seventeenth St., Denver, Colo.

Poultry Keeping

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

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

Eggs not gathered once a day now are of doubtful quality.

Do the birds have shade in an open, airy place? They need it.

Wheat and oats are better hot weather feeds than corn and Kafir.

It pays to get the best of vermin while you can or they will get the best of your chickens.

Putrid flesh or decaying matter of any kind left lying about at this season may prove costly negligence.

Drinking troughs need frequent looking after in summer. Nothing like a filthy water or feed trough to breed disease in hot weather.

The steady rays of the sun will soon cook an egg these days. A canvas cover for the egg basket or crate on the way to town makes a big difference.

Again we say there's nothing like a smoking out with sulphur to banish lice and mites from the hen house. It also purifies the house by killing disease germs.

Unless a dropping board is cleaned regularly and treated for vermin, better not have one in the summer time. They furnish an excellent place for lice to multiply, if neglected.

First call for letters on care during the molting season. How do you feed to hurry the moult along and get the birds into laying condition as soon as possible afterward? Prizes for worthy letters.

Protecting Chicks From Rats.

[Prize Letter.]

Mr. Editor—A good many poultry raisers here are losing their chicks, rats getting into the coops at night. It is not much trouble to prevent this. We make our coops rat tight by having a board floor in them. This not only keeps the rats from digging into them but it keeps the chicks dry in wet weather. An 8-inch board put up in front of the coop at night will keep out rats and other "varmints."

I have more than 300 chicks and the rats have not taken one this spring. Before the hen leaves them I drive them into the hen house a few times which helps to wean them as well as saving a lot of trouble when fall comes. I have two hen houses, both rat tight. They are 8 by 20 feet in size, well ventilated, with 4-inch cement floors, and pressed brick siding on the outside. One of the houses is for the old birds and the other for young stock. I have low roosts for the chicks just high enough so they can get on them easily. This keeps the chicks from piling up in a corner and smothering. The houses have screen doors which I close at night, thus keeping out intruders and still allowing ventilation. Mrs. Frank Hoffman. Oberlin, Kan.

An Appealing Sight at Depots

Mr. Editor—A large per cent of the poultry shipped into Kansas City comes from Kansas points. Every day at the Union station, on the express wagons, at the commission houses, poultry may be seen in a condition which shows all thought for the comfort or protection of the fowls has been overlooked, good business methods as well.

The crates are too low. They are so overcrowded that heads, feet and wings often protrude and are crushed, when the crates are moved. An express wagon loaded with poultry crates a warm morning following a warm night is an appealing sight. All those pitiful, gasping beaks and glazed eyes call for mercy

and for relief. Can we not insist on the use of larger, more roomy crates and water in transit? Also that they be kept under awnings after they reach the commission houses? H. H. Jacobs. Humane Society, Kansas City, Kan.

Hens Make Cheapest Mothers

BY REESE V. HICKS, Director of the Mail and Breeze Poultry Experimental Farm.

Apparently the cheapest way to raise chicks is to let them range with the hen after the second week, so far as mere expense is concerned, but you will probably lose more chicks.

One of the tests we are conducting at the Mail and Breeze Poultry Experiment farm is to determine, if possible, the relative cost in money and labor of raising chicks in brooders; chicks with hens in a brooder house, having a small yard in front; chicks with hen in a small coop or colony house; and allowing hens and chicks free range after the chicks are two weeks old. Although this experiment is still going on, indications are that the expense is far less where the chicks are given range with the hen after the second week.

Housed Hens Raise More Chicks.

On the other hand, however, the labor of caring for hens in coops is much heavier, being practically double. A brooder house with yards in front for chicks and hen, is under the eye of the attendant, who has fewer steps to take. And so far, losses are far less in the brooder house with yards, than in the coops. For example, a hen in the brooder house, with a space in the house of 5 by 9 feet, raised 12 out of 14 of her chicks to their sixth week; while a hen with 14 chicks in a coop under a tree, raised to their seventh week only four, practically all the losses being sustained during the third and fourth weeks. A storm caught them out when they were just 3 weeks old and drowned four. During the next three days three more died, evidently from the effects of the wetting and the damp condition of the runs and coop. The others disappeared from time to time, possibly they were lost in the weeds or were caught by rats or stray cats.

Housed Chicks Cost Much More.

The brooder house chicks, being in a closed run, got in before the storm and for the next few days during the damp rainy weather, were kept in the 5 by 9 pen allowed them in the brooder house. This gave them an abundance of indoor exercise and kept down losses, the only losses they sustained being due to accidents.

The four coop-raised chicks, at 7 weeks old, average 1 pound, 2 ounces in weight. One is a Black Langshan and outweighs any of the others by 3 ounces. Another, an Orpington, weighs an ounce more than the largest Rhode Island Red chick, which outweighs its brother R. I. chick by 3 ounces.

The expense of raising these four chicks was less than 20 cents for the entire four. This includes feed only, not the cost of the eggs, labor, etc. They have picked up their own living from the time they were 2 weeks old. The chicks reared in the brooder house have cost practically five and a half times this amount for each chick and they average 3 ounces less apiece, in weight.

Storing Eggs in Waterglass.

Will you please publish a good, inexpensive method of preserving eggs in summer for fall or winter use on the farm?—J. B. W., Reno county, Kansas.

Eggs may be preserved in waterglass any month in the year. A 10-gallon earthenware jar will hold about 33 dozen eggs. Place the eggs in the vessel the day they are gathered. The fresher the eggs the better they will keep. Be careful not to crack any as they will spoil and cause trouble. Use only clean, unwashed eggs. There is a thin coating on the outside of the egg which aids in sealing the pores of the shell. When the egg is washed this coating is removed.

With one or two dozen eggs as a beginning, the waterglass solution may be prepared. Take 9 gallons of boiled water and add to it 1 gallon of waterglass. After the mixture is cold it may be poured over the eggs. Use enough liquid to cover the eggs. From day to day more eggs may be added and also a sufficient quantity of the liquid to keep them submerged. The eggs should not float. When the jar is full the liquid should be 1/2 inch above the top of the

last egg. Place a large plate or a round wooden board over the eggs so as to keep them submerged.

The jar should be kept in a cool place, the coolest spot in the cellar. Tie a piece of oil paper over the top of the jar to prevent evaporation of the liquid. The eggs may be removed as needed one by one, and should be washed in cold water. It is not advisable to use the same waterglass two seasons. Sometimes an egg will become broken and decomposed. If it is not removed within a certain length of time it is likely to cause other eggs to spoil; consequently, it is a good idea to examine the jar every two or three months to see that no eggs have spoiled.

Four Vermin Discouragers.

[Prize Letter.]

Mr. Editor—For lice and mites in the poultry house I paint roosts and nest boxes with a small brush, using coal oil with a few drops of carbolic acid in it for a paint. The roosts are movable and no one should have any other kind. Also I take a torch dipped in coal oil and burn out all crevices and corners in the house. I keep a bucket of water handy in case anything should catch fire. On wash days I throw the wash water about on the inside, which is also a big help in keeping down vermin. I have a spray pump and frequently spray salt water all over the inside of the house. This kills the nits as well as lice. I do this every two or three weeks. Ogden, Kan. Mrs. A. P. Nixon.

Why Summer Eggs Are Low

Mr. Editor—This is the truth, though it may be disagreeable. So long as we depend upon the grocer to handle our eggs, and upon the butcher to handle our fowls, so long as we take eggs to market that are large and small, mixed colors, white, brown, pink and speckled; so long as we will bring in fresh eggs with blood clots, and stale eggs taken from a stolen nest, clean and dirty; just so long will we have to take the offered price in trade. So long as we remain 1,000 miles from the consumer, whether in distance or in methods of marketing, so long will the several middlemen have the profits the producer should have.

So long as we "don't care," and say "what's the use," we are not going to create a greater demand for our products. W. E. Vaplon. Colorado station, Ft. Collins.

We have taken the Mail and Breeze for a good many years and I do not see how we could do without it.—E. H. Downing, R. 1, Attica, Kan.

Reliable Poultry Breeders

FARMERS MAIL AND BREEZE POULTRY RATE.

The rate for advertising under the "Reliable Poultry Breeders" column is 5c per word each time for 1, 2 or 3 insertions and 4 1/2c per word each time for four or more insertions.

RHODE ISLAND REDS.

ROSE COMB RED eggs from pens mated to roosters costing from \$10.00 to \$30.00. Eggs at sacrifice prices after May 25. 15 eggs \$1.00, 30 eggs \$1.75, and 50 eggs \$2.50. Also a few extra good roosters at \$2.50 and \$5.00 each and good hens at \$1.00 each. W. R. Huston, Americus, Kan.

DUCKS.

FOR SALE—My entire flock of English Indian Runner ducks, \$1 each. Paul Grill, Ellsworth, Kan.

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

FAWN AND WHITE and brown and white prize winning Indian Runner duck eggs 15 for \$1.00, 100 for \$5.00. E. O. McKinney, Lafontaine, Kan.

PLYMOUTH ROCKS.

BIG TYPE BARRED ROCKS. Half price now. Duff, Larned, Kan.

FOR SALE. Pen Buff Rock hens, also cockerels. Mrs. M. E. Stevens, Humboldt, Kan.

BARRED ROCKS. 68 premiums, Topeka, Manhattan, Clay Center, Denver. Eggs 15, \$1.25; 60, \$4.00; 100, \$8.00. Stock sale. Mrs. D. M. Gillespie, Clay Center, Kan.

WYANDOTTES.

BUFF WYANDOTTES. Prices cut for balance of season. Eggs from all our breeding pens at \$1.50 per 15, \$5.00 per 100. Baby chicks \$1.50 per dozen. Send for mailing list. Wheeler and Wylie, Manhattan, Kan.

SEVERAL VARIETIES.

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

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

LICE KILLER Liscoll, strongest lice killing compound made. Works like magic. Simply put a few drops in nests and hang bottle in coop. Powerful evaporating vapors go into feathers, cracks and crevices. No painting, spraying or dusting. Easy to use. Circular free. Found bottle prepaid 50c. Money back if it fails. Agents wanted. W. H. Metzger Co., No. 8, Quincy, Ill.

CORN HARVESTER with Binder Attachment cuts and throws in piles on harvester or winrow. Man and horse cuts and shocks equal with a corn Binder. Sold in every state. Price \$20.00. W. H. BUXTON, of Johnstown, Ohio, writes: "The Harvester has proven all you claim for it; the Harvester saved me over \$25.00 in labor last year's corn cutting. I cut over 500 shocks; will make 4 bushels corn to a shock." Testimonials and catalog free, showing pictures of harvester. Address NEW PROCESS MFG. CO., SALINA, KANSAS.

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Attractive folders will be sent free.

Be sure to mention the kind of machine in which you are interested so that we will be sure to send you just what you want.



CROPS and FARM WORK

(Crop Reporting Service of Farmers Mail and Breeze.)

In Kansas the moisture of last week was soon drawn from the soil by the hot, dry weather. Oklahoma fared better and growing crops there are in a thriving condition in nearly all counties heard from this week. From 1 to 5 inches of rain fell in that state last week, covering the greater part of it. Corn in Oklahoma is in the roasting ear stage and without further rain there will be a crop in some counties. Cotton and feed crops also are prospering.

Good use has been made of the recent dry, hot spell by Kansas threshers. While growing crops have been suffering for want of rain there is some consolation that rain has not interfered with threshing wheat. The greater part of shock threshing has been finished and another week will see work on stacks begin, weather permitting.

In western Kansas the grasshoppers seem to be doing more damage than for years. The hot weather is said to be hatching out the hopper eggs in countless numbers and nearly all growing vegetation is being attacked. W. H. Brown, of Hamilton county, reports the arrival of a new pest called the Cuban fly, imported with some cattle from Cuba and Florida. These flies are said to be such a nuisance that cattle will not graze or drink while they are around.

KANSAS.

Washington County—Good rain in this vicinity June 30 but more is needed. Corn still growing fast. Wheat is good. All oats we have seen cut will yield well.—Mrs. Birdsley.

Russell County—Weather extremely dry and windy. Harvest finished. Most wheat light. All spring crops look poor and grass is short. Hoppers and chinch bugs taking everything.—Mrs. Fred Claussen.

Chase County—Wheat harvest finished and a good yield is expected generally. Corn clean and in good condition. Pastures need rain. Potatoes making a half crop. Bugs have not done much damage yet.—W. J. Dougherty.

Greeley County—No rain to amount to anything in several weeks. Grasshoppers have eaten most barley, potatoes and garden stuff, and damaged corn. Stock doing well on dry grass, though flies are annoying.—J. Skillman.

Ness County—Not enough wheat harvested in the county to furnish seed. Rain badly needed for pasture. Hoppers have eaten most corn and feed and not much replanting done. Crop prospects not very good.—C. D. Foster.

Decatur County—Wheat harvest is on. Some will make a fair yield while much of it will not pay expenses. Corn doing fine. Hoppers taking the millet and some feed and corn. Had an inch of rain last Sunday.—G. A. Jern.

Cheyenne County—Weather dry and windy. Small grain suffering and unless rain comes soon spring wheat and barley will be almost a failure. Corn doing well and stand generally good. Wheat will probably make half a crop.—F. G. Casford.

Kingman County—Most wheat cut and some threshing being done. Wheat light and will yield from 6 to 8 bushels. Oats will not make much. Corn and Kafir pretty fair. Ground getting dry. No chinch bugs or grasshoppers to speak of. Wheat 76 cents.—B. F. Shelman.

Sherman County—Harvest is on but wheat and barley in very short straw. About half will be mown instead of headed. Weather dry and hot but corn and feed crops very promising. Grass is dry but stock still doing well. Much butter fat being shipped out at 23 cents.—J. B. Moore.

Lyon County—Had about 1 inch of rain June 30 which saved corn. All crops had been suffering for rain. Late potatoes also growing some more and the moisture helped alfalfa and pastures. Some farmers are threshing. New wheat 75 cents, old wheat 80, corn 60, prairie hay 75, alfalfa \$9.—B. R. Griffith.

Leavenworth County—Threshing begun and wheat yielding rather low. Fields threshed have made about 12 bushels. Most corn laid by. Chinch bugs doing considerable damage, especially in fields adjoining wheat. Pastures need rain. Harvest help quite plentiful with wages at \$2 per day.—Geo. S. Marshall.

Pottawatomie County—Oat harvest nearly finished. Yield medium. Chinch bugs moving into corn from small grain in considerable quantities. Early potatoes badly hurt by dry weather. Corn holding up well, but needs a soaker badly. No good rain here since early May. Corn 62 to 65 cents, according to avarice of speculators.—S. L. Knapp.

Atchison County—Only local showers during June. Wheat did not fill well in some parts of county and yields will be disappointing. Southwest part of county had almost no rain during June. Not enough chinch bugs to do any damage. Oats very poor. Corn in good condition. Pastures not growing and with fine thick stock not doing well.—C. H. Feary.

Cheyenne County—Harvest has begun. Grain very spotted and some not worth cutting, while other fields will make from 15 to 25 bushels. In a 10-mile drive through southeast part of county saw but three fields of spring wheat and no fall wheat worth cutting. Barley looks fair. Nearly

everybody has a good stand of corn but it is small.—Mrs. J. S. DeLong.

Bourbon County—Had a much needed rain of 1 1/2 inches first of week, which nearly covered the county. Crops had been damaged by continued hot, dry weather. Oats and tame grass short and most of them put up. Pastures were about dried up but will now start again. Many people sold off stock before rains. No wheat raised here this season. Chinch bugs bad. Corn being shipped in. Cream 24 cents, butter 20, eggs 15.—W. W. Orr.

Hamilton County—Had a good rain June 21 but two weeks of very dry, hot weather since. Grass drying up. Hoppers are eating corn and feed and some farmers have replanted three and four times. Stock was doing nicely until two weeks ago when some Cuban flies brought in with a lot of cattle from Cuba and Florida began their work on horses and cattle. Stock hunts high prairie during the day, refusing to graze or drink, and only feed after dark. Cows cannot be milked before dark and in the morning must be milked early. Consequently they are shrinking in milk flow.—W. H. Brown.

OKLAHOMA.

Pawnee County—Wheat is making about 30 bushels. Oats were hurt by bugs but are making from 30 to 45 bushels. Corn looks fine. Had a fine rain July 1.—V. Eunkhouser, July 6.

Cotton County—Corn in roasting ears. Second alfalfa crop ready to harvest. Corn oats to harvest yet. Cotton looks good but some fields are weedy. Having plenty of rain. Cream 22 cents, eggs 10.—Lake Rainbow, July 5.

Comanche County—Very little threshing done so far. First threshing in this neighborhood made a 30-bushel yield and tested 61 pounds. Sold at 76 cents. Some cotton will be abandoned for lack of tending.—Fred E. Wiersig, July 5.

Kay County—Weather dry and hot. Chinch bugs and heat damaging crops. Oat crop shortest since green bugs made a clean sweep six years ago. Had grand celebration at Newkirk July 4 with talk by Governor Cruce.—Sherman Jacobs, July 5.

Garvin County—Last week fine for stacking wheat and oats. Early corn about all laid by. Some small grain and corn injured by bugs but crop prospects are fine all around. Had heavy showers June 28. All stock doing well.—H. H. Roller, June 30.

Pushmataha County—A little too much rain for cotton. Corn in roasting ear. Ideal weather for sweet potatoes. Irish potatoes yielding well. Truck patches looking fine. Wild blackberries making a heavy crop, but we need more tame fruit growers. Stock doing fine.—K. D. Olin, July 5.

Kingfisher County—Had 4 1/2 inches of rain June 30. Ground still very wet and threshing will not begin until Monday. Corn in tassel and is sure of a crop. Some damage by chinch bugs in corn and late Kafir. Spring pig crop small and few old hogs in sight.—H. A. Reynolds, July 5.

