

Twenty-Eight Pages

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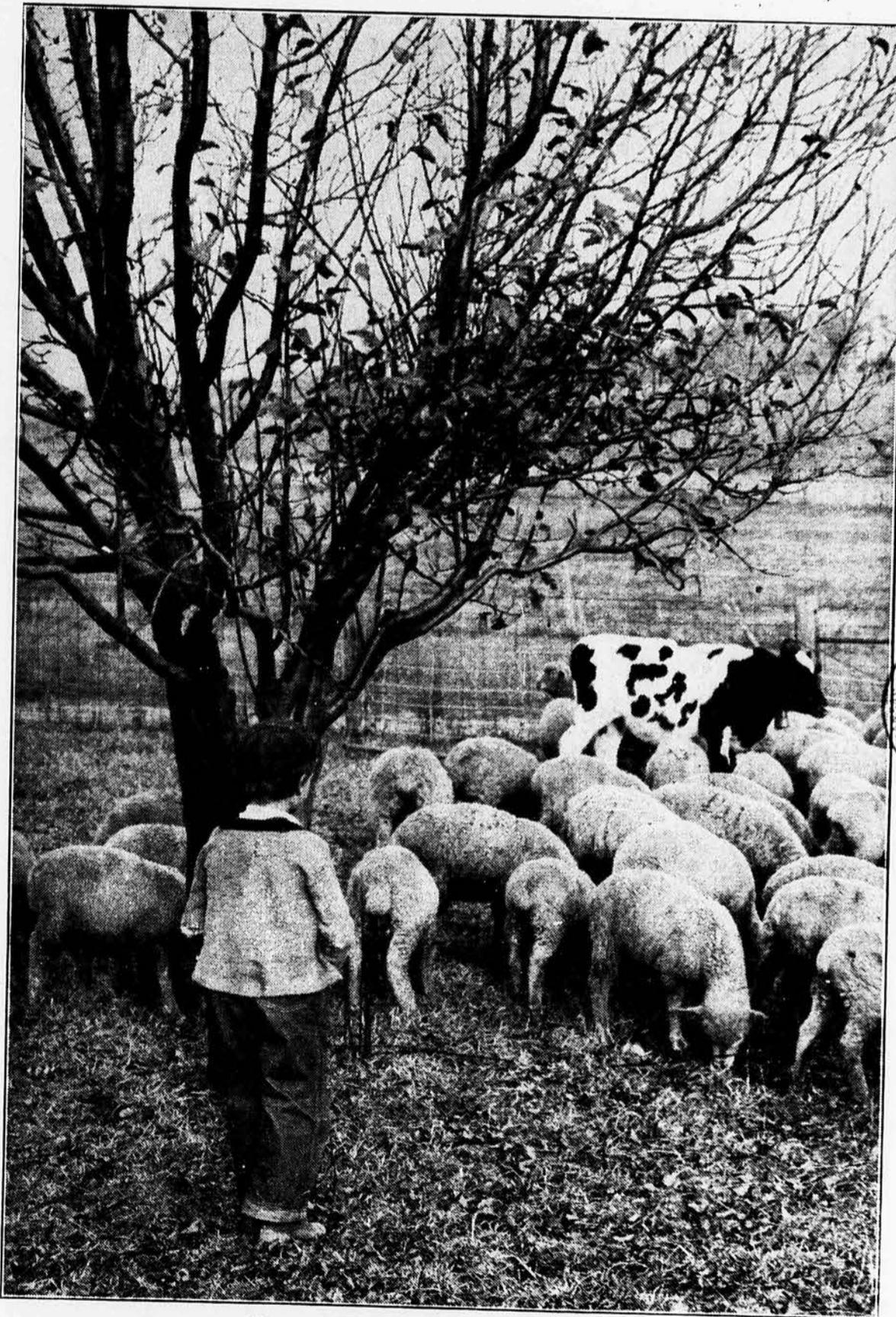
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FARMERS MAIL AND BREEZE

Vol. 45.

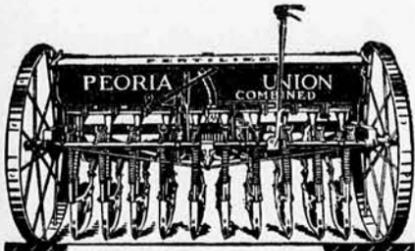
September 4, 1915

No. 36.



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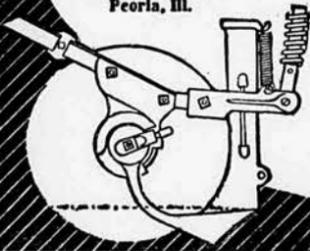
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A Big Fair at Topeka

"With the big free fair at Topeka only 10 days away the management assures the people of Kansas that they will see the biggest and best fair ever," said S. E. Lux, president and manager of the Kansas State Fair association. "We have received entries from breeders and exhibitors in 24 states, and the stall and exhibit space engaged assures us that every barn and building will be filled to overflowing. Besides these, there will be new buildings that also will be filled. One of the most interesting of the new buildings will be automobile hall, devoted exclusively to the motor car show." The Topeka fair grounds have been surveyed and a new system of walks and roadways built to accommodate the big crowds that will attend the free fair. Play grounds, rest rooms, and nurseries have been provided. Band concerts will be given by Marshall's band, the celebrated Frontier Cowboy band and the Security band on the plaza daily, where there are seats under the big trees for 6,000 persons.

The mercantile building, women's section and agricultural hall will be filled with most interesting exhibits. The culinary and textile departments will be of special interest to every housewife. The butterfat contest, big dairy display and exhibits will interest every dairyman. The fine stock show, the machinery exhibit, the tractor exhibit and actual plowing of 100 acres will demand the attention of the breeders and farmers.

The automobile races on Friday will bring the famous professional drivers of the United States together. Among them will be Fred Horey, the Canadian champion and his famous car, the Fiat Tornado; Johnny Rainy of Cincinnati, with his new Briscoe racer; "Wild Bill" Endicott, the daring Indianapolis driver; Juddy Kilpatrick and his 300 horsepower Ajax; Louis Disbrow, the most famous dirt track driver in the world; George Clark, the Texan, who is famous for his home stretch driving and "Zip" Kizer, who holds a dozen records.

"The stock show at Topeka will eclipse every livestock show ever held in Kansas," said Dr. C. W. McCampbell, of the Kansas State Agricultural college. "The entries received are of the highest class of stock in the country, and the bluest bloods of the horses, cattle, and swine world are coming to Topeka. When the Topeka fair can draw livestock exhibits from as far as Indiana and Ohio, Michigan and Minnesota, Mississippi, and Texas, it means that the finest in the land are coming.

"And the big exhibits of livestock are not the only parts of the fair to be described as 'big.' That can be said of the state and everywhere I find a great interest in the free fair. Former Senator H. W. Avery of Clay county, said: 'Everyone in Clay county is going to the Topeka fair.' Of course a few will have to stay at home, but the senator expresses the feeling of the people over the state.

"The Kansas papers are treating the Topeka fair most liberally and are saying good things of it. Topeka will be surprised at the crowds that will be here during fair week."

Doctor McCampbell, who is superintendent of the horse show, inspected the arrangements for the big night show and said he was well pleased with the plan for holding the show in front of the grand stand. "This arrangement," said Dr. McCampbell, "will be much better than the arrangements last year, when the show was held under a tent. The outdoor horse show gives more room and, with the show ring outlined with electric lights, the horses and vehicles show off much better."

Peter Pan, a beautiful roadster that has never been defeated in the show ring, is entered in the horse show. Peter Pan is the pride of the stable of J. H. Harris of Columbia, Mo., and has been in all of the big shows held in the middle western states. There will be hot competition, for John R. Peak of Springfield, Ill., will bring Tommy Doyle, an animal that has won more prizes in the horse show ring than any roadster in the country. Don Riley of St. Joseph, Mo., will bring his pair of roadsters, said by experts to be the greatest pair in America.

But the roadsters will not claim all the attention for there will be a heavy harness class, a saddle class and compe-

dition for the \$1,000 purse hung up for the saddle champions, four-in-hands, and the Shetland ponies.

Miss Loula Long is coming again with the famous horses from Longview farm including the heavy harness pair, Hesitation and Realization, that won the honors at Madison Square Garden horse show in New York. O. J. Mooers of Columbia, Mo., who won a big share of the prizes at the horse show at the Topeka fair last year, is coming with his stable of winners. John R. Thompson of Chicago will bring Pride of Prides and The Oakes, two famous horses that carried off the honors in their class at Madison Square. John Bush of Springfield, O., will have among the horses he brings to Topeka, his famous entry The Governor, which is said to be the most sensational show horse of the year. Fred Pabst of Oconomowoc, Wis., will bring his park four, which is the greatest park four in America.

E. D. Moore of Columbia, Mo., will bring his saddle horses headed by Majestic McDonald. Roy L. Davis of Kansas City, who won honors last year with his beautiful saddle horse Gingerbread Man, is coming again this year. T. V. Keil of Gainesville, Tex., will bring Gallant King and others to Topeka. James Tapp of Smithville, Mo., John Hook of Mexico, Mo., and Jamer Riford of Paris, Mo., all will have saddle horses entered.

The swine herds which have been entered include:

Duroc-Jerseys. F. H. Allen, Tobias, Neb.; J. R. Jackson, Kanopolis, Kan.; G. F. Laptad, Lawrence, Kan.; Searle & Cottle, Topeka, Kan.; T. A. Scofield, Columbus, Neb.; James L. Taylor, Olean, Mo.; C. F. Burke, Rocky Ford, Colo.; Charles L. Taylor, Olean, Mo.; P. P. Ceder, Genoa, Neb.; J. R. Blackburn, Ord, Neb.; S. M. Hinkel, Genoa, Neb.; Clarke & Son, Brimfield, Ill.; W. B. Albertson, Bethany, Neb.

Poland Chinas. G. F. Laptad, Lawrence, Kan.; E. E. Carver & Son, Guilford, Mo.; Phil Dawson, Endicott, Neb.; P. G. Hunt, Hoyt, Kan.; T. O. Moon, Kingfisher, Okla.; W. H. West, Shubert, Neb.; E. M. Chatterton, Colony, Kan.; J. H. Fitzgerald, Kingstonsville, Mo.; W. Z. Baker, Rich Hill, Mo.; Leagfelder Brothers, Mt. Vernon, Ill.; Thomas J. Dawe, Troy, Kan.; Alfred Carlton, Cleburne, Kan.; H. Bybee & Sons, Fulton, Mo.; J. B. Freeze, Bayneville, Kan.; W. M. Stinkard, Jackson, Mo.; W. A. Baker & Son, Butler, Mo.; F. C. Hoppe, Gretna, Kan.; George Henry, Jamestown, Ind.; F. B. Caldwell, Howard, Kan.

Hampshires. G. S. Lawson, Ravenwood, Mo.; Robert Lawley & Son, Glenasm, Ill.; Isom J. Martin, Lancaster, Mo.; C. J. Ward, Cameron, Mo.; E. B. Wempe, Frankfort, Kan.

Berkshires. C. G. Nash, Eskridge, Kan.; W. H. Rhodes, Manhattan, Kan.

Chester Whites. J. T. Nunnally, Reads-ville, Mo.; S. B. & B. H. Frost, Kingston, Mo.; J. J. Willis, Platte City, Mo.; Edward Ross & Sons, White Hall, Ill.

Tamworths. B. A. Roberts, Albion, Neb.

Repair the School Chimneys

The fall school term will soon begin. Whatever repairs are to be made on the buildings must be made at once. In a few weeks more they will be occupied and it will be too late to correct defects without interfering with the school work.

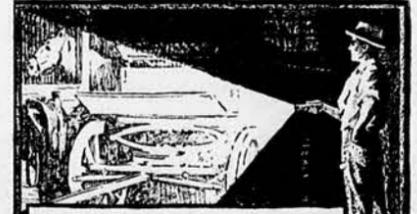
Three hundred and thirty-five fires in Kansas caused by defective flues were reported to the state fire marshal during 1914. The damage wrought by these fires amounted to \$223,000.

All school house flues should be examined, and if necessary repaired at once. A schoolhouse fire is the most dangerous fire in the world. Children become panic-stricken, and usually more are injured or killed in the stampede than are burned by the fire itself. Your child should be protected from this danger. Your schoolhouse should be as safe as painstaking care can make it. You cannot afford to take chances on having your child injured in a panic or burned in a fire.

School boards are urged to attend to the inspection of flues at once so that they will be ready and in safe condition when it becomes necessary to start fires in October. Because the chimney was all right last winter is no guaranty that it is all right now. Lightning, wind storms, settling of floors or foundations and the gradual erosion of mortar between the bricks may have produced cracks in the chimney walls while the buildings have been standing empty through the summer months.

Girls' canning and garden clubs in Iowa sold nearly \$1,000 worth of fresh vegetables last year, besides "putting up" 3,360 quarts of fruit and vegetables.

It is better to co-operate and purchase good bulls so as to get better blood in your herd than to co-operate to try to hold up the price of milk produced by poor cows.



Use These Safe Lights

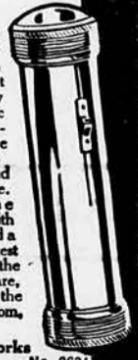
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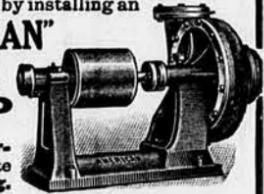
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THE FARMERS MAIL AND BREEZE

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



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For a Better Farm Plan

The Colby Experiment Station, in Charge of Stanley Clark, is Helping to Establish More Profitable Methods

By F. B. Nichols, Field Editor

A VERY vital work in the movement for better farming is being done by the Colby Experiment station. It is leading in the effort to establish farming in northwestern Kansas on a permanent and more profitable basis, which will return more in human contentment than the systems of the past. The station is in charge of Stanley Clark, a specialist who has never outgrown the farm viewpoint, and who has a deep appreciation of the rural problems of Thomas and the surrounding counties.

This farm is run to make money. The aim is to conduct it as nearly as possible according to the system which farmers must use in northwestern Kansas to produce the most profit. This means that the plan is based on livestock, drought resistant crops and silos. Some grain is raised, as this is necessary in the experimental work, but it is not featured. Wheat yields of 35 bushels an acre were produced this year. While wheat has been very profitable both last year and this season this farm is conducted with the belief that livestock farming will give a higher return in northwestern Kansas over a series of years than any grain farming plan. It is believed that there is a place for grain, but that this is only on a properly limited acreage.

Dairy cows will be featured more extensively on this place. The Ayrshire breed has been selected, as it is especially adapted to the conditions in that section. The farm has a metal-lath silo and also a pit silo, so ample storage space is provided for silage. Every effort is being made by Mr. Clark to encourage the use of pit silos, and of the above ground types when they can be afforded. It is extremely important, he said, that a greater acreage of the drought resistant crops should be grown to fill these silos; these crops should be featured more extensively than corn. To find out the relative adaptations of corn and the sorghums some very extensive variety trials are being carried on with both lines—18 varieties of corn and 18 varieties of sorghums were planted this year.

Judging from past experience it is believed that Freed sorghum, Dwarf kafir, Dwarf milo, feterita, Sudan grass and Red Amber sorghum are leaders for northwestern Kansas. No variety of corn can be expected to do so very well in that section through a series of years, but the Bloody Butcher has given fairly good yields in favorable years.

Sudan Grass Is Winning.

Some trouble was encountered this year in getting a stand of the sorghums, which was an experience, by the way, that most farmers had in every section of the state. An interesting fact developed that Sudan grass and Red Amber sorghum came through on the first trial, while the rest had to be replanted. The top-planted Sudan grass came up much sooner and grew much more rapidly than the seed planted in furrows, which was a condition noticed on many fields in the state. An interesting comparison was made in planting Sudan grass for hay with the rows 22 inches apart, with a seeding of 6 pounds an acre, and planting broadcast at the rate of 22 pounds. The seed was planted in rows with a corn planter equipped with furrow openers, and then double rowed. The two rates made about the same growth, and it is believed that they will produce almost the same yield of hay. This same result has been encountered on other fields, and it indicates that the rate of planting for this crop will be lighter in the future, which is encouraging, at least so long as the present high prices for the seed prevail.

Mr. Clark believes that there is a great future for Sudan grass in northwestern Kansas as a hay crop. There has been a very definite need for a crop of this kind for a long time. In general the farmers in this section are pleased with the crop, too, and it is being grown on hundreds of farms this year for the first time. Most of these plantings are small, it

is true, but they will supply seed for a much larger acreage next year.

Winter and spring wheat is being grown in variety tests, to study the relative yields. Considerable attention is being paid to barley, as a large acreage, which is increasing rapidly, is being grown in northwestern Kansas. Some work also is done with oats, but the experience of the farmers with this crop in many cases has been somewhat unhappy. Big yields of oats have been grown this year, however.

Some attention is being given to alfalfa and Sweet clover, and it is believed that a great increase in the acreage of these crops is needed in northwestern Kansas on the soil to which they are adapted. They will not do well on a great deal of the land in that section, and it is only on the more favorable soils that they can be produced at a profit. The station farm is very high, and alfalfa does not grow especially well there. A part of the alfalfa planting will be irrigated from now on.

The best results from farming in northwestern



A Field of High Yielding Oats on Well Prepared Soil on the Colby Substation.



Plowing Under a Crop of Rye For Green Manure; the Thomas County Soils Need More Humus.



A Part of the Especially Good 10-Acre Dry-Land Orchard on the Experiment Station Farm.

Kansas can be produced when the crops are grown under a rotation, according to Mr. Clark, and in line with this belief a four year rotation has been established. This consists of fallow one year, wheat on fallow, and then sorghums two years. The manure produced on the station farm is applied to the soil just before it goes under the fallow, so it will have ample time to start to decay before a crop is planted. It is believed that this addition of manure is very important, for one of the very vital needs of the soil around Colby is more humus. A lack of this essential was one of the principal causes of the forming of the famous—or infamous—blown strip of soil near that town, which for a time threatened to take away the country. Most of the manure in past years has been wasted on the average farm in that section, for there was a fear of the drying effects produced by manure.

It is well recognized, too, that there is a danger from blowing on this soil when it is under the summer fallow; indeed this has occurred to some extent. To guard against this a new system of summer fallow is being tried. Corn or Dwarf kafir is planted thinly every other row, and cultivated enough to keep down the weeds. The heads or ears that are produced are gathered, and the wheat is drilled between the double rows—a drill will work well between these wide rows. The stalks are left just as they stand, and they are not pastured. They tend to catch the snow in the winter and to retard the force of the wind in the spring, when the greatest danger of the blowing comes. While this method has not been used very much, it is believed that it has considerable merit. It allows a partial summer fallow and the production of some grain and at the same time it tends to avoid one of the big evils of summer fallow, the soil blowing. It is best to use corn or Dwarf kafir because they stand up better than other sorghums, which frequently will break over in the winter.

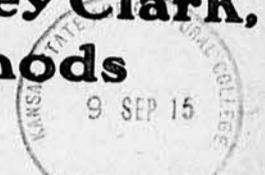
Irrigation Has a Place.

It is believed, also, that there is an important place for irrigation on every farm in western Kansas, where the water can be obtained at a reasonable cost. In many cases this irrigation will be on a small scale, with perhaps no more ground included than the garden and the lawn, but even this much does a great deal to make life more agreeable. A green spot of this kind is especially pleasing in a dry year, when the rest of the country is brown and bare. Where the lift is less it is possible to increase the amount of land under irrigation; on the station for example, 15 acres will be irrigated by the plant which has been installed recently. Five acres of this is orchard, 5 acres is in alfalfa and the other 5 acres consists of experimental plats, mostly grains. It is desired to see just what all of these crops will do under irrigation when compared with that grown under dry-land conditions.

The two wells on this place are 160 feet deep, and it is 112 feet to water. The cylinders are placed 130 feet deep. The engine is an 8 horsepower Fairbanks-Morse kerosene outfit, which is belted to both wells. About 150 gallons a minute is pumped, which goes into a reservoir which holds an acre foot of water. The bottom and sides of this pond consist of a white clay which was well puddled, and holds water well.

A feature on this farm which has attracted much attention is the 10-acre orchard, which is protected by a very good windbreak. The trees in the orchard are 8 years old, and they are in excellent condition. Especially good crops of cherries and peaches have been grown, and the crab apples also have done well. Apricots have yielded well, but the pears have produced but little fruit. Mr. Clark is well pleased with the general results that have been obtained, and so far it has all been under dry land conditions, too. To see what can be produced by irrigation, however, one-half of the orchard from now on will

(Continued on Page 19.)



DEPARTMENT EDITORS
 Livestock Editor.....Turner Wright
 Field Editor.....F. B. Nichols
 Farm Dolings.....Harley Hatch
 Markets.....C. W. Metsker

Entered as second-class matter Feb. 10, 1906, at the postoffice at Topeka, Kansas, under act of Congress of March 3, 1879.

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Passing Comment--By T. A. McNeal

On the Way

We finally have reached the Pacific. A journey across the continent however, has become so common that it can no longer be considered a novelty. I am not much of a traveler and yet this is the third time I have visited the Pacific Coast. Each time however, certain new impressions are made upon my mind and certain old impressions are strengthened.

The first time I crossed the continent the two most vivid impressions were the exceeding vastness of the territory of this Republic and the great amount of that territory that seemed to me to be unfitted for human habitation. Even yet, with all the wonderful development in irrigation and cultivation by dry-farming methods, man has comparatively speaking, made but little impression on the lands of mountains and deserts. Here and there the streams have been dammed by tremendous labor and with the pent up waters parts of the formerly parched and dreary desert have been changed to smiling and fertile fields which support a good many hundreds of thousands of industrious and prosperous citizens. A part too, of the land which was formerly considered incapable of productive agriculture has by improved methods of cultivation, without the aid of irrigation, been brought to a state of surprising fertility. In time, without doubt, many more thousands of acres of land in the western states once considered hopeless and irreclaimable desert, either by irrigation or by dry-farming methods will be made habitable and capable of supporting several millions of persons.

But after all the land has been brought to a condition of profitable cultivation by either method that is possible, there still will remain untold millions of acres which at best will be capable of supporting some scattered herds of cattle, sheep, goats or other livestock. There still will be vast stretches of land on which there will be scarcely a human inhabitant.

The second thing that has impressed me on this journey is the wonderful change the automobile has wrought within 12 or 15 years in the matter of transportation. Ten years ago the individual who would have attempted a journey across the continent in an automobile would have been considered by most persons as a reckless adventurer and probably a trifle off in the upper story. Today it is no exaggeration to say that literally tens of thousands of persons are making trips across the continent in automobiles. On this trip I have met persons from perhaps not a majority of the states of the Union, but certainly from a very great many of the states, motoring across the continent and thinking nothing of it.

At or near the rather obscure and little-frequented resort on the shores of Lake Tahoe where we spent five days there were automobiles from the following states that I can call to mind: New York, Ohio, Michigan, Illinois, Missouri, Texas, Arizona, Utah, and a number from various parts of California. Another thing that I observed was that a large number of different makes of machines were represented and all of them apparently giving satisfaction. I have decided that if you want to buy a machine you are safe in buying any one of at least a dozen makes and if you want service and want to save your money and don't care a bit for style, buy a Ford. There are more Ford machines used by tourists than there are of any two or three other makes put together. It is conceded by all that the little Ford will climb where few if any of the other machines can follow, but as a matter of fact all of them managed to get over the mountains and desert some way.

This remarkable development of the automobile is what makes me believe, as I mentioned in a previous letter, that within a comparatively few years the flying machine will be a common and immensely popular form of conveyance. In 20 or 25 years from now, or in less time perhaps, the common expression will be at the beginning of the hot season, "Well, where are you going to fly this season?"

We have not been stopping at the high priced feeding places and consequently do not come in contact much with the very rich. Have just noticed a few specimens here and there who looked like money and I must say that the more I see of them the less use I have for them. Not that the most of them

seem to try to make a great deal of display, for they do not, but there is somehow or other an air of power and authority about them that doesn't suit me. There is an impalpable something about them which seems to say, "I have money and power and have a right to demand service."

If they actually had created the wealth they command I wouldn't have any serious objection to their manners but in most cases they have not. They have been lucky rather than especially wise. Most of them are not particularly useful members of society. By a combination of fortuitous circumstances, coupled with a certain selfish shrewdness, they have managed to come into possession of something by which they are able to command the services of their fellows and they seem to labor under the impression that they are really superior beings.

What they have managed to do as a result of our financial system is to command the credit and earning power of a large number of other persons. It is not money but credit that controls the world. There is not enough real money in the whole world to pay the expenses of the European war for six months. The whole world is doing business on credit created by the earning power of the persons who toil industriously and live frugally, who are not impressed with the notion that they are superior beings at all. Indeed, they are surprisingly modest and self-effacing and even are glad of the opportunity to hand over the credit which they themselves create to other men and then pay those men fat interest on that same credit.

The Drink Business

Another thing which impresses me out in this far western country is the difference in the ideas of the people concerning the drink business. It has been so long since I have seen an open saloon in Kansas that to see a saloon nearly every other door jars me considerably. It isn't that I am shocked by the sight of so many drunken men—considering the number of saloons the number of men who are drunk on the streets is surprisingly small, so much so that I concluded the bulk of the drunks are not allowed to appear on the streets. What I can't understand is where all these saloons get their support.

In the little town of Truckee, the place where you leave the main line of the Southern Pacific to take the little narrow gorge road which runs to Lake Tahoe, there are perhaps 700 or 800 persons. There is one principal street perhaps an eighth of a mile long and on this street I believe I noticed one dry-goods store and perhaps a couple of grocery stores. All the rest of the business houses appeared to be either saloons or drug stores, mostly saloons. I wonder who supports them. Here in San Francisco, also, there are many saloons.

They must be making money or they wouldn't exist, but I am constantly wondering who furnishes the money. Where does it come from? Surely the bulk of it comes out of the earnings of the laboring people but how can these laboring people support all these saloons and still manage to have enough left to exist on themselves?

The Japanese Question

I discover also that there is a spirit of militarism out here which we do not find in Kansas. These people really are worried somewhat for fear the Japs will come over here and bombard San Francisco and other coast towns. The Japanese question which we hardly ever think about in Kansas seems to be really a live question here.

The Californians as a rule do not seem to like the Japs. They say they are "cocky" which means I suppose, that the Japs think they are as good as Americans. With some persons it seems to be considered an unpardonable sin in other people, especially if the color of their skin is different, to entertain the impression that they are entitled to as much consideration as anybody else.

I talked with a very intelligent business man on the train. He is a Californian and no doubt expressed the sentiment of a very large class—probably the majority of California business men. He thinks the United States should prepare at once for war. We should, in his opinion increase our navy

and strengthen our coast defenses. Somebody is liable to jump onto us.

I suppose this sentiment accounts for the enthusiastic reception given to Roosevelt's belligerent utterance here a few weeks ago.

At San Francisco

This is my first day at the Pan American Exposition. No man can give an intelligent opinion of the show in one day, at any rate I am not that man. I might say that in a general way it is rather bigger than I expected but the fact is, I have scarcely got the hang of it yet and I am going to confine this letter mostly to my impressions of what Kansas is doing at the Exposition.

I was opposed to the making of an appropriation for a Kansas exhibit here because I believed it was money wasted. A visit here however, has changed my mind somewhat. Really, Kansas is making a very creditable showing and I am glad of it. I think however, that more of the money should have been spent on the exhibit and less on the Kansas building.

The building is a creditable structure and compares favorably with most of the state buildings but there was really only one object to be attained in making an exhibit and that was to show the visitors what Kansas can produce. A building doesn't do that.

Besides the Kansas building does not seem to me to be well located. It is one of the most remote from the main exhibits of the fair and as it contains no Kansas products so far as I could see the only purpose it serves is for a gathering place for Kansas people. It occurs to me that space might have been obtained in one of the large buildings for a rest room for weary Kansans, which could have been fitted up at comparatively small expense. This would have been far more convenient and satisfactory than the present arrangement.

For example, if the state had secured, say twice as much space as it has in the agricultural hall and used a part of this for a rest and reception room and spent a few hundred or a few thousand dollars more on an exhibit of our productions, I think that Kansas would have attracted as much or perhaps more attention than any other state in the Union, barring California and Oregon.

As it is, John Ferriter, superintendent of Kansas exhibits in the Palace of Agriculture, has done wonders with the money he had to spend. I did not see any more tasty or interesting state exhibit outside of California and Oregon than the Kansas exhibit. The fact that it does attract attention is shown by the registration which has already reached nearly 7,000. This proves that a great many persons besides Kansans have been interested in looking at the Kansas exhibits.

The showing made of our standard crops is excellent and artistic and has been accomplished at a surprisingly small cost. Mr. Ferriter tells me that the total cost of fitting up this exhibit, which does not include freight or the cost of gathering the products is less than \$900.

And when it comes to taking premiums Kansas stands right up near the head of the list. In the display of kafir, feterita, milo maize and sorghum no other state is in the same class with Kansas. This display has excited a great deal of attention from visitors, many of whom knew little or nothing about these crops until they came to the fair. Another thing which will surprise even a good many Kansans is the fact that Kansas shows the best apples on exhibition.

But while the agricultural exhibit is gratifying beyond my expectation, I believe the visitor who knows nothing about the state except what he sees here will go away with the impression that we have nothing but farm products to show. He would not know from what he sees here that we have any minerals in the state at all and he might get the impression that everything we have in the way of horticultural products is apples. He would not know that the state has the largest dairyery in the world and has vast and increasing dairy interests.

A large part of the money which has been spent on the Kansas state building should have been spent in making a showing of our diversified industries. Kansas coal, Kansas lead, and Kansas zinc, all should have been on exhibition. Also Kansas butter and Kansas honey. There are a dozen lines in which

the state could have made a showing that would have been an eye-opener to the visitors, which are not shown at all and the total expenditure would have been less than it will be.

The Kansas building will make no permanent impression on the minds of the visitors at the great fair because there are a dozen other buildings that are more striking and attractive, but a great many will remember the exhibit of Kansas wheat and corn and kafir and feterita and grasses. This impression would have been greatly strengthened if all the products of the state had been shown up in attractive form, as they might have been.

At the Centennial Exposition at Philadelphia, the first of the great expositions in the United States, it is safe to say that the Kansas exhibit attracted more attention than any other there. Persons from all over the United States came away from Philadelphia talking about the show put up by Kansas. There is no doubt that the effect of that exhibit was to bring hundreds of thousands of persons to the Sunflower state. And yet the total amount of money expended on that exhibit did not exceed \$30,000. Most of that money was spent in displaying the products of Kansas. I suppose there was some sort of a Kansas building but that did not count. If that \$30,000, or most of it, had been expended on a building it would have been wasted, just as the money spent in building this Kansas building is money wasted.

On one side of the Kansas exhibit is the exhibit of Oregon and on the other that of Missouri. I am told that Missouri spent \$11,000 on her exhibit but I do not consider it as attractive as that of Kansas, which cost hardly a tenth part as much.

I do not know how much the Oregon exhibit cost but evidently it cost a good deal and it is a remarkably fine exhibit. It is mostly confined to an exhibit of the products of the Willamette valley, but the visitor goes away with the impression that the Willamette valley must be a wonderfully fertile region. In fact it makes him feel as if he wanted to go there.

Diagonally across the aisle from Kansas is one of the most unique and striking exhibits in the Palace of Agriculture. It is what looks like a huge pile of corn being poured out of a great horn of plenty. The corn exhibit is made by the state of Iowa, the greatest corn-growing state in the Union. Iowa has other products but the thing that will cling to the mind of the visitor is the recollection of that great pile of rich yellow corn, and the picture in the gallery of memory will be associated always with the name of Iowa.

A Mile of Concessions

It is said that this fair cost 50 million dollars. If it did, and I am not prepared to dispute the figures, then there is going to be a lot of money lost on this show. The most optimistic estimate I heard as to attendance was that it will reach a total of 20 millions by the time the fair closes. If there were no admissions except for full price that would mean 10 million dollars gate receipts. But perhaps a third of the admissions will be children. Then the number of dead heads will be legion.

If the gate receipts aggregate 8 million dollars it will be rather remarkable.

There is also a large revenue from concessions. There is about a mile of concessions. I was told that the concerns which run these side shows have to pay \$25 a front foot for ground rent and then give the exposition management 25 per cent of the receipts. If that information is correct then the ground rent from these should amount to nearly a quarter of a million dollars. In addition to these side shows there are stands in all the leading buildings which have to pay well for the privilege.

But after figuring liberally on the revenue from these sources it seems to me that the Exposition will lack about 40 million dollars of paying back what it has cost, but then it may be worth it. The city of San Francisco voted bonds to the amount of 5 million dollars. The state of California issued 5 million more and the citizens of the city and state donated about 7 million dollars more. The city, state and individual contributors have kissed their money good bye, or would except for the fact that the taxpayers will be paying interest on the bonds for the next 30 years.

It may be possible that the people who do not intend to visit the Panama Exposition would be interested in knowing what there is to this show that made it cost the enormous sum of 50 million dollars. Well, to begin with, the grounds stretch along San Francisco bay a distance of about three miles and cover nearly 700 acres. The ground was mostly swamp land and had to be filled up and set with trees, shrubbery and grass. It is a difficult matter to grow a lot of trees in a month or so and make beautiful shrubbery to order. That is what has been done here.

At the eastern end are the side shows, the imitation Yellowstone park, the ostrich farm, Jap village, Grand Canyon, a production in miniature of the Panama canal, etc. Then you come to the group of great main buildings, which the managers call palaces. That sounds big and as most of us never saw a real palace the name fits as well as anything else. In the center of the group of great buildings is the Court of the Universe. There is one thing to be said for the planners of this show, they didn't deal in small, common names.

The Court of the Universe is no slouch of a place either. It is 900 feet long and 750 feet wide. At

the eastern arch is a group of figures representing the East, a huge elephant flanked on either side by camels on which are mounted oriental warriors. At the opposite arch is another group of figures representing the West with the dominant figure a prairie schooner of 1849. On the east of the Court of the Universe is another large court called the Court of Abundance and to the west is the Court of the Four Seasons.

The Court of the Universe is in the center of a great rectangle containing the Mines and Machinery palace, the Transportation palace, the Agriculture palace, the Food Products palace, the Education and Social Economy palace, the Liberal Arts palace, the Manufacturers palace and the Varied Industries palace. East of this rectangle is the Avenue of Progress and east of this is the Machinery palace. This building is 967 feet long and 367 feet wide. It covers 369,600 square feet of space and is said to be the biggest exposition building ever erected. South of the great rectangle is the Avenue of the Palms, a street lined with great palm trees. Still south of this street are Horticulture palace to the west, and Festival hall to the east.

West of the rectangle is the Fine Arts palace, and west and south of that are the buildings and exhibits of the foreign nations.

The nations represented, some with elaborate exhibits and others with very moderate showing, are Japan, France, Norway, Sweden, Siam, Denmark, Italy, Turkey, Brazil, Bolivia, India, Canada, China, Germany, Argentina, and the Netherlands. To the north and west of these are the state buildings, 32 in number.

Of the foreign buildings and exhibits, Canada far outclasses all the others. The fact is that outside of the great main buildings nothing has attracted so much attention as the Canadian exhibit. The impression that Canada is a cold, inhospitable land with only two seasons, nine months winter and three months late in the fall, is dispelled by this marvelous exhibit. The visitor goes away with an impression that Canada must be a delightful land where practically everything that can be grown anywhere in the United States is produced in great abundance.

I take off my hat to Canada. Whoever planned that exhibit and arranged it is a pippin and if it was the work of several, then there were several pippins.

Of the state exhibits, California naturally leads, as might be expected and next to California is Oregon and next to Oregon I should rank Washington.

