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# The FARMERS MAIL AND BREEZE

Agricultural Reading Room

Vol. 45.

November 6, 1915

No. 45.

## The Capper Pig Club Needs a Boy in Every County in Kansas

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Read the rules on Page 7. You'll have to hurry. Get out today; qualify for the Capper Pig Club, and you've made a place for yourself in business.



# JUST ABOUT FARMING

**S**UDAN grass is definitely established as a leading crop in Kansas. Excellent yields have been obtained, and plenty of seed will be available next year at a reasonable price. In the last two seasons the crop has established its high yielding ability under both extremely wet and very dry conditions—it has produced good profits both places. There will be a big acreage next season.

## Kafir

A great deal of the kafir did not mature this year. There probably will be a heavy demand for seed from some counties. In speaking of the conditions in Harvey county, F. P. Lane, the county agent, recently said:

"A great many fields of kafir and feterita in this county did not mature. Farmers who have fields mature enough for seed should save a generous supply. There is sure to be a big demand for seed for next year's planting."

## Soils

Professor Alfred Vivian, head of the department of agricultural chemistry of Ohio State University, defines a perfect soil as "one which contains the ingredients in perfect proportions; sand, to enable it to absorb air and moisture in proper amounts and to render it warm and friable; clay, to keep it cool, and prevent a too rapid leaching or evaporation of water; lime, to assist in the decay of vegetable matter, and organic matter to retain the best amount of moisture and to supply material for the various chemical processes continually going on in good soils."

## Blackjacks

The blackjack timber on the hills of southeastern Kansas is a considerable drag on the agriculture of the state. Most of this land is not producing a proper profit, and it never will do so until the blackjacks, which are among the weeds of the timber world, are removed. This is not easy, but it can be done, and it is a form of reclamation which is much needed. C. A. Scott of Manhattan, the Kansas state forester has given more attention to a study of this problem than any other man, probably, and every farmer who expects to fight this pest will find it worth while to write to him about it.

## Ears

It is a matter of common observation that there is a great variation in the yielding power of ears of corn—some produce stalks which are much more productive than others. This has been proved many times quite definitely in experiment station work. It was shown this season on the W. E. Hays farm in Miami county. Mr. Hays had 15 rows of corn planted in an ear-to-the-row test. The highest yielding row, 465 feet long, planted from one ear, produced 3.4 bushels, while the row yielding the least gave only 1.1 bushels. The yields from the other 13 rows varied between these two.

This indicates the basis for a high yielding strain of corn. Make a test of this kind yourself next year, to help in getting good seed corn. You will be amazed at the variation in the yields of the different rows.

## Silos

The large increase in the number of silos in Kansas has added greatly to the troubles at filling time. There are 10,000 silos in the state, which number is increasing at an average rate of eight a day, and this has created a great demand for men, teams and machinery in filling them. In a great many communities this problem is solved by co-operation; this is especially true farther east. In telling of a system used in a community in Indiana, the editor of the Farmers Guide recently said:

"The silo filling 'ring' is not as common as the threshing 'ring,' although one has just as much of a place in our modern farm economy as the other. It was our pleasure recently to observe an

organization of this kind at work. It was in our home county, in Huntington township. The Daisy Silo ring is the official name of the organization, and it has 10 members. One man acts as captain, and he assigns each member to certain duties for the season. They own an engine, cutter and two binders. The binders are equipped with elevators which carry the corn up to the wagon, thus doing away with the heavy work of lifting the corn from the ground by hand. The charge to members for cutting the corn and elevating it to the wagon is \$1.50 an acre, the member supplying the twine. For the engine and cutter the charge is \$2.50 an hour. The 10 silos in the ring will average about 60 tons each, and when everything is running smoothly three silos can be filled in two days.

"When the equipment of the ring is hired to non-members the charges are \$2 an acre for binding and elevating the corn or \$1.50 an acre for binding and leaving it on the ground. For the engine and cutter the charge is \$2.50 an hour, the same as for the members.

"Co-operation of this kind among the farmers of a neighborhood is to be commended. It not only makes it possible to carry on the work without hiring extra hands but also helps to produce a social spirit that works for good to the entire community."

## Irrigation

Considerable care is necessary with the water obtained for irrigation by pumping, especially if the lift is high. It is evident that a careful study must be made in the future of the systems of applying water along with the study of the efficiency of the machinery. For example, so far it has not been settled to the satisfaction of all irrigation farmers in western Kansas just what the best method of applying water to alfalfa is; most farmers give one irrigation to the crop, but J. W. Lough of Scott City, state irrigation commissioner, and some of the other leading farmers, give two smaller applications. In speaking of the use of water, H. B. Walker of Manhattan, state irrigation engineer, recently said:

"Economy in water to the irrigator is equivalent to economy in production. For him proper soil culture is cheaper and less dangerous than the liberal use of water. It is apparent then that the successful irrigator must be a good dry farmer. The dry farmer who depends upon the natural precipitation must greatly concern himself with the water cost of crops."

Careful studies of water application and soil cultivation under Kansas conditions are now being carried on by the branch experiment stations, and by the leading farmers, such as Mr. Lough, E. J. Guilbert of Wallace, the Garden City Sugar and Land company and G. W. Atwood of Garden City. According to E. E. Frizzell of Larned, president of the Kansas State Irrigation congress for 1916, these subjects will be featured next year in the meetings of this organization.

## Silage

There has been a great variation over the state in the silage yields. A feature of this result has been the excellent showing which has been made by the Kansas Orange sorghum in eastern Kansas. For example, here are the results of some of the co-operative work carried on this year by O. C. Hagens of Paola, the county agent of Miami county. On the farm owned by Robert Allen, in Osage township, Miami county, corn averaged 9.5 tons of silage an acre, kafir 10.3 tons, and Kansas Orange sorghum 26.9 tons. On the farm of E. W. Christie in Stanton township the kafir averaged 10 tons and the Kansas Orange sorghum 23.2 tons. Similar results were obtained this year on hundreds of farms in eastern Kansas. This sorghum has as high a feeding value as kafir or corn, and it should be much more extensively grown in eastern Kansas. It has been bred for many years by the department of agronomy of the Kansas State Agricultural college, and brought up to its present remarkable yielding power.

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are doing it. Wherever accurate reports are kept, the net profit per acre on peanuts averages well above \$50 per acre. J. T. Walker, near Jonesboro, Ark., made 45 bu. of threshed peanuts and 27 bales of peanut hay per acre, bringing \$1 per bu. and \$1 per bale. It cost him only \$17 for planting, growing, threshing and harvest, leaving \$35 per acre net. J. M. Story got \$68 per acre net. Land like Mr. Story's, costs only \$35 to \$50 per acre now.

It's the character of the land and climate that makes peanuts so profitable a crop down there; and the same conditions make other crops extra profitable. Take ribbon cane, for instance: J. F. Chenault, near Redwater, Tex., makes over 400 gallons of syrup per acre from ribbon cane, netting him \$200 profit per acre.

Frank Federer came south to Brinkley, Ark., to escape the long, raw springs of Wisconsin; he says he can raise as much there on \$15 land as he did in Wisconsin on \$200 land—because the soil is just as rich, the crop season is much longer and short winters cut every expense.