Alfalfa County—Wheat harvest finished and threshing started. Some fields making 25 bushels. Spring crops look good. Early corn in roasting ears. Second alfalfa crop good and ready to cut. Plowing for fall wheat has started. Chinch bugs are thick in oat fields. Pastures good.—J. W. Lyon, July 3.

McClain County—Had a soaking rain here July 1. Early corn in roasting ear now and have enough moisture in ground to make a crop. Early cotton blooming. Large acreage of Kafir out and crop is waist high. Watermelons will be ripe by July 15. Broom corn heading. Gardens fine.—Floyd Harman, July 5.

Cleveland County—Had the heaviest rain in four years on July 1. Everything flooded for a few hours. Good deal of hay lost. Threshing just begun. Bright, windy weather drying grain out nicely. Corn about made. All growing crops in fine shape. Plenty of work here and good help hard to get.—H. J. Dietrick, July 5.

Caddo County—Had a 12-hour rain July 1, the heaviest in years. Corn tasseling and shooting, and looks like 50 to 75 bushels. Heavy rains did some damage to headed wheat. Wheat making 10 to 12 bushels. All feed crops growing fine. Big crop of potatoes selling cheap. Never heard of chinch bugs in this county.—C. Reddington, July 3.

Pottawatomie County—Had a 1-inch rain July which came just in time to save corn. Corn in fine shape now for a good crop. Oat threshing in progress. Second crop of alfalfa almost up. Cotton looks good. Some blooming and about 18 inches high. Old corn about all gone but have a good crop of oats to take its place. Eggs 15 cents, butter 25, fries 18.—L. J. Devore, July 2.

Blaine County—Ground well soaked by big rains June 30 and July 1. Wheat harvest finished July 4 and threshing begun. Yields range from 5 to 15 bushels. Oats short and large acreage will be mowed. Some fields have been listed to mlo. Some farmers planting feed crops in stubble. Corn is extra fine and with another rain will make another crop. Second crop of alfalfa ready to cut.—Henry Willert, July 5.

According to the 1910 census of the United States there are 327,635 women teachers and professors; 770,055 women engaged in agricultural pursuits; 239,077 women clerks, accountants and stenographers; 1,037 women architects, and 429,497 women in the professions.

The Mail and Breeze is a good paper, the best we have had in the house.—Allen Leach, R. 1, Boley, Okla.

SCHOOLS AND COLLEGES



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I HAVE something of importance to tell every young man and young woman reader of this paper who is contemplating going to a Business College this year. Something that you should know—something that means dollars to you. Before you decide on any school, write me. Get this information—learn what it is. I am receiving letters every day from young men and young women from all parts of the country who will really and actually save money and time on their Business Education by acting on the information gained from me, and at the same time get the best business training possible to secure.

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FOSTER'S FORECASTS

(Copyright 1913 by W. T. Foster.)

Washington, D. C., July 12.—Last bulletin gave forecasts of disturbances to cross continent July 15 to 19 and 19 to 23; warm waves 14 to 18 and 18 to 22; cool waves 17 to 21 and 21 to 25. Remarkable for sudden and great changes in temperatures. These will be of greater than usual force and the last one will be severe on the north Atlantic and will inaugurate the great storm period due for last half of July. Our storm and danger signals for all parts of the continent are displayed for July 19 to 31. Next disturbance will reach Pacific coast about July 23, cross Pacific slope by close of 24, great central valleys 25 to 27, eastern sections 28. Warm wave will cross Pacific slope about July 23, great central valleys 25, eastern sections 27. Cool wave will cross Pacific slope about July 26, great central valleys 28, eastern sections 30.

This will be a severe storm all the way across continent and in eastern states; on north Atlantic it will be a furious storm following July 27. We continue to advise great care and a careful observation of the indications that always precede severe storms. One of the surest signs of the approach of dangerous storms is a dark blue sky. Great storms draw the moisture from the atmosphere leaving it to appear as it does when viewed from a high mountain.

A hurricane will probably organize east of the Windward islands on July 21 and by 25 will probably be in the Caribbean; by 28 it will be in the Gulf of Mexico. These tropical storms usually move northeastward off our Atlantic coasts.

A Boy Breeder of Horses

(Continued from Page 9.)

cherons in this country, Illinois having the greater number, Ohio, Iowa, Michigan and Wisconsin ranking next in the order given. Nearly 4,000 Percheron horses were imported to the U. S. between the years 1851-1883. Illinois received 1,834; Ohio, Indiana and Michigan 577; Minnesota 424; New York, Pennsylvania and New Jersey 280; Missouri, Kansas and Nebraska 186.

You will notice that most of these horses were bought for the East. It is much different now. The West now owns 40 per cent of all the Percheron horses in the U. S., and in 1906 there were 30,000 Percherons in this country, a much larger number than any one of our other breeds can show.

In France, in 1883, the Percheron breed was in the hands of the Society Hippique Percheronne and it published its first studbook the same year. Up to 1906 the Percheron Society of America had published nine volumes of the American studbook. The first two volumes were published by the Percheron-Norman Horse association. The Percheron Registry company, established in 1904, has published three studbooks.

In 1902 the American Percheron Horse Breeders and Importers association was organized. In 1905 it became the Percheron Society of America and has its headquarters at the Union Stock Yards, Chicago. In 1904 another company was organized at Columbus, O., called the Percheron Registry company. In 1905, at Plainfield, O., the American Breeders & Importers Percheron Registry association was organized. H. B. LAMER, Salina, Kan.

Not Many "He" School Teachers

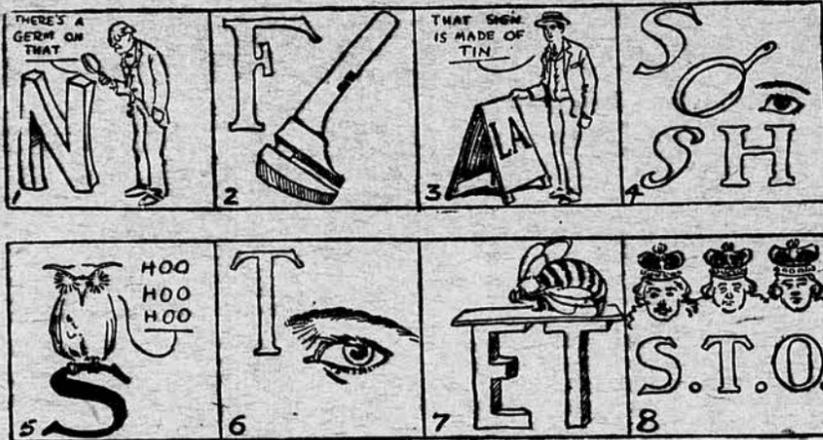
In one of his perfectly proper homilies to farmers, during his recent automobile tour, Governor Hodges had this to say:

One thing for which I must criticize you and even my own county, Johnson, is the meanly, nasty salaries you pay to country teachers. These men who are training your children and fashioning your future citizenship are getting less pay than coal shovelers.

The governor shows what may be called a first-hand, unfamiliarity with his subject, or is mixed in his gender. These underpaid men school teachers he talks about are mostly girls or women, as farm folk well know. To put it in the governor's favorite way the rural school teachers of Kansas are 80 per

A Puzzle For Mail and Breeze Boys and Girls

THE pictures in the upper row, Nos. 1, 2, 3 and 4, illustrate what languages? Nos. 5, 6, 7, 8 in the second row illustrate what wearing apparel? These are easy. You won't have a bit of trouble. A set of post cards will be awarded for each of the best 10 solutions received by Friday, July 18. To your solution attach your name and address, then mail to Farmers Mail and Breeze, Topeka, Kan., being sure to mark in the lower left hand corner "Puzzle Department". ENCLOSE NO OTHER BUSINESS WITH YOUR SOLUTION. Prizes are awarded not only for your skill in solving the puzzle but for the neatness, originality, and general care taken in preparing the answers.



The puzzle in June 28 Mail and Breeze represented (1) seagull, (2) owl, (3) pelican, (4) pheasant. The prize winners are Bessie M. Bowen, R. 1, Leon, Kan.; Susie Harnish, R. 1, Peabody, Kan.; Floribel Lancaster, R. 1, Ottawa, Kan.; Blanche Taylor, R. 2, Neodesha, Kan.; Arnold McClure, Hill, Okla.; George K. ating, Fulton, Kan.; Amanda Bohlen, R. 1, Cordell, Okla.; Joy Richardson, Jerocho, Kan.; Ruth Stevenson, Anthony, Kan.; and Charlie Ingram, Cherokee, Okla.

cent women and about 20 per cent men or boys.

Legal Weights in Kansas

I am going out as separator tender for a threshing outfit and would like to have you give me the legal Kansas weights for the small grains and seeds.—G. C. Pottawatomie county, Kansas.

These are legal weights in Kansas: Wheat 60 pounds, rye 56, oats 32, Kafir 56, rice corn 56, milo 56, cane seed 50, millet 50, barley 48, buckwheat 50, beans 60, corn on ear 70, shelled corn 56, shelled dry peas 60, flaxseed 56, alfalfa seed 60, clover seed 60, timothy seed 45.

Choosing High Grade Schools

Recently a widely known educator, who has given much thought to the subject of business education for farm boys and girls, said: "An up-to-date farmer would not buy a broken-down wagon, nor a blind horse, nor an antiquated plow just because it is cheap. For the same reason he is not going to buy a scholarship for his boy or girl in a business college because it guarantees positions, nor because a business college solicitor approaches him with a contract all ready to be signed up. He is going to investigate the school just as he would investigate a horse he was going to buy. That is why the business colleges of reputation are getting the boys

and girls from the modern farms who wish to prepare themselves for farm bookkeeping and accounting. It would probably surprise the average man to know what a large number of farm boys and girls are seeking special business training in the big business colleges, with the sole thought of applying their training to the business affairs of the farm."

A little fine earth on the dropping boards will make them easier to clean and it is also more sanitary.

SCHOOLS AND COLLEGES

Business Course for Farmers Six Months Work in

Practical Agriculture with laboratory and research work. Business Practice, Farm Management, Farm Accounting and the Common School Branches. Keeps the boy on the farm, shows him the pleasant and profitable side of farming. May enter from 8th grade. Occupy 4 big buildings in beautiful campus at edge of small city. Moral surroundings excellent. For most satisfactory results, investigate.

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D. L. MUSSELMAN, President Gem City Business College, Lock Box 144, Quincy, Illinois



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Arthur Holloway, Monticello, N. Mex. writes me—"Was losing 5 to 6 sheep a day when the "Sal-Vet" arrived. Within 30 days I had no more worm losses. I had to pay for it, but I have lost only one." W. J. Hill, Hays, Kan. writes—"Sal-Vet" saved me 18 times what I paid for it." E. L. Glover, Woodstock, Minn., writes—"Before using "Sal-Vet" I lost sheep from worming. After using "Sal-Vet" I lost but one and that was nearly dead when the remedy arrived." Sal-Vet will do equally as well for you.

I'll Stop Your Losses Too—I'll Prove It Before You Pay. I'll Prove It Or No Pay

Sal-Vet is a wonder working medication which farm animals can run to freedom and DOUBT THEMSELVES. It causes no itching, no starving, no frothing, no trouble to feed.

The Great Worm Destroyer

Sal-Vet costs only 1-12 of a cent a day for hog or sheep and a little more for lambs and calves. I make no charge if it fails to do just what I claim.

The Great Live Stock Conditioner

Send Me Money—Just The Coupon

Fill out the coupon, tell me how many head of each you have and I will send you a box of Sal-Vet for each head of your stock 60 days. If it doesn't do what I claim I'll cancel the charge—you won't owe me a penny. Address S. R. Feil, Pres., The S. R. Feil Co., Chemists, Dept. FMB, Cleveland, Ohio 43102.

Price: 25 lbs. \$5.50; 50 lbs. \$10.00; 100 lbs. \$18.00; 200 lbs. \$32.00. No orders filled for less than 40 lbs. on this 60 day trial offer. Never sold in bulk; only in 25-lb. marked Sal-Vet packages. Shipment for 60 days trial on basis of 1 lb. of Sal-Vet for each sheep or hog, and 4 lbs. for each horse or head of cattle, or 10 lbs. for each cow without handling regular size packages.

SIMPLY R. FEIL, Pres. THE S. R. FEIL CO. Dept. FMB-12-13 Cleveland, O.

Name _____ P. O. _____ State _____

Shipping Via _____ No. of Sheep _____ Hogs _____ Cattle _____ Horses _____

The WOMEN FOLKS

Conducted by Mabel E. Graves



We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house; or if you have anything to say which would be of interest to another woman, send it to the Home Department editor. Prizes for the three best suggestions received each week will be, respectively, a set of triple-plated teaspoons in the beautiful Narcissus design, a year's subscription to the Household magazine, and a year's subscription to the Poultry Culture magazine.

If you see a cluster of orange colored eggs on the under side of a tomato leaf pick the leaf and crush every egg. These are the eggs which will develop into tomato worms.

In the Mail and Breeze of June 28 on Page 2 the question is asked, "Are we giving too little or too much space to any matter or subject pertaining to the farm or farm home? If you think the Home Department is getting too much space or too little space now is the time to say it."

Dr. Crumbine says the best kind of cracker for Fourth of July is a soda cracker. Perhaps he's right. That's the kind the Topeka boys had, anyway. Not a fire cracker was heard all day long. One mother early in the morning discovered her small son preparing to smash the electric light globes, and on her remonstrating he said, "But mother, I've got to make a noise with something!"

Start Your Christmas Now.

Pick your nasturtium seeds when green and fill them into little glass jars such as mustard or pickles or olives come in. Make a mixture of equal parts vinegar and water, add a teaspoonful of salt to each quart of this mixture, and pour over the seeds. Cork the jars and dip in hot sealing wax or paraffine. At Christmas time wrap in white crepe paper, tie with bright orange or nasturtium-colored ribbon, and present to some friend who has not raised this appetiser. Let certain nasturtium plants go to seed so you can gather them, and put several of the blossoms in each bottle. These same jars are very attractive filled with the white button onions with several bright red peppers mixed through them. Cover with the same pickle and seal the same. Everyone is pleased with them as Christmas gifts. Perry, Okla. Florence A. Richardson.

Screen Door That's Always Open.

An ounce of prevention being worth a pound of cure it stands us in hand to keep guard against the fly. Cleanliness is the first precaution.

Leave nothing around the pests. All openings should be screened, and doors to be of very much value must be latched. But what woman with hands in the bread, or perchance upstairs dressing, can refrain from a frown of annoyance when the hooked screen is impatiently rattled from the outside? Or what man hurrying to the house for needed repairs just in the "busiest possible time" can refrain from unpleasant remarks when another delay awaits him at his own barred door? Why not save time, steps and annoyance by attaching a strong string to the screen hook on the inside, passing it through the wires above and tying a small weight of some kind to the outer end? With such an attachment all anyone needs to do is to pull the string, which will lift the hook; and he can let himself inside with no bother whatever to the busy housewife. Frances H. Brown, Mount Pearl, Colo.

A Cure For Snake Bite.

Reading of the death of a little child caused by snake bite has brought to my mind a recipe I have never known to fail. Break an egg into a cup and beat it up just a little, then stir thick with gunpowder so it will spread on a cloth. Apply to the wound and change every half hour for two hours, then every hour for six hours. Give the patient a little whiskey and some good liniment that has whiskey

in it. This is for the bite of rattlesnake or any other kind of snake.

Mrs. Elizabeth Roberts.

R. G. Howard, Kan.

How to Make a Baby Jumper

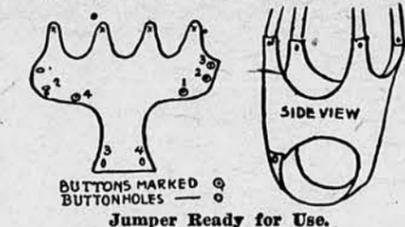
BY MRS. BELLE HENDERSON.

Every mother of a small child should have a baby jumper for the little one. The boughten ones are nice, but not to be compared in point of actual merit with the old-fashioned homemade affair.

In the one shown here both legs and arms have plenty of chance to exercise without strain, and every movement gives just that much added strength.

Such a jumper will require two yards of some stout material, four large buttons, a wooden barrel hoop and a spring. Tear the cloth into strips, each two yards long, fold down the rough edge, turn together and stitch the whole length on the machine. This will give the four straps by which to hang the jumper. Cut out the jacket of a size that will fit. Put an extra thickness of cloth where the buttons and buttonholes come, and bind all round with a narrow piece of the goods. Work the buttonholes with coarse cotton thread to make them strong.

Sew one end of each strap to the jacket, and fasten the other ends together over the hook in the spring. Cover the hoop with denim and put inside the straps, halfway between the jacket and the hook, and tack the straps to it, at equal distances apart.



Jumper Ready for Use.

The jumper should be long enough that the child's toes will just touch the floor nicely. Button the jacket round the child, pull it down well, bring the long end up between the legs from the back and button to the front of jacket.

A child can use this from the time he is 5 months old until he can walk, and it is equally good for older children that cannot walk. My little girl 9 months old could not use her legs and this jumper helped her to learn to walk. The child may be afraid at first, but leave him there only a little while at a time, and he will soon enjoy it. My little boy, 9 months old, plays in his jumper for two hours at a time.

[Every evening when I go home I see a year-old baby out on the porch bounding up and down, dancing from side to side, having the time of his life in his jumper. His probably came from the store, but it is made exactly like the one described here. —Editor.]

Makes Rose Beads Just Right.

A letter to the editor from Hattie M. Dye of Caney, Kan., says: "Your letter on how to make rose beads lacked mention of how to take care of the pulp, and how to polish the beads. Keep the pulp in a cool place. Soak the beads in olive oil for several hours, or strain the beads and put olive oil on a piece of black stocking and rub until polished. I apply the oil several times when they are not soaked."

Beans Keep This Way.