The Ostrich Farm

One of the side shows we looked into is the ostrich farm. I am glad I went. The entrance fee is only 10 cents and it is worth more than that. There are a hundred ostriches brought up from the ostrich ranch near Pasadena. I was much interested in these birds, never before having had the privilege of inspecting an ostrich at close range.

A full grown male ostrich will weigh 350 pounds but his intellect is not proportioned to his weight. This observation however, may be made about a number of men of large bulk as well as about ostriches. The ostrich is a low-browed bird with a large body and extensive neck. With these birds appetite seems to be a matter of habit rather than of enjoyment. The ostrich will swallow an unskinned orange with great haste and apparent eagerness, but he does not wait for the orange to be deposited in his stomach until he grabs for another. In fact, he will keep on taking in oranges until his neck is full.

The ostrich seems to have a very convenient neck. The swallower seems to run around it in a circle so that when it is loaded with oranges some of them will be passing down the back of his neck while others will be proceeding down the front. I did not see it tried but I imagine that if these fool birds had been fed on base balls instead of oranges, they would have swallowed them with the same avidity.

The keeper told me that he had seen one of the birds discouraged in the eating line but once. One day a large ostrich undertook to swallow the garden hose. He had about 3 feet of it down his neck when an attendant carelessly turned on the water. A look of surprise gradually came into the eyes of the ostrich. When his stomach became flooded so that the varied assortment of things he had swallowed began to float about, he seemed to have a faint impression that in some way or other he had made a mistake. He seemed to be under the impression that unwittingly he had swallowed a well. Another attendant came along and pulled the rubber hose out of him but for an hour or two, the keeper told me, that ostrich seemed sad and puzzled and whenever he moved the water rolled about in his interior and seemed to make him seasick. Still, the lesson left no lasting impression. Within an hour that ostrich would have tackled another piece of hose with the same careless, omnivorous appetite he displayed in the first place.

However, little can be said for the intellectual attainments of the male ostrich, while even less can be said for his female partner. She seems to be utterly devoid of a sense of family obligation or maternal affection. When she has laid an egg about the size of a football she seems to consider her duty done. It is also entirely immaterial to her where she lays the egg, and if the matter of the perpetuation of her race were left to her, the ostrich family would be as extinct as the "dodo."

Here, however, is one place where the male ostrich shines. He is really the model family man or family bird if you insist on being literal. The female partner of his joys drops the egg as I have

said, any old place, and goes off and leaves it, not seeming to care a whoop what becomes of it. With her male side partner it is different. He is right there—Johnny on the spot, as it were—to look out for the perpetuity of his race. He fashions a nest for the egg in the sand and guards it with care.

When the "chick" is born its mother regards it with as much indifference as she did the egg from which it was hatched. She doesn't seem to know what it is or why it happens to be around. She doesn't seem to want to destroy it necessarily, but if it happens to be in her way she is apt to step on it or kick it out of her way. Not so with the paternal ancestor of the young ostrich. He seems to regard it with profound interest and concern. He looks out for it; sees that it is fed and protected from harm.

In the course of three or four weeks the young ostrich is as big as a yearling turkey and able to look after itself to a considerable extent, after which the paternal anxiety for its welfare ceases, but during its infancy if it wasn't for the watchful care of its dad that young ostrich would pass into the saccharine subsequently. In fact there wouldn't be any young ostrich for it never would be hatched at all.

Of course since raising ostriches has become a business the keeper of the flock looks after the eggs to a considerable extent and thus relieves the burdens of the father ostrich, but in a state of nature the credit for rearing the family must be given to the male. He hasn't a great amount of gray matter in his noggin but he realizes that in family matters his wife is not to be depended on.

The only use for the ostrich commercially is to supply tail and wing feathers for neck boas and hat ornamentation. Here again the male leads. His tail and wing feathers are much handsomer and more valuable than those of the female bird. It would look to a tenderfoot as if plucking the tail feathers from a male ostrich would be a very serious job, but the keeper of the flock tells me it is not.

Here again lack of brains works in favor of commerce. It is easy to hoodwink an ostrich and that is what is done. The keeper slips a hood over his head and at once the ostrich becomes as tame and submissive as a pet lamb. There is no reason why with one of those huge feet and legs of his he could not kick the stuffing out of the man who is trying to rob him of his choicest feathers, but once his head is in the hood, the stuff is off with him and he submits without a murmur. I think the keeper told me that this plucking business takes place about twice a year. He may have said three times. The young birds are ready to pick when they are 8 months old. At the Pasadena ostrich farm there are more than 600 of these huge birds. I think the farm is profitable. At any rate it has been in operation for a good while.

There is one thing I want to say for the ostrich before leaving the subject, and that is, that for such a huge, ungainly looking creature, he is lighter on his feet than almost any other bird or animal, barring the cat tribe, that I ever have seen. As soon as he sees the keeper he canters down toward the fence evidently with the impression in his ridiculous head that he will get something to swallow. It is immaterial to him what it is, just so it is something to keep his swallower busy, but it was his movement that attracted my attention. He has the graceful tripping movement of an expert dancing master and carries his 350 pounds weight as if it were a bunch of feathers.

Mr. Thompson's Opinion

Editor The Farmers Mail and Breeze—I beg to differ with P. T. Alexander of Burlington, Okla. He states that all our social, political and religious institutions are founded on the theory that the love of money is an incentive to higher things in this life. I should like to have him name a few religious institutions which believe as he says they do. I do not know of any.

If the Socialist party is a political institution then the Socialists are included in his statement which would be true of his party. I never saw a Socialist who would take all the money he could get. He refers to 1 Timothy 6:10, which reads, "For the love of money is the root of all evil, which while some coveted after they have erred from the faith."

The wrong is in coveting, desiring, unlawfully. A certain class of persons seem to think the world owes them a living while they sit around and talk about the man who worked hard to get a little ahead. WILLIAM E. THOMPSON.

Conway Springs, Kan.

The world owes no man a living if the man is able to earn it. One cannot however, knock about the world very long without being impressed with the opinion that a great many under our present system get a great deal more than they earn while a great many more get less than they are entitled to have. It seems to me that no right thinking person will begrudge another individual what that individual has rightfully earned.

The bane of the world is the desire to get what is not rightfully earned. That desire is not confined to any one class of course but it is more manifest among those who already have far more than they need than among those whose earthly possessions are meager.

Socialists individually are much like other people with about the same number of faults and shortcomings that are found among other men. The theory of Socialism however, was born of a desire for a fairer, more equitable system than we have now. Maybe that is an unattainable dream. I do not know.

More Wheat Profit For Pratt

There is very little of the wheat going to market from the machines this year. Last year convinced even the most skeptical that it would pay to provide bin room for the entire crop, for at threshing time wheat brought only 60 cents and at one time during the winter the elevators paid \$1.50 a bushel. This year many new granaries are being built and although they offered \$1.20 last week not much wheat was sold. Most of it will be held until later.

This year we purchased a portable grain elevator with a hydraulic dump, with which to put our wheat into the bin. This dump beats anything of the kind that I have ever seen. The machine is run by either horse power or gasoline engine, and does its work well. Its use is certainly a saving in labor, time and the number of teams required to take care of the grain from the thresher.

There never was much competition in our grain market in this section of the country until last year. In June, 1914, the farmers around Pratt organized an Equity Union, with 105 members. They immediately established an exchange for buying and selling farm products and coal, farm machinery and merchandise. The capital stock of this exchange is \$10,000, divided into 100 shares of \$100 each. No person can hold more than one share. This exchange is managed by a board of five directors. They employ a manager, clerk and such other helpers as they need.

The Farmers' Equity Union members are for "golden rule co-operation," which divides the melon with the folks at home, with those who helped to create it. This exchange not only paid the farmers as much for their wheat as any of the other grain companies here but they also have brought down the price of coal, hay and feed.

During the first year they purchased an office building and an elevator with a capacity of 23,000 bushels and erected a large steel warehouse for hay and coal. At the close of the year the net profits of this exchange were \$8,320.10 which amount was prorated back to the stockholders in proportion to the business done with this exchange during the year. There are a great many of these Equity Union exchanges in this part of Kansas. Delegates from these local exchanges met at Hutchinson recently and organized a central exchange, to be located at Hutchinson. This central exchange will not only save, for each local exchange, much of the commission charges but will get the highest market price for their wheat and other products that can be shipped in carload lots.

This central exchange also will operate a mill in the near future.

Pratt, Kan. Esther L. Hill.

Concerning a Horse's Foot

I have a horse that has a crippled foot, and the hoof is so hard that it is difficult to keep a shoe on it. The nails pull out easily. Is the nailless horse shoe a success? J. C. BRIGGLE.

Belle Plaine, Kan.

There is no known method that is successful to apply a shoe to a horse's foot other than nailing it on. The trouble with the nailless horse shoe is that it grips the foot as in a vise, and this interferes with a proper expansion and contraction of the rear half of the foot, which occurs normally every time the foot is set down and lifted up. This expansion and contraction is known as "the physiological action of the foot," and is absolutely essential to the maintenance of proper nutrition of the foot. You probably have noticed that ordinary shoe nails are never driven in the rear half or third of the foot, but nails are left out here so as not to interfere with this physiological movement. There is a fortune in store for anyone who can invent a successful, practical, nailless horse shoe.

The only thing that you can do for your horse's foot is to soak the animal's foot thoroughly by placing it in a trough containing about three inches of water and keeping the animal's foot in this water for probably about a month, taking it out for short intervals to permit the animal to rest. If the animal is taken out of water for any considerable time the foot should be oiled with fish oil or vaseline, as this prevents the evaporation of the absorbed moisture.

Dr. R. R. Dykstra.

Kansas State Agricultural College.

Increase of knowledge means increase of production.

What Kansas Road Laws Say

Powers and Duties of County Commissioners Set Forth

BY C. D. YETTER

THE BOARD of county commissioners and the county engineer of highways are authorized and required to determine where and when work shall be done on state and county roads.

In all counties in the state the county surveyor may be the county engineer of public highways and bridges if he is competent, in the judgment of the county commissioners, to do this work; if not, they may appoint some other person.

The county engineer of highways has general supervision over all state and county roads under the authority of the board of county commissioners, and over township and mail route roads under the township trustee and highway commissioners in townships. He must be at his office at the county seat at least one day a week, and oftener if necessary. In addition to his duties outlined with regard to townships he is to study conditions of soil and the lay of the land in the various townships and collect information as to deposits of stone, shale, clay and other road-making material, and investigate the best method of using them. The bridge work of the county, under the authority of the county commissioners, is to be in his charge. If he is competent to do so, he is to make profile plans and specifications and do the engineering work in connection with these bridges. When the county commissioners and the county engineer desire to avail themselves of the advice and scientific knowledge of the state engineer of roads and highways it is the

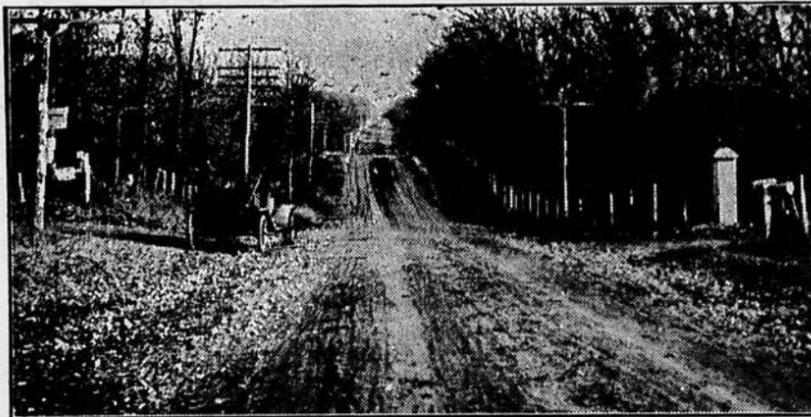
plied with. If a swinging gate is used, or one that compels the driver to alight to open and close, the land owner must set posts on both sides in such a way that a driver can hitch while opening and closing gates. The commissioners may issue orders as to what seasons the gates are to remain open or closed, or may order them kept closed the entire year. Damaging or destroying these gates, or leaving them open when ordered closed by the commissioners subjects the person guilty to a fine not to exceed \$100.

State Line Roads.

A road may be established by the county commissioners along the state line, 20 feet wide in this state, in the regular manner in which roads are laid out, provided the adjoining state arranges for establishing its share of the road.

All road work done by the county commissioners or under their direction must be on a basis of the 8-hour day, and in the letting of contracts they must take this into consideration. In case of emergency or to save life and property men may be worked more than 8 hours, but must be paid for overtime.

County commissioners or the mayor and council of cities may make written request on the warden of the state penitentiary, and he may detail certain convicts to work on the roads and highways or the streets and alleys of cities. The city or county must pay \$1 a day



This Road Is Made From Crushed Stone, and the Hauling Is Done When the Soil Is too Wet For Working in the Fields.

duty of the state engineer to supply such advice and scientific knowledge free to the engineer or commissioners applying to him.

The Fees.

The fees of the county engineer are \$4 a day which includes his time going and coming, and also certain fees for maps and plats under certain limitations according to the population of the county, as stated in paragraph 1, chapter 226 laws of 1915.

County engineers and surveyors decide what state and county roads are to be dragged, with the approval of the county commissioners. A reasonable amount is to be paid for this work, not to exceed \$1 a mile for each time dragged where the roadway is not more than 16 feet wide, and not to exceed \$1.50 a mile where the roadway is not more than 30 feet, and not more than \$15 may be expended for this purpose on any one mile in any year. A severe fine is provided for making a false return of dragging roads.

At the time of levying county taxes, the county commissioners may levy a road tax of not to exceed 1 mill on all the taxable property in the county to be collected the same as other taxes and this is to be expended on the building, repair, maintenance and improvement of state and county roads. This levy may be increased to 3 mills by calling an election for the purpose, providing, of course that the election results favorably to the increase.

In counties where lands are used largely for pasture the county commissioners may authorize gates across public highways provided they will not interfere seriously with the convenience of the public. The commissioners have considerable discretion as to the kind of a gate used, and their orders must be com-

for these convicts and all extra expense of guarding them. They are not to be used on bridge work, or any employment where they would come in competition with skilled labor.

Stone yards may be established in counties by the commissioners for the

The party-organ newspaper, the newspaper which stands for "the party" right or wrong, is dead or dying. The public scorns it when it does not contemptuously laugh at it. It is a relic of the time, now passing, when partyism and not public service was the chief end of politics. It praised fulsomely and indiscriminately the good and bad men and the good and bad acts of its party. It condemned unsparingly every act and every man of the opposition. The increasing intelligence of the people has made its bunc and sycophancy ridiculous. Party organs have always been more of a curse than a benefit to the party they fawned on; traitors to the public interest and actual enemies of good government.

working of prisoners in breaking stone for use on roads and streets. The broken stone may be sold and the proceeds applied on the prisoner's fine. In case a prisoner desires to work out his fine on the public highway he may file a bond, to be approved by the county clerk and the chairman of the board shall specify where the work is to be done, and also what road overseer the prisoner is to work under. A certain time must be set for the completion of the work but the chairman may extend

the time for a good and sufficient reason. In case of failure to perform the work the county attorney will collect on the bond. Prisoners are allowed \$1 a day for work on roads and streets. The county commissioners may allow a certain amount for breaking stone.

Rock crushers, rollers and other road machinery may be purchased by the county commissioners on receiving a petition signed by 35 per cent of the resident tax payers of the county. When such machinery is purchased a competent person must be employed to have charge of its operation and use at all times. The person so employed is required to keep a record of the cost of material, cost of its preparation by the machinery and cost of using same after preparation, and file a report with the county clerk, which becomes a part of the permanent records of the county. This machinery is to be lent to township boards and residents of the county free upon a written application to the county commissioners, except that the persons or board borrowing the machinery must pay the person in charge a reasonable amount by the day, not to exceed \$4 and provide the power necessary to operate the machinery.

Cut the Hedges.

County commissioners are authorized to cut all hedge fences within 50 yards of a railroad grade crossing or an abrupt corner in the road, and keep them trimmed to a height of 4 feet, except when used as a protection for an orchard or feed lot. They are also authorized to cut all weeds in public roads within 50 yards of a railroad grade crossing, public road crossing or abrupt turn in the road, and keep them cut to not to exceed 3 feet in height. Bill boards, sign boards, and board fences are to be removed for the same distance, but if a board fence is removed it must be replaced with one not to exceed 4 feet high. This does not apply to signs placed by state or county associations to give road directions or information. The expense of this work is to be paid from the general funds of the county.

It is the duty of the county commissioners to fix the time for the killing of weeds known as Russian thistle and Canada thistle and they must publish the notice of time set three weeks in advance in the official county paper. They are also to designate the portions of townships for road overseers to be responsible for in the destruction of Johnson grass.

An Abscess From Distemper

I have a valuable horse which took the distemper about three weeks ago and has gotten over it apparently except that it left a lump at the side of the neck and point of the shoulder. The lump is about 6 inches across and about 4 inches thick. We have tried opening it but nothing came but thick dark blood. Will you please advise us what to do? H. W. SCHAIBLE.

Gove, Kan.

As the result of the distemper the glands along side the neck and those at the point of the shoulder have become infected and are abscessed, or in other words they contain pus. This pus is in many cases very deeply situated so that it is necessary to have the knife penetrate the tissues to a depth of 4 inches or more. You may feel satisfied that the pus is there, and if you go in deep enough, you will get it. I would suggest that you have a competent graduate veterinarian do this work for you.

Dr. R. R. Dykstra.

Kansas State Agricultural College.

These Steers Have Quality

All of the animals in the steer herd which will be shown by the animal husbandry department of the Kansas State Agricultural college at the state fairs at Topeka and Hutchinson were bred, raised and fitted on the college farm. More than this, the college still owns the sire and dam of every animal. The herd consists of nine steers, three Short-horns, three Herefords and three Angus. There is a calf, yearling and two-year-old of each breed. All are purebred.

This is the first time that any college ever has shown a steer herd of this size in which all of the animals were produced on the college farm. The remarkable quality which this herd has, too, is a good index to the efficiency which is being obtained in that department. The herd probably will be shown at several fairs outside of Kansas, including San Francisco and the American Royal at Kansas City.

Sorghum Crops Are Best

BY G. E. THOMPSON.

The western fourth of Kansas is not a wheat country and neither is it a corn country. The sorghums, however, are well adapted to the conditions found there, and on the average are the surest and most profitable crops. Dwarf kafir and Whitehulled kafir, Dwarf milo, feterita, Freed sorghum, Red Amber sorghum, Black Amber sorghum, Western Orange sorghum, broomcorn and Sudan grass are included in this group. The particular variety needed will depend upon the locality in the state and the purpose for which it is grown.

In growing any of the sorghum crops, they must be fed to livestock on the farm if their full value is to be realized. These crops should be planted from home grown seed, and if intended for the production of grain they must be in cultivated rows.

In handling cultivated ground in western Kansas, it should be kept comparatively rough at all times. Never harrow, float or roll until the surface is smooth and fine. When the ground is worked to too fine a condition it may blow and drift badly. If left in a coarse and rough condition it will not blow, rains penetrate easily, and snows stick and lie on the fields instead of blowing off. Most of the cultivation should be done with shovel cultivators instead of smoothing harrows, floats or rollers. Listing usually is best done in an east and west direction rather than north and south because it catches and holds more snow.

The settlers starting farming operations in western Kansas should plan to follow a diversified farming system. The handling of livestock should be made the major portion of the work. Rough feeds should be grown to carry stock through the winter and nothing other than concentrates such as cottonseed meal or alfalfa should be bought. Enough feed should be kept on hand or put up each season to carry the stock through a second winter. These feeds, if they are sorghums, are most easily stored by means of the silo and a silo of some kind should be constructed. For the small size silos in western Kansas, the pit or underground silo is the cheapest and easiest to construct and it keeps the feed as well as any other type.

Western Kansas presents an encouraging opening for the man of limited means, provided he knows the conditions which he will be forced to meet and prepares to meet them.

County Agents Have a Place

BY EDWARD C. JOHNSON

In the North and West the farm demonstration movement has centered largely in so-called "agricultural clubs," or "farm bureaus," organized primarily for the purpose of demonstrating and putting into practice modern methods of agriculture. These differ in the details of organization and management in the various states, but the general plan is that of a close organization of not less than 100 farmers in a county to several hundred paying an annual membership fee ranging from 50 cents in some states to \$5 in Kansas and \$10 in some bureaus in Illinois.

All the bureaus have practically the same primary purpose—the improvement of agricultural conditions through increased and more economical production and a less wasteful system of distribution of agricultural products. In practically all cases the farm bureau has hired a man agriculturally trained to take the lead and devote his whole attention to its work. This man usually is selected by the agricultural college of the state in which the farm bureau is located, and his name presented for approval to the farm bureau which he is to serve before appointment is made. In some states, notably Wisconsin, he is selected by the agricultural college with little, if any, reference to any farm bureau. In such cases he is regarded strictly as a college representative. In most states, however, even though the agent is selected by the agricultural college and is largely responsible to it for the kind of work undertaken and its method of prosecution, in order that his work may be most effective and the greatest interest of the community enlisted, he does his work after conference and consultation with a representative executive committee from the farm bureau.

Hay Farming Does Not Pay

This Crop Should Be Fed at Home to Livestock

BY H. C. HATCH

DURING the last week, which ended August 21, we managed to get in 1½ days' plowing. Then came our share of the Galveston storm, and there was no plowing after that. The grass and weeds are still growing and when we can get at the work the plow will turn under the heaviest growth I ever saw on cultivated land. It cannot fail to help the soil to have such a green growth turned under.

Much of the foxtail and crabgrass on the unplowed land is headed, but is still very green. If it can be plowed under while green this grass seed will rot along with the plant. If it is not plowed under until the plant is dead the seed will lie in the ground and grow when conditions suit it. It is strange how grass and weed seed will bide its time; it will wait over two or three dry seasons until it strikes one with moisture enough to suit and then grow as it has grown this year.

Scarcely a bale or a forkful of dry hay has been put up this week. Monday was a fairly bright day and in most fields mowing machines were started. Tuesday brought a light rain which prevented the curing of grass, and when the Galveston storm came all this grass was lying out in the fields partly cured. It will have to be stacked up for cattle feed as has so much of the hay which has been cut in the last two weeks. It now appears as if the bulk of the hay must be put up in September.

The fall of 1902 was something like this. There was an immense crop of prairie hay that year and frequent rains prevented anything like continuous work in the fields. On this farm haying commenced about August 5 and continued at intermissions until well into October. By October the growth was very heavy; the bluestem had all run up to seed which made a bulky, stemmy crop. The same thing is going to happen this year; the grass is already running up to seed, which will increase the quantity of hay at the expense of quality. The stems do not hurt it for home feeding but they do hurt the sale of it.

But who wants to sell hay when it brings only \$8 a ton on the Kansas City market? If everything breaks right and no hay is lost in bad weather and one does not live too far from the station it might be possible to get a ton of hay to Kansas City with no more than \$6.50 a ton actual expenses attached to it. This would leave the fortunate shipper the sum of \$1.50 a ton for his hay. It is worth that to bed hogs provided the hogs lack a bed. It is a sorry bunch of cattle that will not return \$1.50 a ton to their owner for this hay.

Perhaps we should not growl at the way the hay business has gone this year. There is an immense crop and all can feed plenty and have some left for bedding, which was not the case when hay sold for over \$9 a ton right on the farm. In times of plenty, when feed is cheap, is when farm animals thrive and this year they can eat their fill of hay—provided we can get it

saved. For a number of years prairie hay has been quite profitable here. In 1911 as high as \$20 a ton was paid for it right on the farms. The year following was a year of plenty but even then hay made a fair profit, the average price being \$8 to \$9 a ton on the track. The next year occurred the famous drouth; it is true that 1913 did not make a heavy tonnage but this was made up in the price. Prairie hay saved the day for many that year; they sold their hay for \$13 to \$14 a ton and fed their stock on the fodder which had failed to produce grain. Last year hay



School Days Will Soon Be Here.

brought from \$9 to \$10 a ton on track. On the whole prairie grass is about the best friend we have.

Even the man with the large herd of cattle who has not raised enough fodder to feed them can supply his wants very cheaply. A neighbor who has a fine, smooth 80-acre field in prairie grass, which will make 1½ tons of pure bluestem hay to the acre, offers to sell the whole crop for just a little over \$1.50 an acre. We know that prairie hay is not the best roughage for cattle but it beats nothing by a long way.

Well, we have talked enough about hay to last for the next two weeks. But when everybody is thinking about the hay and sitting in the house waiting for the rain to stop what is one to write about but hay? But on this farm we have four strings to pull these wet days; if we cannot hay we can plow; if we cannot plow we can "unbuild" the old hog house and build a new one; if it rains so we cannot even



Frequent Repairs on the Roads Have Been Necessary to Keep Them Open For Hay Hauling, For the Rains Have Caused Many Washouts.

do that we can stay in the house and write these random notes. As soon as the rain stops we will attack the old hog house, which is in bad shape, and put up a new one which will at least have the merit of a tight roof.

A little nephew, 5 years old, who helps us to farm, stood looking at what the old sows had left of their house the first of this week and said, "When are you going to unbuild the old hog house?" That word "unbuild" is one of his own coinage produced last fall when the old dwelling was being torn down. We told him that just as soon as haying was over the unbuilding process would begin but when it began to threaten rain the other day a team was hitched up and lumber enough for a new hog house was brought out from Gridley. The new house will be made with a drop off in the roof to admit sun and air to the center of the house. Under the south roof will be five pens 6 by 7 feet, while the north roof will cover one big pen 8 by 30 feet. The old house was built with pens on both sides and an alley through the middle but we soon tore out the north pens; they are on the wrong side for little pigs in the cool, damp weather of early spring and that is the time when most little pigs make their appearance.

For the foundation of the new house we will set mulberry posts 2½ feet deep and let them come up above the ground about a foot. They will be sawed in on one side and to them will be nailed the scantling forming the frame. We do this because a post cannot be secured which is straight enough to form the sides. By using mulberry posts we hope to have something which will last for years. Osage posts would be as lasting but they do not work so well and we have none so large as we have of mulberry. The sides and ends of the house will be covered with boards with the cracks battened. Shiplap or drop siding is not heavy enough for a hog house. The roof will be first covered with boards taken from the old house and this in turn will be covered with heavy asphalt roofing surfaced with crushed gravel. This roofing costs us \$2 a hundred square feet laid down here. We have some of it on a hen house which has been in use almost two years and it has given good satisfaction.

We debated the roofing question a little before settling just what we would cover the new hog house with. We talked a little of galvanized roofing when we first thought of building last spring, but with the rise in price of that article we dropped all thoughts of it. It now costs \$5.50 a square where formerly \$3.75 was charged. It is also hard to nail this kind of roofing down close enough to keep snow from working under when the wind blows just right. That left the choice between shingles and the asphalt roofing, and we took the roofing. The shingles would cost \$4 a square and about \$1.25 a square to lay them with farm labor. The roofing will cost \$2 a square and will make as good a roof which will cost next to nothing to lay, and it is fire proof in addition. As to the lasting qualities of the roofing as compared with shingles will say that the roofing is guaranteed for 15 years by a reliable firm and the common run of shingles will not last much longer than that. The roofing will be put on with the laps cemented and nailed down and in addition there will be a batten every 4 feet. Any of the prepared roofings should be well battened in Kansas in addition to having the laps nailed and cemented down.

Much Damage From Lightning

One-fourth of all the fires in Kansas in July were caused by lightning, according to the reports received at the office of the state fire marshal. There were 197 fires during the month, and of these 49 were caused by lightning. The reported damage from these lightning fires amounts to \$65,723.

The July lightning loss was much heavier this year than last, owing to the greater number of rain storms. In July, 1914, the damage from lightning fires was only \$17,000.

Small amounts of borax frequently sprinkled on substances on which flies breed will kill their eggs and young.

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THE MAIL AND BREEZE, Topeka, Kan.

Beavers Grows Good Apples

Careful Pruning Is a Feature on This Farm

BY F. B. NICHOLS, Field Editor

G. F. BEAVERS is the owner of a 20-acre apple farm in Douglas county, Neb., where the conditions are very similar to those in Doniphan county, Kan. He is making profitable returns, for specialized production for a high class trade is the aim. All of the farm is in apples, much of it being in the more popular varieties like Jonathan and Delicious. The trade is entirely with the better class of grocery stores in Omaha, and the deliveries are made in a motor truck.

Mr. Beavers is a fine example of the new force which is entering the agriculture of the Middle West—he is a city man who returned to the farm and is making a success. He was in the grocery business in Omaha for 19 years, and while engaged in this line he saw the need and the opportunity for a high class apple farm for Omaha. He appreciated the fact that there is a class of trade in that city that is perfectly willing to pay good prices for apples if the fruit has the right quality. So he bought the farm eight years ago, and operated it for four years in connection with the grocery business. Four years ago this business was sold, and now most of his time is given to the farm.

Keeping Up Prices.

While Mr. Beavers still had his grocery business he sold all of his fruit to his regular customers, but of course all of this business was transferred to the man who bought the store. Since then, in selling the fruit to the stores every effort has been made to maintain the quality and to keep up the prices. A part of the Jonathans was sold last year, for example, for \$2 a bushel, although the Jonathan crop in Nebraska was fairly large—it was much better than it is this year.

There always is some fruit, such as the windfalls for example, that is too good to waste, but it is hardly what the higher class grocery stores care to handle. The stores that supply the laborers who work in the packing plants of South Omaha, however, are glad to take this fruit at a fair price, so it pays well to save it.

In dealing with all of the stores the rule on the ordinary sales is to make the collection at the time the fruit is delivered, so there practically is no loss from this source. Mr. Beavers was in the grocery business long enough to be impressed with the importance of selling for cash. Sometimes some variety is left without a collection if there is a question as to whether it can be moved for the high price demanded. For example, two years ago there was a big Maiden Blush apple crop around Omaha, and the city was over-run with peddlers who offered to sell ordinary apples from 40 cents a bushel up. The apples produced on the Beavers farm were especially high class, and \$1 a bushel was asked for them from the stores. The stores were afraid they could not sell the apples for 35 cents a peck, and they refused to buy. Mr. Beavers then left some of the apples without collecting for them with some of the leading stores. As they had no trouble in selling them at 35 cents a peck, Mr. Beavers easily kept the price up to \$1 a bushel.

Trees 15 Years Old.

Most of the trees on this farm are about 15 years old, although some are younger. No special care was given them until Mr. Beavers bought the place, and they were in bad shape at that time—the tops were filled with brush and the whole orchard had the general run-down appearance, so common in many orchards. A serious defect which it has been impossible to correct is that the limbs from which the heads were formed were placed too close together—no care was taken in forming the heads when the trees were young. As a result there has been some trouble from the limbs splitting off with the heavy crops of the last few years, and it has been necessary to tie up some of the limbs with bolts and wire.

Perhaps the most interesting thing about the trees is the extraordinary care that has been taken to produce an open center. Mr. Beavers has appreciated the important fact that the public in the leading cities is demanding well-colored

apples, and that it is impossible for this color to be produced unless the fruit has plenty of light and air. The only way these essentials can be obtained in abundance is to open up the center and give them a chance to enter. The open center must become the ideal of apple producers; if all of the growers could see the results that have been obtained on the Beavers farm with this method of treatment there would be a great increase in open center pruning.

How To Prune Trees.

The ideal has been to remove all of this extra wood which is so often allowed to fill up the center. Every tree is gone over every winter, and at least a little wood is removed. In addition the trees are summer pruned; all of the sprouts and other unnecessary growth is taken out. The care that is taken with the pruning makes the spraying job much easier—it is almost impossible to do a good job of spraying a brush top tree. The efficient spraying that is done on the Beavers orchard has much to do with the high quality of the fruit.

Three sprayings have been the rule—the cluster cup, blossoms fall, and June sprays. All of those applications consist of Rex commercial lime sulphur, and in addition arsenate of lead is added at the rate of 10 pounds to 250 gallons of water. The applications are made with a Cushman sprayer, which has a 4-horsepower engine. A pressure of 175 to 225 pounds is maintained, the higher pressure being the rule on the later sprayings. Two leads of hose are used.

As To the Spraying.

In doing the spraying, the rule is to go slowly, and to be sure that every tree gets plenty of the mixture. When Mr. Beavers gets into the orchard with his spraying machine he goes on the theory that he is there to control insects and diseases, and not to save spray mixtures. Every tree trunk gets a heavy application, and these trunks are scraped in the winter, to remove the dead bark, which offers a fine refuge for insects. After this is removed the spray material has a better chance to connect with the insects.

The profits have been good, for the yields have been high, and the crop has been moved for an average price of almost \$1 a bushel, including the windfalls and culls. This is a good price, especially when it is considered that the only selling expense is the haul to town—and much of this is over rock roads. There usually is no expense for containers. A trade with the high class grocery stores, such as Mr. Beavers has worked up, is proving to be a profitable move.

A New 'Hopper Disease

BY GEORGE A. DEAN
Kansas State Agricultural College.

For several weeks in many districts all over the state a great many grasshoppers have been dying of a fungous disease. This disease is nothing new, but like many of the fungous diseases its propagation depends upon favorable climatic conditions. The cloudy, rainy weather, which has prevailed for weeks, has been very favorable for the propagation of this disease. In fact, the conditions have been so favorable that in many places the grasshoppers are almost all dead. The diseased 'hoppers just before dying crawl up on the plants, usually crawling well to the top of the alfalfa, weeds and grasses. They turn dark and cling very close or tight to the plant. In a short time after dying they dry up, crumple and fall to pieces.

Many inquiries have come to the college as to whether alfalfa on which many of the diseased 'hoppers have died would be safe to feed stock. The writer believes there is no danger whatever in using this hay. In so far as we know it is not a poisonous fungus. The cutting, curing, raking and handling of the hay, which is necessary before it is placed in the barn or stack, will dislodge and break to pieces the dead 'hoppers to such an extent that very little of them will be left on or in the hay.

Cottage cheese is one of the best hot weather dishes for supper.

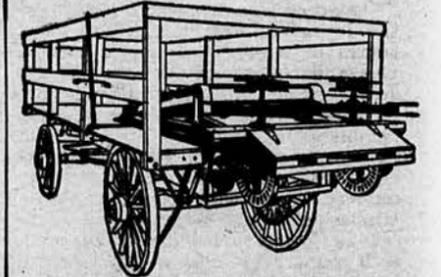
Don't Burn Your Straw!

Make \$2.50 a Ton From It Right On Your Own Farm.

You don't see many burning straw piles any more, because farmers have found that properly used the straw from a 40-acre field is worth \$100 in gold.

By spreading straw hundreds of farmers in the wheat belt have increased their wheat yield five bushels an acre. Besides this they have also stopped crop losses due to soil blowing. Farmers realize that the time is past when they can afford to go on year after year raising smaller crops—or to lose them by soil blowing.

Other methods may be all right but the quickest, cheapest and surest way to stop soil blowing is to spread straw—a straw spreader solves this problem. With a straw spreader you can easily cover 20 acres or more a day, and besides protecting your crop from the winds you increase the fertility of your land at the rate of \$2.50 for every ton of straw you spread and insure your crop a good supply of moisture whether the rainfall is up to standard next summer or not.



Professor W. M. Jardine, of the Kansas State Agricultural college, in a recent address, urged the farmers to return every ton of unused straw to the land. Wm. Knop reports that his straw spreader makes him \$500 a year easily; F. R. Cordry says he increased his wheat seven bushels an acre. Scores of others who have used straw spreaders for several seasons say they are big money makers and that they could not afford to be without them.