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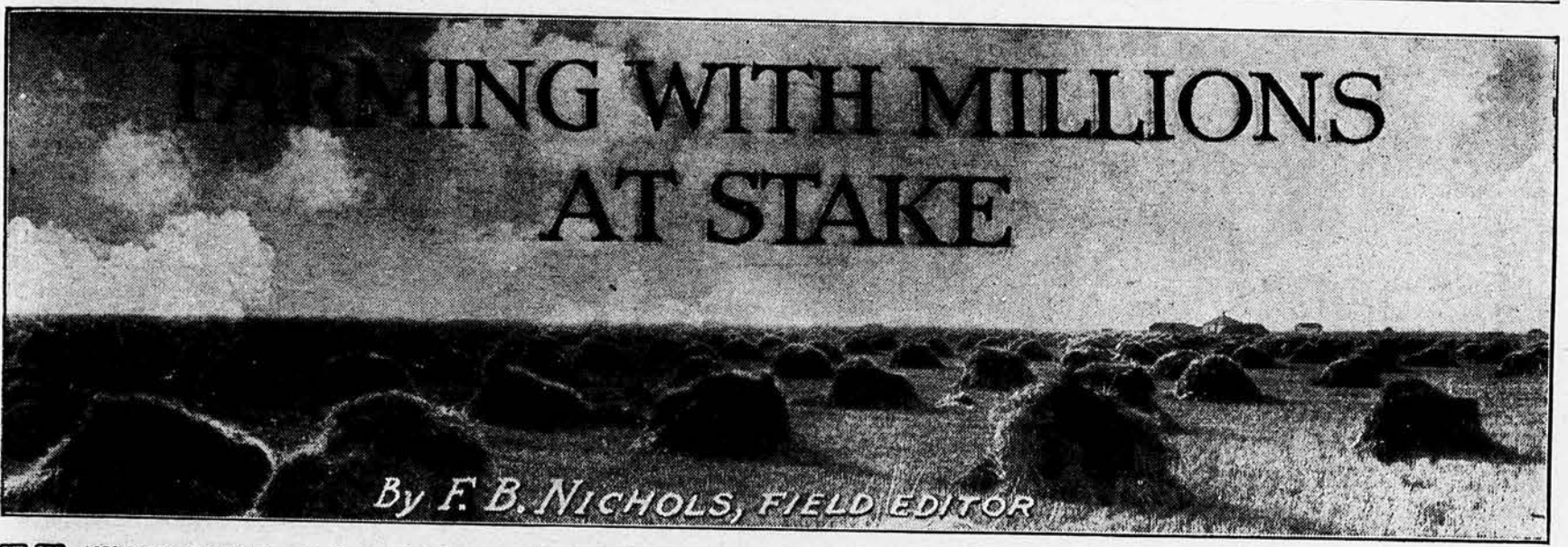
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## FARMING WITH MILLIONS AT STAKE

By F. B. NICHOLS, FIELD EDITOR

**K**ANSAS IS KNOWN as the home of farmers who own the land they till, and who have average size places. It also has a few larger farms, some of which are making a success, and doing development work which, as examples will benefit the smaller farmers. As a rule such places are managed efficiently, by specialists who know their work well, and the methods they have developed deserve careful study by all producers. Among these is the Garden City Sugar and Land company of Garden City.

This company is operating on a vast scale. It is farming about 25,000 acres, of which 18,000 acres is under irrigation, and actually in crops. Its equipment includes a sugar factory worth more than a million dollars; an artificial lake 6 miles long and 1 1/2 miles wide, which covers more than 3,000 acres, and hundreds of miles of irrigation canals. The company grew 6,500 acres of alfalfa this year; 4,200 acres of sugar beets; 3,300 acres of wheat; 1,500 acres of oats and 1,000 acres of barley. The remainder of the acreage was planted to kafir and other feed crops. The livestock consists of two excellent dairy herds, about 1,500 cattle and 3,000 hogs. The investment is 7 1/2 million dollars.

The farm is run on strictly a livestock basis. The purpose is to grow the feed crops mostly, and to produce all of the feed on the place that the livestock requires. The big planting of alfalfa will be increased to about 7,500 acres while the acreage of the grain crops will be still further reduced. The yields with the grain crops usually are satisfactory, however, as the irrigation prevents a loss from drouth. Sugar beets will be grown extensively until the tariff is removed next year, and then the planting of this crop will be discontinued. In addition to the crop which the company itself grows it buys almost all of the beets in the state.

A great deal of pioneering has been done by this company in its work with irrigation. The principles which it has demonstrated are well adapted to the other sections, on both the shallow and the high lifts. In addition to the 31,000 acre-feet of water which it stores in the reservoir, it has several big ditches which lead directly from the Arkansas River, which can be used for some of the irrigation on the lower lands.

Perhaps the most important work, however, has been with the pumping plants. The company now has 18 plants in the valley, where the lift is low, and 12 plants on the higher land, where it is from 150 to 165 feet. These plants cost from \$600 to \$8,000. All are operated by electricity from a central power plant. The generators can develop 3,300 horsepower, and they are placed in the power room of the sugar factory. Power also is sold to many farmers in that section.

The feature of this work in irrigation has been the extensive development on the uplands, with the high lifts. This attracted special interest from the members of the Kansas State Irrigation congress, when they visited the place the third week in October. In addition to the 12 high lift plants already in operation several more will be installed in the next year, according to F. A. Gillespie, secretary of the company. More than this, the company recently has sold a great deal of land in the valley, and bought land on the uplands. An electric railroad 15 miles long has been constructed out on the uplands, through the center of the farm, to help

in hauling farm products and thus reduce this cost. Excellent yields have been produced with all crops on the uplands when grown under irrigation, especially with sugar beets. The average yield of beets on all the fields of the company is 14 tons; the average for the district is 11 tons. The company is paying \$5.50 a ton for beets this year.

The most interesting thing about the huge place is not the sugar beets, however; it is the intelligent effort made along livestock lines. Mr. Gillespie believes the agricultural future of western Kansas must be based on livestock and forage crops, and therefore the company is expecting to operate on this basis. Alfalfa is to supply the protein and excellent yields can be produced under irrigation.

Both the cattle and the hogs are finished on the grain crops of that section; as a rule corn is not fed in either case. The grain comes from the drouth resistant crops of that section, such as milo and kafir. Good results are obtained in fattening the animals on these crops.

One of the most interesting features of the work of this company is the excellent plan of organization already developed. Few manufacturing establishments are more complex than this one. At the head of the organization is the general manager who is the final boss, and incidentally responsible to the owners for the task of making the investment yield a profit. Directly under the general manager is the superintendent of the sugar factory, the superintendent of the land department and the farm superintendent. Under the farm superintendent are six district field superintendents, and working under these men are the foremen. The foremen as a rule are in charge of 640 acres or more.

Exact cost records are kept on every operation. Time cards showing what every man did during the

day are turned in to the office at night by the foremen. These costs are carefully compiled in the office. This makes it possible to tell the exact cost of every operation, of every crop, and the variation in the cost of the same crop on different fields. In other words, nothing is left to guesswork on this place. The exact production cost of everything is known.

Every effort is made to keep the organization together, and to provide advancement for the men who deserve it. There is considerable opportunity for this, for the company is so large that it provides some important places at the top. About 350 men are employed on the farm and more than 400 in the factory. The length of the run in the sugar factory depends largely on the crop, and usually this is over before spring. This makes the size of the force vary somewhat, although a good many men are at work in the factory all the time. With the farm, however, there is little variation, except that extra hands are hired a part of the time to help in weeding the beets. The livestock system provides plenty of work to keep the ordinary force of 350 men busy in the winter.

Some interesting comparisons have been made by the company in determining whether it is better to hire all the help and do the farming directly, or to operate through tenants. After a great deal of experience with both systems the tenant plan has been abandoned. The relative yields of beets—14 tons on the company-operated places and 11 tons for the district—offers some reason for this decision. Three tons of beets this year, let it be recorded, are worth \$16.50. The idea is that when the company is operating its own force it can run its farming operations just as its specialists think best, while this cannot be done to so great an extent when tenants must be considered. There are a few tenants working yet, and as it is the policy of the company to protect the members of its organization they will be retained while they wish to stay and do good work, but no new tenants will be added.

It has been the policy of the company to cooperate with the farmers of that section whenever it is possible. It sells water, transportation, power, feed and service of many kinds, and it buys sugar beets, feed crops and livestock. More than this, by reason of its vast capital it has been able to do things in development work which would not have been possible for an ordinary company or man. Thus it has supplied the inspiration for some of the excellent work in irrigation and better farming now being done in western Kansas.

If the tariff on sugar is retained, so the beet growing business can be continued, it will benefit the company and the farmers of that section greatly. This crop can be produced at a profit by the men who understand it, and it has advantages in other ways. For one thing, sugar beets are an excellent crop to grow before alfalfa. When this legume is planted on a field which has been in sugar beets the chance of getting a stand is very good.