When I am canning beans I always put them up this way: Prepare beans as for cooking, fill tin cans and cover with cold water. Set cans on stove and lay lids on

loosely. Let boil until they can be pierced easily with a toothpick, then seal while boiling hot. They will be as nice when opened as when canned. When wanted for use pour off water, heat, and season. Mrs. Lida Smith, Humansville, Mo.

Dressmaking Lessons Free

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

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

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

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

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

Victrola VI Oak \$25



Buy this \$25 Victrola and start right now to enjoy all the delightful Victor music and fun.

Any Victor dealer will gladly play any music you wish to hear and demonstrate this wonderful instrument.

Other styles \$15 to \$200. Write for catalogs.

Victor Talking Machine Co. Camden, N. J. Berliner Gramophone Co., Montreal Canadian Distributors



10 DAYS FREE TRIAL

We ship on approval without a cent deposit, freight prepaid. DON'T PAY A CENT if you are not satisfied after using the bicycle 10 days.

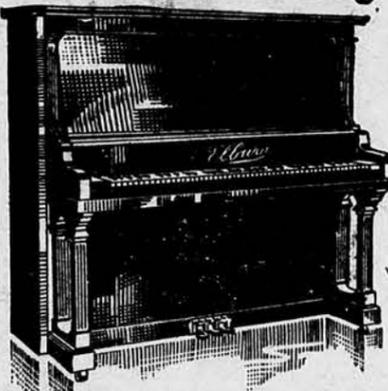
DO NOT BUY a bicycle or a pair of tires from anyone at any price until you receive our latest art catalogs illustrating every kind of bicycle, and have looked over our unheard of prices and marvelous new offers.

ONE CENT is all it will cost you to write a postal and everything will be sent you free postpaid by return mail. You will get much valuable information. Do not wait, write in now.

TIRES, Coaster - Brake rear wheels, lamps, sundries at half usual prices.

Head Cycle Co., Dept. F18 Chicago

Just as Easy to Buy a Good PIANO!



It's so simple and so satisfactory too when you buy it at Jenkins. You will never need apologize for the quality of the piano you buy at Jenkins. You'll never feel that you paid too much. You'll never hear that someone bought the same piano for less. The JENKINS ONE PRICE, NO COMMISSION PLAN IS YOUR PROTECTION.

Quality — Reliability — Economy

These positively go with every piano bought of Jenkins. We make the lowest prices in the United States on standard, high class pianos. WE'LL SEND YOU A PIANO ON APPROVAL. If it is not satisfactory in every way, send it back.

Steinway, Vose, Kurtzmann, Elburn Pianos on comfortable payments. Write for catalog and prices. High class guaranteed Player-pianos, \$435 and up. Call or write.

What They Think of Good Pianos

Gentlemen—I feel that I am indebted for a very great many courtesies in connection with my piano contract and I am very appreciative. Trusting to have further pleasant business relations with your house and assuring you that my piano is still in most excellent condition—Prof. D. F. Conrad, head of the piano department of Central College of Lexington, says it is the best Vose piano he ever played on. I am (Signed) B. M. LITTLE, Supt. Lexington, Mo. Lexington Public Schools.

J. W. Jenkins Sons Music Co., Kansas City, Mo.

YES!! → Every Woman Can Accept This Great Offer!

It is the most liberal, most attractive, most astonishing offer ever made. This beautiful Sewing Machine may be yours almost for nothing. Worth \$40—sold to my club members only at half price—no money down—30 days free trial then pay my half price in little 50-cent payments. Warranted 10 years—money back if it doesn't please. Hundreds of letters prove quality. It is THE machine for YOU—at lowest price ever quoted—just half its value. But Listen! Read On!

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

Thousands have already written for membership in my great club. I want every locality represented. My wonderful new plan makes it possible for you to get this Machine Absolutely Free by sending me just 10 names of lady friends. No canvassing or soliciting for you to do. This great free machine offer good for short time only. Get my instructions quick! Don't send the 10 names until I ask for them—but send your name and address for full details now. Don't miss this—it's the best offer ever made. Write today—a postal card will do. Address, **CAPPER SEWING MACHINE CLUB, Dept. 69, Topeka, Kan.**

Warranted 10 Years!

MARKET PROBABILITIES

(Written Specially for Farmers Mail and Breeze.)

Much smaller receipts than had been expected for over the three day holidays turned prices of livestock up the first of the week. Cattle prices were generally 10 to 15 cents higher. Killers had counted on much larger supplies, and trade hesitated for a time until they could change to a higher price level. Increased movement is forecasted for later in the week. The plain kinds net a good inquiry owing to general scarcity. Top steers ranged from \$8.75 to \$9.

A four day market for livestock last week was the shortest session of the livestock exchanges ever reported. The actual market could have been crowded into the first three days of the week, without interrupting prices as they stood at Wednesday's close, yet the three day market was important, as it opened up the trend of conditions that will control the market for the month. The one thing most important was that general showers to heavy rains fell in the central West and west Oklahoma was the most favored and in places reported above 8 inches. Kansas points especially the big pasture section received a soaking, and Missouri rains were of the slow, steady kind that went into the ground without waste. Nebraska and the northwest received a good soaking, so much that the average condition for the week ending July 5, is above normal for the season of the year. Drought conditions were eliminated from the livestock market, crops of all kinds were benefited, and the movement of cattle made dependable on demand.

The factor of next importance was the heavy movement of southern cattle, seasonable, but affording an opportunity for killers to play the big supply from that section, against the fair to good kinds from above the quarantine line. This factor influenced Kansas City and St. Louis markets to a decline of 25 to 40 cents. The choice steers were off about 15 to 20 cents. Wednesday the Chicago market was unable to care for 10,500 cattle at anything like steady prices. Shippers there were out of the market on account of the extreme heat, and local killers were not anxious for any more cattle than they could kill before Thursday's close. Prime fat cattle at all points were scarce but the trade ignored this fact and turned prices down. Killers are acting more cautiously now than at any previous time this year. Grass has figured prominently in beeves now coming, and until they can get a full test on average killing they will regard all new bunches offered with adverse prices. The season having been dry this far what flesh fat cattle have gained is hard. When grass receives excessive moisture the cattle are soft and "washy" liable to an excessive shrink. With the continuation of present conditions, September and later months should uncover a liberal supply of grass fat beeves.

It is the opinion of the trade that last week brought in the annual July break and that for the rest of the month considerable improvement will be noted. Southern cattle will not be in larger supply at any time in the near future than in the early days last week. Cattle that are deficient in flesh are due for a further decline. July and August have always been months for culling out the me'er-do-wells and throwing them on the market, at most any price. For that reason the spread in quotations will widen downwards, and average cost of beef be cheapened but moderately by the lower price range.

Canning Season at Hand.

The most important part of the mid-summer season is the canning industry. In the next three months packers will have to get the bulk of the common cows, worn out bulls, rejected calves and all such inferior parts of beeves that cannot be turned into fresh beef, and store it in cans after a cooking process. Such meat is thoroughly inspected and is doubtless wholesome food. Last summer the supply for canning purposes was far below normal, and this season there will be little if any increase. Five to ten years ago "canner" cows sold at \$1 to \$2.25, last summer, few below \$3.50, and at the beginning of the present season prices are \$3.85 to \$4.50. Doubtless there will be some increase. Medium cows and heifers were quoted off 25 to 35 cents last week and the choice dry lot kinds were down only 10 to 15 cents. Few of the last named class will be available from now on, and fancy baby beef will be a market novelty. Veal calves have not been offered as freely as was expected. Countrymen are holding most of the heifers, and only the common steers are being marketed. Bulls were quoted down 25 cents.

Stocker Prices Remain Firm.

Persistent strength in prices for stockers and feeders in the face of declining prices for fat steers was unseasonable for this time of the year. July usually sees a material price reduction in thin cattle, but at last week's close such kinds were stronger in price. Rains revived demand, and unless the supply shows a material increase in the next few weeks there will be little change in quotation. A good many calves have been contracted for fall delivery in the big range

sections and the scarcity of older cattle fore-shadows a light fall supply.

Hog Prices on a Firm Basis.

Hog prices were up 15 to 20 cents the first of the week, reaching new high levels for the season. The top price in Chicago was \$9.25, St. Louis \$9.15, St. Joseph \$8.95, Kansas City \$8.92, Omaha \$8.90.

Thursday Chicago quoted top hogs up to \$9.05, St. Louis up to \$9, and other western markets as high as \$8.77. Average prices at each market were at the high point of the past two months and for the week were the highest of the year. In the four days last week prices varied only 10 to 15 cents, and this narrow movement is thought by many to indicate that prices are in for a general advance. Pork sold up to \$21 and lard up to \$12, the highest since 1910. Packers say that current receipts of hogs, though liberal for this season of the year, afford little above requirements for fresh pork and that lard stocks are being reduced rapidly under large export requirements. June receipts at the five western markets were about 120,000 larger than in the same month last year, the first month this year to show an increase over the same month last year. Many believe the June increase was at the expense of the July run. Light receipts this month will mean higher prices up to the beginning of the winter packing season. Unless hogs are forced to market this summer on account of sickness next winter's packing season will develop a big movement of hogs.

Sheep Trade Lacks Force.

An analysis of the sheep market last week shows a decline of 50 to 75 cents

in the first two days, to a new low level for the year, and a regain of 25 cents in the next two days; an indifferent demand from both killers and countrymen, common quality in the offerings; a let up in the movement of southern lambs; an increased supply of range sheep and the beginning of the mid-summer market. Demand, however, was so uncertain that all these conditions have to be reaveraged and placed in the market next week on the basis of supply. Whether demand for killing sheep is going to show any improvement or not is puzzling the talent. Killers have been rather erratic all spring, and the only hope for an improved market is to come from increase country requirements. A good many stock and feeding sheep will be available this month and the big movement of range sheep fall in August and September. Good crops of all kinds in the corn belt will make a broad demand, as prices for thin sheep indicated at the present time are relatively lower than for stock and feeding cattle.

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	39,450	41,750	24,600
Chicago	33,500	30,000	63,000
Omaha	7,000	43,200	22,300
St. Louis	17,000	35,000	23,700
St. Joseph	4,500	20,000	6,000

Total	101,450	230,950	140,600
Preceding week	108,650	346,200	150,500
Year ago	88,300	266,500	112,500

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	761,495	680,313	81,182	.....
Calves	40,425	48,186	.....	7,761
Hogs	1,353,829	1,404,529	.....	110,700
Sheep	1,016,689	1,065,792	.....	49,102
H. & M.	44,345	44,346	.....	501
Cars	54,224	53,335	889	.....

The following table shows receipts of livestock in St. Joseph thus far this year compared with the same period in 1912:

(Continued on Page 19.)

WRITE US HAY ABOUT Your HAY

C. E. SHOFSTALL HAY & GRAIN CO.
605 Livestock Exchange, Kansas City, Mo.

Bovee's Compound Horizontal Furnaces at Manufacturer's Prices

Save 40% of fuel and cost. Burn perfectly coal or wood. 16-inch doors. Heavy coal grates—large combustion chamber—compound radiator.



Long travel of heat. Easy to operate. Most practical heating plant for all buildings, especially for farm use.

Will soon save cost in fuel.

Write for particulars.

Bovee Furnace Works,
188 8th St. Waterloo, Iowa

Buying a Wind Mill

is making contract for several years water supply. The mill that delivers the most water, the greatest number of years, at the least expense, proves the cheapest. The Challenge and Dandy Mills have proven by actual use to be the cheapest and best power known for pumping water, as the wind is free and the mills built in such a manner as to make the expense for operating practically nothing. Send for Catalog No. 62.

CHALLENGE COMPANY 131 RIVER ST. BATAVIA, ILL.

July-August BARGAIN SUPPLEMENT

SEARS ROEBUCK AND CO.

CHICAGO, ILL.

THIS SALE CLOSES AUGUST 31, 1913

Six Pairs Men's Socks, 79c. Guaranteed to Wear 6 Months

Genuine Amoskeag Chambray Shirts for Men, 33c

Women's Long Silk Gloves, 53c

Regular \$5.00 Quality Wool Filled Blankets, \$3.87

Two Dozen Cup Shape Pure White Pearl Buttons for 6c

Two Dozen 1/2 Pint Heavy Crystal Jelly Tumblers, 35c

One Dozen Silk Hair Nets for 19c

45-Lb. Felted Cotton Mattress, \$4.98

Greatest of all Midsummer Sales. For sixty days ending August 31st, we eclipse all previous efforts in bargain price-making.

Don't send for this book if you are already a customer of Sears, Roebuck and Co. We have mailed a copy to each and every one of the five million customers who have sent us an order since January 1, 1912.

But if you haven't bought of us since then, and if you really want to share in the greatest of this year's bargain sales, then just write "July-August Bargain Supplement" on a postal card, sign your name and address and mail to



- The Year's Greatest Bargains in Women's Dresses
- Fall Coats for Women
- All Wool Mixed Suits for Men
- Ostrich Plumes
- Shoes for Women, Men and Boys
- Baby Flannels
- All Linen Towels
- Table Damask

Special Offer on the World's Best Sewing Machine

Look for Our July-August Stove Proposition

"Ben-Hur," the Greatest Novel Ever Written by an American. Never Before Sold Under \$1.50; NOW 48c

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.

WHY NOT ADVERTISE YOUR LIVESTOCK ON THIS PAGE?

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

HOMES, CATTLE, HOGS, SHEEP.

REGISTERED Jersey bulls, Sable & White Stock Farm, Seward, Kan.

THREE JACKS and three jennets for sale. E. Brown, Mincola, Mo.

TWENTY or more yearling steers for sale. Address S. H. Miller, Guymon, Okla.

REGISTERED Shropshire rams, Duroc boars, cheap. Arthur Bennett, Topeka, Kan.

TWO registered Holstein bulls, serviceable ages, choice ones, priced right. F. J. Searle, Okaloosa, Kan.

FOR SALE—10 extra fine, Dec., Poland China boars. Herd headers. Otis Warrenburg, Centralia, Kan.

SOME choice Jersey bulls that must be sold quick. Two nearly ready for service. Chester Thomas, Waterville, Kan.

HOLSTEINS FOR SALE. One registered bull twenty months old, and five grade cows. B. E. Miller, Independence, Kan.

FOR SALE.

FOR SALE—Two gas tractors. S. B. Vaughan, Newton, Kan.

TRANSFER and storage business for sale in good town. Address N, care of Mail and Breeze.

ONE 18 horse power Olds gasoline engine at a bargain if taken quick. F. B. Bonebrake, Osage City, Kan.

BUTCHER SHOP for sale; good business; population 600; no other shop here. Address Sam Wedel, Pawnee Rock, Kan.

FOR SALE—Blacksmith shop tools and material; for further information address D. L. Thompson, Burns, Kan., Marion Co.

ALFALFA FOR SALE—Non-irrigated alfalfa seed. Send for prices and samples. Ross Brothers Seed House, 301 E. Douglas, Wichita, Kan.

FOR SALE—Home canning plant, steam equipped and practically in good condition. 250 to 1,000 cans per day. A trucker's plant right. H. A. Stine, Holton, Kan.

LIGHTNING LICE POWDER for poultry. Large pkg. sent postpaid for 35 cts. Satisfaction guaranteed. Do not send stamps. A. M. Kissell & Co., Bucklin, Kan.

SINCE I have no use for it, I offer for sale one "Little Giant" wagon dump and grain elevator. New, never been used, at a sacrifice. Frank Weeks, Assaria, Kan.

FOR SALE—Three thousand seasoned hedge posts. Posts 6 to 19 feet long; 2 to 6 inch sizes. Mixed posts including 350 corners. 12 1/2 c each here as they come. Box 211, Winfield, Kan.

FOR SALE OR EXCHANGE.

FOR SALE OR EXCHANGE—Candy kitchen and ice cream parlor. This will bear investigation. C. C. Charles, Seneca, Kan.

A GOOD threshing outfit to trade for land. Also some nice irrigated land in the Laramie valley, Wyoming, to trade for land in western Kansas. W. J. Trousdale, Newton, Kan.

\$6,000.00 STOCK gen. mdse., small town E. central Kan.; good condition and doing excellent business. Owner aged; must quit; will sell right or exchange for small farm in central Kan. Address "Opportunity," care of this paper.

FOR SALE OR TRADE—Stock of farm implements, wagons, buggies, harness, gas engines, separators, etc. Will sell for cash or trade for land. Stock will invoice about \$9,000. Address all letters to Geo. I. McRoberts, Mulhall, Okla.

TOBACCO STEMS.

TOBACCO STEMS. \$2.00 per case of 100 lbs. or over. Good for sheep-dip and exterminating lice on chickens and insects on all vegetation. C. S. Eagle, 710 Jackson St., Topeka, Kan.

New Hay Grass For Dry-Farmers

Sudan grass, brought here from South Africa by the U. S. department of agriculture, promises to become the leading grass for hay production in the semi-arid West, wherever no other perennial grass has yet been found suitable. Under more humid conditions it will probably replace foxtail millets to a large extent, as it produces better hay and usually larger yields.

There is still much to learn in regard to the crop, but it has been tested carefully in Texas, and has had at least a year's trial at many places on the Great Plains and at various experiment stations.

Under light rainfall conditions, it is probably best to sow Sudan grass in rows, yet excellent results have followed broadcasting, and the grass grown that way does not become too coarse for

LANDS.

45 ACRES, improved, four miles out, \$4,700. W. R. Axtell, 1253 Mulvans, Topeka.

FARMS in any state, for sale at a bargain. W. Broadus, Box 77, Leavenworth, Kan.

8 ACRES in city limits, improved, suitable for town lots, \$3,000. Box 702, Pratt, Kan.

FOR SALE—167 acres, good land, two sets good improvements. Write Jacob Naugle, Redfield, Kan.

SEND for map and illustrated description of Anderson county and free list of farms. Bronston & Sons, Garnett, Kan.