The Simplex Straw Spreader can be attached to any hay frame in a short while and the cost is a mere trifle compared to what it will make you in a single season. Besides being used for a straw spreader it can be used for spreading manure. Many farmers who own both use the straw spreader for spreading manure and let their manure spreader stand idle or sell it because they like the way the "Simplex" spreads manure the best.

The Manson Campbell Company, 886 Traders Building, Kansas City, Missouri, will send any farmer a brand new Simplex Straw Spreader, without the payment of even \$1 down, to be used on a 30-day free trial. If you are satisfied with the spreader you can have a whole year to pay for it. No farmer can make a mistake buying a straw spreader on this plan because it will pay for itself ten times over the first season.

A very interesting book on straw fertilizer and soil blowing has been issued by the Manson Campbell Company. It contains pictures and letters of scores of the best-known farmers who have used straw spreaders for several years. It will be sent free to anyone who writes for it.—Advertisement.

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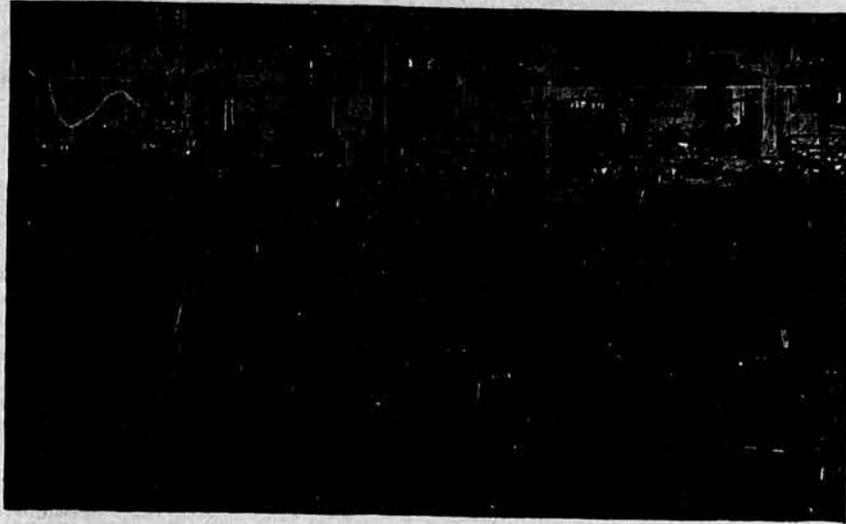
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American Machine Is Best

Farming Implements Manufactured in This Country Have Been Taking Prizes For 64 Years

EVERY early international exposition, in whatever country held, showed America to be supreme in the invention and manufacture of machines to make farming profitable and pleasant. This supremacy was foreshadowed in 1851 when Cyrus H. McCormick took his reaper to London and exhibited it at the first world's fair. For the first time in history the eyes of the world were directed to the young country then mostly on one side of the Mississippi River. The learned men who sat as judges upon the treasures that each country brought as examples of its inventive skill were solemnly impressed with the machine for harvesting grain and inaugurating the era of cheap and plentiful bread. McCormick was not only given the highest award of that great fair, but the judges in rendering their decision, said, "The McCormick reaper is the most valuable article contributed to this exposition, and for its originality and value, and for its perfect work in the field, it is awarded the Council Medal."

At Paris in 1900 came the greatest honor of all up to that time. The Legion of Honor was there conferred upon two American harvesting machine companies, a decoration given only under unusual circumstances and for the highest form of civil or military merit. The French government expressed a wish to retain one American exhibit in France, deeming it too valuable to be allowed to leave the country. The whole exhibit was thereupon presented to the government.

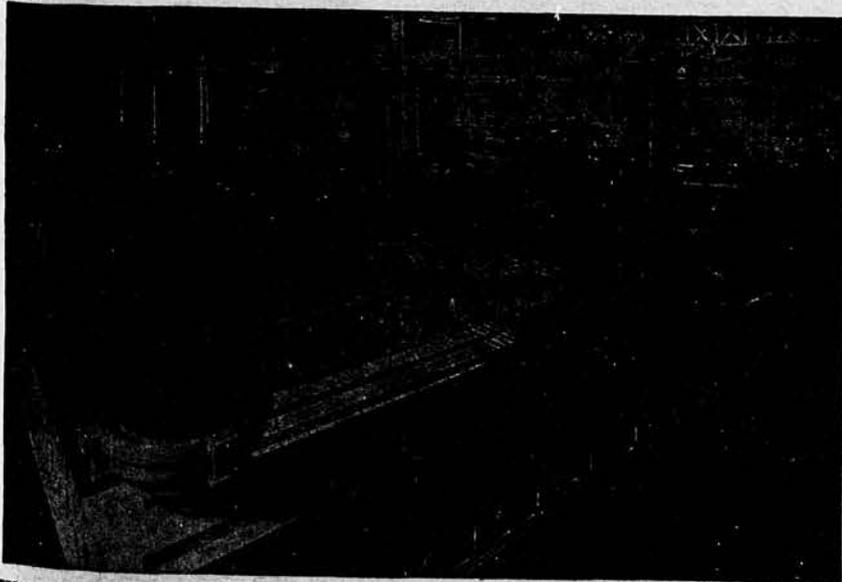
Now we find a new stage reached in the history of farming machines. By 1902, due to the policy followed by the successful American farming machine companies of letting the people of the various countries at their international expositions judge as to the comparative merits of agricultural machines, American farming tools were in demand abroad. The superiority of American methods of manufacture had become evident and a great field was waiting to be developed in foreign countries. The farmers in those lands were eager to avail themselves of the time and labor

saving machines which would enable them to produce more at a cheaper cost. At that time, the companies whose machines had come into demand abroad united their resources into an international company that they might be strong enough to develop this trade.

It remained for San Francisco in 1915 to place the greatest approval upon the policy of letting the people inspect fully and judge as to merit. At the Panama-Pacific exposition the International Harvester company placed the largest exhibit of farming machines in the palace of agriculture that ever was displayed before the people at any time in any country. More than 26,700 square feet were required to accommodate the 17 carloads of machines shipped from the regular stock at the various factories in the United States for the people's inspection. The chief of agriculture declared, "It is the most complete, comprehensive, interesting exhibit of agricultural implements and machines that ever has been made."

Every effort was made to place the machines clearly and unqualifiedly before the public. All machines were placed in motion and devices were installed to avoid all noise and confusion. In all the exhibit scarcely a belt or shaft may be seen, and although engines and tractors of every description are in motion, not an exhaust may be heard. To disclose to the people the secrets of the working mechanism of the various machines, many of the metal sides are replaced by glass. As far as is possible the field conditions of operation are observed for the various machines.

This policy of exhibiting before the people, followed on a larger scale at San Francisco than ever before, received the greatest official approval ever given to any display of farming machines. The International Harvester Company's exhibit was awarded 36 highest prizes by the International Jury of Awards. The same haying and harvesting machines which have been honored in practically every civilized country of the globe again received highest honors.



Views of the Exhibit of Farming Machines of the International Harvester Company at the Panama-Pacific Exposition.

DODGE BROTHERS MOTOR CAR

The first impression you get of the car is that its finish is unusually brilliant and lustrous.

More than twenty thousand of them were distributed in six months, and we might almost say that every sale has resulted from that first favorable impression.

On the strength of its attractive appearance you ride in the car for a few moments—recognize that its performance is unusual—argue to yourself that this must be due to quality—and then begin to inquire into that quality.

The moment you begin that investigation, a long list of advantages that make for value begin to reveal themselves.

Your attention is attracted to the unit power plant, to the full floating rear axle, the self lubricating chrome vanadium steel springs, the Timken bearings thruout.

You begin to understand, then, the liveliness with which the car gets under way; the steadiness with which it holds the road at high speed; the extent to which you are able to travel on high without shifting gears; why it throttles down to a walk without developing jerks or knocks.

You find to your satisfaction, that the upholstery is full real leather.

You discover that it is filled with natural curled hair.

You observe that the tufting is full and deep and luxurious.

You pass on to the measurements, and discover that both the front seats and the tonneau are generously wide and give you leg room in plenty.

By this time it is clear to you why a production of more than 20,000 cars—as large in six months as is usually attained in as many years—has not been sufficient to supply the demand.

You appreciate why thousands have waited—because it is the quality revealed in the performance of the car which makes the price impressive.

We have never made any extravagant claims for the car.

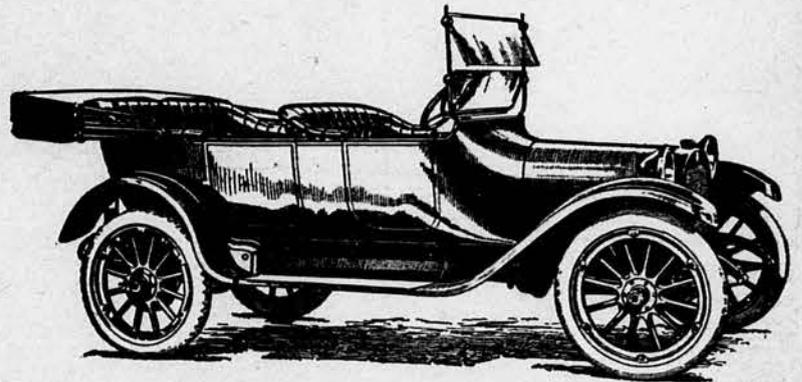
We would very much prefer to have you figure out its goodness and its value for yourself.

You will do so if you take a ride in it.

We are supremely confident of the outcome of that ride.

Go to your Dodge Brothers dealer and make your own discoveries.

The motor is 30-35 horsepower.
The price of the Touring Car or Roadster, complete,
is \$785 f. o. b. Detroit



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FORKNER SPRING TOOTH TILLERS

Needed on Every Farm You can cultivate your fields better condition—greatly increase the yield of alfalfa, grain, corn, fruit and other crops and make bigger profits by using Forkner Spring Tooth Tillers in place of the disk or drag harrow. These wonderful, light draft tillers with their flexible spring teeth stir the soil to great depth, kill the weeds, thoroughly mulch the surface soil and leave the ground in perfect shape to conserve moisture, promote plant growth and prevent washing or blowing of the soil. Forkner Tillers not only save time, labor and money but they increase your profits by promoting the growth of crops.

Especially Adapted For Alfalfa and Summer Fallow Work

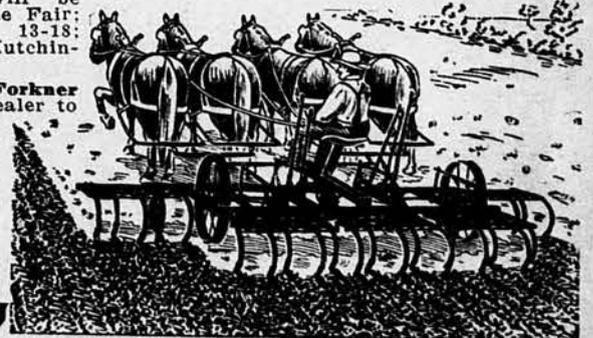
Built in all sizes for one to six horses—4 ft. to 15 ft. cut—any desired size for tractor—the right size for every farm. Special styles for alfalfa and summer fallowing. You can't afford to farm with old style tools when you can buy Forkner Tillers for about the same price.

WRITE FOR CATALOG: SEE OUR EXHIBITS

Forkner Tillers will be shown at Kansas State Fair: Topeka, Kan., Sept. 13-18; Kansas State Fair, Hutchinson, Kan., Sept. 20-25.

Be sure to see the Forkner Exhibits. Ask your dealer to show you a Forkner Tiller. Write us for catalog showing full line.

LIGHT DRAFT HARROW CO.
Dept. 407,
Marshalltown, Ia.



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E. E. GARD, Principal. L. E. GIFFORD, Manager.

Crochet That's Easily Made

A Design That Offers Possibilities For an Attractive Centerpiece

BY MRS. HELEN A. PENDLETON

IN MAKING the lace here illustrated these stitches are used: Chain (ch), single crochet (s), have loop on hook, insert hook in work, put thread over and draw through work, thread over, and draw through both loops on hook; double crochet (d), having loop on hook, thread over, insert hook in work, thread over and draw through work, over and draw through two loops, over, and draw through two remaining loops; stitch (st), picot (p).

Begin by making a chain of 8 stitches. Put 2 d in 4th stitch from hook, ch 1, 2 d in same st, (making a shell), ch 1, 1 s in 2nd ch from shell, ch 1, 2 d in last of 8 ch, ch 1, 2 d in same ch st, (making shell), ch 3, turn.

Shell in shell, ch 3, shell in shell, 1 d in top of 8 ch, ch 2, turn. Shell in shell, ch 1, 1 s over 3 ch, ch 1, shell in shell, ch 3, turn.

Repeat, making 7 rows of shells. Ch 12, fasten with a s in 7th ch from hook, making a ring. Ch 6, fasten to 3 ch between 3rd and 4th shells, ch 3, 11 d over 6 ch, fasten with s in 2nd ch of ring, ch 5, 1 d between 4th and 5th d just made, ch 2, 1 d between 2nd and 3rd d, ch 2, 1 d on 3 ch, ch 5, turn.

1 d in next to last d made, ch 2, 1 d in next d, 11 d over 5 ch, fasten in next ch on ring.

Ch 5, 1 d between 4th and 5th d of previous row. Continue as previously described. Repeat until 7 ribs of the fan are made, and still leave one ch on ring. Make 9 d on remaining 12 ch.

Then make shell in shell as at the beginning until 4 rows of shells are made, then ch 2, s in 1st of 11 d, ch 1, make

the older babies, from the toddlers up to 4 years of age, a playground will be provided, in charge of volunteers from the Parent-Teachers associations, woman's clubs and playground associations.

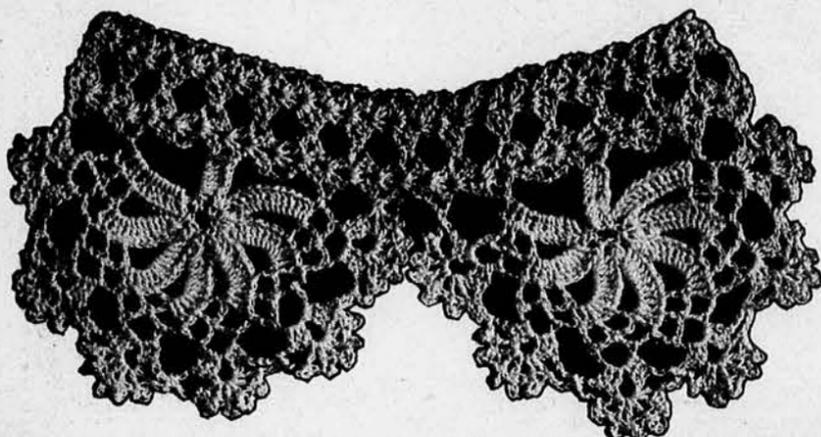
Under this plan babies can be checked, just like wraps and dinner baskets. To prevent any mix-up each baby will be tagged with a number, and the fond parent will be given a duplicate number. Following this plan both the babies and the parents will be better off and get more good from the fairs. The baby will be kept cool and amused. The parents will have time and opportunity to take in the fair without looking after the children.

Attention, Kansas People!

How many readers of the Farmers Mail and Breeze know the counties of Kansas? Here is a chance to get acquainted with them. In the following list is a descriptive key to the names of 49 counties. How many are there in Kansas? The first one mentioned is Butler.

For the best list of 49 counties sent to the Farmers Mail and Breeze before September 25 a prize of \$1 cash will be given. Second prize will be a book, "Byways Around San Francisco Bay," by W. E. Hutchinson, beautifully illustrated. Third prize, a set of narcissus silver teaspoons. Send letters to the County Editor, Farmers Mail and Breeze, Topeka, Kan. The list follows:

- (1) An English man-servant. (2) A southern rose. (3) A beverage. (4) A



The Fan Looks Difficult, But It Is One of the Parts Most Easily Made. The Lace Is Effective, and the Work Rapid.

2 rows of shells, ch 3, 3 d over 5 ch, ch 3, 3 d over same 5 ch, ch 5, 3 d in next 5 ch, ch 3, 3 d in same 5 ch. Repeat, making 6 in all, ch 2, fasten to 3 ch on first row of shells, ch 2, turn.

1 d in 3 ch, ch 3, fasten in top of d, making a picot; 1 d, 1 p. Repeat until there are 6 d's and 5 p's on the same 3 ch. Ch 3, 1 s over 5 ch, ch 3, 1 d in 3 ch, 1 p on d. Repeat around scallop, 1 s over 3 ch, ch 1, shell in shell. Repeat from the beginning.

The lace illustrated was made of silk-ateen, but the same design is very pretty made either of finer or coarser thread. This lace was made as edging for a linen centerpiece; by changing the stitches in the top it can be made with a straight edge. To do this make a treble instead of a double, and chain 3 instead of 2. The linen for center should be stitched on the machine two or three times, close to the edge. Then single crochet around the linen, covering the stitches, and sew the lace onto that.

When Baby Goes to the Fair

Baby is to be well taken care of at the Kansas State Fair at Hutchinson this fall and at the big fair at Topeka, while the parents wander around and see the sights. The new state division of child hygiene is going to see to it.

"Check the babies; that is the idea," says Dr. Lydia A. DeVilbiss, head of the department.

The real babies, less than a year old, will be kept on cots, in charge of trained nurses. The toddlers who have just learned to walk will be cared for in the way their baby souls love best. For

- (5) "Old Hickory." (6) A kind of flour. (7) King of beasts. (8) Author of the Waverly novels. (9) A precious stone. (10) The Hoosier poet. (11) A kind of soil. (12) The best known automobile. (13) A kind of large deer. (14) "Poor Richard." (15) An ancient musician. (16) Founder and editor of the New York Tribune. (17) A summer lecture course. (18) Salty.

While the women of Kansas were paying \$1.40 a bushel for "cooking" peaches, thousands of bushels of fine Elberta peaches were going to rot in Oklahoma because farmers could find no sale for them at 15 cents a bushel, just a few miles away. These cheap peaches would have been a boon to millions of consumers—consumers who seldom or never have many peaches because they cost too much and because we have a market system which utterly fails to hitch up demand to supply. Yet we think we are a pretty smart sort of people.

- (19) The divorce city of Nevada. (20) "First in war, first in peace." (21) A short country road. (22) Place of first Kansas capital. (23) Grain used by the Japanese. (24) A town officer. (25) Birds resembling the crows. (26) A commonwealth. (27) The doubting disciple. (28) The largest family. (29) Founder of the Democrat party. (30) A marsh plant used in making chair seats. (31) The Civil War president. (32) Two colors. (33) Another name for

- a hunt. (34) A meadow. (35) Debated against Lincoln. (36) A tribe of roaming Indians. (37) Capital of Wyoming. (38) "Unconditional Surrender." (39) A forest in summer. (40) A kind of chicken. (41) Made a famous march to the sea. (42) The president who was impeached. (43) Made a famous ride during the Civil War. (44) Manager of Santa Fe eating house system. (45) A boy's Christian name. (46) Secretary of state under Lincoln. (47) A collection of visible vapor in the atmosphere. (48) Most popular national hero of Scotland. (49) A tribe of the Algonquin Indians.

Danger to Country Children

Undoubtedly the city child, especially the one who lives in the congested centers, is handicapped. But the country child in many places lives under conditions which are not favorable to the development of body, mind, or morals, says Professor M. V. O'Shea of the University of Wisconsin in the Mother's Magazine for September. The country schoolhouse is often a very unhygienic place; the city schoolhouse is apt to be more healthful for growing children, even under all the disadvantages of restricted space, unceasing noise, and the pollution of the atmosphere by smoke. Again, the city child usually is protected from extremes of weather, while the country child is often exposed to wind and storm when he cannot resist these effectively.

And why? Because people in the country often pay little regard to the health of children. Child life is rather cheap in many rural sections. Parents who work hard often are indifferent to their own bodily condition, and so are apt to become indifferent to the physical needs of their children. A certain amount of disregard for rough, trying experiences is desirable undoubtedly because this develops hardihood and tends to make the child more or less callous to experiences which really ought to be ignored.

It is a good thing for a growing child to have a considerable amount of exposure so as to develop resistance to the ills that overcome one who is too much protected; nevertheless, many children in the country are injured by neglect, and individual organs and the body as a whole become stunted because too heavy drafts are made upon the vital forces in early years. If the energy of the body must go mainly to hard work or protection against exposure, then it means that there will not be enough left to build and renew and safeguard the body properly, and disease will probably result.

Where to Write About Exhibits

Who is president of the needlework department at the Kansas State Fair at Topeka? I shall be much obliged if you will tell me whom to write to in regard to needlework.—Mrs. A. G. K., Allen, Kan.

Mrs. J. F. McCormick, 1600 Topeka Avenue, Topeka, Kan., is in charge of the needlework department. Address all inquiries to her, with postage inclosed for a reply.

HOME DRESSMAKING

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

Ladies' waist 7318 is cut in sizes 34 to 44 inches bust measure.

Skirt 6969 comes in sizes 22 to 32 inches waist measure. It may be made with high or regulation waistline.



Girls' dress 6877 is cut in sizes 6 to 12 years.

Ladies' house dress 7337 is cut in sizes 34 to 46 inches bust measure. Girls' dress 6935 is cut in sizes 6 to 14 years.

USE THIS COUPON FOR PATTERN ORDERS.

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

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

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

Name

Postoffice

State

R. F. D. or St. No.....

BE SURE TO GIVE NUMBER AND SIZE.

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The test of home-baking is lightness, even texture and digestibility. You cannot be sure of these results unless you use a perfect leavener. Experience teaches that Rumford Baking Powder raises bread, biscuit, rolls, gems, muffins and cake—evenly, thoroughly, lightly—and brings out the delicate flavor of your fresh ingredients. Rumford is always uniform in strength, always gives the best results—because so economical and dependable.



Let us convince you—send for a trial can.

Rumford Chemical Works Dept. 10 Providence, R. I. I enclose 4c. in stamps for sample can.

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DOES NOT CONTAIN ALUM

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What Grandfather Found

Johnnie Spent Happy Hours Watching the Humming Bird's Nest

BY JULIA RAMSEY DAVIS

"JOHNNIE, come here," grandfather called in a low tone.

Johnnie stepped quietly to his side, for he knew by the sound of grandfather's voice that there was need for caution. He looked in the direction that grandfather's finger pointed, but saw nothing on the limb of the old Crepe-myrtle bush except a knot that was covered with lichens. "What is it? I don't see anything," said the little boy in a whisper.



South America and in the West Indies.

It was formerly supposed that humming birds fed only upon the nectar of flowers, but it is now known that they also eat insects. They have weak feet and are much on the wing. Some are sober in color, but the majority have a brilliant plumage which shows metallic reflection, changing according to the angle in which it is seen.

"I always liked to watch the humming birds flit among the flowers, but they will be more attractive now, because I know so many interesting things about them," Johnnie said to grandfather when they were watching the young humming birds trying to fly.

"Few persons realize, until they begin to watch and study birds, how interesting bird life is," grandfather replied.

"Or what wonderful helpers they are in ridding our gardens of the insects that destroy what we plant," Johnnie added.

"I am glad you are learning to appreciate our little feathered friends," and grandfather smiled lovingly when he saw the earnest look on his little grandson's face.

"I have found a humming bird's nest," grandfather answered. "Come, and look from this side and you will see it on that limb."

"Oh, how wonderful!" Johnnie exclaimed aloud when he saw the small, beautifully made nest, so cunningly constructed to simulate a knot, on the overhanging limb. And sitting inside was the tiny, ruby-throated humming bird herself. Mrs. Humming Bird turned her inquiring eyes and needle-like bill in their direction, when she heard Johnnie's exclamation, and seeing the intruders upon her privacy, darted from her nest.

"I am sorry I frightened her, but oh, grandfather, look at those dear, little eggs!" Johnnie cried.

"She will soon return, for I believe she is beginning to sit," grandfather explained. "I've been looking for this nest for some time, but a humming bird's nest is so artfully arranged that it is almost impossible to discover it. This is the second one I ever saw, and I believe they have often nested in this garden."

Johnnie was spending the summer on grandfather's farm. It was not a large place, and the small, white house with its green shutters was not pretentious, but to Johnnie, it was the most wonderful place in all the world. The garden was what made this farm so different from any in the whole country-side. It comprised several acres and in it grew many beautiful trees, and the finest fruits, flowers and vegetables.

Many varieties of birds made their homes in this garden, and all during the spring and summer held veritable concerts as they darted hither and thither among the trees and flowers. But they did more than sing, they worked and helped make the garden a success by catching the insects that would have spoiled grandfather's fruit and vegetables.

Feeding the Bird Babies.

Johnnie and grandfather had watched the rearing of many bird families, but this was the first opportunity they had had to find out the manner in which Mr. and Mrs. Humming Bird brought up their young ones.

"We must not disturb little Mrs. Humming Bird again," said grandfather, "or she might forsake her nest."

So when they wanted to watch her they looked through the field glass, and she did not know it.

When the little birds appeared they were so tiny that they scarcely looked like birds at all. They grew rapidly, for the parent birds gave them every care, and fed them very often. But the way the food was given was a constant surprise and wonder to Johnnie. The old birds fed the nestlings through the bill, food being injected through it, as through a syringe, into the mouth of the young bird.

Johnnie became so interested in these small feathered friends, that he read all he could find about them, and learned much that was instructive. He learned that although there are about 500 kinds of humming birds, there is only one variety found in the United States, east of the Mississippi River. This is the ruby-throated humming bird. Fifteen other species live west of the Mississippi, but the greatest variety live in Central and

Who Has Earned Money?

Isn't it queer how fast vacation time goes? It seems only the other day that you boys and girls put away your books and tablets and pencil boxes for a good long rest and now some of you are getting them out again to take to school on Monday. What did you do with that vacation time to make it slip away so fast? Did you play all the time, or did you study a little so you'd be ready for the Fourth or Fifth Reader class this fall, or did you spend part of your days helping mother or father? Maybe some of you earned some money too—real, sure enough dollars that you can put in the bank, or spend for Christmas presents this winter.

Wouldn't it be fun to know how all the boys and girls who read this page spent the summer and see how many did the same things you did? Don't you wonder who earned the most money and how he did it? Maybe some of them could give you ideas about how to earn more for yourself next year. Suppose you write a letter to the children's page and tell us all about it. We'll give a gun metal watch to the boy or girl who writes the most interesting letter before September 25 and packages of post cards for the next five. Address your letters to the Children's Page of the Farmers Mail and Breeze, Topeka, Kan. Write soon now. Don't forget.

Polly Parrot Liked Cake

My Mexican Redhead parrot is named Polly. We got her when she was 6 months old and she is now 5 years old. Polly does not talk much when strangers are near, but she talks when she is alone or with us. She does not like dogs but she will call them to her and when they get near her she will yell for mama. One night when we were all asleep Polly heard a rat in the house and got scared. She flew from her perch as fast as she could go, crying, "Mama, mama!" Polly likes to sit on the back of mama's chair and take all the hairpins and combs out of her hair. Then she says, "Poor Polly." In the summer Polly sits out in a tree, and in the winter she sits on her perch in the house. She has never bitten anyone yet, but she has often fooled us. My baby brother can carry her around on his hand. One day she ate all the top off our cake. She is the only parrot I ever saw that did not have to stay in a cage. Frances B. Hynes, age 12 years. Minerva, Ohio.

The Very Best in Value Quality and Style

Choose your fall clothes from the new "Standard" Fall Bulletin,—it has just been printed and this latest, up-to-the-minute display shows only dependable, guaranteed garments of beautiful, entirely new materials. Cut out and mail us today coupon (below), for your FREE copies of the "Standard" Bargain Bulletins. The Fall Bulletin, just issued, will be sent you at once and every two months you will receive a new bulletin with the season's latest offerings and best money-saving bargains.



Tussah Silk Waists \$1.00



Tussah Silk is a dainty, stylish silk in the latest, prettiest weaves. A fine cotton warp gives this popular material its splendid, wear-resisting qualities. Launderers beautifully and has the appearance and dressiness of an All Silk fabric.

(Note the following numbers.)
20W100—Beautiful Tussah Silk waist. The fullness is smartly gathered beneath hemstitched yoke-folds and the closing is effected with contrasting buttons and self cord loops. Hemstitched front and cuffs and becoming, large Robespierre collar. In white, flesh or sand-tan. (Sizes 32 to 46 bust.) Special bargain price, postpaid in the U.S. \$1.00

40W100—Dressy, smartly bloused waist of soft, lustrous Tussah Silk in black, navy or white. Daintily embroidered white organdie vest and "roll" collar, prettily set-off by button-trimmed self revers; self buttons finish front closing. (Sizes 32 to 46 bust.) Special bargain price, postpaid in the U.S. \$1.00

OW100—A particularly becoming waist, tastefully made of dressy, effectively brocaded Tussah Silk in navy, copenhagen, white or black. Closes beneath the button-trimmed "V-shape" vest and a dressy trimming is provided in the dainty white shadow lace chemisette. Liberally bloused. (Sizes 32 to 46 bust.) Special bargain price, postpaid in the U.S. \$1.00



Girl's 2-piece Cotton Serge Sailor Suit IHR99 99c
IHR99—Stylish 2-piece sailor suit of serviceable navy blue Cotton Serge. Full bodice prettily trimmed with red tie, red soutache and red buttons. Wide, pleated (separate) skirt sewed on a body lining; with embroidered emblem and soutache bandings. (Ages 7 to 15 years.) Special bargain price, postpaid in the U.S. 99c

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The Standard "Perfek-Fit" is an entirely new device that assures absolute petticoat comfort. Made with elastic at waist in back to gather fullness. Adjusts itself instantly to the exact size required and is easily and securely fastened with flat, unbreakable clasp and riveted eyelets. Following very handsome models made with fashionable width, and priced remarkably low. Enjoy the comfort of these ideal "Perfek-Fit" petticoats:—

Sizes: All lengths are 38 to 42 inches. Regular sizes come up to 46 inch hip measure. Stout sizes come up to 56-inch hip measure.

X2100—Genuine black "Heatherbloom" Perfek-Fit petticoat. With tucked double ruffled circular flounce. Regular sizes, postpaid in the U.S. \$1.00

X2129—Same as X2100 in stout sizes \$1.29

X2198—Silk Messaline "Perfek-Fit" petticoat in black, green or navy. Ruffled, tucked circular flounce. Regular sizes postpaid in the U.S. \$1.98

X2239—Same as X2198 in stout sizes \$2.39

X2248—Superb Silk Taffeta petticoat in black or Copenhagen; also changeable blue and green or cerise and green. Ruffled, tucked circular flounce. Regular sizes, postpaid in the U.S. \$2.48

X2300—Same as X2248 in stout sizes \$3.00

X2139—Dressy "Perfek-Fit" petticoat of splendid, washable Tussah Silk in black, green, Copenhagen or navy. Deep pleated flounce with stylish ruffle, charmingly employed. Regular sizes, postpaid in the U.S. \$1.39

X2169—Same as X2139 in stout \$1.69 sizes

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Model 34 New Jackson Model "34"—112 inch wheelbase; 32 x 4" tires—fully equipped, including one-man top, electric lighting and starting system and Stewart Vacuum Fuel System. Motor 3 1/2 5" **\$985**

A Revelation in Flexibility

Astonishingly Free from Vibration

The new Jackson models for 1916 offer greater values than you have ever before known—even in Jackson cars. They are selling fast. Buyers appreciate Jackson quality plus the new features.

Model "34", our New "Four" at \$985 is a truly sensational car.

It is notable for its extreme flexibility and its wonderful freedom from vibration. It speeds up to 55 miles within a few city blocks.

At 55 miles an hour the motor is vibrationless.

And this is a four-cylinder car. But it is a new type of four.

New in America but proven in Europe where for two years past it has been used in highest priced European models.

Its motor is of the small bore, long stroke, high duty balanced type.

It has light pistons, light, strong connecting rods, extra heavy crankshaft. It

is built for hard work; it has pulling power that takes you through sand, and up hills with an ease simply unbelievable until you have experienced it.

Before you buy any car get a ride in the Jackson "34."

You will find it has the strength, comfort, power and durability for which Jacksons have always been noted.

You will be surprised at the beautiful new body lines, the richness of upholstery and finish.

And you will be delighted with the wonderful Jackson "34" motor.

Arrange with the Jackson dealer at once for a ride in model "34."

New Light Weight Eight \$1195

Another New Jackson that we are extremely proud to announce. An "Eight," light in weight but staunchly built. Roomy five-passenger body—112 inch wheelbase. Motor 2 7/8 x 4 3/4 in. bore and stroke. It is a beauty. A quality car throughout. The Jackson idea has always been to give "sound" value—fourteen years' success proves we "deliver the goods." Model "348," \$1195 complete.

New Seven-passenger Eight \$1685

Model "68" is a strong, substantially built, family touring car. Power and to spare. Eight cylinders 3 1/2 x 4 1/2 in. bore and stroke. 124 inch wheel base. Beautiful big roomy body. Wonderfully complete equipment. We urge comparison with any "eight" at any price. You save at least two hundred dollars if you buy Jackson "68."

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Designed and built for long, hard, steady service. Latest improved features. Economical, reliable, smooth running, heavy weight, big bore, long stroke, low speed. Start easy, run all day long without stopping or overheating on bigger loads than they are rated for. Illustration shows perfect design, big water pot, Hercules cylinder head, perfect system of lubrication, sure shot igniter, economical carburetor, heavy, massive fly wheels, double ball governor. Our heavy duty engines are made in three sizes—8, 12 and 16 H. P. 8 H. P., \$187.50; 12 H. P., \$225.00; 16 H. P., \$342.50. Special free catalog tells all about these Big Power Giants—Get it today.

Just the Engine For

Stone Crushers, Small Flour Mills, Feed Mills, Big Shellers, Shredders, Irrigation Thrashers, Heavy Pumping, Silo Fillers, Cotton Gins, Grain Elevators, Saw Mills, and all other Heavy Machinery. Big catalog FREE. BOX 45, WATERLOO, IOWA

4 TO 16 H. P.

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ELBURN PIANOS and PLAYER PIANOS

17 Cents a Day Buys an Elburn

The papers are full of advertisements promising the most wonderful things and the country is full of trashed pianos which looked good when new, but in a few weeks or months they sound like a cheap picture show tin pan music. These cheap pianos are made only to sell—they are like an old plug horse that is doctored up to look like a colt.

The most important thing in buying a piano is to buy of the oldest and most reliable house you know, and from them get names of people in your own community who have bought instruments. We can give thousands upon thousands of ELBURN owners' names. We will refer to customers who live near you and some of them you will likely know. Just write us and say—please mail prices, particulars and terms on the ELBURN.

Very Easy Terms

Fullest Guarantee. Everything this is Square, Honest, Right and Truth. The country is full of NEW houses, who promise anything to make a sale. There is no larger house, no stronger house in the U. S. than ours. Ask your banker about us.

J. W. JENKINS Sons' Music Co. KANSAS CITY MO.

More Percherons to Kansas

Butler County Registered 54 Purebreds Last Year, and Harvey County Came Next With 34 Recorded Colts

KANSAS is the fourth state in the value of its horses, and it also is fourth in producing Percherons. The 10 leading counties, with the number of American bred Percherons recorded last year and the number of square miles in the county to the Percheron recorded, are:

County.	Number.	Bred by	Sq. Miles.
Harvey	34	11 Breeders	15.8
Butler	54	11 Breeders	26.5
Johnson	17	6 Breeders	28.5
Shawnee	17	8 Breeders	32.0
Mitchell	22	17 Breeders	32.4
Franklin	16	6 Breeders	36.5
Waubunsee	17	3 Breeders	46.7
Osage	15	4 Breeders	47.5
Sedgwick	18	11 Breeders	62.1
Cowley	18	12 Breeders	63.0

These 10 counties vary in size from 540 to 1,434 square miles. This accounts for the fact that Butler county falls to second place when area is considered. Although it is nearly three times as large as Harvey county, it recorded only a little more than twice as many colts. A fraction over 40 per cent of the total number of colts recorded from Kansas came from these 10 counties. Practically every county in the eastern half

of the state recorded some Percherons during the year, but there were a few counties in the west central and southwestern parts of the state that are not represented in this year's work. That a fairly uniform number of registrations were made from each county represented is a noticeable feature.