The property is a most interesting example of the results to be obtained in farming on a big scale. In running the business the principal aim has been to get the greatest amount of efficiency possible in all departments. Especially must credit be given the company for some excellent pioneering with irrigation, which will stand in the agricultural history of the western third of Kansas for all time.



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## Passing Comment--By T. A. McNeal

### Robbing the Soil

I was talking the other day with a hard working farmer. He is a renter, and such a good one that his land owner is glad to have him keep the place indefinitely. So his opinion is worth something from the standpoint both of the owner and the renter.

"Our system of farming," said this man, "is robbing the land of its fertility so that within a few years much of the land of Kansas will not produce enough to make it profitable for either the renter or the owner. In fact a great many farms are already so impoverished that they cannot be farmed with profit."

It occurs to me that this is rather a startling statement and I have not a doubt that it is true. Here and there is a farmer who is not only keeping up the fertility of his land, he is making it even richer, but he is the exception and not the rule.

The history of all new countries has been the same. When the farmers began to till the virgin soil it seemed so rich that it never could be exhausted. So the same crop was put in year after year. Nothing in the way of fertilizer was returned to the soil. The land often was plowed when it was not in fit condition for cultivation. If it was farmed in wheat the straw was burned in order to get it out of the way for the next sowing.

After a while the farmer began to notice that his yields were growing less, but he kept up his wasteful system of soil robbing just the same until finally his fields became so impoverished that he could not raise half of a normal crop.

Several European countries passed through the same experience. At one time it looked as if the soil of Germany was practically exhausted. There was much distress and poverty among the farmers. In order to better their condition large numbers of them were emigrating to the United States. Then the government took a hand. The rulers saw that unless something could be done to make farmers more prosperous Germany would be ruined. With characteristic thoroughness the scientists took hold of the situation and began the study of the soil and the means by which its fertility might be restored. The result of a generation of scientific experiment was little short of miraculous.

Kansas raised last year the banner wheat crop of all its history. We did a deal of blowing about it and yet for years the once seemingly exhausted fields of Germany have been producing an average acre yield of wheat greater than our yield of last year. With the same sort of careful tillage as has been practiced in Germany for a generation, Kansas could produce nearly every year crops that would be the wonder of the world.

Germany has not been alone in this matter of scientific cultivation. The farmers of France have used as much intelligence and with as good results. A hundred and twenty-five years ago the peasants of France were among the most poverty stricken in the world but when the disastrous war of 1870 ended, the peasant farmers of France were able in a time so short that it astonished not only their conquerors but the whole world, to pay the staggering indemnity which Bismarck supposed they never could pay.

Denmark used to be a sterile land. Landowners and tenants were bankrupt. Then co-operation and scientific agriculture were adopted in Denmark. It is said that the Danes are among the most prosperous people today not only in Europe but in the world.

We know that with the right sort of cultivation and intelligent fertilization Kansas could be made to produce twice or three times as much as is produced under the present system and at the same time the land would be growing richer instead of poorer. The trouble with Kansas farmers generally is that they undertake to cultivate too much ground. The result is that the yield is not what it ought to be and the cost of every bushel of grain and every beef steer is much more than it ought to be.

How many Kansas farmers know how much it costs to raise a bushel of grain, or a beef steer ready for the market? I was reared on a farm and I am certain that we never knew what it cost us to carry on such operations. We never knew whether one of the milk cows was earning her way or losing money for the owner. We never knew when we turned off a bunch of hogs whether they really made a profit. And yet we fancied that we

showed rather more gumption than our neighbors.

It requires more brains and more careful, intelligent calculation to be a real good farmer than is required to make a success in most other lines of business. The banker looks wise and assumes that he is endowed with superior financial acumen. As a matter of fact it doesn't require anywhere nearly so much sense to be a successful banker as to be a successful farmer. All the successful banker has to do is to take other peoples' money and lend it out for them and see to it that the borrower gives ample security. He has only one problem while the successful farmer has a dozen.

The successful farmer must be acquainted with his soil and know to what it is best adapted. On a single quarter section he may have half a dozen kinds of soil. He must understand the cultivation of every kind of crop he undertakes to grow. He must understand farm animals. He must be able to estimate correctly how much and what kind of feed given to an animal will produce the greatest increase within a given time and at the least expense. He ought to have the financial information and judgment of the best banker; the constructive ability of a successful manufacturer; the expert knowledge of a practical scientist, all combined in one head.

A successful farmer with a few months' practice in all probability would make a successful banker but a man who has spent his life up to middle age in a bank would, in about nine cases out of ten, make a failure as a farmer.

The old idea that all it required to make a good farmer was to have the strength of a horse and the industry of an ant is a fallacy. It is of course a great advantage to a farmer to be strong and necessary that he be industrious if he is to succeed but he must have good think works well lubricated with general and special information if he is to be a first class farmer.

### Everbearing Berries

The other day I received a crate of Progressive Everbearing strawberries from F. W. Dixon of Holton, Kan., who is a successful fruit grower. Perhaps it would be putting it too strongly to say that they are the best flavored berries I ever tasted, but I will say that I think I never have eaten better flavored strawberries. And remember that these berries were picked in the middle of October. My understanding is that these berries continue to bear as long as the ground is not frozen. If I am right about that, it means that Kansas people can have their own homegrown, fresh strawberries about nine months out of the year.

I am not authorized by Mr. Dixon to say that he has the plants for sale. If you are interested you might write him. All I know is that they are bully good berries and it seems to me there ought to be good money in raising them for the market.

### Receiverships

The disclosures made in the investigation of the affairs of the Kansas Natural Gas company will tend to increase the number of anarchists and lessen the respect for courts.

It is continually preached to us that the courts are the foundation on which our political structure rests and therefore disrespect for them is almost treason. If courts are to be respected, however, they must conduct themselves in a way that will entitle them to the respect and confidence of the people.

The disclosures made in the Kansas Natural Gas hearing before the state board of utilities is not calculated to increase respect for courts to say the least. To the common man it looks as if the courts had been used not for the purpose of protecting the interests of the public, but for the purpose of helping a few individuals to loot the funds of a bankrupt corporation. That no adequate service ever was rendered for the enormous fees allowed by the courts seems to be entirely evident.

This corporation is one in which the public is vitally concerned. If the funds in the treasury of the corporation had been applied in a careful, honest and efficient manner in improving and enlarging the plant, the people in the cities and towns into which its pipe lines run might have been supplied with natural gas in abundance for a good many years to come. Instead of this, there has been a scramble

to see who could get the largest handful of the swag. All this has been done by the authority of the courts and the courts must shoulder the responsibility.

The people are asking this pertinent question: If the courts do not protect the public from the greed of designing individuals, of what use are they? It is bad enough to be robbed illegally. It is worse to be robbed legally.

### The Island of Guam

As a result of the Spanish-American War this country acquired the island of Guam, located about half way between the Hawaiian islands and the Philippines. It is about 30 miles long and about 100 miles in circumference and has a population of more than 12,000. Lieutenant Commander Merlyn G. Cook, of the United States navy, a formerly-of-Kansas boy, is vice governor of the island and writes his father, who lives here in Topeka, some very interesting descriptions. With permission of the elder Mr. Cook I quote from two of his letters:

"As Guam is very mountainous and situated in the tropics, the scenery is very beautiful. On Wednesday I made an automobile trip across the island to the end of the road, then we crossed a little river on a bamboo bridge, climbed a mountain and came out on a high plateau about 1,000 feet above sea level where we located the site for a new school house. Then I visited some of the farm houses. I suppose you cannot imagine what a native farm house in Guam is like. Well, it consists of a one-room bamboo house perched up on stilts about 6 feet from the ground; the roof formed of palm leaves as a thatch and a little lean-to made of bamboo poles which serves as a kitchen. The cooking is done over a clay pot which serves as a kitchen or dining room. Underneath the house the oxen, pigs and mangy dogs dispute with each other for a bit of shade.