ARKANSAS—If you want good farms where farming pays, health, elevation, sure crops, write Hodge Co., Mansfield.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

SIXTEEN hundred dollars buys quarter section broom corn land, Hamilton county, Kansas. Fenced, house. George Paul, 1734 North Clark, Chicago.

DELAWARE, the diamond state. New booklet; unusual opportunities; ideal homes. Fruit, or diversified farming. State Board of Agriculture, Dover, Del.

FREE copy of Real Estate Bulletin describing over 100 farm bargains and thousands of acres unimproved land in Minnesota. E. Akerson, Lindstrom, Minnesota.

300 ACRE farm, joins city limits; 100 alfalfa, 100 acres wheat, balance timothy and clover and pasture; large 5-room dwelling, large barn, bins, crips, never falling water. Terms, address owner, Lock Box 496, Altoona, 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 5c a word. Address Kansas Weekly Capital, Adv. Dept., Topeka, Kan.

FOR RENT—Combination stock and grain farm in Sherman county, Kansas. 1,600 acres. 500 acres cultivated, 1,100 acres grass. Will rent three years. Might furnish some stock, and give possession now. First Trust Company, Loup City, Sherman county, Nebraska.

BUY OF OWNER—One nine room house, with bath, barn and good cistern, near normal and new high school. One eight room house, entirely modern, good barn and cistern, five blocks from normal. Good bargain and easy terms. H. C. Coffman, 228 Exchange St., Emporia, Kan.

\$1.00 SELLS THE FARM. Do you wish to sell? Do you wish to buy? We will list your property, advertise it, and put you in touch with prospective purchaser, also send you a leading farm journal for one year. Send us \$1.00. Write for particulars. Reference Hamilton National Bank. Armstrong & Williams, Dept. 825, 17th St., Denver, Colo.

\$25.00 REWARD. I will pay this amount to you for each customer to whom I sell 160 or more acres, if you send me the name of the customer first. I want names and address of persons wanting to buy land somewhere, and who are able to buy. The person first sending the name of a customer is entitled to the reward. John W. Baughman, Liberal, Kan.

TEXAS LAND on 15 years' time. Farms in 20, 40, 80 and 160-acre tracts, north of Houston, in the famous southeast Texas Coast Country, at \$30 to \$35 an acre cash and balance in payments running fifteen years. Possession at once. Railroad through land; store, postoffice and station. Fertile soil—produces money-making staple crops of corn, cotton, potatoes, peanuts, cane, as well as truck and fruit crops that net \$100 to \$300 an acre; mild climate, two crops a year; splendid hog and cattle country; pure water, ample rainfall, no irrigation needed; good markets. Greatest opportunity ever offered the renter, young men, those who want more land, and investors, to get a real farm—not a truck patch. Sale just opened. Write today for free maps, plats, and illustrated literature. C. L. Peirce, owner, 251 First Nat'l Bank Bldg., Houston, Texas.

LANDS.

PAWNEE VALLEY STOCK FARM. Double Standard Polled and horned Herefords. 100 bulls, singly or car load lots. Write your wants. Wal ce Libbey, Larned, Kan.

BEAZORIA CO. Texas, 50 acres Oyster creek bottom farm, all tillable, well drained, don't overflow, very fertile soil, well improved, \$40 per acre. Write for bargains in other farms. John Gilbert, Anchor, Texas.

FARM FOR SALE—200 cult., 40 pasture. Never falling well, 6 room house. Barn. Granary. Orchard. 20 a. alfalfa. 4 mi. town. R. D. phone. Priced to sell. J. E. Lester, owner, Hazelton, Barber Co., Kan.

SEEDS AND NURSERIES.

WHIPPOORWILL cowpeas re-cleaned and good seed \$2.25 per bu. Herman Ruppel, Iaola, Okla.

FOR SALE—Red clover, timothy, and blue grass farms, good terms, rich soil. Write for list. Tannehill Brothers, Garden City, Mo., Cass Co.

NICE Whippoorwill cow peas \$2.75 bushel, sacked; freight paid in 5 or 10 bushel lots. Now's the time to plant. Brooks Wholesale Co., Ft. Scott, Kan.

ALFALFA SEED for sale. I have about 100 bushels of choice alfalfa seed for sale at \$7.00 to \$8.00 per bushel f. o. b. cars. Ask for samples. E. A. Fulcomer, Belleville, Kan.

AGENTS WANTED.

CAN USE a few old experienced salesmen for Oklahoma and Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

AGENTS, special representatives. Good money for live energetic salesman to sell the Turner Tubular Gasoline or Locust torch to farmers and ranch owners. Recommended by the Kansas State Agricultural college. Address: The Turner Brass Works, Sycamore, Illinois.

MALE HELP WANTED.

CITY MAIL CARRIERS—Postal clerks—wanted. Commence \$65.00 month. Apply Franklin Institute, Dept P 53, Rochester, N. Y.

WANTED. Reliable men to sell nursery stock. Outfit free. Liberal terms. Pay weekly. Experience unnecessary. Chanute Nurseries, Chanute, Kan.

YOU GET A GOVERNMENT JOB. "Pull" unnecessary. Thousands of appointments coming. List of positions free. Franklin Institute, Dept P 53, Rochester, N. Y.

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.

4TH CLASS POSTMASTER positions now open to everyone. Examinations everywhere may be called any time. Write for full description. Franklin Institute, Dept R 51, Rochester, N. Y.

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.

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

HELP WANTED.

WILL PAY reliable woman \$250.00 for distributing 2000 free packages Perfumed Soap Powder in your town. No money required. M. E. Ward & Co., 215 Institute Pl., Chicago.

U. S. GOVERNMENT POSITIONS open to men and women. \$55 to \$100 month commencing. Vacations. Steady work. Over 12,000 appointments this year. Parcel post requires several thousand. Influence unnecessary. Write immediately for free list of positions. Franklin Institute, Dept P 53, Rochester, N. Y.

SALESMEN WANTED.

SALESMEN WANTED in every county. Liberal terms; cash weekly. Outfit free. Write for terms. Fayetteville Nurseries, Dept 2, Fayetteville, Arkansas.

OILS.

WRITE us for prices on oil and greases. Complete line; lowest prices; immediate shipments. The Neosho Valley Oil Co., Chanute, Kan.

PATENTS.

SEND FOR FREE BOOKLET. All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C.

MEN OF IDEAS and inventive ability should write for new "Lists of Needed Inventions," "Patent Buyers" and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

DOGS.

SCOTCH COLLIES. Western Home Kennels, St. John, Kan.

GREYHOUND pups, from fast stock, cheap. John Noble, Riley, Kan.

FOR SALE—Cheap; Scotch collie pups; farm raised. Can be registered. Belden Bros., Hartland, Kan.

SCOTCH COLLIES—Pedigreed, workers and show dogs. Shipped anywhere. Welcome Arch Collie Kennels, 1833 East 28th Ave., Denver, Colo.

MISCELLANEOUS.

E. R. BOYNTON HAY CO., Kansas City, Mo. Receivers and shippers. Try us.

MISSOURI AUCTION SCHOOL, largest in world. Own largest living mule. 1404 Grand, Kansas City.

PLACES found for students to earn board and room. Dougherty's Business College, Topeka, Kan.

FOR 50 CENTS, I will send 1 qt. of first class hair tonic with formula. Swastika Novelty Co., Wichita, Kan.

SOMETHING NEW. A dandruff remedy that makes good. Write for information. Leader Supply Co., Box 723, Dep. 5, Poplar Bluff, Mo.

THE ANDERSON LOADER, loads manure, cornstalks, stackbottoms, dirt, gravel, sand; no hand work. Write Anderson Mfg. Co., Osage City, Kan.

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

LEGAL.

MEETING OF KANSAS GRAIN GRADING COMMISSION.

Notice is hereby given that under the provisions of Chapter 222 the board of grain grading commission will meet at the office of the Governor in Topeka, on the 29th day of July, 1913, and establish the grades of grain to be known as Kansas grades; to be in effect on and after the first day of August, 1913.

J. G. MAXWELL,
THOMAS PAGE,
A. T. RODGERS, Secretary.
Grain Grading Commission.

palatable hay. Although similar in appearance to Johnson grass, Sudan is far superior as a forage crop, as it is more bunchy, putting out more stems and many more leaves. Horses and cows eat it greedily, none of the stems, which contain a great deal of sugar, being wasted, as is often the case with the coarser grasses.

For a pamphlet on this new drought-resistant hay plant write the U. S. department of agriculture, Washington, D. C., and ask for B. P. I. circular No. 125 on Sudan grass. Mention Farmers Mail and Breeze.

Breeders' Clubs For Counties

Edward C. Johnson, superintendent of farmers' institutes in Kansas, writes the Mail and Breeze that he believes the time is ripe for starting purebred sire or breeders' associations in every county

where a county agent is located. With the county agent as an organizer he thinks such a movement can be given a good start in Kansas.

A club of this kind could be very effective in helping each community to specialize and gain a reputation in stock of a certain kind. It would be of immense aid in promoting the use of high grade sires by exchange of animals when their usefulness in the home communities is at an end. Also it would be likely to prevent the introduction of a Clyde horse into a Percheron community, a Percheron horse into a Clyde community, a Jersey bull into a Holstein community, or a Holstein bull into a Jersey community, etc. Such an organization would make co-operative or community breeding possible and would be of great advantage in selling good stock at a good price.

Some of the county agents already

are planning to make their counties known for certain breeds of cattle, writes Mr. Johnson. For instance, Montgomery and Leavenworth counties probably will be known as Holstein counties, that being the predominating dairy herd in those counties. In the same way Allen will be known as a Jersey county. The plan has numerous and great possibilities for stock raisers as has been proved in Wisconsin and other states.

Find enclosed check for \$2 for the good old Mail and Breeze, which I couldn't get along without.—W. E. Reed, Randall, Kan.

HOSE GERMINE
Makes bluish horses valuable. Cleans up bad legs without laying them up. No stinging, or money refunded. Reference any bank nearby. Write me describing case fully. C. R. HARTMAN, P. O. 6, Shawnee, Okla.

BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

Special Notice

All advertising copy, discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

FOR SALE—Imp. 1/4 sec. stock farm. Also wheat quarter. J. H. King, Cawker City, Kan.

320 A., finest stock and grain farm eastern Kan. Watkins Company, Quenemo, Kan.

MORTON COUNTY—Write for new list of snaps and information regarding this country. Luther & Co., Rolla, Kan.

FOR EXCHANGE—600 a. fine land, Wharton Co., Tex. Want Cen. or E. Kan. land. Write for information. Walter Hanson, Sabetha, Kan.

320 ACRES Franklin Co., Kansas. 1 mile town, new house and barn, good location. \$60 a. A. E. Clark & Son, Pomona, Kan.

GET on the new R. R., where land only sells for \$10 to \$15 per a.; best land in state; fine water. Life Real Estate Co., Hugoton, Kan.

120 A. 5 mi. out, fine impr.; 75 a. in cult., bal. timber and pasture. \$50 per a. 4 a. 1. ml. out, well impr.; \$1,600. Both clear. No trade. J. A. Decker, Valley Falls, Kan.

CLARK CO., KAN. 800 a. 7. ml. south of Bloom, 12 of Minneola; 400 broken and planted 1913. About 200 hay and grazing; inexhaustible springs; fenced; \$15,000. Terms. Owner, Robt. C. Mayse, Ashland, Kan.

360 A. in Franklin Co., 2 miles from railway; 6 room house; barn; other buildings; 1/2 cult.; bal. meadow and pasture. \$40 acre. Porter Land Co., Ottawa, Kansas.

ARK. land. 444 a. sandy loam adjoining town of Washington; large house, 4 tenant houses, fine timber, plenty water, 80 a. Bermuda grass. \$25 a. Terms. Write for list. Horton & Co., Hope, Ark.

FOR SALE BY OWNER. 16 quarters, adjoins German settlement Minneola. Small part, bal. 8 years 6%. Write at once. Box 317, Minneola, Kan.

JEFFERSON COUNTY BARGAINS. 195 acres, improved, 4 miles out, \$4,250.00. 160 acres, improved, 4 miles out, \$50 per a. 80 acres, improved, 4 miles out, \$60 per a. 100 acres, improved, 5 miles out, \$65 per a. 80 acres, improved, 3 miles out, \$70 per a. 200 acres, finely improved, 3 mi. out, \$70. COMPTON & ROYER, Jefferson Co., Valley Falls, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. CATTLE RANCHES T. B. GODSEY, Emporia, Kan.

For Land Bargains on new railroad in Gray County, write C. A. LIVINGSTON LAND COMPANY, Montezuma, Kansas. "Special List to Dealers."

CHASE COUNTY BARGAINS. 480 acres, 180 acres cult., creek bottom, 65 a. alfalfa, best of water, fine improvements; 2 1/2 miles of town. R. F. D. and telephone. Price \$50 per acre. Other farms. A. J. KLOTZ & CO., Cottonwood Falls, Kan.

Ranch For Sale or Lease. 640 acres, 7 miles from county seat town, on new Santa Fe railroad. All fenced and 160 acres in cultivation. Good well. Will sell for \$10.00 per acre or will lease to right party. Address Box 704, care Mall and Breeze, Topeka, Kan.

Only \$3.00 Cash Balance \$1.50 Per Month

pays for level, well located, 50x140 ft. lot at \$30 for inside lots and \$35 for corners—in the prosperous little city Plains, Kan. Where prices are advancing rapidly and good profits assured. Send first payment for contract on guaranteed lot or write for complete information. MUST ACT QUICK. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

Cream of Neosho Valley Alfalfa Land

990 acres of the best bottom land 1 mile from Chetopa, will produce choice alfalfa, wheat corn and potatoes. 450 acres in cultivation, 140 in meadow, 380 in pasture, 70 acres alfalfa, cuts 4 and 5 crops a year, 500 pecan trees, some timber in pasture; main traveled road through farm; two sets of buildings, one 8 room house with barn 40x40, one 5 room house with barn 24x36, splendid orchard land, alluvial soil 25 feet deep, best of pure soft water in unlimited quantities at a depth of 25 feet, healthy locality, no malaria, no rough land, no bluffs or rocks, can be subdivided. Price \$48.00 per acre in payments. No trades.

160 acres splendid land; 50 acres in cultivation; 60 acres in meadow; hog and stock pasture; good orchard of young trees; six room house; barn 32x42, cribs and other outbuildings; 25 acres of this land is very rich bottom land; one of our best bargains; price \$5,500.00.

138 acres splendid alfalfa, corn and orchard land, one mile from Chetopa, Kansas; 160 miles south of Kansas City. High bottom land, never loses crop from overflow; 25 acres in alfalfa, cuts 4 crops per year; no irrigation necessary; 60 acres in wheat to be followed by alfalfa fall of 1913; all fenced, no buildings. \$50 per acre, easy payments. Other bargains, send for list.

J. B. COOK, Owner, Chetopa, Kans.

BARGAIN: 80 a. imp. 4 miles out. \$3,800. Send for land list. F. C. LIBBY, Blue Mound, Linn Co., Kansas. J. L. Wilson, Salesman.

SECTION, 1/4 alfalfa land; balance hay or pasture. Fine imp. Plenty of water. Five miles town. P. D. Stoughton, Madison, Kan.

266 ACRES, improved. 115 acres bottom land. Write for description and terms. W-P Farm & Mortgage Co., Burlingame, Kan.

SOME BARGAINS: I am going to change my location and I have three farms to sell, and must sell regardless of price. Write for price and terms. J. D. Reneau, La Cygne, Ka.

320 A. good land in Stevens Co., Kan. 6 r. house, stable, well and mill; fenced; 100 a. cult.; ideal stock or dairy farm; carry \$1,250 if desired. John A. Firmin, Hugoton, Kan.

80 ACRES, 1 mile from county seat, Osage Co., Kan. 6 room house, barn, plenty water. Grass land except 10 acres. High school and church. W. M. Rock, Lyndon, Kan.

AT \$11.00 PER ACRE. 12,000 a. ranch in Meade Co., Kan. 1,000 in cult., over 50% tillable, plenty water and grass, only 2 mi. from town. Terms on part; will divide nicely into smaller farms. Pralle Bros. Realty Co., Bremen, Kan.

I HAVE the finest grain, stock, and alfalfa farms in Sumner county, from \$45 and up, per acre. Well improved. Good water. Fruit and vegetables. Write me what you want. Information free. I also make exchanges. Write H. H. Stewart, Wellington, Kan.

MCPHERSON COUNTY, KANSAS. 160 a. improved, all tillable, must be sold soon to close estate. Bargain \$6,500. Write for particulars. 80 a. well improved, all smooth land, \$4,000, \$300 down, bal. 6 per cent. Write Box 41, McPherson, 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.

STOCK RANCH IN CHASE CO., KANSAS. 1,824 acres, 4 miles from railroad; 150 acres cultivation, some alfalfa; balance finest bluestem; fine springs and stream; improved; price \$50,000. Terms; no trades. Other farms and ranches. J. E. BOOCOOK, Cottonwood Falls, Kan.

BUTLER CO. RANCHES. 3,000 acres imp., 300 cult., bal. best bluestem pasture. \$30.00. Terms. 3,700 acres, no imp., fenced. Permanent water. All pasture. Close to R. R. Other smaller ranches and farms. V. A. OSBURN, Eldorado, Kan.

LINN COUNTY FARMS. Biggest bargains in Kansas. Corn, wheat, timothy, clover, bluegrass land \$15-\$30. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illustrated folder free. EBY-CADY REALTY CO., Pleasanton, Kan.