The majority of the animals recorded were foaled in 1913, although the figures include some produced in 1912 and 1914.

The most extraordinary conditions that have ever confronted Kansas Percheron breeders prevail. Importations have been wholly stopped since August, 1914. Export trade in horses has grown to numbers and values never before realized. Prices on horses have suffered less than on any other class of livestock. The general depression in business which has prevailed since the war began has not been sufficient to prevent an increased demand for Percherons, with rising prices on the best.

About 9,000 American bred Percherons are now annually produced and recorded. The registration of purebred draft horses of the other draft breeds—Clydesdale, Shire, Belgian, French Draft and Suffolk—amounts to approximately

EXPORTS 1914 AND 1915.

Month.	Number.	Value.
August	804	\$ 96,706
September	7,146	999,267
October	12,091	1,918,433
November	28,071	5,034,353
December	30,687	7,390,845
January	34,643	7,779,395
February	36,960	9,253,787
March	33,694	8,088,974
Total	184,096	\$40,561,760

The office is seeking the man in Kansas. It was desirable that the state tax commission of Kansas should have on it a public man of breadth and depth and sound judgment and experience, to represent Kansas' two most important industries—agriculture and stock raising. Governor Capper found such a man in Hays B. White, a successful stockman and farmer and public-spirited citizen and legislator of north central Kansas. Mr. White's first intimation that he was being considered was the governor's letter tendering the appointment. Since then, that part of Kansas has risen to emphasize its approval of the choice and to confirm the opinion of Mr. White's fitness. It is a good sign when the people of a district enthuse over a public appointment.

The sales, both public and private, in the last four months show a great improvement in the discrimination of buyers. Animals of approved conformation and soundness have been much sought after, and higher prices have been paid for such animals than a year ago. Percherons of faulty conformation, lacking in size, or unsound, have not been in demand, and very low prices have been paid—less than similar animals brought last year. Good Percherons are from \$75 to \$100 higher. Such keen discrimination is a favorable sign, and promises more rapid improvement than has occurred heretofore.

The keener judgment manifested by purchasers carries a warning to breeders. If profits are to be expected from future operations, good, sound sires must be used, and the colts must be liberally nourished from birth till matured or sold. Grain should be given from the time the colts are a month old, and should not be discontinued until the animals are at least three years old. The superior development of the French colts, as compared with most of those reared in this country, is directly traceable to the fact that the French feed their colts grain while they are on pasture, even where the grasses are unusually abundant and nourishing. Half a pound of grain a day for each 100 pounds weight of colt is none too much for weanlings, yearlings or 2-year-olds, even when on good pasture. Stunted colts never recover their normal conformation, and excuses are of small avail with buyers.

By co-operating with his neighbor the farmer can learn new methods of culture and the interchange of ideas will benefit both.

While a yellow-skinned fowl is no better than a white-skinned one for the table, the former usually sells the quickest and best.

Co-operation between practical farmers and proficient business men will eliminate ignorance and prejudice.



The Number of Percherons in Kansas Is Increasing Rapidly, for There Is a Very Evident Interest in Better Horses.

400 Try For Better Methods Hidden Factors of Service

Lee H. Gould Has Been Very Successful With His Contests—36 Boys and Girls Will Go To Manhattan

ALMOST 400 boys and girls—395 to be exact—are entered in the contests in southwestern Kansas, in charge of Lee H. Gould of Dodge City. As a reward for this work 36 of the winners will get trips to Manhattan just after Christmas to attend the farmers' institute at the Kansas State Agricultural college. These trips will be paid for by the bankers and other business men of that section. They will be divided evenly between the boys and girls. The girls who make the trip to Manhattan will be in charge of Miss Eulalia Nevens of Dodge City, county superintendent of Ford county.

The most interest in this work has been aroused in Ford county, which has 181 boys and girls enrolled. Edwards county has 125 young farmers in the contest. The other counties have smaller delegations.

Sorghums Are Featured.

In Ford county and east of there the contests for the boys are based on kafir and feterita, and for the girls on bread making and sewing. West of Ford county the boys grow milo, and the work of the girls is limited to bread making. All of this work has been planned with the practical end in view, to teach the principles of efficient production.

An acre of the crop is grown, so it will be a real field test. The boys are judged on a basis of 30 per cent for yield, 30 per cent for profits, 20 per cent for an exhibit of 10 heads and 20

the best success in after life. Contests are especially important in connection with this training, for they tend to impress the importance of the better methods on the minds of those who enter, and they bring out a healthful desire to win.

"In addition to satisfaction which comes in producing the best yields of a crop for one's section—which in itself is a considerable reward—the prizes are well worth while. This delegation of 36 boys and girls which this district will send to Manhattan will get an inspiration for better methods of farming and home making that will do much to increase efficiency in the future years."

The remarkable success which Mr. Gould has obtained with the boys' and girls' club work in his section has come quite largely because he has a deep personal interest in the problems of the young people, and he has entered into the work in the proper spirit. To make the best success of work of this kind the leader must enter it with a great belief in boys and girls, and a proper appreciation of the viewpoint of the younger generation. This Mr. Gould has to a very considerable extent.

Sudan Grass at Protection

Sudan grass has done very well here this year. I am enclosing a picture of the first cutting on this farm, in July. The second crop is doing very well, and I think that it will produce a larger yield than the first cutting. This crop



A Sudan Grass Field at Protection; This Is the First Cutting, and It Is Expected That the Second Crop Will Be Even Larger.

per cent for the records which have been kept and for the story which is required telling of the season's work. In determining the profits the boy's time is charged for at the rate of 10 cents an hour, and 20 cents an hour for a team. Every hour which is used on the land must be charged, with a detailed report as to when and how the work was done.

It has been found that this system works very well. Some very good yields have been produced. The high yield last year was 36 bushels and 49 pounds of Black Hulled White kafir, grown by George Hink of Dodge City.

For Better Crops.

The interest in these contests has been worked up by Mr. Gould mostly by school house campaigns. His plan is to arrange a day with the teacher when he can address the pupils, and to meet and personally enroll every boy and girl who desires to enter. This gives him a chance to explain the purpose of the contest, the rules, and the methods which should be used to get the best results. Every effort is made after this to encourage the boys and girls to put forth their best efforts. This is done quite largely by circular letters, for this is an easy way to reach them. In addition, a great many of the farms on which these boys live are visited personally by Mr. Gould, so he will have an opportunity to see how the crops are growing.

"I believe that work of this kind with the boys and girls of this district has a very definite value," said Mr. Gould a few days ago. "The most important thing before the farmers of this section is to make sure that the coming generation receives the proper training which is essential in enabling them to make

makes very good feed, and I believe there will be a great increase in the acreage here in the next few years.

W. E. Baldrige.

Protection, Kan.

When Filling the Silo

To farmers who are filling silos this year for the first time, the Iowa agricultural experiment station offers these suggestions:

The corn should be cut when the kernels are dented, or when about a fourth of the husks and lower leaves are turning brown. It should be as near maturity as possible and yet contain enough moisture to insure fermentation.

Either a half inch or three-quarter inch cut is best because that length insures less waste and a larger pack of corn in the silo.

Slow filling makes it possible to pack the corn more thoroughly and get in a larger tonnage. With rapid filling the cost is less, but to fill to capacity the silage should be allowed to settle and then refill.

Corn should be uniformly packed in the silo and with good distribution of stalks and ears. If the sides are kept about 2 feet higher than the center, the silage wedges against the sides, keeps in the heat of fermentation and kills molds.

Water needs to be added when filling if the corn in the silo is not moist. Water must always be added when the corn is very ripe, when the corn is severely frozen before it is properly matured, or when filling late in the fall with shocked corn.

Keep the sides of the silo air tight by filling cracks with soft clay, if the silo is wooden, or with cement if of masonry.



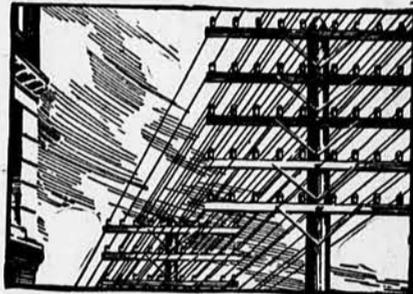
Records kept like this are practically useless for the management of a business. Efficiency is impossible and funds for improvement cannot be obtained.



Records, statistics and accounts kept like this are available for a complete knowledge of the cost and efficiency of each department of the business.



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Bright Lights Cost Money

Specialization Is Needed For Success In the City

BY ONE WHO FAILED

I AM an average city worker, and the realization is becoming more and more acute that I have failed. I am 31 years old, and I came to this city, which is one of the larger cities in the Middle West, nine years ago. I was born on a little farm in Kansas not far from Ottawa. My parents still live there on the old farm. And as I sit here in my back hall bedroom four stories up I can see but little hope for a brighter life in the future; unless I go back to the farm it is going to be one round of underpaid, ordinary work for the rest of my life.

My work is not so disagreeable as some of the lower paid city work, such as working on the streets or in some of the factories. I am a clerk in a grocery store, and I get \$60 a month. That may look fairly large to the man who is getting but \$25 a month and board on a farm, but it doesn't give me a chance to save anything; at least I have not saved enough to amount to anything. I have about \$250 to show for my nine years' work in the city; of course I started to work for lower wages, I got \$40 a month at first.

Special Training Needed.

A great deal of the lack of success I have had probably is due to the fact that I have not had any special training. I was brought up against this fact with a jolt the other day when I met an old boyhood friend by the name of Tom—Turkey-egg we used to call him in the early days because of his freckles—whom I had not seen for many years. He went to college and got some training along a line in which he was especially interested, and he has been making quite a record in recent years. He now is getting \$75 a week; just think of it, he makes \$15 more in a week than I make in a month! And yet he is young; he lacks two years of being as old as I am.

I believe that I have as near a correct viewpoint of this going to the city business for young men from the farm as one can get. I did not have any great love for the farm when I lived there; if I had it is probable I should have stayed. And then, too, I believe as a result of my experiences in the city that one can have a good time here—but he cannot have it on \$60 a month or on any ordinary wages. That was a fact which had not entered my mind when I came down here nine years ago, but I have had plenty of opportunity to find it out since.

City Life Disappointing.

This city life absolutely is not a place for a man who does not have some special training, for he practically cannot make a success. Of course anything can occur, but the rule is that the large success is made in the city only by the men who have money or special training to aid them. Very few country boys can bring enough money to the city to aid them much in the fight for success there, and therefore they must depend mostly on special training. If I had understood this well in those early days, I might be getting \$75 a week like my friend Tom, and believe me that would help me materially in making city life brighter. It would be goodbye to the hall bedroom then.

The way city life is organized a few specialists can take care of the specialized work in the community, but the men to do this specialized work are absolutely essential, and that means that the employers can well afford to pay more for this kind of help than they can for the ordinary workers who can be picked up any day. Specialization is the key to success in any line of city work.

If I had this going to the city business to do again, I should think a good long time before I made up my mind to go in the first place. It really does seem queer that one should leave the country where there is such little competition to go to the city where it is just a knock down and drag out for every inch in the upward climb you make. But there are some queerly constituted persons—and I was one of them—who will not stay with the farm

under any condition; these persons are just going to the city and that ends it. When this is the case the thing to do is to arrange affairs so one will have a good chance to make a success.

Some Advantages.

And even with the failure I have made of city life, I should not try to discourage all persons from coming. There are some fine things about it, and the bright lights of the great white way are apt to be very attractive to almost every man at least some time in his life. But the average man like myself cannot make the money it takes to make the wheels go 'round on the great pleasure way, and when you have to view these fine things from afar life mostly becomes one long tragedy. That is the case with a very large proportion of the city workers.

So the young man who has decided to go to the city should stay in school just as long as he can. If a man can get college training in some special line that is in demand, he has a fair chance of making enough money in time to live on well. If you can do something the common hands cannot do your value takes a sudden jump.

But it seems to me that if a young man has the time and ambition to become a specialist he has a much better chance of making a fine record and good financial returns in agriculture than he has in city work. The reason for this is very simple. There is not a great deal of competition in agriculture today, for the opportunities are constantly becoming greater and the supply of men is not increasing especially fast. In this city game, however, even the specialists have a fight on their hands all the time, for there generally are more trained men than are needed for the higher class city positions.

If I had stayed with the country I might now be owning a farm. As it is, I get \$60 a month for measuring out potatoes and selling breakfast food. And in the nine years I have been here I have saved an average of \$2.31 a month.

Use Care in Storing Vegetables

Don't place apples, potatoes and root crops in the same pit for winter storage. Better still, use the cave for storing fruits and vegetables, says D. E. Lewis, assistant in horticulture in the Kansas Agricultural college. A large percentage of the caves on farms are suitable for storing fruit if a ventilating system is installed. The best ventilating system consists of three openings made of tile in the roof and covered with A-shaped boards to keep the rain out. To perfect this manner of ventilation, there should be openings in the floor which connect with a tile running to the outer air.

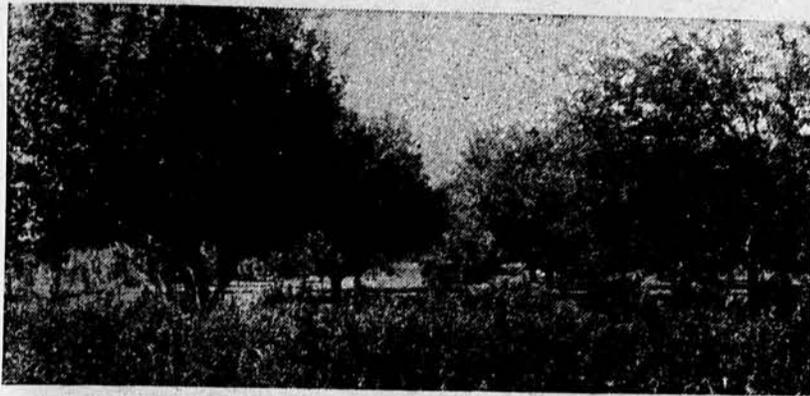
Maintaining a constant temperature of about 33 degrees Fahrenheit will give the best results in such a cave. The cave should be located upon ground which is well drained and a northeast front is preferred, although an east front is better than a west or south front.

Apples, root crops, and potatoes should never be stored in the same pit. If the pit type of storage is used, the location should be carefully selected where the pit will have good drainage. In preparing the pit, it is best to dig from 4 to 18 inches into the ground, as this will give a more even temperature than if the vegetables are placed on the top of the ground. The rick style of pit is best adapted for storing large quantities. A trench should be dug around the pit which will carry off surface water.

Never put spoiled or wormy products in the pit. The fruit or vegetables should be covered with enough straw or grass to form 2 inches of insulation after the soil is in place. If the pit is filled early in the year, it is best to use slough grass or cane fodder to shed water. Part of this should be removed when the earth is put on. Enough dirt should be used to prevent freezing. A 2-inch pipe should run from the outside to the bottom of the pit, to serve as a ventilator. It is better to have this pipe in place when the fruit is placed in the pit than after the fruit has been stored for some time.

Montgomery Must Use Care

A Soil Survey Shows That Better Crop Rotations Which Feature the Legumes Are Needed



Apple Trees With Alfalfa in the Foreground—Not Between the Trees—Both Crops Need More Attention in Montgomery County.

THE United States Department of Agriculture soon will publish the results of the soil survey of Montgomery county, Kansas, recently made by the Bureau of Soils. The report, which consists of 36 printed pages and several cuts and maps, gives in brief the history of the agriculture of the county, makes a number of suggestions for the improvement of the yields, and reports in detail on the 21 soils found in the county. In addition, the report contains a large colored map giving the location of the different soils with reference to roads, water courses, railroads and schoolhouses. The area surveyed contains 644 square miles, or 412,160 acres. Of the soils found, Oswego silt loam with 100,032 acres leads in area, Bates loam is second with 49,664 acres, and Bates very fine sandy loam is third with 46,000 acres.

Use Limestone.

Many, if not most, of the soils, especially the upland types, according to the specialists, are somewhat sour. A cheap corrective is finely ground limestone. Lime tends to improve the tilth as well as to sweeten the soil.

On the Crawford loam the investigators found that contrary to the general impression, some of the limestone soils, especially the deeper and less well drained phases, are acid. Before alfalfa is planted they should be tested, and limed if such an unfavorable condition exists.

Commercial fertilizers are very little used, and only in exceptional cases is stable manure carefully saved. Whether it would pay to use commercial fertilizers is a problem that will have to be worked out by experiments, but there is no doubt as to the need for manure. Green manure can be supplied by plowing under leguminous crops, such as cowpeas, which also supply nitrogen to the soil. Much straw is burned which, if plowed under, would greatly benefit the soils.

So far as observed there is very little attempt at systematic crop rotation. Wheat and corn are grown for several years, and then the land is put into pasture for a year or so. As a general rule a rotation should include some leguminous crop like cowpeas or alfalfa. A rotation that has worked well on the Verdigris series is as follows: Wheat, one or two years; cowpeas, corn, oats. The crop rotation for Osage series is yet to be worked out, but cowpeas or some other leguminous crop should be included. The same principle applies to the Oswego silt loam. The following rotation has been successful on the Bates series: Kafir, cowpeas, corn, oats. The same rotation, with the addition of a year or two of wheat, works well on the Crawford and Summit series.

Drainage Will Help.

Drainage, especially under-drainage, is a problem on some of the soils, especially of the Osage and Oswego series, and of the Verdigris flood plain. The most important drainage project so far undertaken in the county is the construction of a canal in the Advance school district in Louisburg township. It drains a large area of Oswego silt loam. The canal is being built by the

farmers, and the expense is to be met by a flat tax on the district. Interest is aroused in the problem of drainage, and in all probability other canals will be built.

Dairying undoubtedly offers the largest inducements, all things considered, of any line of agriculture in the county, since there is an excellent steady home market for dairy products. An emergency crop of rye, oats, or barley should be grown for use in dry seasons when pasturage is scanty. The problem of water for stock also must be met. Alfalfa hay and corn silage afford excellent forage for the winter. The keeping of more livestock is also desirable from the soil improvement point of view, as practically all soils need the application of barnyard manure.

Cowpeas is grown in small areas over most of the county, but this important crop is not generally appreciated. The crop is hardy, will thrive where clover will not grow, and makes excellent hay. Like all legumes, cowpeas adds nitrogen to the soil, and, when properly managed, leaves the soil in better condition than before. It is an excellent crop for green manuring, and can be grown for this purpose after the crop of wheat or oats is harvested. Good yields of cowpeas have been obtained when sown in cornfields at the last cultivation.

Potatoes Have a Place.

Irish potatoes, both early and late crops, is a crop of which the possibilities have been overlooked. According to the 1910 census, 699 acres in 1909 produced 48,055 bushels of potatoes, an average of nearly 70 bushels an acre. The crop does especially well on the well-drained sandy lands. As a rule, not enough potatoes are grown in the county to supply the home market. This should be a profitable money crop on the Bates loam and the Bates very fine sandy loam, and probably also on the Verdigris soils. It might well take the place of wheat on these soils. Sweet potatoes do well on the warm, well-drained soils and have a ready market.

Montgomery county produces comparatively little orchard fruit, and the farmers seem discouraged and indifferent as to the outlook. Many small orchards have been set out on the Oswego silt loam and on soils of the Osage series—heavy soils with stiff, heavy subsoil. Most of the orchards on these soils are in poor condition; the root system is shallow and the roots spread out above the subsoil and are easily injured during dry periods. The Bates series is especially adapted to fruits where the soil is not too shallow, and there are some fine orchards of apples, peaches, and pears, as well as some vineyards, on these soils. The Summit clay, colluvial phase, the Summit loam, gravelly phase, and the Oswego loam, colluvial phase, are good fruit soils.

A farmer in Wyoming, co-operating with county agents, last year raised grain successfully at an elevation of 7,300 feet.

In Farmers' Bulletin 660, "Weeds and How to Control Them," there are 50 noxious weeds given. Bermuda grass is listed.



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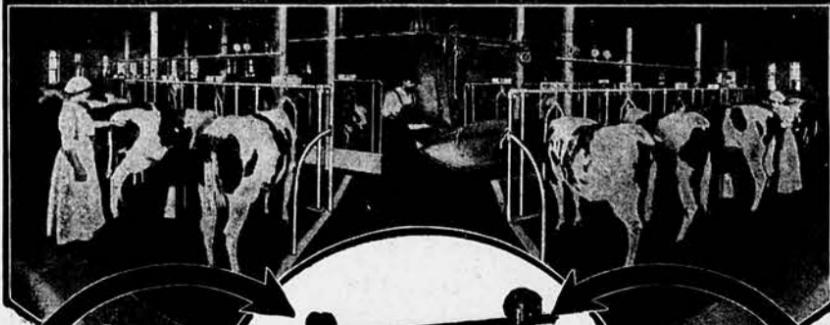
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Louden Roller Bearing Litter Carriers cut barn cleaning time in two. No dangerous and troublesome ratchets or brakes. A light pull on the hand chain hoists the heaviest load of litter in the box; nothing to slip; the load or empty box will stand at any height; box can be dumped with shovel—no need to soil the hands; track wheels are roller bearing; carrier runs easily and steadily on track. Track and carrier strong enough to carry a ton safely.

Louden Steel Stalls and Stanchions are simple, neat, and sanitary in construction, and give the cow true "Pasture-Comfort." High Built-Up Curb (can be used only with Louden stanchions) prevents waste of feed. This 11-inch curb is several inches higher than it is possible to use with flat bottom stanchions.

Louden Stanchions are fastened at top and bottom with single slack chain that gives the cow great freedom and comfort; permits the cow to rise and lie down as easily and naturally as she does in the pasture. No cracks or crevices to catch and hold dirt. Nothing about our "812" stall to get out of order; no "go-right" devices needed.

Write for our **Free Louden Barn Plans Book—112 pages on barn construction and for Free Catalogs on Louden Dairy Barn Equipment and Louden Feed and Litter Carriers.**
LOUDEN MACHINERY CO. (Est. 1867) 511 Briggs Ave., FAIRFIELD, IOWA

Your Farm Loan Is Costing You Too Much, Mr. Farmer—

You Can Save at Least Half the Interest You Are Now Paying By Becoming a Member of

The Kansas Rural Credit Association

An association of Kansas farmers organized for mutual benefit expressly to reduce the existing rates on farm loans. This association is chartered by the State of Kansas, has passed every requirement of the "Blue Sky" law and is as safe, sound and conservative as a Federal Reserve Bank.

You Must Be a Member to Obtain a Loan—No Outsiders Participate

Inasmuch as this organization is a money-saving institution for its members rather than a money-making concern for a few capitalists or loan companies, no one not a member is entitled to its benefits. You get your money without delay or unnecessary "red tape," on long terms and at the lowest interest rates. A fraction of your yearly income from the farm pays the interest and the principal.

Investigate This—It's Money in Your Pocket

Find out about this proposition—investigate its plan and the responsibility of the organization thoroughly. You'll be soundly convinced that it will save you money. Fill out and mail the coupon now—it does not obligate you in any way, and if you need a loan it means that you can save half the interest you would have to pay to any bank or loan company.

MAIL THE COUPON TODAY

**The Kansas Rural Credit Association
Dept. F, Emporia, Kansas**

**The Kan. Rural Credit Association
Dept. F, Emporia, Kansas**

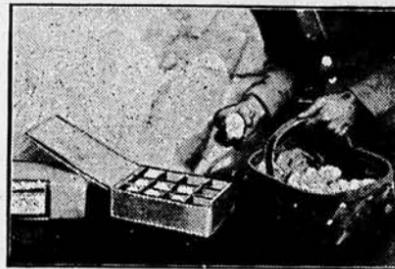
Without obligating me in any way please send me your sixteen-page booklet which explains in detail the plan of The Kansas Rural Credit Association and tells how I can become a member and enjoy the benefits of this co-operative organization of Kansas farmers.

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

Parcel Post as Middleman

That Selling by Mail Is a Success Is Proved by Readers of the Farmers Mail and Breeze

ACCORDING to postal regulations the farmer can ship a 50-pound tub of butter or a 50-pound carton of eggs, or a 50-pound sack of potatoes or apples, or 50 pounds of anything else, by parcel post. It remains for the farmer and the farmer's wife to get the habit and add to their profits.



Eggs For High Class Trade.

The farm man or woman who expects to use the parcel post to build up a permanent business must become a specialist. If it is butter that is to be sold it must be prize-winning butter, the kind that for purity, cleanliness and excellence will create a demand for itself. If it is eggs, the farmer must be prepared to sell only fresh, clean eggs. Customers once disappointed in quality, or in the arrival of their goods, will look elsewhere for their supplies.

But the possibilities of the parcel post need not be limited to butter, eggs or poultry. There are customers who want fresh homemade bread, canned goods and jellies, cakes, doughnuts, cottage cheese. A want ad in the town paper will bring the first customers, and one satisfied customer will bring others.

Rules For Parcel Post

The parcel post service offers convenient, quick, and efficient means of transporting mailable parcels to any post-office in the United States. So why not take advantage of it to bring producers and consumers into closer contact, thus saving the middleman's profit and reducing the high cost of living? All the packages I have sent have gone through all right with the exception of one. That was a box of pears, which should have been packed in a stronger box for a trip of 300 miles. The rules governing parcel post may be a help to some one:

Parcel post mail may be enclosed in boxes to which the lids are nailed or screwed, provided the lids can be readily removed with a chisel or screw driver for examination of contents. All packages must be prepared for mailing in such a manner that the contents can be examined easily, and must bear the name and address of sender, preceded by the word "from."

For a payment of 10 cents extra a parcel post package may be insured against loss to a value not to exceed \$50.

Perishable articles such as butter, meat, lard, dressed fowls, vegetables, fruits, berries, which decay quickly, should be marked "Perishable."

When the weather is warm articles likely to spoil within the time required for transportation and delivery will not be accepted for mailing.

Eggs are accepted for local delivery when so packed in a basket or other container as to prevent damage to other mail.

Eggs are accepted for mailing, regardless of distance, when each egg is separately wrapped and surrounded with excelsior, cotton, or other suitable material and packed in a strong container made of double-faced corrugated pasteboard, metal, wood, or other suitable material and wrapped so that nothing can escape from the package. All such parcels must be labeled "Eggs."

Packages of eggs weighing more than 20 pounds will be accepted for mailing in the first and second zone when packed in strong crates, boxes, or other containers having tight bottoms to prevent the escape of anything from the package; such package to be marked, "Eggs, This Side Up," and to be transported outside the mail bags.

Raw hides or pelts or any article having a bad odor cannot be admitted to the mail. Liquor of any kind, poison of any kind, pistols, revolvers, gasoline, kerosene, benzine, matches, anything of an explosive nature will not be admitted to the mail.

Rural carriers must deliver on Christ-

mas day, but are given six national holidays. These are: New Year's, Washington's Birthday, Memorial day, Fourth of July, Labor day, and Thanksgiving. The law does not require the carrier to take pennies out of the mail box, but our good natured carriers usually do. Mrs. Hannah McGinnis, Uniontown, Kan.

Egg Boxes For Less Money

It was an accident rather than any foresight that started us to a considerable use of parcel post. We had agreed to deliver 50 eggs. When we found it impossible to do so the purchaser suggested that we send the eggs by mail. At that time we were preparing an advertisement of eggs for sale, the advertisement to be inserted in two or three papers, and we added five words: "Can deliver by parcel post."

We knew that special containers were needed. A search through the papers showed that we could get such for 17 to 30 cents when bought in small quantities. This seemed a good deal like forced profit sharing. So we secured a supply of cardboard and corrugated pasteboard, glue and twine, and using the containers ordered as patterns, proceeded to cut out some more. The country school teacher suggested that such work would be good manual exercise for some of the larger pupils. Their use of our material was the beginning of considerable box making. They learned to make some that would hold exactly a pound cube of butter. Our egg boxes when made cost less than 5 cents apiece.

Probably more country people would ship by mail if they had the proper packages or paper and other materials on hand when they desired to send something.

Acting upon this egg experience we ordered several sheets of the corrugated cardboard, some good tough wrapping paper of light weight, some waxed paper, and some strong, light-weight twine. We now feel that we can wrap any mailable object securely and neatly, from a dressed chicken to a box of berries.

There probably are many who have used the mail with greater profits, but we doubt if many have had more satisfaction from the use of the parcel post. We have been glad to return some of our town friends' favors by sending fresh-cut asparagus and other vegetables, dressed chickens, and other farm "goodies." Most of these shipments have been possible because we secured the necessary materials with which to make the parcel post containers.

Country Woman.
Williamstown, Kan.

Carrier Used a Second Time

For 28 cents I bought a corrugated cardboard carrier of a size to contain 25 eggs. In this I mail the eggs direct to my customer in Kansas City at 35 cents a dozen. The parcel post charge is about 8 cents. This carrier is returned to me for 5 cents, and may be used repeatedly. With cold storage eggs at 40 and 45 cents and sometimes three-fourths of them unfit for use the parcel post is a great boon both to producer and consumer. In filling my last order only one egg was cracked when they were received.

Madison, Kan.
Edna Thomas.

On the Buying Side

I have sent meats, chicken, butter, and other articles by parcel post, and think it the quickest, cheapest, and best way of sending produce or drygoods, or anything else. I have sent lard by parcel post in the winter a distance of 100 miles and the expense was slight. I have sent sausage and butter a dis-

(Continued on Page 19.)

The Latest Dairy Champion

Finderne Pride Johanna Rue Produces 1,176 Pounds of Butterfat

BY J. M. FULLER

DO SUCH records as these hold any encouragement to the owner of cows that produce only 150 pounds of butterfat in a year? Or, rather, do they tend to discouragement? Some may hold that they do but I believe they offer encouragement. These world's records show what can be done through careful selection, breeding and management. The Holsteins, for example, have behind them 2,000 years of effort to raise cows that will produce a large amount of milk. Cows of other breeds such as the Jersey and Guernsey, have breed histories that extend back for generations.

Buy Purebred Animals.

The man who buys a purebred animal of one of these breeds is buying the results of all the efforts towards improvement. If a purebred bull is bought, then through the bull the average of the herd can be raised. It will take time and patience and skill but results can be had. Very few men can breed cows that will give 1,000 pounds of butterfat in a year. The fact that such a thing has been done is proof that improvement is easily possible with cows that give but 150 pounds of butterfat in a year.

In 1907 Colantha's 4th Johanna, a Holstein cow, made a yearly record of 997 pounds butterfat and 27,432 pounds milk. This was, indeed, a wonderful record both for milk and butterfat. Men were not wanting to prophesy that this marked the limit in milk and butterfat production. In 1911, however, Banostine Belle De Kol, another Holstein, raised the butterfat record to 1,018 pounds. She did not equal the milk record made by the champion of 1907.

In 1914 the honors in butterfat production passed to May Rilma, a Guernsey. Her record was 1,172 pounds. Early in 1915 Murne Cowan, another Guernsey, raised the record to 1,098 pounds of butterfat. Very soon a Holstein, Finderne Holigen Fayne, gave the world's butterfat record to the Holstein breed by producing 1,116 pounds of butterfat. And now comes the latest champion with 1,176 pounds to her credit.

Other Good Records.

The world's record for milk production is held by a California cow, Tilly Alcartra. Her record for the year is 30,452 pounds.

What is the limit of the modern dairy cow? A Holstein cow in New Jersey recently finished a year's test with a record that may well cause dairymen to ask such a question. Finderne Pride Johanna Rue is the name of the cow. Her production of butterfat for the year was 1,176 pounds. She gave 28,403 pounds of 4.14 per cent milk during the year.

The record made by this latest world's champion can better be understood when it is compared with the milk and butterfat production of the average Oklahoma cow. A liberal estimate gives her a yearly record of 4,000 pounds of milk and 150 pounds of butterfat. The comparison stands as 1,176 pounds against 150 pounds of butterfat production and 28,403 against 4,000 for milk production.

Beginning 358 days from freshening, Finderne Pride in seven days produced 28.8 pounds of butterfat from 602 pounds of milk. To put it another way, after being milked a year she was producing an average of 10 gallons of milk a day.

Rules for Salting Butter

BY WILLIAM L. CLEVENGER.

After the wash water has been drained from the butter, salt should be added. A flaky, soluble salt should be used. The amount depends upon the method of applying and the taste desired in the finished butter, usually from 3/4 ounces to 1 1/2 ounces to the pound being used. Some apply salt dry and work it in at intervals with a ladle, allowing time for it to dissolve. This method requires less salt than partial brine salting. A good method is to sprinkle the salt evenly over the butter while it is still in small granules, then to pour water over the salted butter at the rate of a pound of water to every pound of salt used, and, in the case of a barrel churn, to revolve ten revolutions or to mass in a lump with the ladle. The butter is then removed to the butter bowl, or may be worked in the churn; if a large quantity is made, it should be worked with a butter worker. The salt is then worked through the butter and, at the same time, excessive water or buttermilk is worked out. Sometimes the butter color is mixed with the salt and added to the butter. Much less color will be needed but it is rather difficult to get it uniformly distributed in this manner. Great care should be exercised not to make the butter appear greasy and salty by too much lading, especially at a high temperature. When the butter is soft, it should be put into a cool place to firm before printing and packing. Churning should be done in a clean, cool place. Much of the country butter made is streaky or wavy. Some appears like marbled meat, which is due largely to the buttermilk curd left in the butter, unequal distribution of the salt, and making and handling of the butter at high temperatures.

Breeding For Big Records

BY C. M. WINSLOW.

Henderson's Dairy Gem 35175, bred by Hill Top Farm, Wheeling W. Va., owned by Henderson's Dairy Farm, Hudson, O., has completed her year's test for advanced registry with the official record as a senior 2-year-old of 17,974 pounds of milk, 738.32 pounds of fat, 4.11 per cent fat, making her the senior Ayrshire 2-year-old champion of the world.

This record is an interesting study in breeding for a purpose. Whether it was done by accident or design I cannot say, but it illustrates what we have always

claimed, that when Ayrshires that have proved themselves producers are coupled we may expect phenomenal records. The sire of this heifer is Rena's Champion, a young bull with two advanced registry daughters already to his credit, his sire is Finlayston with 39 advanced registry daughters to his credit.

The dam of Rena's Champion is Rena Ross with an official record of 15,072 pounds of milk, 462.86 pounds of fat, 4.26 per cent fat.

The dam of Henderson's Dairy Gem is Dairy Gem, with a 3-year-old record of 14,425 pounds of milk, 533.55 pounds of fat, 3.7 per cent fat. She was sired by Howie's Dairy King, with 20 daughters to his credit, out of Drummond's Gem, with an official record of 10,841 pounds of milk, 388.60 pounds of fat, 3.58 per cent fat.

Cows Respond to Proper Care

The milk cow is one of the best money makers on the farm and should have proper care and food. In summer cows should have plenty of green grass, good pure water, and shade. They should be put out in the meadows early in the morning so they can eat while it is cool and the flies will not bother them. Water should be in the pasture where they can get it when they wish it. In taking them to and from the pasture they should not be made to run, and a dog should not be chased after them as it excites them and decreases the milk production.

The cows should be kept in warm sheds in winter, and the sheds should be kept clean. Their rations in winter should be something that will give them warmth and produce plenty of rich milk. They should have a mixture of feeds such as clover hay, alfalfa hay, wheat bran and other grains. They should be fed at regular hours. The milk man should have clean hands when milking and never get the milk on his hands. The milking should be done at regular hours. It should be done rapidly and the cows should always be milked as dry as possible. The milk vessels should be of some kind of metal and should be kept free from rust. A dust must not be raised in the barn just before milking. Do not scold or beat the cows when you milk or feed them.