"The houses all have very high, peaked roofs in order to shed the tropical rains easily and that gives them a singularly quaint appearance. Sometimes you scarcely can see the house on account of the way in which the roof is built.

"However, some of the men I visited would be counted wealthy even in the United States, and all of them are well-to-do for Guam. I asked one farmer, named Telesforo Baza, through an interpreter, how many coconut trees he had on his plantation. He said he didn't know as he had never counted them, but there were between 6,000 and 8,000, which, counting 50 cents a tree per annum—a conservative estimate—would bring him in quite an income. Besides he had a few hundred head of cattle and other livestock. He owns about 2,000 acres in one of the most fertile parts of the island. Yet this same nabob was barefooted and possessed only a shirt, which he allowed to hang outside his trousers, as is the general custom here, and an old battered straw hat, in the way of clothing.

"He was, however, quite glad to see us. All his hired men were out so he climbed a coconut tree about 75 feet high and broke off several green coconuts, then climbed down, neatly chopped off the heads of the nuts with a wicked looking bolo, and presented them to us to drink the milk. In a country where the surface water is likely to be contaminated as is the case in nearly all tropical countries, the milk of the green coconut makes a very cool and refreshing drink.

"I visited other farmers, including a coffee planter, who gave me some of the beans as souvenirs I suppose, for he, like all the rest, spoke only the Chamorro, which is the native language. He also is a chicken fancier, but his chickens had the cholera and he had lost 600 during the week, from which you can form some idea of the size of his flock.

"Another man I visited by the name of Souse Buenevento, is a corn and cotton grower, but he pointed out to me with especial pride, his new pig pen, for he has imbibed the ideas of the white men to the extent that he no longer keeps his pigs in the parlor but moved them off to this new pig sty built of bamboo poles. He was however, the only farmer who had risen to this degree of sanitary living. He also had a chicken house, but whether the chickens roosted there or not I do not know.

"The mountain tops here are generally barren and the vegetation, what there is of it, resembles the



sage brush which grows in parts of the United States. The tropical vegetation depends on both heat and moisture and usually stops at an elevation of about 500 feet above sea level.

"Millions of coconuts are produced here every year. The coconut as it comes from the tree has no value to sell. Coconuts are manufactured into dried copra. This sells at 4 cents a pound. The production of "copra" is the principal industry of the island. It is sold in the Manila market and manufactured into soaps, perfumes and oils. Just at present the copra trade is suffering a depression, due to the war.

"We have 'avocadoes,' alligator pears, which make a delicious salad; also pineapples, mangoes and oranges, but as these were introduced only a few years ago, their cultivation is not general and there are few to be had.

"Owing to the tropical temperature we never close the doors or windows which are, however, tightly screened as we are troubled with insects and lizards. The most peculiar of our household pets are the lizards. They are from 3 to 5 inches in length, about half of which is tail. They hang to the ceilings and rafters principally in the vicinity of the lights. They are insectivorous and are on the lookout for bugs. For that reason no one disturbs them. We have about half a dozen in the house or on the porch. They make a peculiar chirping noise—something like a cricket, but much shriller."

Probably in order to pass away the time, Lieutenant Commander and Vice Governor Cook has started the publication of a little newspaper called the "Guam News Letter."

As at this time the governor of the island probably is away on his leave of absence, Commander Cook becomes the acting governor of the island.

## Death of Miss Cavell

There was an old saying among the Greeks that "Whom the gods would destroy they first make mad."

By order of a German court martial, an English nurse, Miss Edith Cavell, has been taken out and shot to death. It is acknowledged that Miss Cavell was a devoted, efficient nurse and that her ministrations were given to all wounded soldiers of every nationality with equal kindness and devotion. Her offense, freely acknowledged by herself, was that she had assisted certain British soldiers, who perhaps otherwise, would have been taken out and shot, to escape.

Possibly under the strict rules of military law the court martial was justified in finding her guilty of an offense for which the penalty is death, but there are cases in which common humanity dictates that the cruel letter of the law shall not be, or ought not to be, carried out. This is one of the cases.

No amount of explanation the German government ever can make will justify this act of barbarism in the eyes of the humane people of the world. If Miss Cavell simply had been imprisoned or had been banished from the German lines there would have been no cause for criticism of the German government but when this brave and kindly woman, who has ministered alike to the wounded Germans as well as to the wounded English, French and Belgians, is taken out and shot to death by order of a German court martial and German governor, it excites a feeling of horror in every part of the civilized world.

This act however, is no worse than hundreds of other acts done by the military authorities of Germany. Sometime ago I received a pamphlet sent out by German authority which was a defense of the acts of Germany in Belgium. In that pamphlet it was not denied that noncombatants, men and women, had been slaughtered by order of the German military authorities in cases where it was charged shots had been fired from Belgian houses at the German troops, but the act was justified as a military necessity. It seemed to me that the pamphlet itself, laying aside all consideration of the charges that had been made by the Belgians and French and English, was enough forever to condemn the German government.

Neither can it be said perhaps, that the killing of Miss Cavell is any worse, any more brutal and savage than the deliberate drowning of women and children on the Lusitania. In some respects it is not as bad. In the case of the Lusitania the women and children were not guilty of any infraction of a military law. They were not accorded any sort of a trial. They simply were murdered without shadow of justification.

But somehow or other the case of Miss Cavell seems to have excited even more horror than the drowning of these helpless women and babies on the Lusitania. In that case there was the possibility that the commander of the German submarine thought the passengers on the Lusitania would be able to escape. He did not deliberately stand them up in line and shoot them to death.

By a series of acts such as the atrocities in Belgium, the sinking of the Lusitania, the permission and justification of Armenian massacres and now the execution of Miss Cavell, Germany has alienated the sympathy of the outside world, and notwithstanding the fact that up to this time the advantage in battle has been on the side of Germany and Austria, I believe this policy of ruthless cruelty will result in their final defeat.

If Germany had pursued a course of moderation, of just ordinary humanity, the opposing nations,

wearied with fighting and discouraged by defeats, might have been ready to quit and compromise. In my opinion, however, the conduct of Germany has, to use a slang phrase, "set the hair." Just now the central powers seem to have reached the crest of success. I believe that the next three months will show that they are receding. Their program of assassination on the sea has failed. That is pretty evident. The German submarines are having little effect. There are also some indications that their successes on land are being checked.

It may be that the humble English nurse has not died in vain.

## From California

Editor The Farmers Mail and Breeze—Just a few lines of comment on your "Comment" on what you saw in California. I am pleased that you gained a favorable impression of the state, her resources, and her people. I am not surprised at the astonishment you felt in the presence of "things doing" in California; I once lived in Kansas myself and it required several years for me to adjust my mind to the colossal scheme of doing things as they are done out here.

I do not believe that your statement that "Kansas is a better place to make money than California" is justified by the facts; indeed, in a parallel column you mention having met Charlie Fellows, who, to use your own words, "has grown rich out here." In my opinion the chances for a young man to get ahead in the world, if he possesses a modicum of ambition and a fair education, is about a hundred to one in favor of California over Kansas. And for the very reason which you have observed, that California does things on a scale that would take the breath out of persons anywhere else on earth.

The magnificent system of internal public improvements such as aqueducts, power plants, good roads, etc., call for the services of high class men and women in almost every avenue of human endeavor. Our educational institutions are unequalled in any state in the Union and our educators, from teachers in the country schools to the university professors are the best paid of any teachers in the world. The lowest paid teacher receives \$1,000 a year and every teacher who remains in the public service for 25 years is entitled to retire on a pension of \$50 a month for life. It is a flat pension and whether a teacher gives 25 years service in the country schools or has given his time as principal of city schools, the pension, on retirement, is the same—\$600 a year.

You are eternally right about the citrus fruit business; growing oranges and lemons in California, like mining, is a rich man's game. In the first place successful citrus fruit growing is a science and about the only persons who make it pay are those who own groves and employ scientific orchardists to handle them. Even then the chances are that the owner will no more than break even in a series of years.