ALONG THE NEW RAILROAD. IN THE SHALLOW-WATER COUNTRY. Large and small tracts, improved and unimproved ranches, on easy terms, in Haskell, Grant, Stanton, Stevens and Morton counties, Kansas; Texas county, Oklahoma; and Baca county, Colorado; ALONG THE NEW RAILROAD NOW being built by the Santa Fe from Dodge City to Colmor, N. M. GET MY PRICES AND TERMS. FLOWING ARTESIAN WELLS — INEXHAUSTIBLE UNDERFLOW. Agents wanted. DON VAN WORMER, Rolla, Kansas. Richfield, Kansas.

MUST SELL. 175 acres located in Franklin county, Kan., half mile of a good town; 8 miles of Ottawa; 7 room house, barn 40x60; other outbuildings; all buildings are in good condition; two never failing wells with gasoline engine; all land hog tight; 40 acres bluegrass; 30 acres in clover. Price \$60 per a. \$4,000 enc. at 5%.

162 acres located well; all fenced and cross fenced; 70 acres in grass land; remainder in cultivation; price if sold at once \$47 per a.

165 acres, 2 ml. of small town; 130 acres in cultivation; 85 acres clover; 20 a. alfalfa; 30 acres native grass; barn 30x40x16; 7 room house; buggy shed; cattle shed 20x80; other good outbuildings. Never failing water. Price \$10,400, terms to suit. MANSFIELD LAND CO., Ottawa, Kan.

FOR SALE—160 a. good land in Gray Co., Kansas. Might consider small stock of hardware. Lock Box 257, Macksville, Kan.

HOMESEEEKERS attention. A party is going to California for health; will sell his farm at a big sacrifice, only a small payment down. Kysar Realty Co., Goodland, Kan.

160 ACRES in Marshall Co., Kansas. 1 1/2 miles from town; 120 acres in cult., bal. pasture and timber. 5 room house, barn 24x32, crib 16x32, cattle shed 15x48, granary, good arch cave and other outbuildings, 2 good wells; all the above improvements are in good repair. Price \$13,000.00; inc. \$4,000. Want mds for the equity. Might add some cash. E. A. Miller, Centralia, Kan.

COMANCHE COUNTY BARGAIN. 480 a. improved, 9 miles from Coldwater. 173 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

MONEY-MAKERS AND GOOD HOMES. Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mds. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/2 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

FARMS FOR THE POOR. Imp. E. Kan., Neb., and Mo., EASY PAYMENTS, or exch. Also Topeka homes. Kaw Valley Exchange, 104 E. 5th, Topeka, Kan.

SEDGWICK COUNTY FARM BARGAINS. 80 a. farm near R. R. town, good 6 room house, large new barn, orchard, fine water, good land, only \$4,500.00. Terms, one-third crop. 145 acre farm, good house, 2 barns, best land, \$58 per a. Terms to suit. 21 a. bottom farm, good house, barn, 12 a. alfalfa, in suburbs of Wichita, \$6,500. 280 a. bottom farm—an alfalfa proposition; soft water, 15 feet any place on farm. \$50.00 per a. Terms to suit. Call or write H. E. OSBURN, 227 E. Douglas Ave., Wichita, Kan.

Good Quality at Low Cost. 235 acres near Garnett, Kansas, most bluestem meadow, low price. 60 acres, well improved, 3 ml. of town, subject to one year lease. 160 acres, 1/2 ml. of town, well improved. SPOHN BROS., Garnett, Kan.

COLORADO. WILL SELL you eastern Colo. alfalfa farms. Irrigated \$65 to \$150; non-irrigated \$5 to \$35. Trades considered. Demaray & Paschall, Holly, Colo.

320 HOMESTEADS 320. I now have a few 320 acre homesteads relinquishments at from \$200 to \$1,000, perfectly level, every acre tillable, no better soil, fine water, good schools, in good neighborhoods. They will not last long. If you want a home write me now. R. T. CLINE, Towner, Colo.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mds. F. Gass, Joplin, Mo.

EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.

TRADES everywhere. Get our large list. Burrow's R. E. Ex., Warm Springs, Ark.

\$16,000 GENERAL merchandise, never changed hands; for good Kansas land. A. W. BREMEYER & CO., McPherson, Kan.

WANTED GOOD FARMS in exchange for first class Kansas City income property. List your farm. O. F. Hunter, Independence, Kan.

FOR SALE—Choice wheat, corn, and alfalfa lands, in Clap, Ford, and Meade Co. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

FARMS, stocks, and city property for sale or trade. What have you to offer? Bigham & Ochiltree, 802 Corby-Forssee Bldg., St. Joseph, Mo.

GIVE ME full description of any really good property you wish to trade. I am in a position to do business. John D. Jones, Plains, Kan.

FOR SALE OR EXCHANGE for stock of goods, livestock, or farm—5 good residences, 5 and 6 rooms. Good rent, some income. What have you to offer? Fletcher Davis, Hutchinson, Kan.

FOR SALE OR EXCHANGE. Good wheat and alfalfa land in Ford and adjoining counties. Nothing but tangible propositions considered. Give full description in first letter. Prices \$15 to \$40 per a. Ranches for colonizing. G. L. Painter & Co., Dodge City, Kan.

320 ACRES, Only Co., Tex., all fine land, well improved, 20 acres Elberta peach orchard; wants suburban or land Ark. valley; about 12 to 16 thousand deal. Assume some. Have some fine ranches for smaller farms. Buxton, Utica, Kansas.

FOR SALE AND EXCHANGE. Washington Co. improved farms at \$50 to \$180 a. Write F. E. Beeson, Washington, Ks.

YOUNG FARMER'S CHANCE

To trade a farm for a well established business in a thriving little town in West Central Kansas. Real estate and insurance, notary public, grain elevator, residence and office. Postoffice in building with a chance at it. Stock of John Deere and I. H. Co. implements, total about \$7,000. Address "P," care of Mall and Breeze, Topeka.

ARKANSAS

80 A. Impr. valley farm; on Ry. 35 cultivation. \$15 a. Robert Sessions, Winthrop, 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.

ARKANSAS lands for fruit and general farming, \$10 an acre and up. Also some cheaper land. Write for free list and literature. H. C. Towson, DeQueen, Ark.

160 ACRES one mile from Oliver, Ry. town; church, school; partly improved; good timber. In Scott county, Arkansas. Price \$3 per acre, cash. Box 308, Heavener, Okla.

17,000 ACRES, no rocks, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 20 yrs. at 6%. Employment. TETTER & Co., Op. Union Depot, Little Rock, Ark.

BARGAIN. Well improved 160 near Raven-Springs, Ark. All new buildings, good land, large orchard. Quick sale, don't miss this. Burrows, Warm Springs, Ark.

FREE HOMES in north Arkansas; map showing location of two hundred thousand acres, subject to homestead. 25c. Ozark Homes, Locating & Publicity Co., Department A-2, Harrison, Arkansas.

600 ACRES level upland, 7 ml. from good town. 300 acres in cultivation, 1,000,000 feet timber. Good residence, 6 tenant houses, good water. A complete gin system. A complete saw mill. A bargain, price \$20.00 per acre. 1/2 cash, bal. one and two years. Floyd Porterfield Company, Hope, Ark.

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.

LOUISIANA LANDS. We offer some bargains in Louisiana lands near Shreveport. Write for free map of state. W. A. Jones, Shreveport, La.

FLORIDA

FOR SALE BY OWNER: Four very desirable improved pieces of property in Alachua county, Fla. 90, 20, 30 and 30 acre tracts on large lake. Not to be classed with the ordinary Florida lands being offered for sale. Terms to suit customers. T. S. McManus, Waldo, Fla.

NEW YORK

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalog. Hall's Farm Agency, Owego, Tioga county, N. Y.

CANADA

CANADA For sale, improved farms, ranches and raw lands in Southern Alberta. LYNN W. BARRETT, Aldersyde, Alberta.

NEW TOPEKA RESIDENCE to trade for good residence in good town in north central Kansas, by traveling man making that territory. Address Box 711, care Farmers Mail and Breeze, Topeka, Kan.

FOR SALE OR EXCHANGE. Modern equipped real estate, loan and insurance company, excellent business and territory, established 25 years, \$1,000,000 ins. on books. Profit last year \$1,800. Want real estate. For complete description on this money maker write Rayfield Realty Co., Horton, Kan.

Buy or Trade with us—Exchange book free. Bersie Agency, Eldorado, Ks

160 Acres of land to exchange for Holsteins. H. N. HOLDEMAN, Meade, Kan.

Far Sale or Trade by Owner. 640 a. 6 ml. of Ingalls, Gray Co., Kansas; 170 a. in cult., 320 a. fenced; well, house, and barn. \$17.50 per a. Terms \$6,200 cash, bal. time at 6% int. or trade for small place as part payment. Address JAMES PIZINGER, Holsington, Kan.

For Sale or Trade. A fine valley farm of 160 acres, six miles from Fredonia, on county road. All smooth land, good soil, free from stone. House, barn and orchard. Price \$9,600. Mortgage \$2,250. Will exchange equity for merchandise or for good rental property. C. A. LONG, Fredonia, Kansas.

For Sale or Trade. I want to sell an \$8,000 stock of general merchandise and \$5,000 stock of lumber. Stock in good shape and located in the best part of northern Okla. This business has made the present owner wealthy and he wishes to retire. Will take in trade a good farm in Harper, Sumner or Sedgwick Co., Kan., at a fair price. Refer to any wholesale house in Anthony or Wichita, Kan. Address owner. H. S. DAVIS, Amorita, Okla.

MISSOURI

WRITE Morris & Walker for list of south Missouri farms. Mountain View, Mo.

HOMESSEEKERS farm list. Southwestern Land & Imml. Co., Springfield, Mo.

200 A. valley farm, impr. \$20 acra. Maps, views free. Arthur, Mountain View, Mo.

\$5 DOWN, \$5 monthly, buys 40 acres grain, fruit, poultry land, near town. Price \$200. Other bargains. Box 372, Carthage, Mo.

807 ACRES practically all tillable, 4 miles from Amsterdam, Mo. 60 miles south of K. C. Well watered and fenced. No rock. Price \$53 per acre. J. D. Sage, Amsterdam, Mo.

VALLEY FARMS, \$25 to \$40; unimproved lands, \$6 to \$30; orchard and berry farms, \$40 up; water and climate unequalled. Literature and free list. ANDERSON REAL ESTATE CO., Anderson, Mo.

SOUTHEASTERN MISSOURI LANDS—If you want to become independent, buy a farm in Scott Co., Mo., in the rich drained lands that raise anything and raise it certain. All we ask is a chance to "show you." Prices very reasonable. Write F. S. Blos, Oran, Mo.

ONE of Howell Co., Mo., good farms, 379 a.; 170 cult., 3 room house, good cellar. Large barn, other buildings. Orchard, fine water, 2 mi. railroad town, 3 mi. county seat, West Plains, on R. F. D. and phone line. 1/2 mi. school. \$40 a. No trade. A. P. COTTRILL LAND CO., Panama, Howell Co., Mo.

A SNAP FOR THE CASE. 300 acres, 100 fenced, 120 cultivated. 2 1/2 miles to postoffice, 1 mi. to school, 10 to county seat. Good house and barn; everlasting spring, fruit; price \$4,000. Will give terms. KIRWAN & LAIRD, West Plains, Mo.

CASS COUNTY, MISSOURI. 40 acres, smooth and improved, \$30.00. 80 acres, fine second bottom, \$75.00. 120 acres, fine and sandy, snap, \$75.00. These farms are improved, well located. Can give terms to suit; they are priced right. CHARLES BIRD, Harrisonville, Mo.

OZARK LANDS FOR SALE. 40 a., all fenced with woven wire, 30 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.

FAMOUS BLUEGRASS LANDS. 160 a. 2 mi. King City, 31 mi. St. Joseph, well improved, all under plow, plenty of water and practically all hog tight fencing, splendid state of cultivation, \$125 per a., clear. 80 a. 3 mi. out, well improved, all under plow, \$125 per a. 240 acres, well improved, 1 mi. out, every foot tillable, ideal home, plenty of water and beautiful location, \$140 per a. Very best farms in the famous bluegrass belt of Missouri. No trade. W.L. BOWMAN REALTY CO., King City, 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., Baltimore, Mo.

Ozark Unimproved Farm Bargain. 150 acres of good unimproved farming land, near Van Buren, county seat of Carter Co. Fine pasture land, good for dairy, fruit and in fact you can raise almost anything you can raise in the North. Located in the Ozarks of Missouri. Makes the climate the very best. Excellent water. Price \$10 per acre. For full particulars write JOHN M. CARNAHAN, Van Buren, Mo. (County Recorder Carter Co.)

NEW MEXICO

FOR SALE—Improved and unimproved farms. Also city properties, cheap. Good investments. Jas. J. Hall, Tucuman, N. M.

CHEAPEST, best irrigated lands in the world \$25.00 to \$40.00 per acre. For information address Dan Vinson, Fortales, N. M.

OKLAHOMA

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

FOR RENT. 500 acres first class bottom land joining Chickasha, Oklahoma. Level, no rock or stumps. Price \$4 per acre cash in advance. This farm is for sale also. Golden Gate Trust Co., Chickasha, Okla.

BEST alfalfa farm in Oklahoma. 90 a. growing alfalfa, 25 a. wheat, 25 a. oats; 2 mi. hog tight fence; one-half mile to \$50,000 federal building. The greatest bargain ever offered. One-half mile to this city. C. W. Smith, Kingfisher, Oklahoma.

OKLAHOMA ALFALFA, COTTON, WHEAT lands. 160, small improvements, 120 in cultivation, \$3,200. 320, mostly alfalfa land, \$12,000. 180, fair improvements, 140 alfalfa land, \$8,500. 320 stock farm \$4,000. Write for full information. R. L. Knie, Cordell, Ok.

280 A. 6 miles McAlester. All prairie, 100 a. tillable. Bal. meadow and pasture. Good neighborhood, rural mail, school close. Quick sale, \$10.50 a. No exchange. Crop good. Price advancing. Buy now and get share crop. Southern Realty Co., McAlester, Okla.

TEXAS

BRAZOS bottom farm, 320 acres, 110 cult.; 2 houses, very fine soil. \$45 per acre, 1/2 cash, balance easy. Winston McMahon, 317 Beatty Bldg., Houston, Tex.

CORN, cotton, potatoes and rice are making our farmers good money. Prices from \$25 an acre up. A few special bargains. Fidelity Immigration Co., Eagle Lake, Tex.

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.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

Market Probabilities

(Continued from Page 17.)

Table with columns: 1913, 1912, Inc., Dec. Cattle, Hogs, Sheep, H. & M., Cars.

The following table shows receipts of cattle, hogs and sheep in St. Louis thus far this year, compared with the same period in 1912:

Table with columns: 1913, 1912, Inc., Dec. Cattle, Hogs, Sheep, H. & M., Cars.

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, July 7, together with totals a week ago and a year ago:

Table with columns: Kansas City, Chicago, Omaha, St. Louis, St. Joseph, Totals, A week ago, A year ago.

The following table shows a comparison in prices on best offerings of livestock in Kansas City and Chicago for this date and one year ago:

Table with columns: Per 100 lbs., 1913, 1912, Chicago, Kan. City.

Good Mid-summer Trade in Horses.

The week past showed unusual activity at the horse and mule barns for this season of the year. Several carloads of horses and mules were sent to harvest districts, some mules west south, and there was a fairly active demand for city purposes.

New Wheat Moving Freely.

Oklahoma, Texas, Kansas and Missouri have started new wheat to market. The force of this increased supply was to weaken prices, and both new and old wheat were lowered.

The following comparison shows prices on best grades of wheat, corn and oats at Kansas City and Chicago for this date and one year ago:

Table with columns: Wheat, Corn, Oats, 1913, 1912, Chicago, Kan. City.

Prairie Hay Is Lower.

Prices for prairie hay last week were quoted down 50 cents a ton owing to an increased supply and an indifferent demand. Much of the prairie hay coming in this year's crop and is grading No. 2 and lower.

Kansas City Hay Quotations.

Table with columns: Prairie, Timothy, Clover mixed, Alfalfa, etc. with prices.

Seeds.

Kafir corn, No. 2 white, \$1.10@1.12 a cwt.; No. 3 white, \$1.08@1.11 a cwt.; alfalfa, \$1.10@1.12 a cwt.

Organs, \$15 to \$30. Highest Grade. Estey, Mason & Hamlin; Story & Clark, Kimball, C. Cottage & Co. Slightly used, like new. Write today. Jenkins Sons Music Co., Kansas City, Mo. Reference, any bank in Kansas City.

VIRGINIA

CHEAP CATTLE

For sale—Well improved 200 acre Blue Grass stock farm in Virginia with established cattle buying business—no competition—1/4 mile to R. R.—close to market—modern home. Splendid money maker \$10,000.00; \$4,000.00 cash. Address BOX 323, Mail and Breeze, Topeka, Kan.

falla, \$2.12 a cwt.; flaxseed, \$1.11 a bushel; timothy, \$1.50@1.75 a bushel; cane seed \$5c@1.00; red top, \$2@35c; millet seed, \$2c@1.00.

Favorable Broomcorn Crop Reports.

Recent heavy rains in the west and southwest have been favorable for the newly planted broomcorn, and that already cultivated was advanced to another stage. A good many acres sown to wheat but turned under on account of dry weather was planted in broomcorn.

Butter, Eggs and Poultry.

Eight, July 7.—Butter this week is firm at 35 1/2 cents. Kansas City, July 7.—Prices this week on produce are: Eggs—First, new white wood cases included, 17c a doz.; seconds, 15c.

Produce Prices New and One Year Ago.

Table with columns: Butter, Eggs, Hens, 1913, 1912, Chicago, Kan. City.

Kansas Going Backward

It is elevating to read of Governor Hodges' plans for the better conduct of the people's business in Kansas. His administration is giving us the finest exhibition of the old-fashioned spoils system we have had since the "good old

Mrs. Perry's successor prefixes "Miss" to her name.