La Cygne, Kan. Dillon Hensley.

The first essential for the highest yield is good seed.

Failure to get suitable varieties is a frequent cause of poor ensilage.

GRAND PRIZE PANAMA-PACIFIC EXPOSITION

Awarded to

DE LAVAL CREAM SEPARATORS

as the Highest Award has been at every International Exposition since the invention of the Centrifugal Cream Separator in 1878.

And likewise as at all previous expositions, all higher dairy product awards at San Francisco have been made to users of the De Laval machines.

THE DE LAVAL SEPARATOR CO.

165 Broadway, New York 29 E. Madison St., Chicago
50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Only \$2 DOWN and One Year To Pay

For any Size—Direct from Factory

You can now get one of these splendid money-making, labor-saving machines on a plan whereby it will earn its own cost and more before you pay. You won't feel the cost at all.

\$24 BUYS THE NEW BUTTERFLY

30 DAYS' FREE TRIAL GUARANTEED

No. 2 Junior—a light running, easy cleaning, close skimming, durable, lifetime guaranteed separator. Skims 96 quarts per hour. We also make four other sizes up to our big 600 lb. capacity machine shown here—all sold at similar low prices and on our liberal terms of only \$2 down and a year to pay.

Patented One-Piece Aluminum Skimming Device. Rust Proof and Easily Cleaned—Low Down-Tank—Oil Bathed Ball Bearings—Easy Turning—Sanitary Frame—Open Milk and Cream Spouts.

You can have 30 days FREE trial and see for yourself how easily one of these splendid machines will earn its own cost and more before you pay. Try it alongside of any separator you wish. Keep it if pleased. If not you can return it at our expense and we will refund your \$2 deposit and pay the freight charges both ways. You won't be out one penny. You take no risk. Postal brings Free Catalog Folder and direct from factory offer. Buy from the manufacturers and save half. Write TODAY.

Albaugh-Dover Co., 2183 Marshall Blvd., Chicago, Ill.

No. 5 1/2 Over 20,000 now in use



Silo-Filling Power

Silo filling requires steady and certain power, fast work all day long. Ripening crops do not wait—they must be quickly and effectively handled in their proper time. The lower the power-cost in handling, the cheaper is the cost of ensilage. You can get fast work at the lowest cost from any of the 8 sizes of

FUEL-SAVING WITTE ENGINES LESS THAN \$17.50 PER HORSE POWER
Gasoline, Naphtha, Kerosene and Distillate

Sizes 2, 3, 4, 6, 8, 12, 16 and 22 H-P. Styles, either Stationary, or Portable on steel trucks. All improved and up-to-date in every respect. Start easy—no cranking; require less fuel per H-P. delivered. Five-year guarantee on every engine. Easy terms of payment, if you don't care to pay all cash. Prompt shipment from Kansas City factory or Pittsburgh warehouse. Get our latest prices with our new catalog. Our specifications show bigger engine value than ever.

Free Engine Book Send your address today. Don't put off learning all you will need your new engine and cutter. about our new offer, before
Ed. H. Witte, Witte Engine Works,
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Special advantages in Music, Art, Expression, Piano Tuning and College Course leading to A. B. degree. Only one tuition for College, Academy, Domestic Science and combined Business courses. Board, \$2.75 per week. Famous Messiah concerts every Easter. For catalog, write Prest., Ernst C. Pihlblad, Lindsborg, Kan



The Little Devil or 8 Horses—Which?

Compare the cost of eight horses with the cost of a Little Devil oil tractor—\$850—and don't forget that the Little Devil eats only while working and feeds on common kerosene.

It enables you to plow at the proper time—and the time of plowing has greater effect on crops than any other factor over which a farmer has control—think that over.

Think of one man plowing fifty acres in four days—doesn't that open big farming possibilities for you? And he did it with common kerosene, too. Here is the story, read it yourself.

Elizabeth, Colo., Aug. 11th, 1915
Hart-Parr Co., Charles City, Ia.

Gentlemen:—In answer to your letter, I pulled a Moline plow, three bottom, fourteen inch and plowed from 2 to six inches deep in ground that had been plowed once about eight years ago, which was practically back to sod. I plowed fifty acres of such land in four days and am very much pleased with the work. I feel satisfied that the engine will continue doing as good, for it is in fine shape. Yours truly, J. H. CLARK

Mr. Clark is one of many who is pleased with the Little Devil.

This same Little Devil will harvest, run a 29-inch thresher, fill a silo and do all kinds of belt work, up to 22 H.P.

The Little Devil does such good work because it has a valveless motor—powerful and simple. The whole tractor has but seven gears, all made of steel. Ask us to describe this motor—you'll be interested—it's a wonder.

And we want you to know about our drive wheel, a skeleton type wheel built up with "Hold Fast" lugs, which do not pack the ground. They grip the ground like a horse's hoof.

We haven't the space here to tell you all about it, but if you'll send us your name and address we'll give you the whole story.

HART-PARR CO.
366 Lawler St., Charles City, Ia.
The largest builders of oil tractors exclusively in the world.

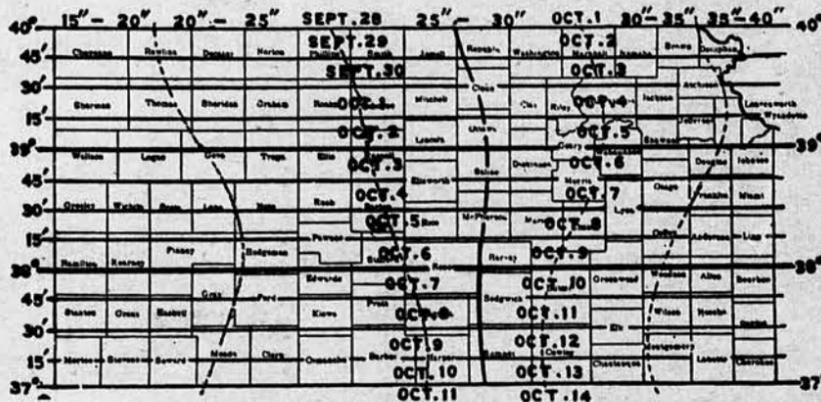


1c IS WORTH DOLLARS

When you invest that 1c in a postal card to us. Here are a few of the good things in it for YOU.
1 1/2 H.P. \$24.75 | 5 H.P. \$37.50
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3 H.P. 33.90 | 10 H.P. 135.50
4 H.P. 69.90 | 12 H.P. 179.90
WE GUARANTEE AGAINST REPAIRS FOREVER.
OTTAWA MFG. CO., 2012 King St., Ottawa, Kans.

Guard Against the Fly

Great care is required if the damage from Hessian fly is to be prevented next year. This loss can be reduced only by the co-operation of all the farmers in the community in the use of good methods. It is especially important at this time that the volunteer wheat should be killed. Get on the land with a disk and get it killed. Then if the greatest care is taken in preparing the soil, so as good a seedbed can be prepared as possible, late sowing can be the rule, which will tend to avoid this damage by making the wheat so late that the flies will not have a chance to lay their eggs. The county agents are doing good work in the fight against this pest. A.



This Map Gives the Fly Free Dates in Kansas; They Were Determined by Experimental Planting by the Kansas State Agricultural College.

D. Folker, county agent of Jewell county, in a recent circular said:

Very early plowing has been made impossible by the late, wet harvest. Extra care and labor is going to be necessary to get a well packed seedbed for wheat. Follow the plowing with disking and packing, so that decay of the trash will start immediately. Remember, October 1 is fly-free date unless we have early frost, which may permit earlier seeding. Ask your neighbor to co-operate on Hessian fly eradication. I can't believe he will refuse your request when you give him the proof of the need for the use of good methods.

Kill the volunteer wheat, get a good seedbed and delay the seeding until as near the fly-free date as possible. These are the big things now in the control of this pest.

Here's a Barn Worth While

We have obtained very good results from our hay barn. This barn is 60 feet long, 28 feet wide and 20 feet high. The inside posts are 16 feet apart. In filling the barn we start in the center and fill a section 28 by 20 feet from



The Hay Is Stored Rapidly and Profitably on the Willis Farm, and All of Its Feeding Value Is Saved.

either end. When the center is full we fill the ends. This barn is in the center of a 60-acre alfalfa field, and is built from native lumber that grew on the farm. The posts are red cedar set 4 feet into the ground. We run 3 mowers, 2 rakes, and 3 go-devils.

Since the picture was taken the gables of this barn have been closed and we intend to hang doors at the ends to keep the rain from blowing in.

Our place contains 508 acres, is 4 miles from Manhattan, and corners on the college farm. R. A. Willis & Sons, Manhattan, Kan.

Can You Second the Motion?

Robert's Rules of Order was published in 1876, in the belief that such a book was needed to aid in organizing and con-

ducting meetings, defining the duties of officers, and the methods of dealing with motions in great detail. The book steadily increased in sale, and during the 30 years since it was published a half million copies have been sold. There has come from all sections of the country to the author of the book an earnest demand for a revision and enlargement of the manual. The present book, published under the title of Robert's Rules of Order Revised is issued to meet this demand.

Every form of organization, from the school debating society in the country to the state or national legislature, has found Robert's Rules a helpful handbook. This new, enlarged edition will, therefore, be welcomed everywhere. The supplement to the book, as a plan

for the study of parliamentary law, will add greatly to the usefulness of the manual in clubs and organizations where there is time for, and interest in the study and practice of parliamentary procedure. The new book contains nearly twice as much material as the last previous edition and on all parliamentary points is strictly up to date.

Getting a Pleasing Flavor

The characteristics of butter most difficult to obtain, and yet most desired, are pleasing flavor and aroma. In order to get the best butter, it is essential that great care be exercised in the handling of the milk from the time it is taken from the cow until it is churned.

Care should be exercised to have the air in the barn free from dust. The feeding of dusty hay or fodder just before or at the time of milking stirs up dust. The cow's teats, udder and flanks should be free from filth at the time of milking. The milk pails and the hands and clothes of the milker should



How We Protect the Porcelain

Champions have an asbestos cushioned copper gasket (A in illustration) at the exact point where the porcelain insulator must take the terrific force of the hammer-like explosions in the cylinders.

This is why Champion Spark Plugs endure these heavy trip-hammer blows without breaking or even cracking.

It is one of the fundamental exclusive features back of Champion Reliability.



We make a special Champion plug for every make of motor—Ford, Overland, Studebaker, Buick, Maxwell and over 60 others. All new Ford cars since 1911 are equipped with Champion "X" Plugs. When you replace the plugs in your Ford car specify Champion "X". 75% of all American-made automobile, marine, stationary and tractor gasoline motors are equipped at the factory with Champion Spark Plugs.

Champion Spark Plug Co., 511. Avondale Ave., Toledo, Ohio



Let'er Rain

Summer showers or fall rains don't interrupt the work if you have a Caterpillar Tractor. Its long, wide, endless track doesn't pack moist ground as round wheels do. Get a Caterpillar now and plow next winter when horses and round-wheel tractors are idle. Use it 200 days a year instead of 75.

CATERPILLAR

Don't say Caterpillar unless you mean Holt!
For stationary work you don't have to block the Caterpillar—its track holds it firm as a rock. Its smooth-running motor will make easy work of your grinding, threshing, shelling, silo filling, etc. One owner farmed 1500 acres and earned \$10,000 outside in 15 months—only \$200 repairs. Send for Catalog A. G. 266, on the new "45" for middle-sized farms.



The Holt Mfg. Co.

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Butler Metal GRAIN BIN

CORRUGATED RAT-PROOF FIRE-PROOF
Safe, profitable place to store grain until favorable time to sell. Keeps grain perfectly. Large door, removable shoveling board, 2-foot sliding door for easy scooping. Ask for booklet showing letters from satisfied users.
BUTLER MANUFACTURING CO., 1338 Grand Ave., Kansas City, Mo.

A lawsuit is a legal way of giving something for nothing.

Kansas Fairs in 1915

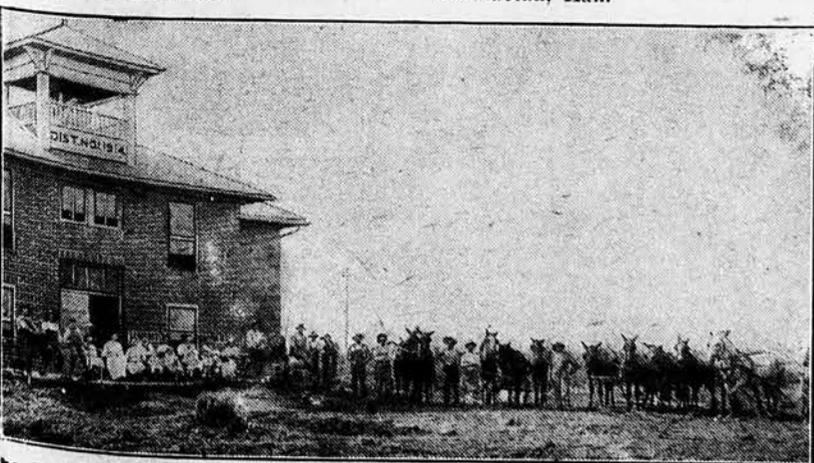
Here is a list of fairs to be held in Kansas in 1915, their dates (where they have been decided on), locations and secretaries, as reported to the State Board of Agriculture and compiled by Secretary J. C. Mohler:

- Kansas State Fair: A. L. Sponsler, secretary, Hutchinson; September 18-25.
- Kansas State Fair Association: S. E. Lux, president, Topeka; September 13-17.
- Allen County—Moran Agricultural Fair Association: E. N. McCormack, secretary, Moran; September.
- Barton County Fair Association: Porter Young, secretary, Great Bend; October 5-7.
- Butler County: Douglass Agricultural Society; J. A. Clay, secretary, Douglass; Sept. 15-18.
- Clay County: Wakefield Agricultural association; Eugene Elkins, secretary, Wakefield; Oct. 8-9.
- Coffey County Agricultural Fair Association: S. D. Weaver, secretary, Burlington; Sept. 21-25.
- Cowley County—Eastern Cowley Fair and Agricultural Society; Howard Collins secretary, Burden; Sept. 22-24.
- Decatur County Fair Association: J. R. Correll, secretary, Oberlin; Sept. 22-24.
- Dickinson County Fair Association: C. R. Baer, secretary, Abilene; Sept. 21-24.
- Douglas County Fair and Agricultural Society: C. W. Murphy, secretary, Lawrence; Sept. 21-24.
- Ellsworth County: Wilson Inter-County Co-operative Fair Association; W. E. Schermerhorn, secretary, Wilson; Oct. 5-8.
- Franklin County Agricultural Society: J. R. Finley, secretary, Ottawa; Sept. 7-10.
- Gray County Agricultural Association: E. T. Peterson, secretary, Cimarron; Oct. 6-8.
- Labette County Fair: Clarence Montgomery, secretary, Oswego; Sept. 15-18.
- Lincoln County: Sylvan Grove Fair and Agricultural Association: R. W. Wohler, secretary, Sylvan Grove; Sept. 22-24.
- Linn County Fair Association: C. A. McMullen, secretary, Mound City; Sept. 21-24.
- Phillips County: Four-County Fair Association: Abram Troup, secretary, Logan; Sept. 21-24.
- Logan County: Inter-County Fair Association: C. A. Spencer, secretary, Oakley; Oct. 13-15.
- Meade County Fair: R. W. Campbell, secretary, Meade; September 21-24.
- Mitchell County Fair Association: Fred W. Knapp, secretary, Beloit; Sept. 28-Oct. 2.
- Montgomery County Fair Association: C. D. Lockard, secretary, Coffeyville; Sept. 28-Oct. 1.
- Nemaha Fair Association: M. R. Connet, secretary, Seneca; Sept. 7-10.
- Neosho County: The Four-County District Agricultural Society: Geo. K. Bideau, secretary, Chanute; Oct. 4-9.
- Ottawa County Fair Association: J. E. Johnston, secretary, Minneapolis; Sept. 7-10.
- Pawnee County Agricultural Association: Harry H. Wolcott, secretary, Larned; Sept. 28-Oct. 1.
- Rawlins County Fair and Agricultural Association: M. H. Bird, secretary, Atwood; Sept. 8-10.
- Rice County Fair Association: L. C. Needham, assistant secretary, Lyons; Sept. 7-10.
- Hooks County Fair Association: J. C. Foster, secretary, Stockton; Sept. 7-10.
- Russell County Fair Association: J. B. Fank, secretary, Russell; Oct. 5-8.
- Russell County: Mid-County Fair: H. U. Brookhart, secretary, Bunkerhill; Sept. 29-Oct. 1.
- Saline County Agricultural, Horticultural and Mechanical Association: C. R. Cravens, secretary, Salina; Sept. 13-18.
- Smith County Fair Association: C. A. Garrison, secretary, Smith Center; Aug. 31-Sept. 3.
- Stafford County Fair Association: R. B. McKay, secretary, St. John; Sept. 7-10.
- Trego County Fair Association: S. J. Straw, secretary, Wakeeney; Sept. 8-10.
- Johnson County—Spring Hill Grange Fair Association: W. F. Wilkerson, secretary, Spring Hill; Sept. 7-10.
- Ellsworth County Agricultural & Fair Association: G. C. Gebhardt, secretary, Ellsworth; Sept. 28-Oct. 1.

For a Better Farm Plan

(Continued from Page 3.)

be irrigated, and the rest continued under the dry land conditions. "Fruit and truck crops for home use can be grown in western Kansas extensively, especially if one can give them some water," said Mr. Clark. "By a little effort along this line, in connection with the use of water on a good lawn around the home, it is possible to make rural life in this section a great deal more satisfactory. Farmers are appreciating this to a very encouraging degree, too, and this is responsible for much of the better rural life which is being developed here."



The Members of the Blue Bottoms Welfare Club Believe in Their School, and They Are Willing to Work to Help It Along.

The United States Department of Agriculture also is co-operating at this station on the dry land work. The government tests are in connection with the state work, and they are in charge of J. B. Kuska. A special effort is being made with the grains on the government plats.

The central idea on which the work of this station is based is to make it of the greatest practical value to the farmers of northwestern Kansas. It is believed that a much more profitable and satisfactory type of farming is within reach, and the purpose of the station is to help in obtaining this.

Parcel Post as Middleman

(Continued from Page 16.)

tance of more than 300 miles when the parcel post cost was more than it is now. But the expense was not great, and the returns came as soon as mail could get back.

Parcel post is a great help to the farmer in the winter when the weather is bad and the roads frozen or drifted full of snow. He can send produce to town and get what is needed. The parcel post costs only a fraction of what it would cost to hitch up and go to town in bad weather, and the mail has to go anyway. I never have sent any vegetables by parcel post, but it seems as though it would be a success, as they could be sent fresh each day.

It was a great help to me in fruit canning time last year. I ran out of jar rubbers and telephoned at night. The next morning at 9 o'clock they were in my hands, sent out by parcel post.

Mrs. Fred Hamblin.

New Murdock, Kan.

Goods Better Than Advertised

The parcel post system should be classed with such farmers' helps as the telephone and rural free delivery. We should always be sure the goods we send out are as good or better than we advertise; then it will be easy to have a demand for all we can produce. Also, we should be sure that our packages are strongly and neatly done up.

We have made use of the parcel post from the first, and it has been very helpful to us in delivering our cheese and other produce. There is scarcely a day that we do not get orders through the mail for cheese. We have sent cheese to almost every state in the union, in weather hot and cold; and it has failed only once to go through safely.

I am planning to market all my produce by parcel post this spring and summer, as it will save the long drives. I give cheaper prices in large quantities, as the rate is much less. I think the rate is still too high on parcels, but believe it will be less when people become better acquainted with the plan.

Mrs. J. R. Wiley.

R. 1, Enid, Okla.

Public Spirit That Wins

This picture was taken August 13 to show the spirit of the Blue Bottom Welfare club. Men with teams, plows, scrapers, hoes, scythes, and mowing machines put the school house grounds in order. The women served a dinner and cleaned out the school rooms. This community is proud of the new \$5,000 two-roomed school house carrying the grades and a 2-year high school course. It was built last year.

Manhattan, Kan.

**New Styles-
1916 Prices-
Mail Postal**



for Kalamazoo 1916 stove and range catalog—get wholesale prices—cash or easy payments—30 days trial—year's test. We pay freight and ship within 24 hours. Write today Ask for Catalog No. 341 Kalamazoo Stove Co., Mrs. Kalamazoo, Mich. Stoves, ranges, gas stoves, furnaces, metal kitchen cabinets and tables. Say which you want

300,000 families using Kalamazoo Stoves, Ranges, Gas Stoves, Furnaces Metal Kitchen Cabinets and Tables

A Kalamazoo Direct to You

"Here's The New Kid"
Fash. Tool Didn't know I had a "kid" that could wear



FITZ OVERALLS

Sure! All our folks wear 'em. All the neighbors, too! Get you some! They Fit, See! They're cut in sizes and shapes for everybody.

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

MOLASSES BEST FEED FOR PIGS AND CALVES
Kansas City Molasses Co., Dept. MB, 1318 W. 8th St., K. C., Mo

THIS BIG, 3 1/2 FOOT TELESCOPE FREE



This is a real telescope and not a worthless toy. It is made by one of the largest manufacturers in Europe. When closed, as shown in picture, the telescope is 12 inches long and has a circumference of 5 1/2 inches. When all 2 sections are pulled out the full length is over 3 1/2 feet. It is built of the best materials, brass bound throughout. We furnish with each telescope a solar eye piece for use in studying the sun and the solar eclipses. Eye piece can also be used as a magnifying glass to detect insects or germs in plants or vegetables.

Powerful Lenses 5 to 10 Mile Range

The lenses in this telescope are carefully ground and correctly adjusted by experts. See objects miles away. Farmer said he could count the windows and tell the colors of a house 7 miles away and could study objects 10 miles away which were invisible to the naked eye. Absolute necessity for farmers and ranch men. They can keep their eyes on the cattle, horses or men when far distant.

Our Offer!! We will send one of these big telescopes free and prepaid to all who send \$1.00 to pay for one year's new or renewal subscription to Mail and Breeze and 25 cents extra for postage (\$1.25 in all). The Telescope is guaranteed to please you in every way or your money will be promptly refunded. Order at once. Address all letters to

Mail and Breeze
Eighth and Jackson,
TOPEKA, KANSAS.



When writing to advertisers please mention the Farmers Mail and Breeze.

Wheat Averages 13 Bushels

Corn Fields Have Not Looked Better For 26 Years

BY OUR COUNTY CORRESPONDENTS

CORRESPONDENTS estimate that nearly 20 per cent of the 9,449,000 acres sown to winter wheat in Kansas last fall was a dead loss, from all causes, including the uncut wheat abandoned, leaving 7,588,000 acres that were harvested, with a probable average yield of slightly more than 13 bushels. Approximately 4,500,000 acres were planted to corn in Kansas this year, says J. C. Mohler, secretary of the Kansas state board of agriculture, and based on the outlook August 25, correspondents estimate a prospective yield of corn for the state of 149,482,000 bushels, or practically 33 bushels to the acre, on the average. Should this acre-yield be realized it will be the largest since 1889, when the average was slightly more than 40 bushels an acre. Although the total acreage planted this year is the smallest since 1882, the present prospect indicates a crop fully up to the annual average of the last 20 years. The yield of corn in Kansas last year was 87,338,272 bushels; in 1913, 18,420,000 bushels, and in 1912, 156,500,000 bushels.

The promise for corn throughout the state is uniformly good, except in several counties of the eastern third, south of the Kansas River, where the lowest prospective yields are indicated, while some of the counties bordering the Colorado, although comparatively unimportant in corn acreages, report prospective yields equal to the average for the state. It should be borne in mind that this report of corn in Kansas is not a prediction by the board, but merely an estimate by its correspondents of the indicated crop, based on conditions existing August 25.

Threshing returns, although meager, suggest that the state's oats yield will approximate 35 million bushels, or an average yield of 24.8 bushels.

KANSAS.

Franklin County—Very poor hay weather. Some plowing for wheat being done. Heavy rain August 26. Eggs 19c; young chickens 14c; butterfat 20c.—C. E. Kelsey, Aug. 27.

Cheyenne County—Threshing is in progress, wheat is threshing out well and is making 10 to 35 bushels to the acre. Corn is fine. Stock doing well.—E. D. Kyle, Aug. 28.

Lane County—Rains during the week and threshing stopped. Very cool weather. Stock doing nicely and pastures fine. Plenty of feed. Land changing hands at good prices.—F. W. Ferrigo, Aug. 27.

Harvey County—Rain and wind storm on August 22 did some damage to corn, wheat and fruit. Very little threshing or plowing done yet. Wheat \$1.05; corn 70c; eggs 13c; chickens 12c; hens 8c.—E. W. Prouty, Aug. 27.

Barber County—No rain this week. A great deal of stacking done but very little threshing as the grain is still damp. Lots of plowing and listing done. Pastures fine. Stock looking as well as usual.—G. H. Reynolds, Aug. 28.

Morton County—Still wet and muddy. Threshing about all done in some places. Wheat and barley were damp and tough but quality of wheat good. Some grain being hauled to market. Maize headed out. Cane growing nicely.—E. E. Newlin, Aug. 27.

Wallace County—Ten days without rain. Corn is maturing very fast and crop will be large. Threshing in progress. Wheat making from 5 to 30 bushels and barley from 30 to 75 bushels. A good many cattle dying with blackleg.—Charles McKinley, Aug. 28.

Woodson County—An inch and a half of rain Monday and ground is thoroughly soaked. Corn doing nicely but kafir and cane slow as it is too cool and wet. Haying progressing slowly and only half finished. Eggs 15c; hens 9c; hogs \$6.50 cwt.—E. F. Opperman, Aug. 27.

Rush County—Corn doing very well and will make from 45 to 75 bushels to the acre. Very little plowing done so far for wheat on account of wet weather. Much wheat spoiled in the stack. Not much threshing done yet. All feed stuffs growing too rank. Potato crop good.—J. F. Smith, Aug. 28.

Hamilton County—More rain here this month than ever before in August and fields are very wet. We will have plenty of stock water this fall. Corn crop will be great if frost does not come too early. It has been too wet for all dry land crops and the cool weather has retarded their

growth. Forage crop will be large if we have plenty of sunshine from now on. Cows doing nicely and giving lots of milk. Many farmers sowing rye and a large acreage of wheat will be sown. Eggs 16c; butter 30c.—W. H. Brown, Aug. 23.

Lincoln County—Weather still wet and rainy. Harvest over. Threshing is slow work. Wheat making about 22 bushels on the average. Corn good. Feed good but not put up on account of too much rain. Heavy crop of prairie hay but quality is poor. Wheat 80c; old wheat \$1.20; corn 80c.—E. J. G. Wacker, Aug. 25.

Ness County—Wet weather continues. Threshing machines are idle three-fourths of the time. All shocked grain damaged. Considerable plowing being done. Corn, feed and grass the best ever. Feterita and cane 8 feet high and still growing. Very little wheat going to market. Barley 40 cents a bushel.—C. D. Foster, Aug. 28.

Riley County—Threshing has been in progress the last two weeks. Wheat is yielding 15 to 25 bushels to the acre but quality is not very good. Oats making 30 to 40 bushels. Corn crop good. Farmers are beginning to make hay. Third crop of alfalfa heavy. Pastures good. Best grade of wheat 85c; eggs 14c.—P. O. Hawkinson, Aug. 28.

Sedwick County—We still are getting lots of rain, and weather is cool and foggy. Threshing has been stopped for three weeks. A great deal of grain is in the shock yet and it is damaged badly. Ground too wet to plow. Many farmers are afraid to plant wheat on account of the fly and are plowing their ground deep for corn. Corn is very large.—J. R. Kelso, Aug. 28.

Morris County—Rains, showers, and heavy dews combine to interfere with haying and threshing. Ground is too wet to plow. Some of the corn and prairie hay will make fine crops. Kafir and sowed feed late and an early frost will catch them immature. Wheat is growing in the shocks. Some wheat could not be harvested on account of soft ground.—J. R. Henry, Aug. 28.

Ottawa County—Fine week for plowing and haying. Some threshing machines started the latter part of the week. Stack threshing is tough yet. Many tractors are being used to pull plows. Corn very fine and prairie hay will make a double crop. Grass that was killed out in 1913 is thickening up nicely now. Farmers will work roads this fall after the bulk of the work is done.—W. S. Wakefield, Aug. 28.

Trego County—Lots of rain. Farmers very busy as they are behind with their work. A great deal of plowing for wheat to be done yet and ground is very wet for plowing. Corn will make a fine crop. Not much threshing being done, on account of rain. Kafir, feterita and sorghum will be good but it is a little wet for feterita. Cattle in good condition. Old wheat \$1.05; new wheat 90c; oats 60c; corn 80c.—W. F. Cross, Aug. 27.

OKLAHOMA.

Canadian County—Another wet week. A great deal of the fourth crop of alfalfa damaged. Wheat and oats rotting in the field. Corn 75c; oats 36c; wheat \$1.05; potatoes 80c; sweet potatoes \$1.20.—H. J. Earl, Aug. 29.

Fawcett County—Corn crop good and will make 50 bushels on the best land. Wheat land being plowed. Third crop alfalfa about all put up. Most of it got wet. Wheat averaged 10 bushels and oats 25 bushels to the acre.—V. Funkhouser, Aug. 27.

Texas County—Crops damaged some by hail this year. Farmers busy plowing and preparing wheat land. Much volunteer wheat will have to be destroyed in order to sow wheat. Pastures good. Wheat 90c; kafir 75c; eggs 11c.—Frank Free, Aug. 28.

McLain County—Early varieties of corn have been gathered and made from 35 to 40 bushels to the acre. Late corn will yield higher. Feed stuff plentiful and some silos are being filled. Cotton late and picking will begin in about a month. Cattle and horses bring good prices.—L. G. Butler, Aug. 27.

Roger Mills County—Plenty of rain. A larger acreage of wheat will be sown this fall. The best corn and feed crops ever grown are in prospect. Broom corn good. Cattle bringing high prices. A large amount of wheat to thresh yet. Stock hogs in demand. Wheat yielding from 9 to 30 bushels an acre.—Hugh Sober, Aug. 28.

Kiowa County—Threshing about two-thirds finished and the yield of grain is good. Some of the wheat on fields sowed in February made 20 bushels to the acre. A big rain yesterday has stopped work again. Much land being prepared for fall sowing and an increased acreage will be sown. Some damage reported by hail. Eggs 10c; hens 9c.—T. Holmes Mills, Aug. 27.

Washington County—Continued rains have delayed threshing and some of the shock grain will be a total loss. About a third of the small grain saved in this section. Some plowing being done for wheat. The acreage will be 50 per cent less than last year. Peach crop large and quality good. Hay crop immense but haying is slow on account of rains. Alfalfa ready for third cutting. Pastures good and stock doing nicely.—J. M. Brubaker, Aug. 28.



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To these features of Self-Sentering and concrete add the facts that they require no paint, no repairs; that the first cost is but little higher than that of wood.



Silos Grain and Tanks

will prove practically everlasting. They are profit-paying investments that can't depreciate. You can build easily and quickly with Self-Sentering, for it requires no form work.

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Our latest Swell Fork Saddle, 14 inch swell front, 28-inch wool lined skirt, 3-inch stirrup leather, 1/4 rig, made of best leather, guaranteed for ten years; beef hide covered, solid steel fork.



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Send your name for our catalogue, now ready.

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Here is a book every landowner needs—Roppe's New Calculator. It gives the answer to any problem almost as quickly as you can tell time by a watch. Given to help advertise.

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The fence that stays tight and trim the year 'round. Outlasts any wire fence made. Fence Book tells why SQUARE DEAL Fence is better. Write us. Books free, postpaid.

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BIG LAND SALE AT AUCTION!

The FAMOUS FORSHA RANCH, 5,000 acres, cut in small tracts, will be sold to the highest bidder at auction. **Tuesday, Sept. 7th, Commencing at 10 a.m.**

This magnificent Ranch of about 5,000 acres is located in Reno County, Kansas, 12 miles from the live city of Hutchinson with its 20,000 population, 4 miles from the thriving village of Castleton on the A., T & S. F. railroad 5 1/2 miles from Yoder on the Mo. Pac., and 7 1/2 miles from Haven. The soil is very fertile and is heavy loam, some portions a heavy red sandy loam, similar to the famous Oklahoma chocolate or red lands. The entire 5,000 acres has been sub-divided into smaller tracts of 30 acres up. This sale comprises some as fine wheat, corn, alfalfa and grazing lands as can be found in the state. Magnificent owner's home and outbuildings go with about 500 acres. Other improvements go with the different tracts of various sizes. Very easy terms, 1/2 cash, balance on time. Free lunch served at noon. Band concerts all day. For information call on our Representatives at Blount Hotel, Hutchinson, Kansas, who will gladly show you over the ranch; or owner of the property. We will meet all prospective purchasers on request at Castleton and show you over the property. Only One Day. **TUESDAY, SEPTEMBER 7TH.** Let the owner make or lose.

Carolina Development Company, Auctioneers and Sales Managers Western Office, Salina, Kansas Home Office, Greensboro, N. C.

I AM A CANDIDATE FOR THE Republican Nomination of PRESIDENT of the UNITED STATES

To enforce the People's Will, they have voted three times with increasing majorities against the Trusts.

To establish and preserve Independent Industries; to uphold and strengthen the Farmer; to prosper and encourage the Workingman and his family.



A Business Man, Farmer, Manufacturer and Inventor, a Friend and Employer of Labor. The Trusts and Big Business have forced me to take a stand in starting a Campaign:

1—That our Government of the people, for the people and by the people shall not perish from the earth, That our Nation, under God, shall have a new birth of Freedom and of Justice to our Weaker Brother.

2—The strength of a Nation is not in her Army nor in her Navy, but in the Loyalty and Strength of her common Citizenship.

3—Good is ours by Divine Right, Wrong that we can correct is never necessary.

4—Our Government has the Power to enforce the People's Will. Execute this Power.

5—A return to the open Competition of our Fathers is necessary for the proper Protection of the Public and to overcome the Robber-cost-of-Living to the Workingman.

6—Proper limits for private fortunes will discourage Dishonesty, Injustice, Avarice and Monopoly. Some 200 Americans have each a yearly income of about One Million Dollars or more while many children hunger for bread in our land of plenty.

7—Too much Lawyer Legislation, too little Lawyer Regulation.

8—Stop wasting the People's (Nation's) money.

9—Give the Farmer reliable sources for cheaper money to enable him to safely enlarge his Farming Operations. Every Country in history that has protected and encouraged Agriculture has become great and prosperous.

10—Encourage always honest American Industry and Invention.

It is entirely of secondary importance, if indeed it may ever be important at all, whether I may ever be nominated or elected to the highest position of National Importance; but, it is of the greatest importance and necessity that we now set aside forever Special Privileges, Class Advantages and Selfish Laws for Individual gain and greed.

Having started West a boy of 16 years with nothing but the prayers

of a Christian home and a Railway Ticket, I have since built up an Independent Factory, making Improved and Modern Machinery for the Farmer.

Having given to the Farmers of America more and greater inventions in Agricultural Machinery Improvements during the last 20 years than all of the Millionaire Trusts and Big Business combined, and having these inventions which have cost my life's earnings stolen one after the other by these interests and finding it very difficult to secure Patent Protection from our Court Systems

against such Monopoly Injustices, I feel qualified to understand the conditions of our Day.

Fetzer was the author of Nebraska's Emergency Law (Seed Grain Note Law) enacted after the Hot Winds of 1894.