The fixed charges against a citrus grove, including irrigation, cultivation, fertilizer, fumigation, pruning, picking, packing, taxes and interest on the investment, will average around \$4,000 an acre, per annum. These charges, or most of them, must be met, for nothing deteriorates so fast as a neglected orange grove, unless it be a vacant house in town. If anything happens to the crop, or if the market falls, as it did this year for lemons on account of the cool season in the East, you can imagine what happens to the citrus fruit growers' bank account. At the end of the season it just "ain't," as one old fellow once remarked to me. And yet thousands of persons who have succeeded in life as lawyers, storekeepers, cattle growers, etc., come out here and invest a life savings in an orange grove—and expect to succeed with it! They usually fail; they would fail if they went down to Texas and tried to grow cotton.

In the matter of general farming, truck growing, dairying, poultry, stock raising and the like, conditions are altogether different. I would rather own 20 acres of irrigated valley land in California, than to own the best quarter section of land in Kansas. In a series of 10 years I would have more net results to show for my time and labor on the California 20 than I would on the Kansas 160. More than that, my family and I would have lived under climatic conditions and environment infinitely preferable to those which obtain in Kansas.

The tens of thousands of persons who come to make their homes in California but who draw their revenues from every other section of the world, must be fed. There are more of that kind of people here than in any other state in the Union and as time goes on, because of our good roads, climatic conditions, educational institutions, etc., this class of population will increase greatly. That means a home market for everything an agriculturist or a stock raiser wants to grow. And it never will be overdone. California never will be able to supply her own needs along the lines I have mentioned. Even now she must draw on Arizona, Nevada, Utah and Idaho for her beef, mutton and pork and on far away China for eggs. I know these to be facts because my youngest brother Sam, is livestock buyer for one of the big packing firms of Los Angeles and he scours these states to keep his plant going.

Speaking again from experience, I have paid an average of 45 cents for eggs for 15 years and an average of 40 cents for butter. Most any kind of a chicken will cost you \$1, though last week I bought a little 2½-pound fryer from a rancher who brought it to my door for 80 cents. I have bought eggs and butter of him for two years and he has no kick coming on ranching in California, although he has only 5 acres and is making a good living, saving a little and educating five children.

The farmers and ranchers of California soon will be clear of railroad and transportation graft, thanks to the auto truck, the magnificent system of state and county roads and the local market. No farmers' product other than fruit will need to be transported more than from 5 to 20 miles, and you know what that means on such roads as you observed here.

Intensive farming is what pays and is what is coming in California and it does not mean servitude for the farmer nor slavery for his wife, either. People live, really live, and get more out of life in one year in California than they do in one life time in Kansas! Nobody takes life very seriously in California and yet a more aspiring, sober, ambitious people may not be found beneath Heaven's blue dome than you will find here.

And this brings me to your observations about the liquor traffic on the Pacific Coast. Your conclusion that "because you didn't see drunks piled up in windows in any of our cities, those cities have some secret method of disposing of their byproduct of the demon rum" is, to a Californian about the funniest thing in print. I pre-

sume it never occurs to a person from a "dry" region to give the residents of "wet" territory credit for cultivating some degree of restraint and temperance in the presence of so many good things to drink. I have no doubt that most of the persons you saw drunk were strangers in both state and city, whose home was in some "dry" state, and who tried to absorb the visible supply of liquor the day they arrived in California for fear the supply would be gone in the morning! Not so with your permanent Californian. He may, and perhaps does, take a drink when the spirit moves him but he is no beast—and he knows from long observation that there will be a few drinks left for tomorrow.

Of course, in seaport cities like San Francisco and San Diego, where people congregate from all over the world, more or less liquor is consumed, and sometimes to the disadvantage of the consumer, but I have lived more than 15 years in California, much of that time in and about her largest cities, and, to tell you the truth, I have seen more drunken men and women in one day in Atchison or Leavenworth than I have seen in the entire 15 years residence in California!

Here in Los Angeles the number of saloons is limited by charter provision to 200 and these are, by ordinance, confined to a territory in the business district, approximately four blocks wide and 12 blocks long. Not a saloon is permitted in any residential section of the city and I never have heard of a blind pig or other illegal place of sale in such sections. The down town liquor dealers are as much interested in confining the business to their section as anybody else in the city and the consequence is that no liquor is retailed outside of the restricted territory.

Two years ago I had a controversy in the public press of this city with a rank Prohibitionist from Long Beach. Of course he threw Kansas in my face about the first thing. About that time I happened to run across a statement in the Topeka Journal, which my sister had sent me, purporting to give the number of convictions in the Topeka police court on the charge of drunkenness for each month of the current year and also for the year previous. Frank MacLennan confirmed this report in a personal letter to me.

I then secured the same information covering the same points in connection with the city of Los Angeles, through the secretary of the chief of police here. On comparison, what do you suppose the reports showed? That in the year 1912-13 the city of Topeka, in proportion to her population, had within 7 per cent of as many arrests and convictions for drunkenness as the city of Los Angeles had. Further than that, the reports indicated a decrease of 10 per cent in arrests for drunkenness in Los Angeles over the previous year, while in Topeka the increase was almost 60 per cent!

When you consider that we have about 40,000 Mexicans and 20,000 other foreigners, as well as a constant tourist floating population of from 75,000 to 100,000 persons in Los Angeles, you surely must agree with me that our people are as reasonably sober, temperate and decent as those of any other civilized community whether "wet" or "dry."

I came out here with a good deal of prejudice against the liquor business and I am not a drinker myself, but last year I voted against prohibition and will certainly do so as often as the question is submitted, while I live. People are not made temperate or moral by law, is my personal observation, and while there are evils flowing from the open retail saloon which I don't like, still as between absolute prohibition and some form of licensed liquor business, I must reject prohibition and I have had about 15 years experience under each method of handling the question. No, we don't hide our drunks; we simply don't drink to excess—the opinion of the "drys" to the contrary notwithstanding.

Los Angeles, Calif.

F. M. E.

## Examine Session Laws

Editor the Farmers Mail and Breeze—A law was introduced in the last legislature in regard to stock bothering a neighbor. As I understand it, all that is necessary is for the complainant to see an officer, who can compel the owner of stock to keep them where they belong. Did the law pass? What officer would have that authority?

Kansas. T. W. T.  
I do not remember whether such a law passed or not. Borrow a copy of the session laws from the county clerk and examine them.

## Note Obtained By Fraud

Editor The Farmers Mail and Breeze—Can a note obtained through false pretenses or by misrepresentation be collected under the laws of Kansas? Randall, Kan. D. E. C.

If the note obtained by false pretenses is in the hands of the person to whom it was given until due it cannot be collected. If, however, it is a straight promissory note, without conditions attached, that is simply a promise to pay a certain amount at a certain time, and is sold to an innocent purchaser before it is due it can be collected. If the transfer to the innocent purchaser is not made until after the note is due, it cannot be collected. In that case he buys with notice of all defenses that may be made against the note.

## Hauling the Children

Editor The Farmers Mail and Breeze—What is the distance one is required to live from school to entitle him to collect pay for hauling the children? I live nearly 3 miles and have to haul my children most of the time during the winter. Can I collect anything by law for taking them? Claflin, Kan. F. S.

If the distance from your house to the school house by the ordinary traveled road is 3 miles you can collect pay for hauling the children to school.

## Proving Up on Land

Editor The Farmers Mail and Breeze—Can a married woman whose husband proved up on a claim in 1892, before his marriage, take a claim under the present homestead law? Eskridge, Kan.

SUBSCRIBER.  
If the husband is still living and they are living together as husband and wife, no. If the wife is a widow, yes.



**Better Credit Is Needed**

BY THOMAS P. GORE

There are many reasons why a system of rural credits should be established in the United States. There is no reason why it should not be established. The need for improved rural credits has been met by the leading commercial and agricultural countries of Europe. The need for such rural credit facilities is in some respects more urgent in the new world than in the old. There is less capital in proportion to the need for capital here than there. In other words, there is more development here in proportion to available capital than in the older countries of the world. This condition tends inevitably toward a high rate of interest. Apart from usury and foreclosure laws, there are three factors which determine in the main the rate of interest: The ratio of money or loanable funds to the demand for money; the length of the loan; the character of the security. Generally speaking, the rate of interest decreases as the amount of loanable funds increases, as the length of the loan increases, and I may say, as the character of the security increases. In my judgment, a system of rural credits can be devised that will set each of these three factors in operation in the direction of lower interest rates.