Dr. Uhis, for 25 years the right man in the right place, at the head of the asylum at Osawatimie, has had to make room for a Democrat. Throughout the United States he is known as an authority in his specialty and should never have been parted with. He cannot be replaced.

The list might be prolonged; undoubtedly it will be increased. The governor's professions are one thing and his performances another, which is just what might be expected of a "good, old-fashioned" political administration, the Uplift to the contrary notwithstanding.

The Big Fairs and Stock Shows

- July 21—North Dakota State Fair, Grand Forks. Aug. 21—Iowa State Fair, Des Moines. Sept. 1—Minnesota State Fair, Hamline. Sept. 1—Nebraska State Fair, Lincoln. Sept. 1—Ohio State Fair, Columbus. Sept. 8—Wisconsin State Fair, Milwaukee. Sept. 8—Indiana State Fair, Indianapolis. Sept. 8—Kansas, Topeka. Sept. 8—South Dakota State Fair, Huron. Sept. 15—Michigan State Fair, Detroit. Sept. 15—Interstate Show, Sioux City, Ia. Sept. 15—Kansas State Fair, Hutchinson.

Scene on the Farm of John A. Reynolds, Winchester, Kan.

A 12-h. p. White portable engine cutting a wagon load of green corn into 3/4-inch lengths and lifting it into the silo in 12 minutes. The cutter is a 16-inch machine. Engine has been run 10 years, with practically no expense for repairs.



days" when punk and politics ruled the land and merit didn't count.

In the six months the governor has been improving the efficiency of Kansas institutions he has caused, or permitted, the removal at Lansing of the best prison warden Kansas ever had, also the best prison physician, and a mine superintendent who has made the state mine a model—the safest in the United States. Not only had Superintendent Fulton made the prison mine pay larger profits, but during his 14 years of service there had never been an accident.

Why turn out such a man, or men, to put in a place hunter, if it is efficiency in public servants that we are after?

The head of the Industrial School for Girls at Beloit, Mrs. Julia B. Perry, resigned by request. It is most difficult to find a woman of sufficient experience, training, executive ability, and native kindness of heart, to conduct such an institution. They are exceptional. Mrs. Perry has been a shining example of efficiency in all of these qualities. In the 12 years she has managed the school she has won a national reputation for the results she has achieved as a reformer. Disheartened by the release of their inspiring leader, 15 of the teachers formerly under Mrs. Perry have voluntarily resigned and offered up their posts to the place hunters. Disorganization now reigns where high efficiency was conspicuous.

Here was a most unusually devoted, capable woman whose heart was in her work. If efficiency was the watchword why was it necessary to make a change?

- Sept. 15—Kentucky State Fair, Louisville. Sept. 22—Oklahoma State Fair, Oklahoma City. Sept. 29—Montana State Fair, Helena. Sept. 29—Missouri State Fair, Sedalia. Oct. 6—Illinois State Fair, Springfield. Oct. 6—American Royal, Kansas City. Oct. 20—Texas State Fair, Dallas. Nov. 24—National Feeders and Breeders' Show, Ft. Worth. Dec. 1—International Livestock Show, Chicago.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., OF FARMERS MAIL AND BREEZE.

Published Weekly at Topeka, Kansas, required by the Act of August 24, 1912.

Note.—This statement is to be made in duplicate, both copies to be delivered by the publisher to the postmaster, who will send one copy to the Third Assistant Postmaster General (Division of Classification), Washington, D. C., and retain the other in the files of the postoffice.

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Sworn to and subscribed before me this 2nd day of July, 1913. FRANK WRIGHT, Notary Public. (My commission expires October 23, 1913.)

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. R. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kan.
 John W. Johnson, 220 Lincoln St., Topeka, Kan.
 N. W. Walker, N. E. Kansas, N. Missouri, 3622 Flora Ave., Kansas City, Mo.
 Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kan.
 Harry W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
 Ed B. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED STOCK SALES.

Chains dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Aug. 22—H. Fesenmeyer, Clarinda, Ia.
 Aug. 12—John E. Lawson, Clarinda, Ia.
 Aug. 12—K. W. Pfander & Sons, Clarinda, Ia.
 Sept. 5—Jas. T. Ellis, Adrian, Mo.
 Sept. 6—J. C. Stalter, Jasper, Mo.
 Sept. 17—L. E. McClarnon, Braddyville, Ia.
 Oct. 1—D. C. Lonergan, Florence, Neb.
 Oct. 10—Dietrich & Spaulding, Richmond, Kan.
 Oct. 21—H. B. Walter, Effingham, Kan.
 Oct. 15—R. B. Davis, Hiawatha, Kan.
 Oct. 16—J. M. Nesbitt, Aledo, Ill.
 Oct. 17—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.
 Oct. 18—Lambert Bros., Smith Center, Kan.
 Oct. 20—Roy Johnston, South Mound, Kan.
 Oct. 22—H. C. Graner, Lancaster, Kan.
 Oct. 23—Deming Ranch, Oswego, Kan.
 Oct. 23—U. S. Byrne, Saxton, Mo.
 Oct. 25—J. H. Hamilton & Son, Guide Rock, Neb.
 Oct. 25—J. W. Leeper, Norton, Kan.
 Oct. 27—Herman Groninger & Sons, Bendena, Kan.
 Oct. 28—W. R. Webb, Bendena, Kan.
 Oct. 28—Joe Hemmy, Hill City, Kan.
 Oct. 29—Walter Hildwein, Fairview, Kan.
 Oct. 30—Harry Wales, Peculiar, Mo.
 Oct. 30—Merton Williams, Valley Falls, Ks.
 Nov. 1—John Belcher, Raymore, Mo.
 Nov. 3—Joe Schneider, Nortonville, Kan.
 Nov. 5—R. E. Davis, Hiawatha, Kan.
 Nov. 6—W. E. Epley, Diller, Neb.
 Nov. 7—U. S. Byrne, Saxton, Mo.
 Nov. 8—John Nalman, Alexandria, Neb., at Hebron, Neb.
 Feb. 3—J. H. Hamilton & Son, Guide Rock, Neb.
 Feb. 10—H. B. Walter, Effingham, Kan.
 Feb. 12—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.
 Feb. 13—J. E. Willis, Prairie View, Kan.
 Feb. 13—W. E. Epley, Diller, Neb.
 Feb. 14—J. P. Foley, Orinquoque, Kan.
 Feb. 17—L. E. Klein, Zeandale, Kan.
 Feb. 18—J. E. Harter, Westmoreland, Kan.
 Feb. 19—J. L. Griffiths, Riley, Kan.
 Feb. 24—M. T. Shields, Lebanon, Kan.
 Feb. 27—W. A. Davidson, Simpson, Kan.

Duroc-Jersey Hogs.

Oct. 17—Moser & Fitzwater, Goff, Kan.
 Oct. 30—A. T. Cross, Guide Rock, Neb.
 Oct. 31—A. M. Rinehart & Son, Smith Center, Kan.
 Nov. 1—N. B. Price, Mankato, Kan.
 Nov. 5—W. E. Monasmith, Formoso, Kan.
 Nov. 7—Leon Carter, Asherville, Kan.
 Jan. 23—J. J. Hartman, Elmo, Kan.
 Jan. 28—W. E. Monasmith, Formoso, Kan.
 Jan. 29—N. B. Price, Mankato, Kan.
 Jan. 30—Geo. P. Philippi, Lebanon, Kan.
 Jan. 31—A. M. Rinehart & Son, Smith Center, Kan.
 Feb. 4—Moser & Fitzwater, Goff, Kan.
 Feb. 5—Samuelson Bros., Cleburne, Kan.
 Feb. 6—Leon Carter, Asherville, Kan.
 Feb. 7—E. G. Munsell, Hertington, Kan.
 Feb. 9—E. A. Trump, Formoso, Kan.
 Feb. 10—Agricultural College, Manhattan, Kan.
 Feb. 11—Thompson Bros., Garrison, Kan.
 Feb. 30—John Emigh, Formoso, Kan.
 Feb. 21—Dana D. Shuck, Burr Oak, Kan.
 Feb. 25—A. T. Cross, Guide Rock, Neb.

O. I. C. Hogs.

Feb. 18—H. L. Bode, Friend, Neb.
 Feb. 19—Chas. H. Murray, Friend, Neb.

Hampshire Hogs.

Nov. 4—H. D. DeKalb, DeKalb, Ia.

Shorthorn Cattle.

Oct. 14—C. J. McMasters, Altona, Ill.

Aberdeen Angus Cattle.

Oct. 22—W. F. Eckles, Green City, Mo.

Hereford Cattle.

Dec. 30-31—Mousel Bros., Cambridge, Neb.
 Feb. 12-13—Nebraska Hereford Breeders association, at Grand Island, Neb.

The animal husbandry department of the Kansas Agricultural college has just sold to C. J. Woods an outstanding double-standard Polled Durham bull calf sired by Matchless Dale a son of Avondale, the head of the college herd of Shorthorns. This is undoubtedly the best Polled Durham calf ever produced on the college farm. It goes to Mr. Woods' place to head his herd of double-standard Polled Durham cattle at Chiles, Kan.

The coming State Fair at Topeka in September, more than any other event or attraction, will faithfully mirror Kansas resources, achievements and greatness. Notwithstanding the fact that the legislature refused to make any appro-

prization for the support of a State Fair, the Kansas State Fair association, which is chartered under the laws of the state, will hold its annual exhibition at Topeka under prospects that indicate that the show of livestock will be equal to that of the big fairs in adjoining states. That this has been done and will be repeated on a still larger scale September 8-12 is a tribute to the energy and progressive spirit of the association and to the loyalty and state pride of the Kansas people.

Colonel "Tom" Callahan, one of the West's best known livestock auctioneers died at Nicholas Seim hospital, Omaha, June 27, as a result of heat prostration. Colonel Callahan had just returned from a trip to Friend, Neb., where he owned a large farm, and was overcome by heat at the Union Station in Omaha. He was hurried to the hospital but died soon afterward. He was 52 years old and is survived by a widow and a son and daughter. Funeral services were held at his home, 2544 Dodge street, Omaha, July 1, and he was buried at his old home in Friend, Neb., on July 2.

During the last 10 years Colonel Callahan had conducted some of the greatest sales in this part of the country. He was a personal friend of nearly every man connected in any way with livestock in this territory. As a salesman he was a hard worker, a keen judge of livestock values, and a careful student of agricultural conditions. He counted his personal friends by the hundreds and his death will be felt as a personal loss by every man with whom his work brought him in contact. He was respected for his ability and square dealing; he was loved by many because he was loyal, generous and big hearted. He was a friend worth having and keeping.

"I will not, and I cannot say that he is dead; he is just away."

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

H. J. Hanna of Eldorado, Kan., owns one of the especially strong herds of Duroc-Jerseys in the Sunflower state. Three strains are strongly represented in this herd. The herd bears are Model Col. H. 117379, Critie's Lieutenant 123857 and Mc's Tat 113395. Model Col. is by G. C.'s Col. by King of Cols. and out of Model's Daughter, by Model Chief Again. He is 2 years old and will weigh 850 pounds in ordinary breeding condition. He is especially good in bone and heart girth. Mc's Tat is by Tattarrax and out of Mc's Dottie and College Chief. He is 2 1/2 years old and weighs 875 pounds in ordinary breeding condition and can easily be made to weigh 1,000 pounds. He is a strong breeder of strictly Tattarrax type. Critie's Lieutenant is by Carl's Critie and out of Rose A., by G. M.'s Col. The first four litters sired by this young hog contained 44 pigs. These litters were sired when he was 8 months old. He gives promise of being a great breeder. There are 35 sows in the Hanna herd, sired by Tattarrax, G. M.'s Col., Carl's Critie and Freed's Col. These sows are very large and very prolific. They will range in weight from 500 to 650 pounds. More than half of these sows are in the 850 pound class. This spring's farrow from these sows averaged nine pigs to the litter with 7 1/2 pigs to the litter raised. Last fall's litters from these sows averaged 9 1/2 pigs, 7 1/2 pigs to the litter raised. Mr. Hanna is offering open gilts and a few sows, bred for September and October farrow, also spring pigs in pairs and trios not related. A feature of Mr. Hanna's herd, which will be of special interest to any of our readers who contemplate buying Duroc-Jerseys is that he guarantees his hogs strictly as represented. Tell him what you want and if he can fill the order, he will do so. If the shipment is not exactly as represented all you will have to do is to return the hog and get your money back. Write Mr. Hanna for further particulars.

N. E. Kansas and N. Missouri

BY C. H. WALKER.

The following is part of the letter received by Clarence Dean of Weston, Mo., after shipping a bred sow to Louisiana. "Broussard, La., Feb. 7, 1913.—The sow arrived here safe and in fine condition and fitted fully the description given. We are certainly proud of Lady Wonder and intend keeping all sow pigs from her in order to build up a herd of the big type. As we intend keeping the sows could you furnish us with a fall boat to mate with them?—Geo. Malagarie & Sons." It is one thing to sell stock and another to please. Clarence Dean does both.

Groninger's an Envyable Record.

Thirty-three years' continuous service as a breeder of Poland Chinas, with each year's efforts rewarded by a better product, heavier patronage and a growing circle of friends is the record of Herman Groninger of Bendena, Kan. Few breeders of the present day can boast of such a record or such a length of service in the ranks. Mr. Groninger has seen and experienced all the ups and downs

of the breed during that period. The boom has come and the boom has gone, but it has never been known that Herman Groninger has fallen a victim to fads or fancies. He has gone along in his characteristic way breeding the class of stock that best met the needs of the farmer and breeder and it isn't hard to find those who will tell you that his sows are a little bit bigger and better than the other fellow's; that he gets the size and the quality and the bone and the other essentials blended in the right proportion in the stock he produces. The Groninger herd up until this year has been one of the largest in the state. It would seem a slim year, indeed, were less than 300 head housed on the Groninger farm. This year not so many have been raised as formerly, but they are just as good or better and the annual sale offering which the public will have an opportunity to appreciate on October 27 will be the same high class lot of breeding stock that has characterized the Groninger offerings heretofore. The writer has had the honor of helping on practically every sale held by the Groningers and in that period of years we have seen nothing but a highly creditable lot of breeding stock go through the sale ring. Some years a little better than others as feed or weather conditions affected the business, but for the most part a steady improvement has been noticeable. It is a record to be proud of.

Moser & Fitzwater's Durocs.

Starting in a small way in the Duroc-Jersey business a year or two ago, Moser & Fitzwater, of Goff, Kan., have built up a herd that would do credit to breeders who have spent years in the business. The firm of Moser & Fitzwater is a strong combination. Mr. Moser is the man with the pen and an expert hog man he is. Mr. Fitzwater is cashier of the leading bank at Goff and handles all the correspondence and business end of the concern. That combination working in harmony is one of the reasons for the success of the firm. Another reason is that they started right. They bought their foundation stock from the best breeders and the best herds and for the most part have improved on their initial purchases. They have been as particular of the stock that has entered their herd as they have of the stock that has been sold from it, have kept the herd clean at all times and have retained in the herd only animals that have been producers. A recent purchase and one that shows the class of stock this firm adds to their herd was a September 5, 1912, gilt from the Watt & Poust herd at Cedarville, Ohio. This gilt is of show yard form and carries unusual size for her age. She is by Top Finish, by Morton's Top Col. and is out of Correct Fancy, by Fancy Col. by King of Cols. 2d. She is bred for October farrow, to Model Pal, said to be the strongest Ohio Chief bred boar living. It took a good price to get her, but she is worth it and will make a valuable addition to the herd. The spring pigs are good this year and are sired by Smiler, M. & F.'s Col., M. & F.'s Wonder your boy, by Buddy E., 4th, Boy, M. & F.'s Buddy, by Buddy E., 4th, and M. & F.'s Col., by G. C.'s Kansas Col. The sow herd, bred strong in the Ohio Chief blood through daughters of Hammond's Pride, by the champion Tattarrax and others by Gimson, Challenger, Kant-Be-Beat, G. C.'s King of Cols. 2d and other noted boars gives this herd the best of breeding. The annual sale this fall comes on October 17. Their mail order trade is large. They are booking orders now for both boars and gilts.

M. A. S.—Largest in the World.

If you were going to put your money in a bank you would want to know all about the men who were back of it; if you send your boy away to college you generally pick out the school that has the reputation of having competent instructors; if you spend your money for advertising you generally select the papers that are reliable and have a record for result getting. In any business it is the men behind it that counts. The Missouri Auction School, founded and conducted by Col. W. B. Carpenter, is the largest in the world and has built up its reputation for being among the best by the class of men that have been at the school's head and the character and ability of the men who comprise the faculty. The young men who for several years have been attending this school and who have been conducting a successful auction business owe their success in a great measure to the valuable instruction they received from such men as Col. Carpenter, Col. Duncan, Hartman, Col. Henderson, Walters, Thompson, Wells and others who have made a success themselves and know what it takes to make an auctioneer. It isn't a hit or miss proposition with the Missouri Auction School. It is a big business and a permanent one. In the matter of instructors, equipment, thoroughness of the course, in fact in all departments is this school ranked at the top. A feature of the M. A. S. and a point in its favor

that should be carefully considered by every prospective student is the fact that all students get actual practice in home farm sales. These actual practice sales have been a feature of this school since its foundation and has been an expensive feature to maintain, but the advantage of this actual practice over mere theory has proven a great thing and is one reason for the school's success. The next term of this school comes in August. To the young man who wants to better his condition this term and this school offers the opportunity. Write to Col. Carpenter at 1400 Grand Ave., Kansas City, Mo., for his beautifully illustrated and instructive catalog and for any other information regarding the school. The rates are decidedly low for the benefits obtained and the terms are made to suit.

N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

Chas. Morrison & Son of Phillipsburg, Kan., own probably the largest herd of Red Polled cattle in Kansas. Their ad appears regularly in Farmers Mail and Breeze. At

LIVESTOCK AUCTIONEERS

Spencer Young, Osborne, Kan.
Livestock Auctioneer. Write for dates.