Will expect to take an important part in a series of Mass Meetings and will make the opening Campaign Address in Kansas City, Omaha, or other prominent Western City soon for the purpose of electing men to Public Office who will support the People and oppose Monopoly.

WILLIAM FETZER.

European Wheat

FREE 80 acres or as much more land
as you use now for Wheat, Rye, Barley, and Oats, and it is just as good land as you are farming to-day and you do not even have to pay taxes on it.

It will be easily found between your present Wheat or Oat rows, 7 inches or 8 inches apart, by our Modern 3 1/2 inch Drill.

European Farmers raise 60 to 80 bushels of Wheat per acre. American Farmers raise an average of less than half this much per acre.

This great difference is caused by the difference in seeding.

European Drill rows are only 3 1/2 inches apart. American Drill rows are 6 to 8 inches apart. See the waste of American land.

Double your Wheat and Oats yield with Fetzer's Modern 3-inch Drill

making a furrow three times wider than other Drills broadcasting the seed under the surface, producing deeper roots, sturdy growth; utilizes the space between the rows and saves the waste land.

Fetzer multiplies your Crop yields and makes a good stand of clover with wheat in the driest years.

Write for our 25 per cent guarantee. You cannot afford to waste half your land. Write for literature and Guarantee to-day.

FETZER & COMPANY
Box H-4, Springfield, Ill.

(Advertisement.)

Fat Utah Lambs Bring \$9.25

Decline of 10 Cents in Price of Hard Wheat in Last Week—
Expected to Go Still Lower

CATTLE receipts last week were moderate for the season, especially in view of the liberal number of cattle believed to be maturing on grass in Kansas and the West and Southwest at this time. Feeders are 10 to 25 cents lower for the week, but stock grades are holding up strong, except a few common cattle. Quarantine cattle are a quarter lower for the week, and quality of the offerings has been more common, making prices range considerably below the preceding week. Prime native steers sold up to \$9.85, yearlings \$9.75, a good many cattle at \$9.25 and upwards.

Kansas pasture cattle sold up to \$9, but most sales were at \$7.40 to \$8.50. Western range cattle were lacking last week, but Idaho-Oregon hay fed steers were worth \$7.25 to \$8, grain fed steers up to \$8.75, and western cows at \$6.25 to \$7.75. Straight feeders bring \$7.25 to \$7.75, unless fancy, and a few fleshy feeders last week brought up to \$8.50, stock steers largely \$7 to \$7.50. A few wintered quarantine steers sold last week at \$6.90 to \$7.50, Oklahoma grass steers \$5.85 to \$6.75, quarantine cows \$5.25 to \$6. A moderate run is expected next week, as market conditions will have to be strong before Kansas will ship freely.

Hogs have been selling much higher. Heavy hogs and packing grades gained 25 to 50 cents in the week. Continued light receipts at the markets, especially at Kansas City, are causing some anxiety among packers. Prices here continue at a good margin above other western markets.

Lambs had a runaway market last week, prices 50 to 75 cents higher. Sorts have been very light here, arousing some complaint from feeder buyers, who have had slim picking. Feeders sell up to \$8.35, fat ewes \$5.50 to \$6.25, feeding ewes \$5 to \$6, breeding ewes \$6.50 and upwards. The supply last week of around 38,000 has been far below requirements.

Fair to good..... 7.50@8.25
Common to fair killers..... 6.90@7.45
Prime yearlings..... 8.75@9.65

COWS AND HEIFERS.

Prime..... \$6.75@7.50
Good to choice..... 6.10@6.70
Fair to good..... 5.40@6.20
Cutter cows..... 4.85@5.40
Canners..... 3.50@4.50
Prime heifers..... 8.50@9.50
Fair to choice..... 7.85@8.45
Common to fair..... 6.90@7.60

QUARANTINE CATTLE

Steers, grain fed..... \$8.00@8.90
Steers, meal and cake fed..... 7.50@8.60
Steers, grass fat..... 5.50@7.85
Cows and heifers..... 4.50@7.46

FEEDERS AND STOCKERS.

Selected feeders..... \$8.00@9.00
Good to choice feeders..... 7.65@8.00
Medium to good feeders..... 7.00@7.60
Common to fair feeders..... 6.50@7.00
Selected stockers..... 8.00@8.50
Medium to good stockers..... 7.25@7.90
Common to fair stockers..... 6.70@7.20
Stock cows..... 5.50@6.35
Stock heifers..... 6.00@8.00
Stock calves..... 7.00@8.60
Veal calves..... 7.00@10.50
Killing bulls..... 4.75@6.50

HOGS.

Choice hogs, over 200 pounds..... \$7.05@7.55
Choice hogs, over 250 pounds..... 6.90@7.35
Light hogs, 150 to 200 pounds..... 7.40@7.60
Rough to common..... 6.25@6.85
Bulk of sales..... 6.90@7.55

SHEEP.

Spring lambs..... \$8.50@9.25
Yearlings..... 6.75@7.50
Wethers..... 6.00@6.75
Ewes..... 5.60@6.50
Goats..... 4.25@5.00

Big Spring Wheat Crop to Market.

In the Northwest, however, the big spring wheat crop is expected to move rapidly to market if weather permits. There has been little interference with harvest up there and if the weather continues clear threshing will be rushed.

The same situation exists in the Northwest as in Kansas City—a shortage of wheat for immediate use, with carlots selling 10 to 25 cents above the September delivery price, yet there is a confident expectation that receipts soon will be large enough to establish

a normal relation between the cash and the future prices.

Stocks of wheat are insignificant at all markets—288,000 bushels in Kansas City, compared with 4 1/2 million bushels a year ago; 324,000 bushels in Minneapolis, compared with 982,000 bushels a year ago; 900,000 bushels in Chicago, compared with 6 million bushels a year ago. Chicago's shipments last week were 660,000 bushels in excess of receipts.

Exports of wheat and flour last week from the United States and Canada were 5,165,000 bushels, compared with 5,589,000 bushels in the preceding week and 9,387,000 bushels a year ago.

September Frost Would Injure Corn.

Corn prices moved narrowly. The market is sustained by the lateness of the crop and the fear that much of it may be caught by early frost. Abnormally low temperatures prevailed last week, and frost occurred in northern Iowa and the Dakotas and Minnesota, though apparently without any damage. Corn on a large area could be ruined by a September frost, and even some damage could be done up to the middle of October if there is not some hot, forcing weather to bring the crop to maturity.

Advises from the country, generally, indicate that very large yields are promised on much of the area and there is a chance, if no frost damage occurs, that the crop may almost equal the previous high record, despite the difficulties encountered in getting it started. In the South, and as far north as Oklahoma, a big crop has practically reached maturity. Receipts at the three western markets last week were 882 cars, less than one-third as large as a year ago.

Argentina continues to ship freely, and still has liberal reserves, according to reports, so that foreigners are complacent over supplies. Argentina shipments last week were 4,200,000 bushels, compared with 578,000 bushels a year ago.

Chicago had liberal receipts of oats last week, but they were moderate elsewhere. Kansas City receipts continue small and the Kansas reports indicate that the crop was greatly damaged by rains after harvest. Nevertheless, car lots here were 2 to 7 cents lower than a week ago.

Hard wheat—No. 2, \$1.04@1.22; No. 3, 98c@1.21; No. 4, \$1.12.
Soft wheat—No. 2, \$1.11@1.13; No. 3, \$1@1.07; No. 4, 97c.
Mixed wheat—No. 3, \$1.
Corn—No. 2 white, 71c; No. 3, 70 1/2c; No. 2 yellow, 74c; No. 3, 73 1/2c; No. 2 mixed, 70 1/4c; No. 4, 69c.

Oats—No. 2 white, 38@39c; No. 3, 37@38c; No. 4, 35c; No. 2 mixed, 38@39c; No. 3, 34@37c; No. 4, 31c.
Kafir—Sample white, 85c.

Kansas City Hay Market.

Total receipts this week were 662 cars, compared with 736 cars last week and 686 cars a year ago.

Quotations follow: Prairie, choice, \$9@9.50; No. 1, \$8@8.50; No. 2, \$6@7.50; No. 3, \$4.50@5.50. Lowland prairie, \$4@5. Timothy, No. 1, \$12@13; No. 2, \$9.50@11.50; No. 3, \$6.50@9. Light clover mixed, \$10@11; No. 1, \$8.50@9.50; No. 2, \$6.50@8. Clover, No. 1, \$9@10; No. 2, \$7@8.50. New alfalfa, choice, \$13@13.50; No. 1, \$11@12.50; standard, \$8.50@10.50; No. 2, \$7@8. No. 3, \$5@6.50. Straw, \$4.50@5. Packing hay, \$3@4.

Butter, Eggs and Poultry.

Eggs—Extras, new white wood cases included, 22 1/2c a dozen; firsts, 20 1/2c; seconds, 15 1/2c.
Butter—Creamery, extra, 24c a pound; firsts, 22c; seconds, 21c; pound prints, 1c higher; packing stock, 18 1/2c.
Live Poultry—Broilers, under 2 pounds, 15c; 2 pounds or over, 15c; hens, No. 1, 12c; roosters, 8 1/2c; turkeys, 14c; ducks, young 9@10c, old 8c; geese, 6c.



Write Us About Stock That You Want to Ship to Market—

or about stock you want to purchase to feed. Our twenty years experience on this market will save you money. Each department is looked after by competent men. Our weekly market letter will be sent you free upon request. Send your address to

Ryan-Robinson Commission Co.
421-5 Live Stock Ex., Kansas City, Mo.

WHOLESALE HAY

The Key See Hay Company gets top prices for your consignments and gives better grades for your money. You get the best possible results by dealing with us.

THE KANSAS CITY HAY COMPANY
706-A Live Stock Ex., Kansas City, Mo.

FAT STEERS.
Prime heavy, corn fat..... \$9.30@9.75
Prime medium weight..... 8.85@9.55
Good to choice..... 8.25@8.90
Fair to good..... 7.30@8.20
Western steers, choice..... 8.30@8.85

FARMERS CLASSIFIED ADVERTISEMENTS

Farmers Mail and Breeze is the greatest classified advertising medium in the farm paper field. It carries the most classified results. The rate is low: 5 cents a word; four or more insertions 4 1/2 cents a word. Here is a splendid opportunity for selling poultry, livestock, land, seeds and nursery stock, for renting a farm, or securing help or a situation. Write us for proof that it pays. Everybody reads these little ads. Advertising because it gives the best poultry, livestock, land, seeds and nursery a classified advertisement now.

POULTRY

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

BUFF ROCKS—WILLIAM A. HESS, Humboldt, Kan.

WHITE LANGSHANS—PUREBRED FINE young stock. Mrs. Geo. McLain, Lane, Kan.

ROSE COMB WHITE LEGHORNS, COCKERELS, hens and pullets. A. G. Dorr, Osage City, Kan.

FOR SALE—WHITE LEGHORN CHICKENS, Runner ducks. S. W. McComas, Circleville, Kansas.

PRIZE WINNING WHITE LEGHORN cockerels for sale cheap. Clara Colwell, Smith Center, Kan.

GOLDEN LACED WYANDOTTES, COCKEREL and 12 pullets \$12.00. D. Lawver, Weir, Kan., Route 3.

DUFF'S MAMMOTH BARRED ROCKS Choice breeding and exhibition quality. A. H. Duff, Larned, Kan.

CHOICE SINGLE COMB WHITE LEGHORN cockerels, one dollar and fifty cents. Martin Johnson, Russell, Kan.

THOROUGHbred W. WYANDOTTE PULLETS and cockerels 75 cents each. Fine. V. B. Kinney, Edgerton, Kan., R. R. 1.

PURE BRED BARRED PLYMOUTH ROCK cockerels. Early hatched. Cheap. If taken at once. Mrs. C. N. Bailey, Lyndon, Kan.

FISHIL STRAIN—60 WHITE INDIAN Runner ducks and drakes. 15 days only. Not related. One dollar each. 16-24 months old. 36 R. C. Red hens 75 cents each. James A. Harris, Latham, Kan.

BUTTERCUP POULTRY YARDS. I WILL mate you a trio of beautiful Buttercups (200 egg strain) for \$10 and ship November 1. Book your orders now and avoid disappointment. No better Buttercups in United States. Prosperity and happiness with this breed. W. C. West, R. No. 5, Topeka, Kan.

LIVE STOCK

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

ONE REG. SHROPSHIRE RAM FOR SALE. Geo. Peet, Madison, Kan.

4 REGISTERED ANGUS BULL CALVES for sale. Emil Hedstrom, Lost Springs, Ks.

REGISTERED AYRSHIRE BULL 3 YEARS old from advance registry cow. J. B. Sheridan, Carneiro, Kan.

HIGH GRADE HOLSTEIN CALVES, either sex, 3-4 weeks old. \$17 each, crated. Burr Oak Farm, Whitewater, Wis.

FOR SALE—FIFTY HIGH GRADE JERSEY cows three to five years old, seventeen high grade Holstein cows four to six years old. These cows can be bought right. Preston B. Graybill, Hutchinson, Kan.

SEEDS AND NURSERIES

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

GINSENG SEED SOLD OR EXCHANGED for Indian relics. A. L. Geiser, Dalton, N. Y.

PURE KARKOPH SEED WHEAT, RE-cleaned, price \$1.50. Laptad Stock Farm, Lawrence, Kan.

STRAWBERRY PLANTS IMMEDIATE shipment. \$20 for \$1.00. Progressive Ever-bearers \$2.00 a hundred. Riley Co. Nurseries, Manhattan, Kan.

HOME GROWN ALFALFA AND SWEET clover. I have a limited amount of fancy and choice seed. Write for prices and samples. Asher Adams, Osage City, Kan.

NEW CROP HULLED YELLOW SWEET clover (biennial) 17 cts. per pound; un-hulled 14. White, same price. Yellow finer hay and easily cured. 15 years' experience. R. L. Snodgrass, Augusta, Kan.

WINTER TURF OATS, BUSHEL \$1.00; 10 bushels 90c. Rye, bushel \$1.35; Crimson clover, Essex rape, alfalfa, Red clover, grass seed, strawberry plants, rhubarb roots, ginseng. Fall price list free. Southwestern Seed Co., Dept. C, Fayetteville, Ark.

FOR SALE

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

BELGIAN HARE DOES FOR SALE. Ralph Coen, Garden City, Kan.

A GOOD FIFTY BRL. MILL FOR SALE. Address Y., care Mail and Breeze.

FOR SALE—BULL TRACTOR. A BARGAIN. R. J. Johnson, Geneseo, Kan.

\$25 BUYS—A 12 HORSE, TWO CYLINDER gasoline motor. S. B. Vaughan, Newton, Kansas.

FOR SALE—ONE (NO. 15) OHIO ENSILAGE cutter, nearly new. Long Bros., Reserve, Kan.

COLLIE PUPS FOR SALE—WE BREED the best, all stock eligible to register. Cecil L. Hinds, Mound Valley, Kan.

FOR SALE—COMPLETE ACETYLENE lighting plant. Suitable for 6 room house. J. C. Lair, Route 27, Topeka, Kan.

DAVIES ACETYLENE LIGHTING PLANT. Good as new. Will sell cheap. H. Kemper, 1534 Washburn Ave., Topeka, Kan.

PRAIRIE HAY. WE HANDLE HAY IN large quantities and can make shipment any day. Ask for delivered prices. The Osage City Grain & Elevator Co., 416 Main street, Osage City, Kansas.

COLLIE PUPPIES, Sired by PARBOLD Fox, son of Champion Ormskirck Foxall, Dam Imported Craigmore Coronet, Fox terriers. Western Home Kennels, St. John, Kan.

ENGINE PLOW FOR SALE—JOHN Deere 10-14 in. bottom; one 12-14 in. bottom; one 14-14 in. bottom; good condition; will sell cheap. L. A. Jordan, Winona, Kan.

FOR SALE OR TRADE

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

320 A. UNIMPROVED WHEAT LAND AND rented residence, clear, for improved farm. Box 68, Strong, Kan.

HARDWARE, IMPLEMENTS AND FINE residence for land or property. Address D. H., care Mail and Breeze.

FOR SALE OR TRADE FOR LAND, DRUG stock and building located in town of 200. R. F. D. Box 31, Frankfort, Kan.

RESTAURANT AND CONFECTIONERY and soda fountain for sale or trade, doing a good business. The only one in town of 1000 population. A. O. Higbie, Hume, Mo.

\$350.00 120 TONS OREGON FIR TWO piece new silo to trade for piano. This is a first class silo and must have A No. one piano. Address V. C. Archer, Colony, Kan.

FOR SALE OR TRADE—A GOOD thriving hardware business with or without the buildings located in northern Okla., in one of the best parts of the state. Will sell or trade for good farm land in Harper or Sumner Co., Kan., or Grant or Alfalfa Co., Okla. Write fully what you have to the owner, H. S. Davis, Amorita, Okla.

LANDS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

160 ACRES KIOWA CO., COLO., \$800.00, IF sold within 30 days. Box 55, Alden, Kan.

FOR SALE AT A BARGAIN—25 ACRES IN city limits. G. P. Stuber, Belleville, Kan.

1/4 SEC., RUNNING WATER, TIMBER, improved, good soil. Box 25, Edmond, Kan.

GOOD WESTERN MICHIGAN FARMS FOR sale at a low price. G. Blickenstaff, Custer, Mich.

YOUR CHOICE OF A 160, 320 OR 640 A. farm. Possession now. Easy terms. W. C. Blattler, Belpre, Kan.

240 ACRES, 110 BROKE, BALANCE IN mow land. Write owner for terms and description. F. O'Daniel, Westmoreland, Kan.

FOR RENTAL PROPERTY—NOBLE CO., Okla., 160 a.; well imp.; 130 a. for wheat. All good soil. \$65.00 a. W. S. Seaton, Fall River, Kan.

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

RICH BLACK LAND FARM—MY IMPROVED stock, grass, alfalfa farm, 800 a. half cultivation ready for traction plows, \$30,000. Seth Reynolds, Ashdown, Ark.

WELL IMPROVED 108 ACRES 5 1/2 MILES from town. Good 8-room house, barn, orchard. 90 in cultivation. \$62.50 acre. Write owner, Sid Gardner, McLouth, Kansas.

WHEAT LAND AND GASOLINE TRACTOR plowing outfits, to rent with the land. Also will sell fine wheat land on easy terms. In Wallace county, Kan. J. E. Fitzgerald, owner, Jamestown, Kan.

ONE HUNDRED AND SIXTY ACRES IN two miles of town. Forty acres broke out; half good plow land; bal. good pasture. Price eight dollars per acre. W. O. See, Oakwood, Okla., Route No. 2.

PRODUCTIVE LANDS; CROP PAYMENT or easy terms along the Northern Pac. Ry. in Minn., N. D., Mont., Idaho, Wash. and Ore. Free literature. Say what state interests you. L. J. Bricker, 46 Northern Pac. Ry., St. Paul, Minn.

NORTHERN MINNESOTA—CHEAP, FERTILE land; easy terms. Excellent climate, sweet water, good markets. Grasses grow luxuriantly. The ideal cattle country. Write for information. Northern Minnesota Development Association, Mail & Breeze Department, Duluth, Minn.

FOR SALE—FINE FARM 25 ACRES, 1 1/2 ml. to car line, on plike road. 14 room house and two barns in good condition, four wells, two cisterns, 2 acres timber, 4 acres alfalfa, balance cultivation. Small fruits, apples; 1/2 mile to school. Price and terms write M. M. Shepherd, Berryville, Arkansas.

PUBLIC SALE OF REAL ESTATE SEPT. 15, at 2 p. m., on my farm. On account of debts, will sell my farm 1 1/2 miles northwest of Council Grove, Morris county, on Parker-ville road, at public auction. Consisting of 157 acres, 55 rich bottom land, 13 acres alfalfa, 95 fine pasture. Spring water year around. 2 large barns, one 5 room house. Terms \$600 cash, bal. in 30, 60 or 90 days. Subject to \$2500 mortgage due 5 years. For further information write. Prompt answer. F. J. Wabberman, Council Grove, Kan.

240 ACRES, 45 MILES FROM MINNEAPOLIS, one mile from town; 160 acres under cultivation; balance used for pasture; can practically all be cultivated; heavy soil. Good set buildings, consisting of 3 room house, large barn, granary, corn cribs, windmills, etc.; the land will produce 60 bushels of corn per acre; telephone in house; country thickly settled; complete set of machinery; 27 head of stock, consisting of 11 cows, balance 1 and 2-year-olds; six good horses, 25 hogs, chickens, one-half of this year's crop and everything on the farm goes at \$50 an acre, half cash. Schwab Bros., 1028 Plymouth Bldg., Minneapolis, Minn.

FOR EXCHANGE—160 A. IMPROVED Ozark farm 10 ml. from Marshall, Searcy Co., Arkansas. Price \$2000. Mtg. \$700. Give detail in first letter. A. B. McAdams, Clay Center, Kan.

FOR SALE—120 ACRES, IMPROVED farm, extra good house, good spring and orchard. 80 in cult. \$15.00 per acre. Terms to suit. 4 ml. from Co. seat. A good farm home. Crop goes in. W. Young, Ralph, Ark.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from fine school, fine old shade, park like surroundings, lot 61 1/2 by 205 feet, eight room house, modern in every detail, hardwood finish, four fine mantels and grates of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses etc., etc. Fine place for farmer who wants to move to the capital city. Price \$5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E., care Mail and Breeze.

FARMS WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

WANTED: TO HEAR DIRECT FROM owner of good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

WANTED TO HEAR FROM OWNER OF good farm for sale. Send cash price and description. D. F. Bush, Minneapolis, Minn.

WANTED TO RENT 40 ACRE PLACE with buildings, phone and R. F. D. in location for an auctioneer. What have you got? L. J. Moyer, Chapman, Kan., R. No. 2.

I HAVE SOME CASH BUYERS FOR SALE-able farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

FARMS WANTED. WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

LUMBER

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

LUMBER—WE SHIP TO CONSUMERS AT wholesale. Send us your itemized bills for estimate. Lowest prices on Bois D' Arc cedar and oak posts. Telephone poles and piling. McKee Lumber Co. of Kansas, Salina, Kansas.

CREAM WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

CREAM WANTED—THE INDEPENDENT Creamery Company of Council Grove, Kansas, buys direct from the farmer. Write for particulars.

FARM MACHINERY

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

SMALL POWER THRESHERS FOR GRAIN, maize, peanuts, peas, etc. Hand and Pony hay presses. Particulars free. W. H. Stopple, Dallas, Texas.

FREMONT KAFIR HEADERS, OPERATED one man and team. Harvests eight acres daily. Attaches wagon box. Marketed three years. Price \$45.00 freight prepaid. Illustrated folder mailed upon request. Address Fremont Motor Co., Manufacturers, 16 West Fifth St., Oklahoma City, Okla.

AGENTS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

WANTED—AGENTS TO SELL WINFIELD Reliable Trees. Pure bred—True to name. Growers of a general stock. Will pay a liberal commission. Cooper and Rogers, Winfield, Kan.

SUITS \$3.75. PANTS \$1.00, MADE TO measure. For even a better offer than this write and ask for free samples and styles. Knickerbocker Tailoring Co., Dept. 301, Chicago, Ill.

MALE HELP WANTED

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

WANTED: MAN TO SELL TREES, shrubs, roses, berry bushes. Permanent. Brown Brothers Nurseries, Rochester, N. Y.

I CONDUCTED GOVERNMENT EXAMINA- tions. Can help you secure railway mail or other government positions. Trial examination free. Ozment, 38R, St. Louis.

FIREMEN AND BRAKEMEN: \$100 monthly, experience unnecessary; hundreds needed by the best railroads everywhere. Particulars free. 796 Railway Bureau, East St. Louis, Ill.

SPECIALTY SALESMEN—LARGE EAST-ern organization manufacturing patented popular priced office efficiency devices wants representatives in unoccupied territory; splendid proposition; small capital; cash or credit; fine line "repeaters;" full protection; ask for "Folder B104." Chelsea Mfg. Company, 111 Broadway, New York.

HELP WANTED

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GOVERNMENT FARMERS WANTED, EX-amination Oct. 13. Good salaries. Free quarters. Write, Ozment, 38R, St. Louis.

BE A DETECTIVE. EARN \$150 TO \$300 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

WANTED MIDDLE AGED WOMAN WITH- out a home. Small wages, neat, healthy, honest. No children. Mrs. A. M. O'Neal, Liberty, Kan., R. R. No. 1.

THOUSANDS GOVERNMENT JOBS OPEN to men and women. \$65.00 to \$150.00 monthly. Write for list, Franklin Institute, Dept. B51, Rochester, N. Y.

MOTORMEN-CONDUCTORS: \$80 MONTH-ly. Interurbans everywhere. Experience unnecessary; qualify now, state age; booklet free. Electric Dept. 812, Syndicate Trust, St. Louis, Mo.

WANT GERMAN OR SWEDISH FARMER who has several grown boys, must be experienced dairy man. Everything furnished on good farm near Kansas City. References required. J. R. Meyers, 609 New England Bldg., Kansas City, Mo.

WANTED—FARMERS—MEN AND WOMEN everywhere. U. S. government jobs. \$75.00 month. Short hours. Vacations. Rapid advancement. Steady work. Many appointments coming. Common education sufficient. No pull required. Write immediately for list of positions now obtainable. Franklin Institute, Dept. B 51, Rochester, N. Y.

BEEES AND HONEY

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

ITALIAN BEES FOR SALE. A. H. DUFF, Larned, Kan.

HONEY—FANCY WHITE EXTRACTED, 2 60 lb. cans \$11.00. Light amber \$10.00. Amber \$9.00. Single cans 25 cents extra for boxing. Special prices in large lots. Bert W. Hopper, Rocky Ford, Colo.

SPECIAL PRICE LIST PURE CALIF. honey free. Produced by one of our Calif. apiaries. Explains grades, sized packages, prepaid prices. Inspection allowed before payment. Sample for dime to pay postage. Spencer Apiaries, Dept. D, St. Louis, Mo.

PATENTS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

PATENTS THAT PAY. \$600,000 CLIENTS made. Searches, advice and two books free. E. E. Vrooman & Co., 885 F, Wash-ington, D. C.

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

"PATENTS SECURED THROUGH CREDIT System. Free search; send sketch. Booklet free. Waters and Company, 4215 Warder Building, Washington, D. C.

PATENT WHAT YOU INVENT. IT MAY be valuable. Write me. No attorney's fee until patent is allowed. Estab. 1882. "Inventor's Guide" free. Franklin H. Hough, 532 Loan & Trust Bldg., Washington, D. C.

IDEAS WANTED—MANUFACTURERS ARE writing for patents procured through me. Three books with list 200 inventions wanted sent free. Advice free. I get patent or no fee. R. B. Owen, 34 Owen Bldg., Wash-ington, D. C.

MEN OF IDEAS AND INVENTIVE ABIL- ity should write for new "List of Needed Inventions," Patent Buyers, and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

MISCELLANEOUS

Advertisements under this heading will be inserted at 5 cents a word. Four or more insertions 4 1/2 cents a word each insertion. No display type or illustrations admitted.

FARM LOANS IN KANSAS, NORTHWEST Missouri and western Oklahoma. Ella Peacock, Topeka, Kan.

HIGHEST PRICE PAID FOR WALNUT timber on the stump. Write today. Stan-ley Wayman, Louisburg, Kan.

L. J. MOYER, LIVESTOCK AND GEN-eral sales; satisfaction guaranteed. Write for dates. Chapman, Kan., R. No. 2.

MOLER BARBER COLLEGE. MEN WANT-ed. Special fall rates. Write for free cat-alogue. 514 Main St., Kansas City, Mo.

POWER FARMING—THE MAGAZINE OF farming with mechanical power. Send 10 cents for three months' subscription. Power Farming, Box H, St. Joseph, Mich.

HARK! ARE YOU DEAF? THE RUNYAN Ear Trumpet has been on the market over 15 years. Costs only \$3.50. Write for testi-monials and free trial offer. Alfred C. Run-yan, Baldwin, Kan.

WANTED MORE DESIRABLE FARMERS to locate among us on the best produc-ing fruit, stock, dairy and agricultural lands in the famous Arkansas Valley lands. We have no lands for sale. Swink Commer-cial Club, Swink, Colo.

CHIROPRACTIC DOCTORS MAKE LARGE incomes; our graduates earn \$3000 to \$6000 yearly; be independent; work for yourself; this big paying profession easily learned by correspondence; special rates now; illus-trated book free. American University, Dept. (310), 162 No. Dearborn St., Chicago.

BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroughly reliable and the many bargains are worthy of your consideration

Special Notice All advertising copy discontinued 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.

120 acres, well improved; 8 miles Holton, \$9,000. S. E. Friend, Horton, Kan.

NEMAHA COUNTY, KAN., farms improved. \$40 a. up. E. L. Horth, Centralia, Kan.

FORD CO. farms, Catholic College and community. Millikan & Turner, Dodge City, Kan.

100 A. IMP. 46 alfalfa, bal. wheat, corn, pasture, \$12,000. Lindholm & Son, Kingman, Kan.

320 A. Hamilton Co. Raw grass land, \$4.50 a. No trade. Walter & Patton, Syracuse, Kan.

1020 A. 10 ml. Meade, 700 a. farm land, bal. pasture. \$12.50 a. G. W. Day, Meade, Kan.

IMP. FARMS, alfalfa, corn and wheat lands \$50 up. Mott & Kohler, Herington, Kan.

FARMS and ranches, northeast Kansas, \$85 to \$125 acre. Geo. Loch, Marysville, Kan.

FREE! Illustrated booklet describing richest Co. in Kan. Hoesy Land Co., Columbus, Kan.

480 A. ALL GRASS. Every acre can be cult. \$12.50 per acre. Box 215, German Colonization Co., Plains, Kansas.

FOR BUSINESS, homes or farms at Baldwin, Kan., seat of Baker University, write D. E. Houston & Co. Some trades.

1/2 SEC., 200 cult., 20 alfalfa, bal. pasture, well improved, spring and well. \$18,000. Terms Hill & Murphy, Holsington, Kan.

160 A. IMP. 5 alfalfa, 120 cult., bal. pasture. Living water, orchard and grove. 3 1/2 ml. town. \$40 a. M. F. House, Attica, Kan.

HAVE 10 GOOD RANCHES 1000 to 10,000 a., well watered, Barber Co. Wheat and alfalfa farms. Terms Kackley, Hutchinson, Kan.

CHOICE WHEAT and alfalfa farms. \$50 up. Banner wheat and alfalfa county. Write for description. Rex Nordyke, Harper Kan.

BARGAINS in imp. alfalfa, corn and wheat farms. Right prices, easy terms. Proctor & LeGrande, South Haven, Sumner Co., Kan.

WHEAT, OATS, CORN, ALFALFA lands. Famous Sumner County, Kansas, 1/2 wheat with farms. H. H. Stewart, Wellington, Kan.

FOR SALE. Cheap. Section grass land, No 1 half sec. grass land; No. 1 half sec. well impr., 120 bottom, \$1800. No 1 stock and grain ranch. J. H. Price, El Dorado, Kan.

FOR SALE—1060 a. imp. ranch, 2 1/2 miles of town in Ness Co., Kan. 1/2 bottom, alfalfa land. One 960 a. imp. ranch, 4 miles from town 40 a. growing alfalfa. Price, each, \$11.50 per a. Terms. No trades. All kinds of wheat and alfalfa lands. For particulars address C. F. Edwards, Ness City, Kan.

MORRIS CO. 240 a., all tillable, 160 cult., 20 a. meadow, 60 pasture, 20 a. bottom, 4 ml. town, 1 1/2 ml. school, 8 room house, in good condition, barn, shed roof on side, other bldgs., good well, fenced with wire and posts. Price \$55; mortg. \$6,000 due 1919. Other farms in neighborhood are held from \$65 to \$80 and not better than this one. Pralle Bros. Realty Co., Bremen, Kan.

GOOD well impr. 90 a. close in at sacrifice. Decker & Booth, Valley Falls, Kan.

GOOD FARMS \$35 to \$60 per a. Write Home Inv. Co., Chanute, Kansas.

860 ACRES improved, all tillable, black loam. Stevens Co.; \$6 per a., terms. Hugh Conner, Hutchinson, Kan.

\$6000 BUYS IMPROVED business property paying 10% net. In growing town. Write Papes, Mulvane, Kansas.

160 A. UNIMPROVED; good, level land. Finney Co., \$10 a. 1 1/2 ml. town. T. N. Castles, Lawrence, Kan.

640 ACRES smooth, part wheat, part alfalfa land. \$4,000. Terms. J. A. Jackson, Syracuse, Kan.

160 A. well impr. 1 ml. town, \$15,000. 240 a. fine improvements, \$24,000. J. Jensen, Hiawatha, Kansas.

80 ACRES, well improved, High state of cultivation. 3 1/2 miles of Wellsville. Price \$7300; \$1500 cash, bal. 5% long time. Moherman & Bivins, Wellsville, Kan.

HAVE 50,000 a. good level, wheat land. Imp. and unimp. Wheat belt. \$10 up. Alfalfa, wheat and corn farms. \$50 up. Morley & Staats, Emporia, Kan.

SQUARE SECTION BUTLER CO. PASTURE Finest limestone bluestem, fenced, permanent water, convenient. \$25. No improvements. No trade. V. A. Osburn, El Dorado, Kansas.

760 A. RANCH and farm, 10 ml. south of Fowler, 15 ml. east Meade. 300 a. cult.; fine stream, 50 springs. 200 a. alfalfa land. Artesian water. New house. 18 a. timber. 2 a. orchard. \$15,000. Write R. C. Mayse, Owner, Ashland, Kan.

FOR QUICK SALE, best Lyon County stock ranch. Well improved. Fine grass. Plenty of bottom alfalfa land. Well located. A money maker. Easy terms. Bargains in any size tracts. Write for lists. Fred J. Wegley, Emporia, Kan.

YOUR CHANCE. 160 acres, 4 ml. from Peabody. All extra good land under plow; good 7 room house. Good barn 40x60; scales, granary, etc. Nice shade. School 1 ml. Bargain for short time at \$70 per a.; time on \$7000.

Mollohan Land Co., Peabody, Kan.

160 A. smooth dark land, 5 r. house, large barn, crib, etc., well, cistern, shade, 15 a. blue grass, remainder cultivation, R. F. D. and telephone, close to good school, 4 1/2 ml. town. Price \$61.00 per acre. Terms on \$6000.00 if wanted.

Write for new booklet of farm bargains and descriptive information of Ottawa and Franklin county, Kansas, only 58 miles of Kansas City.

Mansfield Land Company, Ottawa, Kansas.

MORTON COUNTY, KAN., LANDS. 320 acres, level, black loam soil, shallow to water. Price \$1400 cash. Investigate. Cecil B. Long, Richfield, Morton Co., Kan.

80 A. 2 1/2 MI. FROM CLIFTON, KAN. All tillable, well improved, all hog tight. No. 1 soil, good neighborhood, good water, best of terms. If interested, write J. H. Harris, Owner, Clifton, Kan.

BROWN COUNTY FARMS of 160 acres each, located near Robinson. One, extra fine improvements, at \$27,000, and one of good improvements at \$27,000; both are extra good bargains; will make good terms on sale. Bigham & Ochiltree, 116 N. 8th Street, St. Joe, Mo.

WE OWN 13,000 ACRES IN FERTILE Pawnee valley, smooth as a floor; best alfalfa and wheat land on earth; five sets of improvements; shallow water; will sell 80 acres or more.

Frizell & Ely, Larned, Kansas.

FRANKLIN COUNTY BARGAINS. 120 a. 3/4 ml. high school, 8 room 2-story house; good barn. 50 a. grass, all tillable, \$75 per a. 80 a. 3 ml. town, all smooth land; 7 room house, barn, plenty fruit, close to school. \$67.50 per acre.