As a rule, the farmers of this country borrow money on their farms for five years. This means, of course, that the rate of interest is relatively high. As a rule, when the mortgage matures it is not paid; it is renewed. This is not the fault of the farmer. It is the fault of the system. The net earnings of the farmer during this limited period was insufficient to discharge this indebtedness. Such a system of rural credits never did succeed. In the nature of things it cannot succeed.

In Europe the farmer can borrow money on land for 50 or 70 years, or some like period. The rate of interest is relatively low. He pays the interest every year and pays a small percentage of the principal at the same time. He can make this small yearly payment out of the annual net earnings of the farm, at least on the average. This is sound farm financing.

The rural credit systems of Europe have succeeded. They have stood the test of time and experience. They have supplied the needs of the farmer. They have protected the interests of the investor. For instance, in Germany the bonds of some of their rural credit institutions bring a higher price in the market than the bonds of the German Empire bearing the same rate of interest. It is doubtless true that these European systems could not be transplanted bodily to this country. What Europe has done for her farmers America can do and must do for hers.

The ordinary commercial bank cannot be expected to lend money for 50 or 70 years. It is obligated to pay its depositors on demand. It must keep its affairs in a situation to meet such demands. Rural credit institutions will meet a demand for credit which commercial banks never have and never can supply. Hence there will be no collision or friction between the two systems.

Farm mortgages in the United States aggregate more than 2 billion dollars today. The average rate of interest is comparatively high. The farmers' demand for capital on long terms at low rates of interest is continuous and persistent. He needs money to purchase or complete the purchase of his home and to improve his homestead when purchased. He needs a system of credits not primarily to enable him to get into debt but to enable him to get out of debt.

There are millions of money in this country seeking long time investments with safe and stable security. The holders will take low interest. Now what we need is a system of rural credits that will bring these two factors together, that will bring the farmer seeking long time loans at low rates into contact with the investor seeking long time investment and willing to accept a low rate of interest. Such a system would serve the interest of both, and it would sacrifice the interest of none. By stimulating the progress and prosperity of the farmer it would insure and promote general progress and prosperity.

"Swat the mortgage!" is a slogan that will do more to lower interest rates than all the law-making of the decade to come.

**Small Pigs Need Good Care**

**Sows Must Be Kept in a Proper Breeding Condition, and They Require Special Attention at Farrowing Time**

EVERY sow in Kansas must have good care if she is to produce the most profit for her owner. In order to produce a large, healthy litter, she must be in the best possible breeding condition. After she has been bred, careful feeding and management are necessary to develop the litter she is to produce. It is well to keep a record of the date on which the sow was bred, in order to know approximately when the youngsters are about to arrive. The gestation period of pigs is 112 to 115 days. It is a good policy to be at hand in case the sow needs help, but she need not be helped if she is getting along well.

When the pigs are born during warm weather they are not likely to become chilled and will generally find their way to the teats unaided. In extremely cold weather the pigs will be in danger of being chilled unless the hog house is heated. To remedy this, place a few heated bricks in the bottom of a basket or small box, cover them with chaff or straw, and put a cloth over the top to keep in the heat; unless the sow objects too seriously the pigs may be rubbed dry with a soft cloth and placed in the receptacle as fast as they arrive. If any of the little pigs appear to be lifeless when they are born, first see that all mucus is removed from the nose, then give the pig a few gentle slaps on the side with the hand. This will start the pig breathing if there is any life in the body. Give it a suck of the sow's milk

enough to wean them, if there is skim-milk for feed. Of course the size and development has a great deal to do with their weaning age. If skim-milk is not obtainable, it is better to let the pigs nurse until 10 weeks old.

Skim-milk and corn, or skim-milk and shorts, fed in the proportion of 3 to 1, make an excellent ration for weanlings. If skim-milk is not available, a mixture of 5 parts cornmeal, 4 parts middlings, and 1 part tankage, fed as a thin slop, is very good. Good succulent pasture is always beneficial. It will aid wonderfully in putting growth on the young pigs, and the grain expense will be reduced. After the pigs have been weaned and are eating well, the most difficult part of their care is over. The feeding and management from then on will depend much upon whether they are to be kept for breeding or fattened for market.

**The Dowell Sale**

The E. E. Dowell Shorthorn dispersion sale held at Hiawatha, Kan., October 28, was well attended, and the offering was appreciated, especially by the farmers and breeders of Brown county. Some good buyers were present from other parts of the country, among them J. A. Axtell of Fairbury, Neb., secretary of the Jefferson County, Nebraska, Breeders' association. Mr. Axtell bought eight head and topped the sale on heifers, buying the choice Alexandria heifer,



Good Care and Feed Help to Produce Large, Healthy Litters, Which Give Good Profits Later When They Reach the Markets.

and place it in the receptacle described. The pigs will not suffer if they do not suck for a few minutes after farrowing.

Before placing the pigs with the sow cut out the eight small tusk-like teeth. There are four of these on each jaw in the rear of the mouth. These teeth are very sharp, and if left in the pig's mouth they will likely cause tearing of the sow's udder, and the little pigs cut one another's mouths while fighting for a teat. These teeth can be removed with bone forceps, wire nippers, or a knife. Never pull out the teeth. Always cut or break them off. After this operation place the pigs with the sow, care being taken that each one gets to a teat.

When the afterbirth is passed it should be removed from the pen at once and buried or burned. There is good reason to believe that eating the afterbirth is often the beginning of the habit of eating pigs.

Great care must be taken to feed the sow properly. If she is not being properly fed the little pigs will show it. If the pigs follow the sow around very much and pull at her teats, it is a good sign that she is not giving enough milk, and more feed should be given to stimulate milk flow. When a sow is overfed, causing a heavy milk flow, scouring generally is produced in the pigs. If this happens, cut down the sow's feed immediately. Give the sow 15 to 20 grains of sulphate of iron (copperas) in her slop morning and evening, and if necessary increase the dose until good results have been obtained.

It is very necessary that the little pigs have plenty of exercise and all the sunlight that can be given them. If they do not get exercise, they will get fat and lazy and the usual result is the "thumps." This is caused by the fat getting so thick around the heart and lungs that the pigs find it difficult to breathe. They will be noticed heaving at the flank and gasping for breath. The best way to prevent this is to avoid overfeeding and make the young pigs take plenty of exercise.

When the pigs are about 5 weeks old, they will begin to taste some of their mother's feed. Do not be in a hurry to wean them. Eight weeks is young

Gilt No. 41, a full sister to Fancy Hadley, the dam of the grand champion sow at Lincoln last year, was sold for \$41. She went to Charles Mercle of Republican City, Neb. Col. John Brennen did the selling, and he made a plea for more purebred swine. Here is a list of the sales above \$25:

No.		
1	H. W. Hoops, Byron, Neb.	\$33.50
3	L. P. Petz, Nelson, Neb.	38.00
4	H. E. Stiles, Nora, Neb.	25.00
9	Owen Crispin, Webber, Kan.	26.00
9 1/2	Charles Custer, Bostwick, Neb.	25.00
10	Fred Reinke, Deshler, Neb.	70.00
11	Charles Epley, Nora, Neb.	30.00
12	Herman Flintner, Deshler, Neb.	27.00
15	E. D. Taylor, Davenport, Neb.	30.50
16	John Scheutow, Courtland, Kan.	50.00
19	H. E. Stiller, Nora, Neb.	26.50
22	T. J. Hewitt, Republican City, Neb.	27.00
27	Fred Duenstind, Byron, Neb.	32.00
28	George Wachser, Ruskin, Neb.	25.00
30	J. Hunter, Republican City, Neb.	26.00
30	John Davidson, Nora, Neb.	25.50
34	James Nelson, Jamestown, Kan.	25.50
36	John Hoopes, Byron, Neb.	33.00
41	Charles Mercle, Republican City, Neb.	41.00
39	D. Hunter, Republican City, Neb.	35.00
42	George E. Smith, Agenda, Kan.	28.00
49	Charles Mercle	27.00
54	George Wagener, Ruskin, Neb.	35.00
55	Henry Tesgen, Byron, Neb.	35.00
56	E. D. Taylor, Davenport, Neb.	25.00
71	S. W. Benfield & Son, Prosser, Neb.	37.00