W. C. CURPHEY, Salina, Kansas
Write, phone or wire for dates. Address as above.

COL. T. E. GORDON, WATERMILLS, KANSAS
Livestock Auctioneer. Write for open dates.

L. J. Calloway, Lebanon, Kansas
Livestock Auctioneer. Write or phone for dates.

Jas. T. McCulloch, Clay Center, Kan.
Reference: The breeders I am selling for every year. Write for open dates.

L. R. BRADY Manhattan, Kansas
Livestock Auctioneer
Write or wire for dates.

JAS. W. SPARKS Live Stock Auctioneer
MARSHALL, MO.

Will Myers Beloit, Kan. Is already booked on leading breeders sales in Central Kan. Choice dates still open. Write or wire.

CHAS. M. SCOTT Livestock Auctioneer. Thoroughly posted on pedigrees and values. Formerly of Scott & Singer, Poland China breeders. Hiawatha, Kan.

John D. Snyder HUTCHINSON, KANSAS
LIVE STOCK AUCTIONEER
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

Col. N. B. PRICE Manhattan, Kan.
LIVESTOCK AUCTIONEER
Phone or write for dates. Bonney K. heads my Duroc-Jersey herd.

G. A. Drybread The Auctioneer
Elk City, Kan.
Live Stock and Farm Sales made anywhere. Prices reasonable. Give me a trial. Satisfaction guaranteed.

FRANK J. ZAUN FINE STOCK AUCTIONEER
Independence, Mo., Bell Phone 676 Ind.
My References: America's best breeders for whom I have been selling for years.
Get Zaun He Knows How

Be an Auctioneer
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MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres.
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ABERDEEN-ANGUS.
DENTON'S ARGUS Bulls all sold but a fine lot coming on for fall trade. Write your wants.
W. G. DENTON, DENTON, KANSAS

ANGUS CATTLE
Bulls and females for sale, singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

STATE FAIR-TOPEKA

SEPTEMBER 8TH TO 12TH

1913

Mammoth Livestock and Agricultural Exhibit.
New Fireproof Buildings for Stock and Exhibits.
Splendid Spectacular Night Entertainments every night.
Pain's Fireworks.
Four Grand Band Concerts Daily.
New and Up-to-Date Free Attractions.
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5 Days' Racing with Free Attractions and Band Concerts—5 Days.
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Every Day a Big One, full of value for visitors and exhibitors.
The Fair at Topeka is in a class with the Big State Fairs of the Country.
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EXCURSIONS ON ALL RAILROADS
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DAIRY CATTLE

THREE Registered Jersey bull calves, 3 to 6 months old; your choice \$30; best strains. B. SALISBURY, TESCOTT, KAN.

ENTIRE DAIRY HERD FOR SALE!

18 Holsteins, balance Jerseys and Shorthorns. Most of them will freshen this fall. \$80.00 per head. \$1.00 per head commission. JACK HANDEL, 215 Adams St., Topeka, Kan.

Holstein Bred Cows and Heifers

"EIGHTY HEAD" Choice individuals personally selected, Wisconsin bred, tuberculin tested, pure bred, unrecorded and high grade females, recorded bulls. Grade bull and heifer calves. ARNOLD & BRADY, Manhattan, Kan.

HOLSTEINS

—CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

OAK HILL HOLSTEINS

Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. BEN SCHNEIDER, NORFOLK, KAN.

BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale. W. N. BANKS, Independence, Kan.

HOLSTEINS

HOLSTEINS Large type, State inspected and tuberculin tested. Fine registered bulls, cows and heifers; also 100 grade cows and heifers. M. P. Knudsen, Concordia, Kan.

Bonnie Brae Holsteins

For sale, about 80 head of high grade young cows, 2-year-olds and bred yearlings. These cattle are strictly first class, with many heavy springers. Come and see them. IRA BOMIG, Sta. B, TOPEKA, KANSAS.

RED POLLED CATTLE

Foster's Red Polls

Write for prices on breeding stock. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

Red Polled Cattle

Cows and heifers for sale. No bulls over six months. Poland China big type registered fall boars. Write CHAS. MORRISON & SON, Phillipsburg, Kan.

Red Poll Females

of all ages, choice individuals, show animals, priced to sell. A few choice bulls, also Duroc-Jersey swine, sows and gilts, bred for early fall farrow. Boars any age by our choice herd boars. Ask for testimonials. GEO. W. SCHWAB, CLAY CENTER, NEB.

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.

GALLOWAY CATTLE

and OXFORD DOWN SHEEP Imported and home-bred, absolutely equal to the best.

C. S. HECHTNER, Box 66, Chariton, Iowa

SHORTHORNS

Glenwood Farms Announce

Can spare no more bred sows. Have a few choice boars left. Plenty of Shorthorns, always. We build the most complete concrete silo yet offered the public. Have several on our place. They are a success. Write for particulars. Address, C. S. NEVIUS, CHILES, KAN.

10 High Class Scotch and Scotch Topped Shorthorn Cows

of dairy quality, for sale, also two extra fine 10-months-old bulls. One by Baron Cumberland, the other, a show prospect, by Silk Goods. DR. W. C. HARKEY, Lenexa, Kan.

PUREBRED HORSES

Truman's Pioneer Stud Farm

America's Largest Importers

Shire, Percheron and Belgian Horses

Write for Illustrated Catalogue.

TRUMAN'S, Box E, BUSHNELL, ILLINOIS

PERCHERONS

at breeder's prices. Eleven home-grown 8 yr. stallions, exact wt. 1740 to 2000 lbs. Sound and with bone to spare. July 12th these and youngsters for sale. The biggest Percherons pay you best. Trains direct from Kansas City and St. Joe.

FRED CHANDLER R. 7, CHARITON, IOWA



present they have 13 young bulls all under 6 months of age. These calves are deep dark red, heavy boned, good length, square and straight and will develop into better than ton bulls. Most of these bulls are sired by the Morrison herd bull Creme 23d, a grand individual and a great breeder. In addition to the bulls Mr. Morrison would spare a few choice heifers and young cows. They are large and from the best milking strains of the breed. This firm has one of the leading Poland China herds of the state. They can spare a few extra good boars of last fall farrow. They are well bred and out of very large sows, mostly of Mouw breeding.

S. E. Kansas and S. Missouri

BY ED. R. DORSEY.

Mr. John Belcher of Raymore, Mo., writes that his pigs are growing nicely. Of course, we were not surprised at that as we do not know of a better caretaker in the Poland China business than Mr. Belcher. His years of experience as a breeder and a showman has taught him that one day of starvation is one day lost to a pig and to multiply that one day by weeks means an entire loss. Next fall Mr. Belcher will sell a great lot of hogs and if they are not up to the high standard we are sure he will hold no sale as he does nothing by halves.

Taylor's Prize-Winning Durocs

We wish to call attention to the advertisement of Chas. L. Taylor, Olean, Mo. Mr. Taylor is one of the most prominent breeders and showmen of Duroc-Jerseys in Missouri. He is ready to fill orders from tops of his 1913 spring crop of pigs. We do not hesitate to recommend this herd to either breeder or farmer as there is nothing kept in the breeding herd that is not either a prize winner or a direct descendant of state fair champions. The breeder who develops and shows a prize winning herd of hogs has a double claim on the patronage of those interested in buying that breed. He has demonstrated by his ability to win that he produces the right sort. If interested in something extra fine in Duroc-Jerseys write Mr. Taylor for particulars and mention this paper.

Meadow Brook Berkshires

E. D. King of Burlington, Kan., is offering 150 Berkshire sows bred to farrow August 1 to December 1. These sows are bred to the Meadow Brook herd boars and constitute one of the largest and best offerings of Berkshire sows to be found in the state. Mr. King raises from 500 to 700 pigs a year. He usually has from one to two carloads of Berkshires on full feed. At the Kansas City market King's Berkshires are always topers. This large number of feeders is made possible by Mr. King's practice of closely culling his breeding herd. The young hogs that do not fully come up to his ideal are promptly placed on a fall feed and prepared for the market. The same thing is true of any of the herd sows. To retain a place in the breeding herd of Meadow Brook Farm, sows must be good breeders and prolific. If interested in Berkshires write Mr. King.

Durocs of Richest Breeding

We recently visited the Duroc-Jersey herd owned by W. J. Bookter of Coffeyville, Kan. Perfect Col. 23763, one of the best known Duroc-Jersey boars in America, heads this herd. In 1908 he won first at the Ohio State Fair, first at the Indiana State Fair, first and junior championship at the Illinois State Fair. In 1911 he headed the great breeding and show herd owned by H. E. Browning of Hershman, Ill., and Mr. Browning considered him one of the best sires he ever owned; after he used him all that he could and stocked his farm with as many good sows as he ever owned at one time he then sold him at a long price to L. C. Ransbottom of Ohio. After Mr. Bookter looked the field over he finally succeeded in buying this hog. Mr. Bookter has used the following good hogs: McNeill's Model, Model Top, B. & C's Col. and Buddy K. 4th. Perfect Col. is assisted by Bud's Tatarax 124431, by Buddy K. 4th and out of a daughter of Tatarax, and O. K. Buddy 11825, by Buddy K. 4th. The herd sows on the farm are sired by Buddy K. 4th, B. & C's Col., Crimson Prince, I Am McNeill's Model, O. K. Buddy, Oklahoma King, Model Top, etc. He has about 100 spring pigs of both sexes for sale and can supply a customer with pairs or trios of the richest and most fashionable breeding known to the breed. The owner will not have a fall sale but will sell direct to the buyer at a close price considering the high breeding and good quality.

The Star Breeding Farm

We recently visited the Star Breeding Farm, owned by Samuel Drybread of Elk City, Kan., and found everything looking prosperous. In looking over his cattle we find he has for sale 50 good, large, strong 1 and 2-year-old bulls. The owner has had a wonderful trade the last year. Up to this date he has sold 111 head and in traveling over the country we have had the pleasure of seeing quite a number of the Star Breeding Farm bulls and in each case they have given entire satisfaction. The owner of the Star Breeding Farm makes a specialty of growing to sell to ranchmen, knowing that they will give entire satisfaction. While he does not pamper these cattle he gives them food and range to make them stout and useful. This treatment not only makes them useful for the range but it gets frame enough on them that if one wishes to develop them for the show and other purposes a good foundation has been laid. Mr. Drybread sold last year to the government for range use on Indian reservation in New Mexico, a carload of bulls and they were highly satisfactory. This year this farm has sent to New Mexico ranchmen three carloads of bulls on the strength of the satisfaction that the former shipments have given. In Duroc there are about 125 head, representing all the popular blood lines known to the breed. Possibly no farm has had more strictly high class males at the head of its herd than has Star Breeding Farm. In the herd are something like 35 fall gilts by B. & C's Col. and the spring crop of pigs are by Model Top, except one litter by Beauty's Model Top. This young stuff is all out of large bone, prolific dams, representing the leading families of Duroc. There are more big sows in this herd today than we have ever seen before. Mr. Drybread is working for more scale and if we don't miss our guess the public offering he

POLLED DURHAMS

Polled Durham Bulls

Six well bred young bulls and a limited number of cows and heifers for sale. O. M. HOWARD, HAMMOND, KANSAS.

HEREFORDS

KLAUS BROS.' HEREFORDS

Two choice yearling bulls, herd headers for sale, sired by Fuller 3rd, Fuller 25th and Beau Onward. Our calf crop is the best we ever had. KLAUS BROTHERS, BENDENA, KANSAS.

HAMPSHIRE

WRITE J. F. PRICE,

Medora, Kans. For prices on Pedigreed Hampshire Hogs

REGISTERED HAMPSHIRE

Well Bred Well Bred SUNNY SLOPE FARM, Frank H. Parks, Prop., Olathe, Kan.

Pedigreed Hampshires

of various ages. Boars at weaning time only. Every hog properly vaccinated. C. E. Lowry, Oxford, Kan.

Pure Bred Hampshires

Some extra choice, well-bred spring boar pigs for sale. ALVIN LONG, Lyons, Kansas.

CLOVERDALE HAMPSHIRE

Special prices for thirty days only. Open and bred gilts. Spring pigs in pairs and trios, sired by my FOUR herd boars. T. W. LAVERLOCK, PRINCETON, KANSAS.

BERKSHIRES

LEON A. WAIT'S Berkshires

A good herd at Winfield, Kan., headed by Lord Duke 34, 123202.

Hazlewood's Berkshires!

Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 2, Wichita, Kansas

J. T. BAYER'S BERKSHIRES

Eighty early spring pigs by Bayer's Beacon and B. D's Centerpiece, 30 extra fine sows and gilts bred and open, four Winter and Fall males. Priced to sell. Write for prices. J. T. BAYER, YATES CENTER, KAN.

Bred Berkshire Sows

25 head of young tried sows, representing the best Robinhood strains and bred for summer litters, to Ajax, a son of Rival's Lord Premier and Longfellow's Duchess 4th. These are extra good and are priced to sell. They won't last long. Write at once. W. J. GRIST, Ozawie, Kan.

Hampshire Sheep

Shipping point Waldo, Kansas. Address, E. S. Tallafarro, Russell, Kansas

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River. Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and mares of serviceable ages for sale. Write us. JOS. WEAR & SON, Barnard, Kan.

60-Bergner & Sons' Coach Horses-60

German Coach Stallions at prices you will be able to pay for at one season's stand. Also mares and fillies; all good bone with plenty size, style and action and the best general purpose horse that has ever been imported. The St. Louis Fair Champion Milon 2159 and the Kansas State Fair prize winner Mephistoles 4221 at head of herd. We are pricing these horses to sell and guarantee satisfaction. Write today or call soon. J. C. BERGNER & SONS, Waldoock Ranch, PRATT, KANSAS.

Dispersal Sale of Registered Jerseys

CLEM L. SMITH, Owner

Lawson, Mo., Tuesday, July 15, 1913

This is a splendid herd of cattle. Headed by Rosette's Guenon Lad 71496, by Rosette's Golden Lad, out of Guenon Lad's Gem, 520 lbs. 15.3 ozs. butter in one year, a Register of Merit daughter of Guenon's Lad, sold for \$4,000. Cows and Heifers by such sires as Hebron's King, Victoria's Champion Lad, Golden Lad's Butter Boy, Rosette's Guenon Lad, Golden Lad's Carlo, Marjoram's Roter King and others. Tuberculin tested and individual certificates furnished sale day. Sale to be held at Hunter Smith Stock Farm, 3 1/4 miles south of Lawson, and 4 1/2 miles north of Excelsior Springs. Conveyances will meet trains at Lawson day of sale. For Catalogues write FRANK J. ZAUN, AUCTIONEER.

B. C. SETTLES, Sales Mgr., Palmyra, Mo.

Black Robinhood Berkshires

For sale—Sows bred for fall litters, choice boar pigs and sow pigs; from the herd they produced Black Robinhood and Masterpiece boars we bred and that have made Berkshire history. Write for particulars. G. W. BERRY & SON, R. R. 1, Topeka, Kan.

JERSEY CATTLE

LINSCOTT JERSEYS

Only register of merit herd in Kansas. For sale: Grandson of Noble of Oaklands, ready for service. Also sons and daughters of the great Gamboge's Knight. Prices reasonable. R. J. LINSCOTT, HOLTON, KANSAS

MULE FOOT HOGS

The coming boss of America! Hardy, resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free. DR. W. J. CONNER, LABETTE, KANSAS.

Mule Foot Hogs

Bred gilts for spring farrows all sold. Some choice boars for sale. All new booking orders for pigs of February and March farrow, in pairs not related. ZENE G. HADLEY, Box D, Wilmington, Ohio

O. I. C. SWINE

O. I. C. Boar Pigs

HARRY HAYNES, Marion, Kansas.

Maple Leaf Improved Chester Whites

All ages, the round. Priced to sell. E. W. GAGE, Garnett, Kan.

BOOKIN'S O. I. C. HOGS

Booking orders for spring pigs by five different boars, out of sows not alike. Priced to sell. F. C. BOOKIN, RUSSELL, KANSAS.

RUSSELL'S O. I. C.'s

February and March farrows all sold. The large prolific type. Satisfaction guaranteed. H. E. RUSSELL, Sedgwick, Kan.

25 O. I. C. FALL BOARS

For sale. Write for prices and descriptions. CHAS. H. MURRAY, FRIEND, NEBRASKA

50 O. I. C. Pigs for Sale

Sired by my leading herd boars. Also two nice gilts bred for Aug. farrow. Write for prices and descriptions. Andrew Kosar, Glasco, Kan.

NEEF'S CHOLERA IMMUNE O. I. C.'s

Spring pigs of either sex in pairs and trios no kin. Also tried sows and fall gilts bred fall farrow. Pure bred seed wheat, seed rye and Oelle pups for sale. Riverside Farms, J. H. Neef, Boonville, Mo.

DUROC-JERSEYS

Duroc March Pigs \$9.00 and up, by Model and Tatarax Boy. E. W. Baldwin, Conway, Kan.

Big Stretchy Durocs

A choice sex, for sale, also S. O. White Leghorns, extra fine stock. HARRY GIVINS, Madison, Kansas

Clearview Stock Farm Durocs

All ages. A few open gilts, also tried sows, bred for September and October farrow. Spring pigs, pairs or trios. Satisfaction guaranteed on mail orders. A. J. HANNA, ELMDALE, KANSAS.

Good E. Nuff Again King 35203

Heads our great herd. Sale average: March 11, sows, \$77.50, sows and gilts, \$51.50. Write for prices. W. W. OTEY & SONS, Winfield, Kansas

18 Ram lambs for sale. Also young ewes, from yearling up.

Hampshire Hogs. Young stock for sale. Everything registered. Shipping point Waldo, Kansas. Address, E. S. Tallafarro, Russell, Kansas

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DUROC-JERSEYS.