Cassida & Clark, Ottawa, Kansas.

160 A., 3 1/2 MI. OUT. IMP. FAIR. 130 cult., 30 grass, good water, fenced. Second bottom. \$10,500. Mtg. \$4,000, 6%.

Ed A. Davis, Minneapolis, Kan.

Improved Stock Ranch 1280 acres, 6 to 20 feet to water, 4 1/2 miles from Dodge City. 100 acres bottom land. Price \$12 acre. Terms, 1/2 cash.

Wm. Martin & Son, Owners, Dodge City, Kan.

SHERIFF'S SALE Independence, Kan., Sept. 18.

460 a. good farm near Caney, center of gas and oil belt. 80 a. and 380 a. farms, good improvements. Eakes Bros., Caney, Kan.

160 Acres for \$2500 South of Wichita near Kaw, Okla., all good level land, 60 a. in corn; good bldgs. Only \$8500; \$2500 cash, time on bal. Snap. R. M. Mills, Schweiter Bldg., Wichita, Kan.

FOR SALE OR EXCHANGE

TRADES EVERYWHERE. Exchange book free. Bersie Agency, Eldorado, Kan.

LAND, sale or exch. Mo. to Pacific, Dakota to Gulf. Fultz, 311 1/2 N. Main, Hutchinson, Kan.

E. KANSAS farms in Catholic settlements. Exc. Frank Kratzberg, Jr., Greeley, Kan.

IMP. FARMS, some in Catholic settlement. Exc. Severn & Hattick, Williamsburg, Kan.

BEST exchange book in U. S. 1,000 honest trades. Graham Bros., Eldorado, Kan.

LAND and mds for sale or exchange. Co-operative Realty Co., Humansville, Mo.

FARMS and land to exch. for mds. or income property. C. L. Kraft, Little Rock, Ark.

WANTED: Good Central or Eastern Kansas farm for fine 8-room Topeka residence and cash. E. R. Corbin, Topeka, Kan.

HEADQUARTERS for best wheat and alfalfa lands in Kansas; will exchange and assume. Jones Land Co., Sylvia, Kansas.

FARMS AND RANCHES, imp. and unimp., for sale or trade throughout Western Kansas. Eugene Williams, Minneola, Kan.

WRITE FOR LIST of lands we offer to exchange for mds. and income properties. All-Over-Arkansas Land Co., Opposite Union Station, Little Rock, Ark.

WANT MERCHANDISE for a fine farm of three hundred and twenty acres, 1 mile from good town in southeastern Kansas. Address G. Needham, Thayer, Kansas.

TO EXCHANGE for western land, improved farm of 320 acres, 3 1/2 miles from good railroad town in Cowley county. Address H. C. Whalen, 413 Biting Building, Wichita, Kan.

IF YOU WANT to trade or buy, write Young's Realty Co., Howard, Kansas.

90 ACRES FOR SALE OR EXCHANGE. John Deer, Neodesha, Kan.

90 ACRES for exchange for city property. John Deer, Neodesha, Kansas.

2—Rare Bargains—2

Choice level 160 a. farm, \$1 a. cash. Also well imp. alfalfa farm 168 a. Perfect title. Immediate possession, \$50 a. Terms. Western Real Estate Exchange Co., Syracuse, Kan.

Chase County Stock Farm

160 acres 7 1/2 miles from Clements; 70 acres good soil under cultivation; bal. good grazing land, all in one body, fair improvements. Good well, daily mail, telephone. 1 1/2 ml. to school. Fine roads. Price \$5600. \$1500 cash, bal. liberal terms at 6%.

J. E. Bocook & Son, Cottonwood Falls, Kan.

IRRIGATED FARMS

We are offering for sale a limited number of improved irrigated farms on easy terms. Well located, near main line of Santa Fe in Kearny County, Kansas. Water for irrigation from river and pumping plants. Electric current for all power and lighting purposes. Price ranging twenty-five to one hundred dollars per acre. Address

The Garden City Sugar and Land Co. Garden City, Kansas.

Solomon Valley Farm

234 acres in north central Kansas, the great alfalfa, corn and wheat belt, two miles from railroad town, rural route, telephone, county road, electric lights if you want them, all tillable, rich soil, good water, good improvements, large nine room house, school house and church on farm. Priced to sell quick at \$75.00 per acre. One-third cash.

Also 160 acres in Graham County, at \$15.00 per acre, one-fourth cash.

H. J. Hammond, Harlan, Kansas.

Ness County Lands

Good wheat and alfalfa lands at \$15 to \$25 per acre. Fine crops of all kinds in 1914 and better crops in 1915. No better soil in Kansas. Land in adjoining counties on the east \$40 to \$75 per acre. Buy here while land is cheap. Write for price list, county map and literature. No trades.

Floyd & Floyd, Ness City, Kansas.

Sedgwick Co. Land

Half Cash—Half Time at 5%. 160 a. west of Wichita, 3 ml. from Cheney, Kan. 100 a. in cult.; 30 a. in meadow. 30 in pasture. Along the Ninnescah River; does not overflow. All first and second bottom land. This is alfalfa, corn and wheat land. Immediate possession of land to sow wheat or alfalfa this fall. Small house, small barn, good granary, well fenced, abundance of good water; living water in pasture for stock. Owned by an estate and must be divided, that is the reason we are offering it at \$50 an acre, \$4000 cash, \$4000 time at 5% interest. This is a real bargain, come and see.

G. R. Davis, Valley Center, Kan.

FOR SALE OR EXCHANGE

IMPROVED and unimproved farms and ranches for sale or trade. Send for list. Bader & Webster, Junction City, Kan.

NICE smooth 800 a., 5 miles Copeland, Gray Co., Kan. All tillable; best of wheat land. Part in cultivation. \$20.00 a. Good terms. Chas. E. Dye, Preston, Kan.

160 ACRES in north Morton county; black loam soil; all in grass; every foot tillable; \$6 per acre.

L. J. Pettijohn, Dodge City, Kan.

ALFALFA LAND \$55 per acre. 160 acres near Emporia; 7 rooms, large barn, silo, good orchard. Send for list.

T. B. Godsey, Emporia, Kan.

160 A. 4 1/2 ml. Soldier, Kan. All in cultivation; 4 r. house, small barn, good well; land lays good. Price \$12,000, mtg. \$5000 at 6%. Owner will trade equity for stock of mds. 160 a. in Sheridan Co., 50 in cult., bal. grass. 3 1/2 ml. from Guy. \$3200, mtg. \$750; will trade equity for rental property.

N. Rasmus, Wetmore, Kan.

WHEAT AND ALFALFA LANDS. Santa Fe Railroad land. Easy payments. Ellis Thornhill, Halstead, Kansas.

FOR EXCHANGE. 216 acres, half in cult., bal. grass; 4 1/2 ml. of R. R. town in Ottawa Co., Kan. Small bldgs. Price \$12,000. To exchange for land in east central Kansas of same value.

Sewell Land Co., Garnett, Kan.

A MISSOURI BARGAIN. 220 a. 1 1/2 miles good town, 30 a. timber pasture; bal. in cult.; 160 a. fenced hog tight, good 6 room house, barn 36x40, new silo, good wells and spring, close to school. Want farm in central to northwest Kansas. \$125 per acre. Shaeffer Realty Co., Hale, Mo.

Homes in the Ozarks

160, well improved, \$2400. 120, well impr., \$1200. 40 a. well improved, \$600. 4400 acres best unimproved land in state for sale cheap or exchange. Write us for lists and particulars. Ozark Abstract Co., Ava, Mo.

FINE STOCK RANCH

Square section, 8 ml. town in Ness Co. 120 a. in cultivation, bal. fenced pasture, 350 a. smooth alfalfa land, 18 ft. to sheet water. Walnut creek runs through, never dry. 3 room house, stable for 12 horses, cow shed, double frame granary, with driveway; stone chicken house, well, windmill and high tank. Nice young orchard. Several quarters grass land adjoining can be leased. \$8000; terms on \$4000. Send for list.

V. E. West, Ransom, Kan.

MISSOURI

For Sale—Splendid farm 160 a., close in, \$4500. Other farms. R. F. Campbell, Lebanon, Mo.

STOP! LISTEN! 120 acre farm, \$1800. Other farms. McGrath, Mountain View, Mo.

KEBAN & WEGNER, real estate, Lockwood, Mo. Write for information, English or German.

160 A. well imp. Well and spring. 60 a. cult., bal. timber. R. F. D. and phone. \$17.50 a. Terms. J. A. Hunt, Marshfield, Mo.

POOR MAN'S CHANCE—\$5 down, \$5 monthly buys 40 acres good land; near town; some timber, healthy location. Bargain price \$200. Box 425-O, Carthage, Mo.

GOOD LAND at \$12 per acre; close at home in South Missouri. On railroad. Easy terms. 10 acres up. Literature free.

A. Merriam, Ellis & Benton, Kansas City, Kan.

CENTRAL MISSOURI. For farms that will prove profitable and satisfactory, write for list, 100 farms described and priced in Mo.'s best grain and blue grass section. Hamilton & Crenshaw, Box 7, Fulton, Mo.

PLEASANT HOMES IN MISSOURI OZARKS 80 acres, house, barn, spring; only \$700. I own and control 10,000 acres, any size tract. Easy terms, good water, climate unexcelled.

Frank Hays, Ava, Mo.

FOR HEALTH AND WEALTH

COME TO THE OZARKS 160 acres, eight miles from Mountain View, one mile from Arroll, four room house, 45 acres in cultivation, good black land, church and school, R. F. D., good roads. Price \$1600.00. Terms. Other farms, write for list. Thomason Brothers, Mountain View, Mo.

COLORADO

FOR SALE: Fruit tracts and irrigated farms in Northern Colorado. Write me what you want. A. H. Goddard, Loveland, Colorado.

FOR SALE. Desert and homestead entries, improved, under ditch, near R. R. \$10 per a. In Logan Co., Colo. Wm. Tew, Sterling, Colo.

TRUSTEE LAND SALE. Splendid irrigated alfalfa, grain, sugar beet farms cheap to close estate. Crop payment plan if desired.

Horace Davis, Owner, Sterling, Colo.

600 A. all tillable; well impr. 200 a. absolutely sub-irrigated. Creamery on place. Worth \$50 per acre. Price \$15 per a. Liberal terms. Horace Meloy, Cahoon, Colorado.

TWO 160 ACRE farms near Haxtum, Colorado, in the midst of a good farming settlement. Small cash payment, balance like rent. O. P. Morganthaler, 326 State Bank Bldg., Omaha, Neb.

CHOICE WHEAT and corn valley farms in Logan County, Colorado, in the natural alfalfa county, for sale. Small cash payment, balance like rent. Land surrounded by good neighbors, wheat yielding better than 40 bushels. Crop failures unknown.

H. J. Wagner, Sterling, Colo.

IMPROVED FARMS, near Pueblo, alfalfa, hogs, beets. Pay out in 3 years from crops. Bargains for short time. Come and see them. Write for description. These three farms near alf. mill and R. R. 130 acres, \$14,000; 60 acres, \$9,000; 40 acres, \$6,000.

Keen Bros., Pioneers, Pueblo, Colo.

WASHINGTON

240 ACRE improved farm in the famous Palouse Valley, Whitman Co., Wash. This is the sixth county in the U. S. in agricultural production. Crop failure unknown. A big wheat crop raised this year on the place. Fine climate. Well settled country. \$60 per acre. W. L. McElfresh, Osage City, Kan.

CALIFORNIA

PLACER COUNTY, CALIF. Lands, improved and unimproved. For fruit or stock raising. Large or small tracts. Write to W. W. Rodehaver, East Auburn, Calif.

WISCONSIN

80,000 ACRES cut-over lands; good soil; plenty rain; prices right and easy terms to settlers. Write us. Brown Brothers Lumber Co., Rhinelander, Wis.

WISCONSIN FARMERS. We offer you partially improved farms, small house, small clearing, \$30 an a. and upwards. We also will loan you money to buy cows and pigs. Rich soil, good roads, neighbors, schools; near best of markets. Send for free map and price list.

East Land Co., Conrath, Rusk Co., Wis.

OKLAHOMA

FOR INFORMATION about lands and loans write Jordan Land & Loan Co., Pauls Valley, Oklahoma.

F. M. TABLTON & CO., will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma.

CROPS average better here than in Kansas. Improved farms \$25 per acre. Write Southern Realty Co., McAlester, Kan.

350 ACRES, 200 cult., 150 rough timber pasture, imp. Joins station. Good water. \$27.50 a. C. M. Smith, Crowder, Okla.

TENANTS WANTED. Good fertile Northern Oklahoma land to rent to livestock farmers. Special inducements offered to good tenants. Young married men preferred. Address Mgr. Monticello Farm, Caney, Kan.

EXCELLENT stock farm, \$25 per acre. 400 acres, 300 ton cement silo, large two-story barn which will take care of 500 cattle, good residence, outbuildings, etc. 140 acres in cultivation, balance fine meadow from which hay has been cut for 15 years, one-half mile from good town. 500 acres additional, one-half mile from this tract. If interested write Box 256, Poteau, Okla.

HALF PRICE—160 acre farm 1/2 miles from Oakwood, 70 a. in cult., bal. rough prairie pasture, all fenced—best quality dark rich loam, good 4 rm. house, bearing orchard, fine well of pure water. This farm is worth \$4,500 but belongs to a non-resident and is offered for quick sale at \$2,700 with time on \$1,000.

Perry DeFord, Oakwood, Oklahoma

Cheapest GOOD Farm Land in Oklahoma, in McCurtain County. Write for my "War Special." Some real bargains. C. R. O'Neal, Box 75, Idabel, Okla.

Oklahoma Land For Sale Good land in Northeastern Oklahoma; price from \$20.00 to \$35.00 per acre. Write for price list and literature. W. C. Wood, Nowata, Okla.

Big Advance Sure Following this big crop, there is certain to be a sharp advance in the price of farm lands in Oklahoma this fall and winter. It is the time to buy. Buy before the rush commences and get in on the advance. Why not clean up a few hundred or a few thousand dollars profit the next few months? You could not lose and in all probability would gain some easy money. The man who wants a farm for a home can never again buy so cheap. I sell only our own lands so you will have no commissions to pay. Come and see me. Frank Meadows, Hobart, Okla.

ARKANSAS

FOR CHEAP CORN, alfalfa and truck farms write W. L. Perkins, Ashdown, Ark.

WRITE Dowell Land Company for bargains in Arkansas lands. Walnut Ridge, Ark.

260 ACRES, 200 in cult., 100 creek bottom. Good improvements. \$6,000—terms. Owner, Box 66, Ft. Smith, Ark.

120 A. GOOD RIDGE LAND, imp. 20 acres cult.; 10 a. orchard. \$1800, terms. C. L. Kraft, Little Rock, Arkansas.

RICH VALLEY FARMS with all new buildings on most liberal terms ever offered. Valley Park Imp'm't Ass'n, Edwardsville, Ill.

PINKERTON, the Land Man, Green Forest, Carroll Co., Ark. He has the cheap lands for sale. Write for list.

IMPROVED farms in Arkansas Ozarks, 20 acres and up. Healthy climate. No overflow. Rich land. Low prices. Easy terms. David R. Katz, Little Rock, Ark.

STOP PAYING RENT! Own your own home. Cheaper than renting. Our new plan tells you how. Rich, sure crop land, no rocks or swamps. Free Map. Tom Blodgett Land Company, Desk 3, Little Rock, Ark.

IF INTERESTED IN N. E. ARKANSAS farm and timber lands, write for list. F. M. Messer, Walnut Ridge, Ark.

Arkansas 160 acre farm, 40 a. in cultivation; bal. in grass. One 4 room house. 1 1/2 mi. from town. Every acre can be cultivated. \$7.50 acre. Clowdis Land Co., Ashdown, Ark.

U. S. GOVERNMENT LAND FREE In Arkansas; no charge for land; filing fees \$6.00 for 40 acres, \$10 for 80, \$14 for 160. We take you to the land and locate you. Send 50 cents for "Revised Homestead Laws," description of land and state map to A. V. Alexander, Little Rock, Ark.

SOUTH AMERICA. JOIN SYNDICATE forming to secure, colonize and stock half million acres, in Bolivia. Less than 5 cents an acre. Absolute title. Rich soil—fine climate. Highest references. P. O. Box 498, Sawtelle, Calif.

FLORIDA

FREE—The truth about Florida in Florida Highlands Progress, illustrated; 6 months' subscription free. Johnson & Tutt, 838 N. Y. Life Bldg., Kansas City, Mo.

FARM LOANS FARM AND CITY MORTGAGES a specialty. Write us if you wish to borrow. Perkins & Co., Lawrence, Kan.

FARM LOANS, Missouri, Kansas, Oklahoma and Arkansas, low rates, liberal privileges, most favorable terms. No delay. You get all you borrow. The Deming Investment Co., Oswego, Kan. Branch offices: Wichita, Kan.; Oklahoma City, Muskogee, Durant, Okla.; Little Rock, Ark.

N. Kansas and S. Nebraska H. C. Graner, Lancaster, Kan., writes that his crop of spring pigs is doing nicely. The date of his boar and gilt sale is October 20, which is the day before the H. B. Walter sale, at Effingham. He is holding his bred sow sale on February 17. Both sales will be held at the farm and the offerings will both be of the usual superior quality that

Wesley W. Trumbo, Peabody, Kan., has just purchased a sow that has farrowed a litter of eight pigs, by Illustrator I. Mr. Trumbo has a fine lot of fashionably bred Durocs and if you want a handsome young spring boar, write him for particulars.—Advertisement.

A. F. Sieglinger, Peabody, Kan., is offering a number of choice Duroc spring boars and gilts. He has perhaps 20 young boars that are unusually good and will be priced so that any farmer can afford to use one of them. Mr. Sieglinger is not afraid to leave it to the buyer and will refund your money if you are not pleased with one of these young boars. They are not only well bred but quite a few are good enough to head purebred herds. Write him today.—Advertisement.

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WHAT BREEDERS ARE DOING

FRANK HOWARD, Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and West Okla., 614 So. Water St., Wichita, Kan. John W. Johnson, N. Kansas and S. Nebraska, 820 Lincoln St., Topeka, Kan. Ed R. Dorsey, North Missouri, Iowa and Illinois, Cameron, Mo. Jesse R. Johnson, Nebraska, 1937 South 18th St., Lincoln, Neb. C. H. Hay, S. E. Kan., So. Mo. and E. Okla., 4204 Windsor Ave., Kansas City, Mo.

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

Percheron Horses. Sept. 13—John W. Wadill & Son, Brashear, Mo.

Jacks and Jennets. Oct. 15—Geo. Lewis & Son, Stah, Mo. Nov. 15—W. H. Romjue, Atlanta, Mo.

Shorthorn Cattle. Oct. 18—E. E. Carver & Son, Gullford, Mo. Oct. 27—Henry H. Kuper, Humboldt, Neb. Oct. 28—E. E. Dowdy & Son, Hiawatha, Kan.

Holstein Cattle. Nov 17—Mott & Seaborn, Herlington, Kan.

Hereford Cattle. Oct. 25-26—W. I. Bowman & Co., Ness City, Kan.

Poland China Hogs. Sept. 22—L. R. McClarnon, Braddyville, Ia. Sept. 28—J. O. James, Braddyville, Ia. Oct. 5—Henry Fesenmeyer, Clarinda, Ia. Oct. 6—Steven Brown, Shambaugh, Ia., sale at Clarinda.

Oct. 7—Ed. W. Cook, Pattonsburg, Mo. Oct. 15—O. B. Clemenson, Holton, Kan. Oct. 18—E. E. Carver & Son, Gullford, Mo. Oct. 19—Sigel Brown, Reeds, Mo. Oct. 20—A. F. Blinde and Geo. Brown; sale at Tecumseh, Neb.

Oct. 20—H. C. Graner, Lancaster, Kan. Oct. 21—H. B. Walter, Effingham, Kan. Oct. 23—Fred B. Caldwell, Howard, Kan. Oct. 26—Herman Groninger & Sons, Bendona, Kan.

Oct. 27—Fred G. Laptad, Lawrence, Kan. Oct. 27—Albert Smith & Sons, Superior, Neb. Oct. 28—T. E. Durbin, King City, Mo. Oct. 29—J. D. Gurthet, Pattonsburg, Mo. Oct. 30—J. F. Foley, Oronoque, Kan., sale at Norton, Kan.

Nov. 3—Chas. M. Scott, Hiawatha, Kan. Nov. 3—J. L. Griffiths, Riley, Kan. Jan. 18—D. C. Lonergan, Florence, Neb. Jan. 21—A. F. Blinde and Geo. Brown; sale at Auburn, Neb.

Jan. 25—A. J. Swingle, Leonardville, Kan. Feb. 2—Frazer Bros., Waco, Neb. Feb. 3—H. J. Beall and Wisel Bros., Roca, Neb.

Feb. 4—J. A. Godman, Devon, Kan. Feb. 11—S. A. Nelson & Sons, Malcolm, Neb. Feb. 15—K. S. A. C., Manhattan, Kan. Feb. 15—Herman Groninger & Sons, Bendona, Kan.

Feb. 17—H. C. Graner, Lancaster, Kan. Feb. 17—Ed Sheehy, Hume, Mo. Feb. 18—H. B. Walter, Effingham, Kan. Feb. 18—J. H. Harter, Westmoreland, Kan. Feb. 23—F. E. Moore & Sons, Gardner, Kan. Feb. 27—Ben Anderson, Lawrence, Kan. Feb. 29—E. M. Wade, Burlington, Kan.

Spotted Poland China Hogs. Sept. 23—Thos. F. McCall, Carthage, Mo. Oct. 6—H. T. Dickerson, Jameson, Mo. Nov. 2—Alfred Carlson, Cleburne, Kan.

Duroc-Jersey Hogs. Oct. 6—Jones and Miller, Clay Center, Kan. Oct. 19—Geo. Klasmire, Holton, Kan. Oct. 27—Fred G. Laptad, Lawrence, Kan. Nov. 3—Martin Kelley, Verdon, Neb. Nov. 4—E. M. Getchell, Lamont, Kan. Nov. 8—E. N. Farnham, Hope, Kan. Nov. 17—J. U. Howe, Wichita, Kan. Nov. 18—Mott & Sanborn, Herlington, Kan. Feb. 2—Martin Kelly, Verdon, Neb. Jan. 24—Geo. Briggs & Sons, Clay Center, Neb.

Jan. 25—J. C. Boyd, Virginia, Neb. Feb. 11—J. H. Proett & Son, Alexandria, Neb. Feb. 15—K. S. A. C., Manhattan, Kan. Feb. 24—J. M. Layton, Irving, Kan.

Chester White Hogs. Feb. 24—J. M. Layton, Irving, Kan.

S. W. Kansas and W. Oklahoma BY A. B. HUNTER.

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TEXAS

A 16,593 ACRE stock farm, must be sold in a body, 3,000 acres in cultivation, Artesian water. Fifty tenant houses. \$20 an acre. No Trading. W. H. Graham, Cuero, Texas.

18,000 Acres

In the Texas Panhandle near Dalhart, all under fence, ranch improvements, exceptionally well set to grass and everlasting running water, which we can sell cheaper than anything offered in that locality. Write or call on us. THEODOR C. PELTZER INVESTMENT CO. 534 Scarritt Bldg., Kansas City, Mo.

LIVESTOCK AUCTIONEERS. FLOYD CONDRAY, Stockdale, Kansas

R. L. Harriman, Bunceton, Mo. Selling all kinds of pure bred livestock. Address as above

ANIMAL PHOTOGRAPHY and sketching; all kinds of farm animals. Write for prices. Harry Spurling, Taylorville, Ill.

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MULE FOOT HOGS. Two Tried Mule Foot Sows to farrow soon; one that now has a litter of six. Four bred gilts and a yearling boar all jet black, extra well bred. These are for sale at very reasonable prices. E. G. L. HARBOUR, BALDWIN CITY, KAN.

Registered Mule Foot Hogs Large, growthy kind. Some choice stock for sale. Write for prices. Freeland & Hildwine, Marion, Kan.

BERKSHIRES. Hazlewood's Berkshires Spring boars, bred gilts—immune: priced to sell. W. O. HAZLEWOOD, WICHITA, KANS.

High-Class Berkshires Winter and spring pigs of either sex and outstanding boars specialty. Write J. T. BAYER, YATES CENTER, KANSAS

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Winning at the five leading state fairs, Missouri, (inter-state) Iowa, Nebraska, Kansas and Oklahoma where are held the largest swine shows in the world—over 100 Championships, firsts and seconds, including Grand Champion Boar Prize at each show on the 1000-pound DUKE'S BACON.

Herd headers, foundation stock and show yard material our specialty. Sutton Farm, Lawrence, Kans.

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WE SELL WELL IMPROVED FARMS growing big crops, in Central New York, for less money than you pay for raw, inferior land out West. Come now and see for yourself. McBurney & Co., 300 East 42nd St., New York. Or ask McBurney & Co., 708 Fisher Bldg., Chicago, Ill., to mail you free list of New York farms for sale.

350 ACRES; best of land at town, fertile. Immense building, electric lighted. 95 Holstein cattle; many thoroughbred from best strains. 3 horses, 6 mules, ten thousand dollars worth of tools and machinery. Silos 1100 tons capacity; over 3000 hens and chicks. 40 acres corn, hay and grain. Surplus hay yearly average 100 to 150 tons. Nothing lacking on this farm. Write for particulars. \$40,000, \$25,000 cash. Hall's Farm Agency, Owego, Tioga Co., N. Y.

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Western Herd O. I. C. Hogs A splendid herd boar for sale. Also spring boars and gilts in pairs and trios not related. F. C. GOODIN, Russell, Kan.

Choice O. I. C. Pigs at Reduced Prices. Spring pigs, \$12 each; \$25 per pair; \$35 per trio. Bred gilts, \$20 to \$25 each. Have spring boars, no kin to gilts or their pigs. Bred sows \$30 to \$35. Each individual guaranteed to satisfy. F. J. GREINER, BILLINGS, MO.

Pleasant Vale Herd O. I. C. Hogs Tried sows bred for September and October farrow. Fall gilts for sale, open. Also a few fall boars. Spring pigs, both sexes. Chas. N. Snyder, Effingham, Kan.

Kansas Herd Chester White Hogs 50 pigs, both sexes, March and April farrow. Sired by the grand champion at Topeka last season. Eligible to registry in all associations. Write for descriptions and prices. ARTHUR MOSSE, R. F. D. 5, LEAVENWORTH, KS.

Alma Herd "Oh I See" Hogs of Quality A trial will convince you; anything sold from eight weeks on up. All stock shipped C. O. D. on receipt of \$10. Write for price list. HENRY FEHNER, ALMA, MISSOURI

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Duroc-Jersey Bargain Prices 350 spring Wonder and Mo. Climax breeding 20 gilts bred for fall farrow R. T. & W. J. GARRETT, Steele City, Nebraska

Immune Bred Gilts \$25 Each Ten classy fall gilts, bred for September farrow, also bred sows. Large easy feeders, very best of breeding. Fall boars ready for service. JOHN A. REED, LYONS, KANSAS

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DUROC JERSEYS! Johnson Workman, Russell, Kan.

TRUMBO'S DUROCS Choice gilts, bred or open, sired by The Climax, by Climax A, out of the great sow, Doty; also a few fall boars. Spring pigs pairs and trios unrelated, priced reasonable, and satisfaction guaranteed. Wesley W. Trumbo, Peabody, Ks.

Walnut Grove Durocs One herd boar, also several other boars. Spring pigs, either sex; also booking orders for bred sows. The Man with the Guarantee R. C. Watson, Altoona, Kan.

Rice County Herd Durocs U need a boar—better buy him now. 7 fine Sept. boars, sired by Good Enuff's Chief Col. and Oley's Dream. From excellent dams. 80 spring pigs. Every hog immune. Write your wants today. G. M. SHEPHERD, LYONS, KANSAS

Maplewood Duroc - Jerseys For Sale: 20 fall boars by I Kan't Be Beat and 25 March boars by Gelman's Good Enuff by the 1914 grand champion, Good Enuff Again King. Every hog on farm immunized. Mott & Seaborn, Herlington, Kan.

Sieglinger's Durocs Spring boars and gilts, cholera immunized by double treatment. Fashionable breeding. Special prices next 30 days. Satisfaction guaranteed. A. F. Sieglinger, Peabody, Kan.

Boyd's Big Immune Durocs 40 top boars of March farrow, mostly sired by Crimmon Col. and Big Gim. Others by Grand Model Again out of dam by Golden Model 5th. If you want a real herd boar ask about this litter. J. C. BOYD, Virginia, Neb.

BONNIE VIEW STOCK FARM Spring pigs for sale, sired by Tat-A-Walla, Kant's Model Enough and A Critic; also two registered Holstein bulls, six months old. SEARLE & COTTLE, BERRYTON, KANSAS

Hillcrest Farm Durocs 30 October boars and gilts for sale. Also spring pigs, both sexes at weaning time. Popular breeding and popular prices. Give me a trial order. DR. E. N. FARNHAM, HOPE, KAN. (Dickinson Co.)

POLAND CHINAS.

Poland Pigs sired by grand champions and out of prize-winning sows. Same breeding I am fitting for the San Francisco show. W. Z. BAKER, RICH HILL, MISSOURI

SPRINGBROOK POLANDS—D. S. POLLED DURHAMS Young stock for sale; some herd headers. Write for prices. T. M. WILLSON, Lebanon, Kan.

Big Smooth Poland Breeder of 17 years. Long Look and Black Orange head herd. LAMBERT BROS., SMITH CENTER, KAN.

Andrew Kosar, Delphos, Kan. For Sale: One last fall yearling boar, two gilts to farrow in Sept. and Aug.; also March and April pigs, both sexes. No public sales. Address as above

Fairview Poland Chinas For sale: Choice fall boars; fit to head herds. Also select early spring pigs both sexes. All priced to sell. P. L. WARE & SON, Paola, Kansas

Big Type Poland China Boars I am offering big, stretchy spring boar pigs at reasonable prices. Some of the best blood in Mo. Come and see them or write R. F. HOCKADAY, PECULIAR, MISSOURI

Elkmore Farm Poland Chinas Large type blood lines. Herd headed by the thousand pound Elkmore's Jumbo, assisted by O. U. Wonder, by Giant Wonder, by A Wonder. Breeding stock for sale, reasonable. Fred B. Caldwell, Howard, Kan.

Enos Mammoth Polands 3 fall boars; herd headers. 6 of my very best herd sows, bred for early farrow by Mastodon King. 70 spring pigs; best I ever raised, by Orphan Chief and Mastodon King. Size, quality and prices just right. Write today. A. R. ENOS, RAMONA, KANSAS

BIG BONED POLAND CHINAS 100 early spring pigs by Jumbo Boy, Leon King, George Surprise, Ringold King, etc. Also a few bred sows and 2 good herd boars. Guarantee and pedigree accompanies each order. Manchester Bros., Leon, Iowa.

Big Type Poland China Pigs Big husky fellows ready to ship. Pairs or trios not related, sired by Smooth Columbus, Mc. Wonder, Big Wonder and Wonder Chief Farmers prices. Write for guaranteed descriptions. Ed. Sheehy, Hume, Mo.

Original, Big-Spotted Polands Fall gilts bred or open. Tried sows for sale. Spring pigs, either sex. Boar and gilt sale November 2. Alfred Carlson, Cleburne, Kansas

Erhart's Big Type Polands A few choice late fall males sired by Orphan Big Gun and Big Hadley Jr. Also a few late October pigs by the great 1200 pound Robidoux. Am now booking orders for spring pigs by these boars to be shipped in June. Send your order early. Address A. J. Erhart & Sons, Ness City, Kan.

Private Sale 75 big type Poland China boars and gilts of March farrow. Nothing but good ones offered. No public sales. Prices right. Address John Coleman, Denison, Ks. (Jackson County.)

POLLED DURHAMS. Double Standard Polled DURHAMS Six yearling bulls. A number of under yearling bulls, 2 good French draft stallions and some Jacks. C. M. HOWARD, Hammond, Ks.

GALLOWAYS. CAPITAL VIEW GALLOWAYS Bulls from 6 months to 2 years; also a few females of modern and quick maturing type. G. E. Clark, Topeka, Kan.

HEREFORDS. Registered horned and double standard polled Hereford Bulls For Sale Also a few horned heifers. JOHN M. LEWIS, LARNED, KANS.

SHORTHORNS. Shorthorn Bulls For Sale! Six heifers, two-year-olds. Reds and roans. L. M. NOFFSINGER, OSBORNE, KANSAS

Pure Bred Dairy Shorthorns Double Marys (Flatrock Strain) and Rose of Sharon families. Registered Poland Chinas. Breeding stock for sale. Address R. M. ANDERSON, Beloit, Kansas

Shorthorn Bull Fine roan, 14 months old, Pure Scotch. C. E. HILL, Toronto, Kansas

Pearl Herd Shorthorns Valiant 346162 and Marengo's Pearl 391962 in service on herd. Choice early spring bulls by Valiant for sale. Thrifty and good prospects. Scotch and Scotch topped. Correspondence and inspection invited. C. W. TAYLOR KANSAS ABILENE,

has made his herd very popular. Both sales will be advertised in the Farmers Mail and Breeze.—Advertisement.

A. G. Cook, Luray, Kan., offers choice April O. I. C. pigs, both sexes, and a few choice gilts bred for September farrow. Everything immune. Look up Mr. Cook's advertisement in this issue of the Farmers Mail and Breeze.—Advertisement.

Special Prices on Polands. Andrew Kosar, Delphos, Kan., has choice Poland China spring pigs for sale and an unusually good fall boar which he will price right to move him quick. Look up his advertisement in this issue and write him at once. Mr. Kosar's herd is up to date in breeding and the foundation came from leading herds of strictly big type. Mr. Kosar would like to hear from the gentleman in Oklahoma that wrote him on August 7 for prices on Poland Chinas and failed to give his address.—Advertisement.

Scotch Shorthorn Bulls. Dr. P. C. McCall, Irving, Kan., is a Shorthorn breeder advertising in the Marshall county breeders' advertising section. He writes that he has sold the Scotch topped bull he has been advertising. He has for immediate sale two pure Scotch bulls and a Scotch topped heifer. Mr. McCall is also in the market for some heifers. Look up his advertisement which appears regularly in the Marshall county breeders' advertising section in the Farmers Mail and Breeze.—Advertisement.

Groninger's October Poland Sale. Herman Groninger & Son's Banner Herd of Poland Chinas are coming along with their usual splendid development and the indications are that their offering of boars and gilts October 26 will be one of the best they ever made. They have been raising Poland Chinas for over 30 years on this same farm. They write the indications for a corn crop are great and they are looking for a good hog year. Futurity Rexall will weigh at the present time over 600 pounds and has made wonderful development. This firm recently bought from S. F. Reilly, St. Paul, Neb., a September boar that is developing in a very satisfactory manner. He weighs now 350 pounds in very ordinary condition. Remember the date of their boar and gilt sale October 26.—Advertisement.

O. I. C. Pairs and Trios. F. C. Gookin, Russell, Kan., is starting his O. I. C. hog advertisement in this issue of the Farmers Mail and Breeze. Mr. Gookin is well known to readers of this paper because he has been an almost continuous advertiser in it for a number of years. He has shipped hogs to readers of the Farmers Mail and Breeze all over Kansas and Oklahoma and to several other states. His breeding stock has made good wherever shipped and he has an unusually fine lot of spring pigs for sale at present. His herd has been immunized and is in fine condition. He has an unusually good proposition in a herd boar that he will be glad to tell you about. He is through with him and will sell him reasonably. He can furnish pigs in pairs and trios not related. Look up his advertisement which starts in this issue.—Advertisement.