**Tipton Got a High Average**

A. M. Tipton of Milan, Mo., feels that he has received a substantial dividend on his investment in good Poland Chinas. In laying the foundation Mr. Tipton was careful to select the best bred Poland Chinas to be found. His fall sale of 40 spring pigs made an average of \$34. McClaskey Brothers of Harris, Mo., took the top gilt at \$100. This firm is laying the foundation for a good herd, and like Mr. Tipton it is starting with the best. C. O. Bartimus of Milan, Mo., topped the boar offering at \$60. Mr. Bartimus will use this hog at the head of his good herd. Here is a list of the buyers:

No.		
1	C. O. Bartimus, Milan, Mo.	\$ 60
2	W. M. Watt & Sons, Green City, Mo.	60
3	Clint Maggart, Cora, Mo.	55
5	A. Barton, Reger, Mo.	36
7	McClaskey Brothers, Harris, Mo.	100
9	E. Johnson, Milan, Mo.	40
10	Ben Quigley, Milan, Mo.	45
11	A. S. Kiser, Milan, Mo.	41
13	A. Tipton, Milan, Mo.	23
17	E. S. McNeely, Milan, Mo.	22
19	John McClaskey, Milan, Mo.	22
20	Carl Shope, Humphreys, Mo.	23
21	A. Seckington, Reger, Mo.	29
25	Fred Bartimus, Milan, Mo.	26
26	Mathew Brown, Milan, Mo.	29
27	Ode Williams, Reger, Mo.	24
28	James Shipley, Reger, Mo.	45
29	W. B. Cochran, Milan, Mo.	27
30	James McCormick, Milan, Mo.	21
36	John Tipton, Milan, Mo.	23

**Foley Made a Record**

J. F. Foley's annual sale of registered Poland Chinas, at Norton, Kan., October 30, was a great success, and the prices were the best ever received by Mr. Foley. The offering was good, and everything possible was done by Mr. Foley to make the occasion one of pleasure and profit for those attending the sale. J. W. Leeper of Norton topped the sale on boars by buying the great young boar—No. 1 in the catalog—sired by the noted Iowa's King and out of the sow Exey Orange by Big Orange. Mr. Foley bought this sow last winter at one of Iowa's leading sales for \$180. Three boars, litter brothers to No. 1, were sold for \$255.50, Pete Luft of Almena bought boar No. 2, the second choice of the litter, for \$77.50. Carl C. Anderson of Selden topped the gilts by buying No. 39 for \$50. Col. James T. McCulloch was the auctioneer, and did his usual good work in holding the undivided attention of the crowd. A list of leading sales follows:

No.		
1	J. W. Leeper, Norton	\$125.00
2	Peter Luft, Almena	77.50
3	Joe Hemmey, Hill City	39.00
5	J. O. Garten, Norcatour	25.00
6	Carl Behrent, Oronoque	27.00
7	L. Wald, Almena	42.50
9	Amel Anderson, Selden	40.00
11	Clyde DuBoise, Agra	34.00
12	Carl Behrent	33.00
13	Carl Behrent	33.00
15	J. H. Brown, Selden	25.00
17	M. A. Davis, Oronoque	25.00
18	M. Thlesen, Clayton	36.00
19	L. Wald	34.00
20	Joe Hemmey	30.00
21	Carl Behrent	25.00
24	Walter Castello, Prairie View	29.00
25	W. Kivett, Siebert, Colo.	30.00
29	James Smith, Norton	30.00
32	J. W. Leggett, Almena	51.00
39	Carl C. Anderson, Selden	50.00
40	Carl C. Anderson	30.00
41	George Goodman, Lenora	25.00
42	C. H. Fredrickson, Almena	33.50
Average on entire offering		\$ 32.70
Twenty boars averaged		34.75
The females averaged		34.75

**The Smith Poland Chinas**

The usual big crowd of farmers and breeders was on hand at Albert Smith & Sons' annual Poland China sale at Superior, Neb., October 27. The offering was good, and it was appreciated by the stockmen assembled, although there were many snags. Seventy head sold at prices ranging from \$12.50 to \$70.40, with an average of \$30.40, which was low considering the high quality of the pigs. Toward the close of the sale many animals sold far below their value as breeders, but the Smiths maintained their record for selling everything catalogued. Had only 40 head been catalogued and sold an average of \$50 would most likely have been made. Frank Reinke of Deshler, Neb., topped the boar sale at \$70.

Papa—Why, hang it, girl, that fellow only earns nine dollars a week!  
Pleading Daughter—Yes; but, daddy, dear, a week passes so quickly when you're fond of each other.—Judge.



# Get Into the Capper Pig Club

## One Boy in Every County in Kansas Has a Chance to Make Good For Himself—Read the Rules

ONE BOY between the ages of 12 and 18 from every county in Kansas is eligible for the Capper Pig Club. The time of enrollment will be from November 15, 1915, to February 15, 1916.

Each club member is to have one purebred bred sow and to care for the sow and the litter, keeping record of all the feed consumed, the cost of the feed, the number of pounds of pork made, and the profits. December 15, 1916, he is to close his record and write a short story of how he cared for and fed his pigs.

In order that every county in the state may be represented in this pig club contest and that every boy may have an equal chance of entering the contest whether he owns a sow or wishes to buy one, the following method of securing sows for the contest will be provided:

a. If the boy chosen as the representative of his county does not own a purebred sow he may select from his father's herd a bred sow, provided the sow is purebred and the selection is satisfactory to the persons recommending him; or he may purchase the sow from any breeder of purebred swine. If owned by the contestant or selected from his father's herd the sow is to be appraised by two persons recommending the contestant, at its true value.

b. If the boy selected does not own a purebred sow nor have money with which to secure a sow and cannot get one from his father's herd, or wants a better sow than any in his father's herd, he may, with the consent of the persons recommending him, contract for a sow, make out a personal note to Arthur Capper for the amount (such note to be payable on or before January 1, 1917, and to bear interest at 6 per cent) and forward the note with a bill of sale attached to a sight draft through the local bank for the sow to Arthur Capper, Topeka, Kan. The sight draft will be honored and thus the seller of the sow will be paid without delay. All transportation charges on the animals are to be paid by the contestants. Payment of the note can be made after some or all of the pigs raised are sold or before January 1, 1917. Only the signature of the boy to the note will be

required. The persons recommending him will not be held as security. If through misfortune the contestant is unable to meet his obligation an additional year will be allowed him under the same conditions in which to pay.

### Rules For the Club Members.

Each club member is to feed and care for the sow and the litter as far as possible and to keep a record of the weight of the sow when bought, or entered in the contest, the weight of the sow and pigs when killed, sold, or at the close of the contest, December 15, 1916, and a record of all the feed consumed. The sow may be sold any time after June and the pigs any time between June 1 and December 16. The cost of the feed is to be determined at the close of the feeding period or December 15, 1916, according to the following prices:

	Per 100 lbs.
Corn shelled	\$.30
Corn in the ear	.70
Kafir, milo, feterita or other sorghums	.50
Wheat	1.50
Bran	1.00
Shorts	1.20
Tankage	2.50
Linseed Meal	2.00
Skim milk	.25
(1 gallon equals approximately 8 lbs.)	
Whole milk	1.00
Pasture, 15c a month for sow and 15c a month for each pig after 2 months old.	
Alfalfa hay	.30

Not later than December 20, 1916, each club member will send a tabulated statement of the pounds of pork produced, the feed consumed, the cost of the feed figured at the rates given in the table and a story of "How I fed and cared for my pigs" to the Contest Manager, Capper Pig Club, Topeka, Kan. When all the reports are received the contest will be judged on the following basis:

	Points
1—Pounds of pork produced (live-weight)	35
2—Cost a pound	40
3—Records and story of "How I fed and cared for the sow and pigs"	25

The first five contestants making the best record will receive prizes as follows:

First prize	\$25.00
Second prize	20.00
Third prize	15.00
Fourth prize	10.00
Fifth prize	5.00

All premiums won by the club members on their pig when shown at the home county agricultural fair will be duplicated by Mr. Capper.