TAYLOR'S SPRINGDALE DUROCS Spring pigs for sale from ancestors that were leading State Fair winners in 1911 and 1912. Fall gilts same breeding and quality. Chas. L. Taylor, Olean, Mo.

E. A. TRUMP, Formoso, Kan. Breeder of fashionable Duroc-Jerseys Stock for sale at all times. Write for prices and descriptions.

A FINE OFFERING Spring pigs sired by R. C. Buddy, Watson's Col. and Model Top. Prices \$20 and up. R. C. WATSON, Atzonsa, Kansas.

Duroc-Jersey Spring Pigs Dark cherry, sired by Bull Moose Col. 132255, he by King the Col. 89533 and out of large prolific sows of popular breeding, priced reasonable, and f. o. b. your station. Arthur A. Patterson, Ellsworth, Kan.

Deep Creek Herd Durocs! Orders taken now for early spring pigs, dams either state fair prize winners or sired by prize winners. Write for low prices. C. O. ANDERSON, MANHATTAN, KAN.

Big-Type DUROCS Fall gilts bred or open. Book orders for spring stock. Monarch Wonder, Col. and Buddy strains. Fall sale Oct. 17. MOSER & FITZWATER, GOFF, KANSAS

ILES' Farm Duroc-Jerseys A selected lot of early boars and gilts sired by and out of prize-winning boars and sows. The big kind with quality and guaranteed to please. Priced right. Visitors met by appointment at Everest or Pierce Junction. R. C. ILES, Everest, Kansas

Smith's Durocs Fashionably bred boars, including grandsons of the great Graduate Col., and a herd-leading son of the champion, Tatarax. Also spring boars. J. R. SMITH, NEWTON, KANSAS

McCarthy's Durocs A few October boars by J. R.'s Col. by Graduate Col. Also a son of the champion, Tatarax, that should head some good herd. Dan'l McCarthy, Newton, Kan.

FORTY MARCH PIGS Also a few October gilts bred to farrow last of September. Prices right. Descriptions and prices by return mail. J. R. JACKSON, KANOPOLIS, KANSAS.

Stith's DUROCS Sows and gilts bred to and young boars and gilts by Model Duroc, one of the best sires of the breed. His half brother and sister were grand champions. His sire was a champion. Write today. CHAS. STITH, Eureka, Kansas

Quivera Place Durocs A few, choice summer boars and gilts, sired by Quivera 106611. E. G. MUNSELL, Herington, Kansas.

BONNIE VIEW FARM DUROC-JERSEYS Extra fine spring pigs, sired by Tet A Wells and S. C.'s Col. Searle & Cottle, Berryton, Kans.

Perfection Stock Farm! Fall boars and gilts, also orders booked for choice spring pigs by State Fair Champions. Pairs and trios not related. Prices right. CLASEN BROS., UNION CITY, OKLA.

Duroc Pigs, Popular Breeding I am offering 100 spring pigs, by Eckman's Special 124963 and Gold King 126195 out of sows by B. & C's Col. Buddy K IV. Chief's Martial, Belle's Chief 2nd, Golden Goods, etc. Youdon Eckman, Vinland, Kans.

HILLSIDE HERD We offer spring pigs by Dandy Model 131783, pairs and trios not related. Write today about that young boar you need now. One 165-pound pig by J. R.'s Col. and a good one. W. A. Wood & Son, Elmdale, Kansas.

Dreamland Colonel Summer and fall boars and gilts for sale. Everything immune. Nothing but desirable animals offered. Prices reasonable. LEON CARTER, Asherville, Kan.

10 Duroc Jersey Boars of summer and fall farrow, \$25 each to move them quick. Sired by Model Chief and out mature sows. Dana D. Shuck, Burr Oak, Jewell Co., Kansas

Bancroft's DUROCS We hold no public sales. Nothing but the best offered as breeding stock. September gilts open or bred to order for fall litters. 90 March pigs. Pairs or trios no akin. Prices right. Customers in 10 states satisfied. Describe what you want. We have it. D. O. BANCROFT, OSBORNE, KANSAS.

POLAND CHINAS.

Sunny Side Poland Chinas Bred sows and spring boars for sale, priced right. Satisfaction guaranteed. J. G. Burt, Solomon, Kan.

Albright's Fall and Winter Boars and Gilts for sale. 40 head of nice, smooth individuals, sired by Cavalier's Masterpiece by King Mastodon, and out of big type sows. Write for prices. A. L. ALBRIGHT, Waterville, Kansas

If you need anything not advertised in this issue of Farmers Mail and Breeze, write us and we'll tell you where you can get it.

will make in November will be the largest and best he has ever sold in public sale. It will be made up largely of fall yearling sows, by B. & C's Col. and a few tried sows and the balance of spring pigs, by Model Top and Beauty's Model Top, by Model Top and Beauty's Model Top, by Model Top and Beauty's Model Top. Keep this sale in mind and remember that you will find no better place to buy the cream of Durocs than at this farm.

Editorial News Notes.

A Practical and Economical Corn Harvester. It is safe to say that no farmer would willingly be without the "Perfect" corn harvester after seeing it in operation. This machine cuts the corn thoroughly, quickly and economically—and so simple that a boy can operate it and a pony can pull it. The "Perfect" corn harvester is the product of the Love Manufacturing Co., Lincoln, Ill. A postal will bring their free catalog, describing in detail this practical, time-and-money-saving corn cutter.

Spalding's Business College.

One of the oldest and most successful commercial colleges in the West is the Spalding's Commercial College, which, through its 47 years' establishment in Kansas City, Mo., has established for itself an unquestioned reputation as a progressive business educator. The college was established by its present president, James F. Spalding, A. M., October 25, 1865, and was incorporated in 1867. Since that time more than 25,000 students have entered the school. Over 4,500 who have completed their courses are now employed in Kansas City.

Corn Harvester.

A most practical corn harvester is made by the New Process Manufacturing Co., of Salina, Kan. It will do almost anything that a corn binder will do and costs only a fraction as much. With it a man can cut and shock from four to six acres a day, and it is so simple in construction and operation that a boy can run it. It has been sold in every state in the Union, and has given universal satisfaction. It will pay for itself in less than one season, and is so compact and well made that it will last for years. If you will write them, mentioning this paper, they will send you full particulars.

Twenty Thousand Government Jobs Open.

There is a demand for 20,000 young men and women for the United States civil service. These positions pay salaries of \$900 to \$1,800 per year, and those who qualify have positions for life with easy hours and annual vacations. The American Institute of Kansas City, Mo., will coach applicants to pass examinations. On another page of this issue there appears the announcement of this institution telling for just what positions it will assist you in qualifying. If you are desirous of improving on your present position and increasing your salary write today to the American Institute, Dept. 20A, Kansas City, Mo.

A Very Special Offer on New Butterfly Cream Separator.

New Butterfly separators have been advertised in this paper for a number of years and a great many of them are in daily use in the homes of our readers. There is no doubt but what the offer which the manufacturers, Albaugh-Dover Co., Chicago, Ill., are making this week on page 11 is a remarkable one. They not only guarantee the New Butterfly machine a lifetime, and give you 30 days' absolutely free trial of any size you select but they are offering to give any responsible farmer a whole year's time in which to pay for the machine out of his extra cream profits. Taking into consideration the excellent reputation of this separator and its advantages in easy cleaning and light running, this is a chance that no family without a separator should let pass by. You are dealing direct with the factory and you have a chance to let the machine earn its own cost and more without taking a penny out of your own pocket. See their advertisement on page 11.

Look Out for Worms.

It is said that 90 per cent of all the sickness among farm animals is due to stomach and free intestinal worms which are taken into the system while the stock is on pasture. The larvae develop into worms which crawl to the top of the grass blades where they are taken in with the animals' food. In this way practically every farm animal becomes worm infested. The result is sickness and often death, especially among hogs and sheep. Furthermore, these pests by sapping the blood and strength of the animals pave the way for cholera and all other destructive diseases. In every case indigestion results; the animals lose flesh and you lose a large share of your stock profits. There is now on the market, a preparation that is guaranteed by its maker to rid all stock of worms. It is known as "Sal Vet," manufactured by The S. R. Fell Co., Cleveland, Ohio. Practically all the prominent stock owners and many agricultural experiment stations are now using and endorsing this wonderful preparation. All you need to do is to let your stock run to it freely and they will doctor themselves. Mr. Sidney R. Fell, the president of this company, offers in his advertisement on page — of this paper to send you enough to feed all your stock 60 days before you pay for it and agrees to make no charge whatever if you are not satisfied with the results. You take no risk in testing "Sal Vet" on this very liberal plan and consequently every farmer should take advantage of it.

If you have a silo or intend to have one before fall it will be a good scheme to put out a patch of cowpeas to mix with the corn silage when putting it up. Corn and cowpea silage is better than corn alone. The peas furnish the protein and the corn the carbohydrates, so there you are well on the road to a balanced ration.

I think the Mail and Breeze is just fine and every farmer ought to keep it. I always recommend it to my friends. --Emil Wollenberg, Kansas City, Kan.

POLAND CHINAS.

BIG BARGAINS—BRED SOWS. 6 of our herd sows, bred and safe to Gold Mine, for July and September farrow. 5 last fall gilts, safe to Best Price. Best bunch of spring pigs we have ever offered. Priced right. DIETRICH & SPAULDING, Richmond, Kan.

NEBRASKA TYPE POLANDS Choice summer and fall boars and gilts, by Haden's Big Hadley 2nd, Pan Wonder, and Nebr. Chief. C. C. INGRAM, Bloomington, Neb.

Polands, with Size and Quality Bred sows and gilts; also boars all ages for sale, sired by Waechter's Kaiser, Quamo and King Hadley. Lambert Bros., Smith Center, Kan.

100 SPRING PIGS Sired by King Hadley, King Blain, Jr., King John and Long John 2nd; priced right and guaranteed. W. Z. BAKER, RICH HILL, MISSOURI.

Large Type Yearling Sows Sired by and bred to boars weighing between 900 and 1000 pounds and due to farrow in August and September. THOS. B. MURPHY & SONS, Corbin, Kans.

Klein's Tabor Valley Herd Big type Poland China fall gilts bred or open, sired by my Iowa boar and out of my big matured sows. Write for prices. L. E. KLEIN, ZEANDALE, KANSAS.

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.

Harry Hoak's Poland Chinas Spring boars and gilts, pairs and trios unrelated. Fashionable big type blood lines. The finest lot of pigs we ever raised. Call or write today. HARRY HOAK, Attica, Kan.

COLUMBUS The 1650-lb. Grand Champion, 1912, Nebraska, Kansas, Missouri and American Royal, heads my herd Big Type Poland Chinas. R. B. BAIRD, Central City, Nebraska

HILDWEIN'S BIG POLANDS Make your selections from my large herd of the "big kind". They are the kind that make good. Public Sale October 29. WALTER HILDWEIN, FAIRVIEW, KAN.

THURSTON & WOOD'S Poland Chinas The large, smooth kind. Fall boars, handsome fellows by U. Wonder by A. Wonder, also gilts by this great son of A. Wonder and bred to Orange Lad by Big Orange. Thurston & Wood, Elmdale, Kan.

Schneider's Poland Chinas! 20 head of good fall gilts. Some bred for September farrow, others offered open. A few good fall boars that I am pricing cheap to move them. JOE SCHNEIDER, NORTONVILLE, KAN.

Special 30-DAYS OFFER Choice Poland China spring pigs, either sex, \$20, express paid. Certificate with every pig. Satisfaction guaranteed. Howard R. Ames, Maple Hill, Kan.

Royal Scion Farm Durocs The great Graduate Col., assisted by Col. Scion, heads this herd. Spring and fall boars, some of them show and herd header material; also a few gilts and spring pigs, either sex. G. C. Norman, R. 10, Winfield, Kan.

MAMMOTH IDEAL BOARS and GILTS Mammoth Ideal 54559, one of the biggest and best boars of the breed, in service, assisted by Expansive B. by Expansive. I can supply your wants in herd boar material, in choice breeding gilts. Get my descriptions and prices before buying. M. T. WILLIAMS, VALLEY FALLS, KANSAS

PLEASANT HILL STOCK FARM POLANDS Long King's Best, Sampson Ex and Moore's Halvor, a trio of unusually fine big-type boars in service. Booking orders now for spring boars and gilts—over 100 head to select from. These are bred right, fed right and priced right. HENRY GRANER & SON, LANCASTER, KANSAS.

Robinson's Mammoth Poland Chinas! My herd boars weigh from 800 to 1,025 lbs. Now have for sale, two good tried boars and a few extra good last fall pigs of both sexes. My terms are: If you are not satisfied return the hog and I return your money. F. P. ROBINSON, Maryville, Mo.

BIG TYPE BRED SOWS FOR SALE Daughters of Long Wonder (a double bred A Wonder) and King Mastodon 2nd, bred for summer farrow, to Orange Model 2nd, by Big Orange and out of a Pawnee Lad dam and to Expansive Wonder, by Expansive. These are extra good, strictly big type with quality and will please. Also fall gilts and spring pigs. Write or call. W. E. LONG, Meriden, Kansas.

BIG TYPE UNPAMPERED BERKSHIRES 150 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetype, King's Truetype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, Burlington, Kansas

EX B. by EXPANSIVE one of the greatest breeding boars of the day heads my herd of over 250 head. Two extra good boars by him, August farrow, for sale. Also choice line of fall gilts, open. Booking orders for spring pigs. Write or call. W. R. WEBB, BENDENA, KANSAS.

Big Orange, Big Sensation & Ott's Big Orange In service in my herd of POLAND CHINAS. For sale—Pigs of both sexes, and boars of most all ages of the correct type that will please you. J. O. JAMES, Braddyville, Iowa

POLAND CHINAS.

GEO. W. NOWELS, GLASCO, KAN. 45 March boars and gilts for sale. Medium type. Size and quality. Pairs and trios not related. Prices right. Address as above.

John Harter's September Boars 25 selected Sept. boars to pick from. Sired by Mogul's Monarch, Long King, Prince Hadley and Gebhart. Well grown and desirable as herd boars. Prices right. Satisfaction guaranteed. J. H. HARTER, WESTMORELAND, KAN.

Poland China tried sows and fall gilts bred or open. Big type boars and big mature dams. J. F. FOLEY, Oronoque (Norton Co.), Kan.

Green Lawn Stock Farm of Adrian, Mo. is offering 40 Fall and Winter Males that will weigh from 150 to 250 each. No better Poland Chinas on earth. Also a number of bred gilts. JAS. T. ELLIS, ADRIAN, MISSOURI Successor to A. J. Erhart & Sons.

BIG SMOOTH BRED GILTS By A. Wonder's Equal by A. Wonder out of dams by Knox All Hadley by Big Hadley. Growthy yearlings with extra size and quality, bred for early fall litters to the noted Orphan Chief. A. B. ENOS, RAMONA, KANSAS

Fall and Summer Gilts 15 fall gilts open, 10 summer gilts bred and open, yearling and tried sows bred for fall farrow. Also an attractive herd boar offer. E. C. LOGAN, (Mitchell Co.) SOLOMON RAPIDS, KAN.

Mt. Tabor Herd Poland Chinas BIG AND MEDIUM TYPE. Herd Immune. For sale: Fall boars and gilts and 100 spring pigs, by Big Mastodon and College Special 5th. Bred sows and gilts of either type. J. D. Willhoang, Zeandale, Kan.

POLAND CHINAS! Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomer, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. JOSEPH M. BAUER, ELMO, KANSAS.

Dean's Mastodon Polands Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars. All

Immune by Double Treatment Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Address: CLARENCE DEAN, WESTON, MISSOURI

A. D. JONES OF DUNLAP, IOWA has for sale 40 fall boars sired by 1,000 pound boars and from 600 and 800 pound dams; strictly big type Poland Chinas. I breed for length, bone, large litters and quick maturity. I also have 50 fall gilts, to be in the market this fall and winter and 100 spring pigs that are doing fine.

These Japanese characters translated into English mean: "Two Necessities in Every Home."



Kyohei Inukai is a Japanese artist. He was born in Japan—educated in America. Inukai's fame will be world-wide in the not far future because Inukai artistically is a wonderful product of the Orient. The example of his work shown on this page, illustrates his directness of vision in voicing the message of Montgomery Ward & Company's Catalogue. When asked to convey through his art the idea behind the great Ward book of bargains, he sent in this drawing and over it he wrote in Japanese and English these words:

"Two Necessities In Every Home"

Everybody knows that the first necessity of every home is a Baby—a boy or girl, or a bunch of both. The Baby is the monarch absolute of every fireside where he sets up his throne and goes forth with ruthless hand to slay a fond mother's ribbons and put dents in Daddy's derby. How much more you feel the responsibility of home-keeping when the little fellow comes—How much more you appreciate the things that help the home, that beautify the home, that economize for the home—that help the home to prosper—for Baby's sake.

Yes, you deeply, fully lovingly appreciate that other necessity, the big, complete, varied, serviceable, convenient Saving Book of Ward's—the Catalogue of 1913—which is a boon to baby, because—

It helps father's money to go further—
It helps mother to get more of the things she wants—

It helps the home because it contains the things, the home ought to have at prices that mean Economy in the home.

In a thousand pages—a veritable wonderland of bargains—it spreads out before you all that you need, all that you can use, with a full measure of honesty

and prices so low that they double and triple the purchasing power of every purse. This Catalogue of 1913 is the triumph of 40 earnest years of service—to several generations of thousands of families—now extending to millions a complete shopping guide to the best merchandise of the world. The more you use it, the more you will become attached to it, the more it will prove a positive necessity in your home.

Although these many years, the work of thousands of people and hundreds of thousands of dollars have been necessary to make this great Catalogue of 1913 possible, yet it costs you not a penny. Its helpfulness, its economy are yours just by cutting out the coupon on this page, signing your name to it and mailing today.

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