Bonnie View Duroc-Jerseys. Searle & Cottle of Berryton, Kan., owners of the Bonnie View Herd of Duroc-Jersey hogs, are fitting up a show herd for the Big Free State Fair at Topeka, September 13-18. Their show herd this year will include about 25 head and will furnish exhibits for all the classes. This is the strongest collection this firm has fitted for the show and that is saying a great deal when it is remembered that they have for the past number of years won the lion's share of the ribbons wherever they have shown their hogs. Their 2-year-old sows will weigh around 300 pounds and their herd boar, A Critic, is the best individual they have ever used at the head of their herd. Mr. Cottle says A Critic is the smoothest hog he ever saw. The card announcement of this firm in this issue of Farmers Mail and Breeze offers spring pigs for sale. Most of these pigs are sired by A Critic. They also have two registered Holstein bull calves on which they will make special prices. If you want the best in Duroc-Jerseys write Searle & Cottle, Berryton, Kan., and kindly mention the Farmers Mail and Breeze.—Advertisement.

N. Missouri, Iowa and Illinois BY ED. R. DORSEY. H. L. Faulkner of Jamesport, Mo., known all over America as the preserver of the spotted Poland Chinas, is advertising his herd in this paper. Mr. Faulkner is a thorough business man, is interested in a bank, owns two good farms and sells more Poland China hogs according to the records than any other breeder. You will find him square and his prices right. When you write please mention this paper.—Advertisement.

Percheron Dispersion Sale. John W. Waddill & Son of Brashear, Mo., will disperse their entire herd of imported and American bred horses at their Pioneer Stock Farm near Brashear, Monday, September 13. They are including in this sale their stud stallions, brood mares and all young stock. These horses are registered in the Percheron Society of America and are well bred and superb animals. Their mares are regular producers. Their entire offering will please those looking for the best in Percherons. They will also sell a good Shire stallion. Their catalog is ready and will be mailed to anyone interested in the offering. Please mention this paper when writing.—Advertisement.

Nebraska BY JESSE R. JOHNSON. Albert Smith & Sons, the veteran Poland China breeders of Superior, Neb., authorize us to claim October 27 as the date for their big annual fall sale. They will make but one sale this season and will put in the October sale 40 boars, the tops from 55 head and 30 gilts topped from 75.—Advertisement.

Big Immune Duroc Boars. This paper contains the announcement of J. C. Boyd, Duroc-Jersey breeder at Virginia,

DUROC-JERSEYS.

Immuned Durocs! Plenty of spring boars and gilts. Best of breeding. Stock guaranteed. F. J. MOSER, GOFF, KANSAS

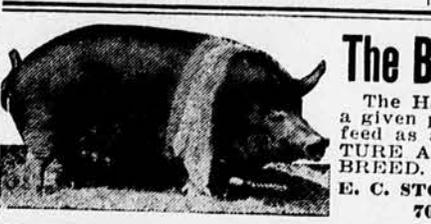
Howe's Durocs Sows and gilts strong in the best blood of the breed and bred to my good herd boars. I am now ready to book orders for early spring pigs, pairs and trios unrelated. Priced where you will buy and be pleased. J. U. HOWE, Route 8, Wichita, Kansas.

DUROCS \$10 Rose Comb Rhode Island Reds BORN CATTLE. Shipping points: Conway, McPherson, Madras. R. W. BALDWIN, CONWAY, KAN.

HAMPSHIRE.

Shaw's Hampshires Boars ready for service. Spring pigs, either sex. Pairs and trios at reduced prices. All nicely belted. Satisfaction guaranteed. WALTER SHAW, R. B. Wichita, Kan.

HAMPSHIRE Best of blood lines, well marked pigs, pairs or trios, with young boar to mate gilts. Breeding stock at all times for sale. Satisfaction guaranteed. S. E. SMITH, LYONS, KANSAS.



The Best Alfalfa Hog in America

The Hampshire hog develops more pounds in a given period than any hog when he has green feed as a part of his ration. FREE LITERATURE AND PROGRESS OF THE HAMPSHIRE BREED. Address E. C. STONE, Secretary, HAMPSHIRE RECORD 703 E. Nebraska Ave., Peoria, Ill.

SOME \$300.00, your pick 19 head \$400.00, your pick 27 head \$500.00. Bargains for summer buyers. Registered Percheron stallions coming 2, 3, 4 and 5 years old. Biggest and most useful moderate-priced selection in the country. Ton type, some medullary Champion PINK and from sound stock. Grandsons twice International Champion PINK and from BESIGUE mares doing farm work. Young registered mares also for sale. Just above Kansas City. The Fred Chandler Percheron Ranch, R. 7, Chariton, Iowa



Faulkner's Original Spotted Polands 300 original spotted Poland China pigs ready for immediate delivery. Highview Stock Farm is the headquarters for the original spotted Poland Chinas and we sell more of this breed than any other firm in the world. We are not the originator but the preserver of the original spotted Polands. Write for particulars. H. L. Faulkner, Box B, Jamesport, Mo.

Marshall Co. Pure Bred Stock Breeders

Nothing but first class animals offered for sale for breeding purposes. It is economy to visit herds located in one locality. For the best in purebred livestock write these breeders or visit their herds.

HEREFORD CATTLE. Willowbrook Farm Herefords Yearling and two-year-old heifers for sale. Also a choice lot of young bulls. B. M. WINTER, IRVING, KANSAS

HEREFORDS—POLANDS Herds established 30 years. 125 Herefords, 90 spring pigs, and 15 bulls, 11 to 15 months old, for sale. S. W. TILLEY, IRVING, KANSAS

Sedlacek Herefords A choice herd bull, Real Mystic 37328 for sale. JOS. F. SEDLACEK, BLUE RAPIDS, KAN.

PRESTON HEREFORDS Herd established in 1881. Come to Marshall county for Herefords. Address F. W. PRESTON, Blue Rapids, Kansas

Choice Two-Year-Old Bred Heifers and a Feb. bull for sale. Also 10 spring bulls. Address, GEO. E. MILLER, Blue Rapids, Kansas

B. E. & A. W. Gibson, Blue Rapids, Kas. Breeders of Hereford cattle. For sale: a good 10 months old bull and some choice young bulls. Address as above.

Home of Parsifal 24th 150 head. Write me about a good herd bull. 25 spring bulls for this fall's trade. C. G. STEELE, BARNES, KANSAS

FIVE YEARLING BULLS FOR SALE! 12 spring bulls for the fall trade. For prices and descriptions address, Tom Wallace, Barnes, Kansas

Wm. Acker's Herefords! About 25 spring bulls for this fall and winter trade. Address WM. ACKER, Vermillion, Ks.

Clear Creek Herefords—Choice last March bulls for fall and winter trade. 30 breeding cows in herd. J. A. SHAUGHNESSY, Axtell, Kansas

HEREFORDS Big and rug-miles out. W. B. Hunt & Son, Blue Rapids, Kas.

DAIRY CATTLE. For Sale—4 Jersey Bulls sired by Lorne, out of St. Lambert bred cows. Ready for service. C. H. MILLS, Waterville, Kansas

2 Yearling Jersey Bulls Grandsons of Silverline's Lad, out of 1100 pound cows. Best out of 50 Farmers prices. Joseph Krasny, Waterville, Ks.

JERSEY BULL By a grandson of Golden Fern's Lad, out of a 500 pound cow. Price \$50. Duroc-Jersey spring pigs for sale. B. N. WELCH, Waterville, Kansas.

HOLSTEINS Cows and heifers for sale. Registered and graded. Address LACKLAND BROS., AXTELL, KANSAS

DUROC-JERSEYS.

BANCROFT'S DUROCS Everything on the farm properly immunized. No Public Sales. For private sale: fall boars, early spring boars and gilts. Reasonable prices on first class stock. D. O. BANCROFT, Osborne, Kans. (Shipping Point Downs, Kans.)

Baby boars \$10 February and March farrow, sired by Bell the Boy, the undefeated first prize winner at Kan. State, Tenn. State, and ever used and a strong sire. A few full gilts bred to Bell the Boy, for \$25. All stock immune. Any hog not satisfactory can be returned by paying express one way. Call and see our hog and poultry farm. Half section fenced hog light with two big farrowing barns, modern equipment and up to date watering system. Bred from prize winners. 20 incubators and 7 colony brooder stoves. 1000 young birds. Also HORNLESS SHORT- R. W. BALDWIN, CONWAY, KAN.

HAMPSHIRE REGISTERED HAMPSHIRE 150 gilts and 4 boars, all ages. Cholera immunized. Description guaranteed. C. E. LOWRY, Oxford, Kan.

Hampshire Hogs The large prolific type; best of breeding. Special prices on young boars. Breeding stock for sale. ROY N. RUNYON, DECATUR, INDIANA

C. T. Drumm & Sons, Longford, Kansas. Spring pigs, Hampshires or Spotted Poland Chinas, either sex, a three-year-old Hereford herd bull. Address above.

HEREFORD CATTLE. FOR SALE—Two Pure Scotch Bulls and a Scotch topped heifer. I am in the market for some heifers worth the money. Dr. P. C. McCall, Irving, Kan.

Eight Bulls reds and roans. 6 to 18 months old. Scotch and Scotch topped. Write for prices. G. F. HART, Summerfield, Ks.

Shorthorns, Polands 1 yr. bull for sale. 1 tried and April boars. A. B. GARRISON & Son, Summerfield, Kansas

10 Shorthorn Bulls 5 yearlings in September. 5 March and April calves. Write for prices. H. A. BERENS, SUMMERFIELD, KANSAS

HAMPSHIRE HOGS. Registered Hampshires Choice Spring pigs. Pairs not related. Tried and guaranteed. F. B. WEMPE, Frankfort, Kansas.

POLAND CHINA HOGS. Albright's Polands For Sale, Jan. 10 boars and gilts. 12 last fall gilts. 34 March and April boars and gilts. A. L. ALBRIGHT, WATERVILLE, KAN.

COPELAND'S POLANDS For Sale: 14 Sept. gilts bred to your order. 40 March and April pigs. Address N. E. COPELAND, Waterville, Kansas

DUROC-JERSEY HOGS. Red Polls, Duroc-Jersey, and O. I. C. hogs. Boars of both breeds at reasonable prices. Bred sow sale. Feb. 24. J. M. LAYTON, IRVING, KAN.

10 September Gilts bred for fall farrow, a few boars and gilts by Illustrators. 40 March and April pigs. A. B. SKADDEN & SON, Frankfort, Kansas

W. J. HARRISON AXTELL, KAN. Red Polled cattle, Duroc-Jerseys and white Leghorns. Breeding stock for sale. Correspondence invited.

Bred Sows and Gilts for Sept. and Oct. farrow. A few last fall boars. A nice lot of March and April pigs. Address HOWELL BROS., HERKIMER, KANS.

FANCY POULTRY. Plymouth Rocks Barred (Thompson strain) and white. Stock for sale. Eggs in season. Address JOHN BYRNE, Axtell, Kansas

AUCTIONEERS. S. B. CLARK, SUMMERFIELD, KANS. AUCTIONEER. Write or phone for dates, address as above.

Jesse Howell, Herkimer, Kan. of Howell Bros., breeders can make you money on your next sale. Write for dates.

F. B. WEMPE, FRANKFORT, KANSAS I specialize in Pure Bred Stock and general farm sales.

DAIRY CATTLE.

HOLSTEINS A few choice registered young bulls for sale at prices that are right. Higginbotham Bros., Roseville, Kansas.

HOLSTEINS Bull calves better than the common run. Two ready to use. N. E. COWLES, TOPEKA, KANSAS.

HOLSTEINS Choice pedigreed young bulls from high producing cows. One ready for use. E. J. Castillo, Independence, Kans.

JERSEYS Car load of heifers fresh and heavy springers. CHAS. H. REDFIELD, Bucklin, Kan.

Holsteins For Sale high bred registered bulls ready for service. N. S. AMSPACKER, JAMESTOWN, KANS.

Holstein Heifers For Sale One to two carloads of high bred two-year-olds, fresh this fall. O. E. Torrey, Towanda, Kan.

QUIVERA PLACE JERSEY CATTLE Duroc-Jerseys. 3 young bulls of choice breeding for sale. Address E. G. MUNSELL, Herington, Kansas.

MAPLEWOOD HOLSTEINS Herd headed by Canary Butter Boy King. You are invited to visit our herd of Holsteins. Write for general information, as to what we have for sale. Mott & Seaborn, Herington, Kansas

Bonnie Brae Holsteins! A few registered cows and heifers; high grade heifers and cows, also registered bulls. IRA ROMIG, Sta. B, TOPEKA, KANSAS

JERSEY COWS AND HEIFERS One car load for sale; fawn colored. Owner wants to close out dairy stock. I also have two bulls 14 months old. R. F. HODGINS, TOPEKA, KANSAS

Sunflower Herd of Holsteins Limited number bred cows and heifers safe in calf to our two great herd sires. A few bull calves. Cattle of quality, no culls. Address F. J. SEARLE, OSKALOOSA, KAN.

Holstein Cattle Herd headed by a grandson of Pontiac Komdyke. Average record of dam and sire's dam, butter 7 days, 29.4 pounds, 30 days 117.3 pounds. Bull calves for sale from extra good producing dams. T. M. EWING, INDEPENDENCE, KANSAS

Maplehurst Guernseys! Choice registered and grade cows and heifers for sale. A registered herd bull for sale or trade. A. P. BURDICK, NORTONVILLE, KANSAS

LINSCOTT JERSEYS Premier Register of Merit Herd, Est. 1878. For sale at farmers prices noted Golden Fern, herd bull of proven quality. Greatest official butter tests. R. J. LINSCOTT, HOLTON, KANSAS

Some of the best Holstein breeding stock can be purchased at the **TREDICO FARM, KINGMAN, KAN.** PRODUCTION, BREEDING, Tuberculin Tested Herd

PURE BRED HOLSTEINS Bull calves all sold. We have 10 or 12 high grade cows and heifers that we will sell. These are all first class. Selling to make room for purebreds.

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FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED BULLS

January and February calves, by Paul 24116 out of Tip 26706 and June 36834. Big, lusty, heavy boned, dark red fellows, of best milking strains and good enough to head any herd. J. A. HAMILTON, GREELEY, KAN.

RED POLLED CATTLE BEST of BLOOD LINES and cattle that will please you. Cows, heifers and young bulls, at attractive prices. I. W. FOULTON, MEDORA, KAN.

Riley County Breeding Farm 75 Red Polls, 45 Percherons

A choice lot of young bulls for sale. 12 of them by a son of Cremo, the 18 times champion. Visitors welcome. Farm near town. Address Ed Nickelson, Owner, Leonardville, Kansas

ABERDEEN-ANGUS.

Aberdeen Angus Cattle Herd headed by Louis of Viewpoint 4th, 18924, half brother to the Champion cow of America. Johnson Workman, Russell, Kan.

ABERDEEN-ANGUS CATTLE

Young stock sired by reliable herd bulls for sale, singly or in car lots. See our herd of cows and show herd at Lawrence or write us. Phone, Bell 8464. Sutton & Porteous, Route 6, Lawrence, Kan.

Neb. Mr. Boyd has for the season's trade 40 March boars, all immune and mostly sired by his good herd boars Crimson Col. and Big Glim, by Goldust Glim. He is a boar of great length and size and is rich in the blood of Crimson Wonder and Jumbo Critic. One litter of 12, sired by Grand Master Again, contains at least one boar of outstanding merit. His dam is an unusually big fine sow, sired by Golden Model 5th. This pig should go to head some good herd. Another one just as good was sired by Big Model, a son of Grand Model. He is out of Model Girl, by Golden Col., he by Chief's Col. Her dam was Crimson Girl, by Crimson Model. Other boars offered are from big mature sows, daughters of Good Enuff Model, Critic Jr. and other boars that have made Duroc history. Mr. Boyd advertises to ship on approval and will make low prices considering the high quality of the boars being sold.—Advertisement.

S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.

Rule Brothers of Ottawa, Kan., start their ad in the auctioneer columns of this issue. The Rule Brothers have had six years' selling experience which has been very successful. In 1914 they had about 150 sales. They have had considerable experience in breeding, both hogs and cattle, and are good judges. They can make good in your sale. Write them for dates and please mention the Farmers Mail and Breeze.—Advertisement.

Young Holstein Bulls.

Shultz, Robinson & Shultz report all their serviceable bulls sold. They now have a few calves by the great young bull Sir Julianna Grace DeKol that are sure dandies and they are certainly a great credit to their sire. Sir Julianna Grace DeKol wins the admiration of all who see him. He is credited with being one of the greatest bulls of his breed that ever came west of the Mississippi. He is a beautiful color and weighed 1975 pounds the day he was 2 years old. For further information see their card, or address Shulthis, Robinson & Shultz of Independence, Kan.—Advertisement.

What His Customers Think.

F. J. Greiner, Billings, Mo. Dear Sir—The pig arrived on January 8, in good shape, and he is a dandy.—J. P. Manley, Clarendon, Tex., Jan. 13. F. J. Greiner, Dear Sir—Your letter and pedigree at hand, received boar O. K. Will say am well pleased with him. I expect 20 or more men saw him as I was taking him out and everyone thought he was fine.—Fred Killough, Quinlan, Okla., Nov. 8. Maple Grove Farm, Dear Sir—I received my O. I. C. pigs all O. K. and am well pleased with them and they are doing fine. Yours truly.—Lewis A. Gnat, Rockport, W. Va. F. J. Greiner, Dear Sir—I received the male pig Monday all O. K. and am well pleased with him.—G. W. Keefover, Keswick, Ia., May 6. The above is only a sample of the many letters received by Mr. Greiner from his many satisfied customers. You will notice that he ships from coast to coast. Those who are looking for good O. I. C.'s should write Mr. Greiner. His ad is in this paper and we will consider it a favor if you mention this paper when you write him.—Advertisement.

Publisher's News Notes

Joliet Oil Tractor Co.

William Jennings Bryan, who used to be secretary of state, drove the "Bates Steel Mule" a few minutes on the opening day of the demonstration. There were those who insisted that this had political significance in that Mr. Bryan was still able to handle the Democratic mule, made of steel though it was. The great apostle of peace and grape-juice had gone to Fremont to do his turn at the Chautauque. He took the opportunity of attending the tractor demonstration. Some enterprising tractor man "saw him first," executed a quick flank movement that would have made General von Hindenburg green-eyed, and before Mr. Bryan knew just what had happened, he was seated at the controlling end of a "Bates Steel Mule" which was as docile in his hands as a cosset lamb. Of course the crowd cheered. There were two of these "Mules" on the grounds. They are manufactured by the Joliet Oil Tractor Co., Joliet, Ill. The traction of the "Bates Steel Mule" is derived from a spring-mounted oscillating crawler. The tractor has a compound lever hitch which forces the crawler into the ground, increasing the traction. It has a one-man control on the end of a steering boom which extends to the seat of any implement which the tractor may be pulling. An air-filter renders the carburetor dust-proof. The Bates is a three-ply machine. It weighs 4,800 pounds and is priced at \$865.—Advertisement.

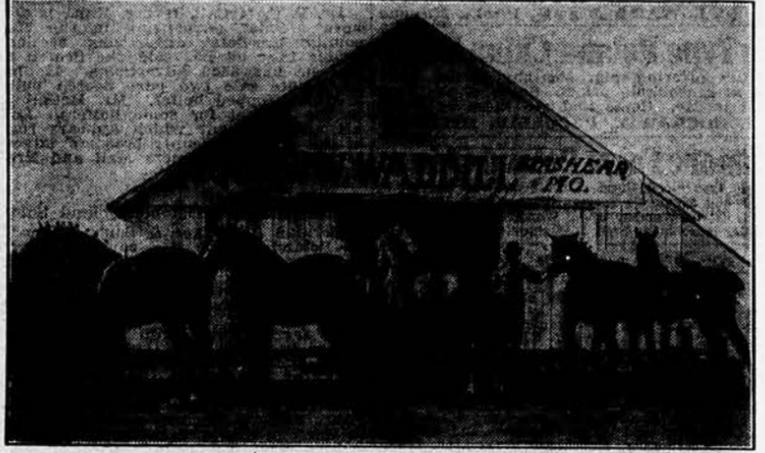
Why Some Crops "Run Out"

Mr. Editor—When a crop is uneven in length or bears different colors and shapes of grains, it has been customary to say that such a crop has run out, and the soil and climate is blamed for it. It would be better to say the crop has been "crossed out." The best plants have been fertilized by plants of different types. The seed is to a plant what an egg is to a hen. A Plymouth Rock hen may produce a half Leghorn chicken and a head of white Kafir may be crossed out with the 20 or more kinds of cane and broomcorn in a field. Unless a man cuts out the inferior plants in his crop before they have blossomed he cannot guarantee the purity of his seed any more than a man who has 10 roosters of different breeds running with a few purebred hens can guarantee the purity of the eggs. "Pollen selection" will do more to increase yields than seed selection. Athol, Kan. Edward Lind.

Pioneer Stock Farm Percheron Dispersion

Brashear, Missouri

Monday, September 13, 1915



A Group of the Waddill Kind.

We will sell at auction our entire herd of imported and American bred Percheron Society of America Percherons. We are selling our stud stallions, stud colts, mares and fillies. All are well bred and superb individuals. We think our Percherons will please you. The mares are regular producers. One outstanding good Shire stallion is included. We will gladly send you a catalogue and further information on receipt of your request. Address

John W. Waddill & Son, Brashear, Mo.

LOOKABAUGH'S SHORTHORNS 300 HEAD FROM WHICH TO SELECT

BULLS, a single herd header or car load, cows and heifers, foundation stock from the very best families and strong in the blood of the most noted sires. Satisfaction guaranteed. Write or wire today when you will come. H. C. LOOKABAUGH, WATONGA, OKLAHOMA



200—Holsteins—200

I am offering two hundred head of bred and unbred Holstein heifers for sale. They are bred up until practically full bloods. They are from the very best milking strains of these famous dairy cattle. If you want HOLSTEINS seemy herd before buying. I can supply you at the right price. Write for prices and descriptions. J. C. Robison, Towanda, Kansas

Kansas State Fair

By the State Board of Agriculture

Hutchinson, Sept. 18-25

The great agricultural and livestock event of the year—the natural meeting place of the breeder and buyer—The Exposition of our diversified industries—Free attractions of the highest class—Something doing all the time—Fine music day and night—Horse show 4 nights—Great racing—good time.

Educational, Inspirational, Recreational

Special trains and extra equipment on all railroads. One freight rate for round trip on all exhibits. 17 general departments—\$40,000 in prizes. Everybody is interested, invited to exhibit and welcomed.

Send for prize catalogue.

H. S. THOMPSON, President.

A. L. SPONSLER, Secretary.

Girod's Holstein Cattle

200 Head From Which to Select

If You Want Registered or High-Grade Holsteins We Can Please You

Cows and heifers safe in calf to bulls strong in the blood of the best milking strains.

3 High Grade Holstein heifers and a registered bull for \$375; others cheaper.

2 Registered cows in milk and fresh this fall with registered bull, \$600.



Registered bulls from calves to 24 months old. The grade females of this herd are most all crossed and re-crossed with pure-bred bulls until practically pure in the great strains of milking Holsteins.

Special and very attractive prices on young heifer calves.

If you want dairy cattle come and let us show you the kind you have been looking for and at prices you can well afford. Tuberculin tested and health certificate with each animal.

Bring your neighbor along, or two or three neighbors and let us fit you out with a carload at carlot prices. Bring your dairy cattle expert. The better judge you are of Holsteins the easier we can deal. These cattle must sell, they are priced to sell; come and get first choice.

Clyde Girod, Towanda, Kan.

Bowman & Co.'s HEREFORDS

100 HEAD At Auction Oct. 25 - 26

Ness City, Kan.

750 Head Purebred

Send Your Name Early For Catalog



Two of the Kind to be Seen on the W. I. Bowman & Co.'s Ranch, Ness City, Kan.

The foundation of this herd came from the best of the breed and were selected for their quality, size, bone and scale. Most all trace to Anxiety 4th, through such great sires as Don Carlos and Bean Brummel or through the best breeding sons of these two great sires. Just because we are located at Ness City instead of farther East, please do not get the idea these cattle are not good enough.

If you are interested we want to tell you more about our Herefords. Mark "X" in the square that interests you so we may give you further information.

- Good Bred Cows
- Extra Bred Cows
- Good Young Cows
- Good Bred Heifers
- Extra Good Bred Heifers
- Young Bulls—Herd Headers
- Car Load or More Wanted

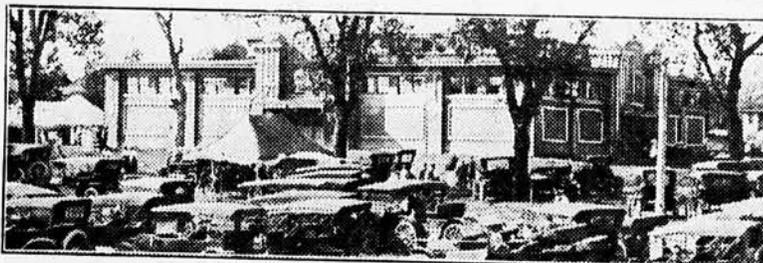
TEAR OFF AND MAIL TODAY

W. I. Bowman & Co., Ness City, Kan.

KANSAS STATE FAIR

ASSOCIATION
SAM'L E. LUX, PRESIDENT AND MANAGER

TOPEKA, SEPT. 13-14-15-16-17



THE BIG FAIR AT TOPEKA IS FREE

The gates of the Kansas State Fair Association at Topeka will stand open September 13, 14, 15, 16 and 17, 1915, for the first Big Free Fair held in the United States.

THE BIG FREE FAIR



THE BIG FREE FAIR

The beautiful eighty-six acre fair ground, all of the twenty-four permanent buildings, and every exhibit will be open free to the public day and night.

The citizens of Topeka and Shawnee county voted a special tax to pay the premiums of the Big Free Fair. The Kansas Legislature made a direct appropriation.

Topeka bids every Kansan welcome to the Capital City. Rooms in private homes are listed. Information bureaus, rest rooms, nurseries and play grounds provided.

PREMIUMS PAID BY THE CITY, COUNTY AND STATE



\$45,000 IN PREMIUMS, PURSES AND PRIZES

Barns and pens for 2,100 head of show stock. Entire building devoted to auto show. Forty thousand square feet of displays in Agricultural Hall. Individual, Grange and County agricultural exhibits. Beautiful art and textile displays. Big culinary section. Model Kitchen. Domestic Science, Child Hygiene and Home Handicraft demonstrations daily. Model nursery and play ground. Sunday School exhibit.

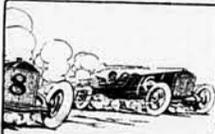
400 Entries in Trotting and Pacing—Running Races Daily



Four days' racing, Monday, Tuesday, Wednesday and Thursday, on the fastest half-mile track in the West. Twelfth Kansas Derby Tuesday. Thousand dollar trotting and pacing stakes. Largest number of entries of any race meet in the West.



Thrilling Automobile Races — Daring Monoplane Flights



Professional speed kings and their famous world record breaking racing cars will compete for \$3,000 purses at the Big Free Fair Friday afternoon. Military monoplane flights over fair grounds in full view of the crowds daily. Demonstration of aerial scouting.



Exciting Polo Played on Ponies — Beautiful Horse Show



Harness and high school horses, fancy hitched, elaborate turnout, coaches, four-in-hands from the finest private stables that win at Boston, New York, Chicago, St. Louis, Detroit. One thousand dollar saddle horse championship.



Mammoth Live Stock Exhibits—Fifteen Acres of Machinery
Tractor Demonstrations — Actual Plowing of 100 Acres
BIG DAIRY SHOW—BUTTER FAT CONTEST—THE
100 PER CENT DAIRY HERD



THE GREAT LIVE STOCK, AGRICULTURAL AND INDUSTRIAL EXPOSITION
FAIR GROUNDS 7 BLOCKS FROM STATE CAPITOL

Every day a big day. Three Concert Bands. Big Wild West Show. Original Georgia Minstrels. Motordrome. Special Shetland Pony Show. Giant Carousel. High-class Vaudeville and Big Feature Acts. Grounds and buildings brilliantly illuminated by electricity.

SPECIAL SERVICE ON ALL RAILROADS
The First Big Free Fair To Be Held in the United States

A Whole House or Any Part of a House at WHOLESALE!

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Plan No. 170



Buy Your New Home Wholesale Direct from Gordon-Van Tine!

Send for our "Quality Home" Plan Book. The most practical plan book ever published. No theory. Every plan built hundreds of times. Many in every State; some near you. Houses full of home comfort and convenience ideas. Shows at least one plan which will exactly meet your needs. All at wholesale prices! Illustrates and gives exact cost of this and 150 other desirable homes. All the materials for

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Cut out waste! Save money when you build your new house or remodel the old one. Investigate Gordon-Van Tine "direct-to-consumer" methods. Get our catalog of 5000 Bargains in Building Materials. Everything for building. All at wholesale. We pay no salesmen—sell entirely through catalog and have no big selling expense. Thus, our prices are rock-bottom. Quality highest! Three strong banks vouch for us. Over 100,000 enthusiastic home-owners and 10,000 contractors, builders and carpenters buy regularly from us. Customers everywhere—many near you. Local references if desired. Save 25% to 50% on your material. Freight costs very little. Prompt shipment on large or small orders. It makes no difference where you live.

Order These Specimen Bargains Right From This Advertisement!

Builders' Hardware
Cylinder front door lock set, illustrated, dull brass or antique copper finish on genuine bronze \$5.50. Other similar styles at \$1.50 and \$2.10. Everything you need: Hinges, Locks, Door Sets, Window Sets, etc.—and all at about the cost prices at which dealers themselves buy. See pages 113 to 144 of Catalog. Profusely illustrated. Shows everything.

Jap-A-Top Shingles and Roll Roofing
One of the most popular and fastest-selling brands of roofing and shingles on the market. Beautiful, durable. Surfaced with genuine slate. Guaranteed for 15 years. Two colors—Red and Grayish Green. Diamond Point Edge (looks like shingles) per roll of 108 sq. ft., \$3.00. Straight Edge per roll of 108 sq. ft., \$2.25. SHINGLES—Price per sq. of 424 Shingles, \$4.75. See Catalog, pages 117 to 125.

Front Doors
Craftsman A (front) 2 ft. 8 in. x 6 ft. 8 in., \$19.95. Majestic (door behind) 2 ft. 8 in. x 6 ft. 8 in., \$19.95. Each 1 1/2 in. thick. Polished beveled plate glass. Best oak with built-up core. Architecturally correct designs. We carry enormous front door stock. See catalog pages 80 to 81.

Wall Board
Comes in sheets ready to lay. Goes on dry. Cold-proof. Beats plaster; costs less to lay. "Quality" Wall Board, 1,000 sq. ft. \$21.00. For special offers see Catalog pages 104 to 107.

Stair Work
A complete flight of stairs as low as \$23.93. Materials for all kinds of stair work in stock. Prompt delivery. Catalog exposes secrets of stair building; explains how to build your own. Services of our stair expert at your disposal free. See catalog pages 70 to 73.

Barns and Silos
These buildings are 90% lumber. It is reasonable that America's largest lumber house can give you lowest prices. Complete barns \$200 up. See pages 7 of Plan Book. Also write for our new Silo circular. All hoops adjusted from ground. No guy wires. Holds more. Wholesale prices.

Quality Varnishes
"Quality" Brand Floor Varnish won't scratch or mar white, qts. 60c; gals. \$1.75; 5 gals. \$8.50. Outside Spar Varnish for surfaces exposed to weather, qts. 60c; gals. \$2.50. Flat Varnishes giving the appearance of a rubbed surface, qts. 60c; gals. \$2.25. For full list see catalog pages 94 to 103.

Thin Oak Flooring
Put down a beautiful hardwood floor—you can lay it yourself, in double-quick time. Costs less than carpet. We recommend our special Thin Oak Flooring. See catalog pages 72-73. Price per 100 Lineal Feet 80c.

"Quality" Paints
Quality House Paint, per gallon can, \$1.22. In 25 or 50 gal. barrels, price per gallon, \$1.10. Furnished in all shades and colors. Quality Barn Paint, per gallon, 80c. Paint Brushes, each, 12c. Paint Brushes, oval, each 25c. See Catalog pages 94 to 107.

Save Big Money on Lumber
Everything in lumber ready for immediate delivery to you anywhere. In car lots, we can save you \$100 to \$300 a car. All graded in accordance with Rules of the Lumbermen's Association. Buy at wholesale; take the dealer's profits for yourself. Satisfaction guaranteed. Our immense yards connect direct with 26 lines of railway. We ship lumber everywhere. See Special Lumber Insert in Catalog Page 80.

Storm Doors
As illustrated, from 2 ft. 6 in. x 6 ft. 6 in. to 3 ft. x 7 ft. at \$2.05 to \$2.50, glazed and painted, 1 1/2 in. thick; other styles \$1.48 to \$3.40. Extra sizes to order. See catalog page 80.

Inside Doors
One and two panel fir doors—best quality. Beautiful grain takes stain, oil finish or paint equally well. Prices \$1.55 to \$4.00 according to size. See catalog pages 20 to 24.

Fancy Windows
Plain or fancy windows, in sizes. Check rail windows, 76c up. Plain rail glass, 76c up. Transoms, 88c each. See catalog pages 44 to 46.

Storm Sash
An enormous stock at bargain prices. We save you about half. All standard sizes. Special sizes to order. Made exclusively from selected white Pine. Prices 68c to \$3.55 according to size. See catalog pages 31-3.



Now is the Cheapest Time in Ten Years to Remodel. Fix up The Old Home

These are drawn from actual photographs. They show how an old farm-house was remodeled into a fine colonial residence through the assistance of our Plan Department. A new porch was added. A new front door with side lights was set in. New dormer windows in the roof converted the attic into a fine big room. And the entire house was given two coats of "Quality" Paint. That was all that was done to make this wonderful change in appearance.

To Do Over This Old House Cost Only \$124.35. Do Yours Over

The total material cost was only \$124.35! Gordon-Van Tine supplied everything at "mill-direct-to user" prices. That's why the figure was so small. Let us help you to remodel your house and show you how little it costs. "Guaranteed Right Estimates" Free! It is astonishing how much you can do for a moderate sum when you can buy at our wholesale prices. Send today for a free copy of our big 156 page illustrated catalog. Don't think of remodeling until you have seen our prices in this great money saving book. A special Builders' Encyclopedia. It saves for thousands. Make it save for you.

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5787 Case Street Davenport, Iowa

Send For This Book of 5,000 Building Bargains—FREE
This book is a price-maker for over 14,000 contractors and carpenters! A money-saver for over 100,000 regular, satisfied customers throughout America! Packed from cover to cover with bargains. Everything you need for building or remodeling. Lumber, Millwork, Builders' Hardware, Glass, Paints, Roofing, Wall Board, Doors, Windows, Screens, Porches, Mouldings, Storm Sash, Stair Work, Flooring, Shingles, Nails, Enamels, Varnishes, and over 5000 other tremendous money savers. Costs you nothing to get this great book. Yours free for the asking.

Send the MATERIAL CATALOG Coupon! with your name and address and we will send your copy to you at once.

GORDON-VAN TINE CO. 5787 Case St., Davenport, Iowa

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BUILDING MATERIAL { Lumber, Millwork, Hardware, Paint, etc. } "QUALITY HOME" PLAN BOOK

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Address.....
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In Business Half a Century! Everything Direct to you at Wholesale Prices. The Biggest Catalog Building Material concern in the World. Experienced in Prompt Service, Expert Buying and Square Dealing.