All profits after the sow and all feed consumed are paid for shall belong to the boy in the contest.

All club members who successfully complete the contest will receive a certificate of achievement signed by Arthur Capper, the director of the extension service of the agricultural college, and the state leader of boys' and girls' clubs.

The five representatives who win the first five places will receive a certificate of honorable mention signed by Mr. Capper, the director of the extension service, superintendent of institutes, and the state leader of boys' and girls' clubs; and an honor roll of their names will be published each year this club is conducted in the bulletin of announcement of

the state farm and home institute at the agricultural college.

### Selecting the Contestant.

Every eligible boy in Kansas is invited to send in his name. Each applicant agrees that if chosen as the representative of his county he will secure the recommendation of his postmaster, the cashier of the bank where he or his father or guardian transacts business, and of one disinterested farmer neighbor. This recommendation shall simply specify that the applicant is honest and industrious. Applicants will be placed on the eligible list in the order received. If the applicant heading the list fails to comply with the requirements within 10 days after receiving notice of his eligibility the name following will be certified.

Every boy joining the Capper Pig Club agrees that if he proves to be one of the five winners he will send in an affidavit, properly sworn to, showing that he has complied with all the club's requirements. Only the five winners will be required to send affidavits. Forms for this purpose will be sent the winners when they have been chosen by the judges.

## THE CAPPER PIG CLUB

Arthur Capper, Eighth and Jackson St., Topeka, Kan.

I hereby make application for selection as the representative of

.....county in the Capper pig contest. If selected I will send recommendations as requested, I will read carefully the bulletin entitled "The Feeding and Growing of Swine" published by the Kansas State Agricultural college, will follow all instructions carefully and will keep an accurate record of the weight of the sow when received, the weight of the sow and pigs when slaughtered, sold, or at the end of the contest, and the quantity of feed fed to the sow and her litter. I will do all the work myself as far as possible and will give complete direction as to how it is to be done at any time when I cannot do it myself.

Signed.....Age.....

Approved.....Parent or Guardian

Postoffice.....Date.....

### A Profit From the Fair

Topeka's big free fair, the first ever held in the United States, was a financial success. Although there were several days of rain, the receipts exceeded the expenditures by \$1,000, according to a statement by Samuel E. Lux, president of the fair association. The receipts amounted to \$46,000 and the expenses were only \$45,000. With \$1,000 in the clear the association is planning for a bigger fair than ever next year, Mr. Lux said.

Of the receipts, according to Mr. Lux's statement, \$22,000 came from the special quarter-mill levy in Shawnee county, \$5,000 from the state, \$9,000 from the grandstand, \$6,000 from concessions and the rest from miscellaneous sources. The expenses included \$26,000 in premiums, and \$19,000 for the operation of the fair outside of premiums.

"I can scarcely refrain from smiling," said Mr. Lux, "when I hear that those in charge of fairs in other states that have benefited by large appropriations from the state say that a free fair is hardly feasible.

"Why, look here at the figures: From the county quarter-mill tax levy we received this year approximately \$22,000, in addition we receive from the state \$5,000, or as much of that sum as we may need to meet any deficit incurred. We naturally expected the receipts from the grandstand and quarter stretch, the stall rents and from the concession privileges to pay the numerous expenses, which this year included some \$2,000 for walks and roadways, with as much or more for tents and barns to shelter the overflow of livestock and other expenditures, which obviously would not have occurred had the fair not been so large and weather conditions so unfortunate.

"Well, here is what we received: The concession rentals brought us \$8,018. From the livestock, poultry stall and pen rents we received \$3,009 while from the grandstand and quarter stretch we received \$8,092, making a total in receipts of \$19,120. Naturally, we expected the bulk of our expense money to come from the grandstand, and had the weather not been such on three of our best days that we could hold neither races nor horse show we probably would have had as much money to turn back into the county treasury as we received in tax money.

"Free fairs a success? Why, they can't be anything else when managed properly. It may take a year or so to get some of the small details 'ironed out,' but we are going right ahead with our free fair and make it larger and better next year. We already have demonstrated what a free fair will do. The free gate is the big idea with fairs."

### Farmers on Tax Board

Until Arthur Capper became governor there never has been a farmer on the state tax commission. Two out of the three members now are farmers. Governor Capper appointed, a few months ago, Hays B. White of Jewell county, one of the best known farmers and stockmen of northwest Kansas, and last week he added another farmer—Jasper T. Kincaid, of Johnson county. The Olathe Register, the Democratic newspaper of Johnson county, says of this appointment:

"Governor Capper made a ten-strike this week, when he appointed Jasper T. Kincaid, of Olathe, to the state tax commission. Not that Mr. Kincaid is an Olathe man or a Democrat, but because the governor had the excellent judgment

to select for this important body a man so well qualified for its duties. Here is an appointment where politics has played the minor part, and where sheer ability has counted. Mr. Kincaid's training of two terms as county clerk, a term as state accountant and chairman of the committee on assessment and taxation in the state legislature has served to educate him in a broad and liberal way for his present place. Besides, he is a man of strong common sense—and makes an ideal public official. Mr. Capper hasn't been praised very often in these columns, but for this appointment, he gets both barrels of the Register's approval, and the hope that he will have as good fortune in finding men so ably fitted for the future jobs that open to his bounty."

### Chains to Stop Skidding

As a result of the combined efforts of the automobile designer, the metallurgist, and the manufacturer of accessories, automobiling has been made not only more pleasant, but safer and saner every year; so that the motorist who is a careful driver and who takes reasonable precautions has very little to fear nowadays. Dry cells no longer "go dead" unexpectedly, the reliable and inexhaustible magneto has taken their place; clutches don't "burn out"; and it is indeed rare to have a crank-shaft or a driving-shaft break, or a gear strip. The old cry of "Get a horse!" is a back number.

Of course, no amount of skill or science can safeguard the man who persists in starting out on a long trip without looking to his supply of oil and water, or the procrastinating person who is always putting off attention to his brake adjustments until it is too

late. Unless someone invents what George Ade dubbed a "patent auxiliary"—a device that automatically comes around and gives you a swift kick when you start to put water in the gasoline tank, or forget to put oil in the crank case, the personal equation will always have to be reckoned with.

But there is an ever-present danger that is quite as much of a terror to the experienced driver as it is to the novice—skidding. There is nothing that makes a man lose his nerve so thoroughly.

A great deal has been written about the effect that skidding has upon the motor car, but very little has been said in regard to the effect of skidding upon the tires. The smallest damage to tires done by skidding is to wear out the treads—through loss of traction, they spin on asphalt and macadam with the same effect as though they were held against a revolving grindstone—and the side slip of a skidding car exerts such a strain on the tire fabric that it will often separate the plies. Shortly after this abuse, the tires are likely to blow out.

Looking at the skidding problem from this angle, it is quite obvious that an efficient anti-skid device, such as tire chains for instance, will not only preserve the life of the car-owner but will also prolong the life of his tires.

### Farm Tractors Increasing

Since the big tractor show at Hutchinson last July, 28 farmers of Hodgeman county have purchased tractors. The tractor will be partly responsible for the large acreage of wheat that will be sown in this county this fall, and likewise for the large number of acres of sod that will be broken out next spring.



# Some Boy Will Receive \$25

## Arthur Capper Will Give This Cash Prize For 10 Ears of Corn, and Then Give the Corn Back To You

TWO BEAUTIFUL silver trophy cups and \$25 will be given by Arthur Capper to Kansas boys as corn and kafir prizes this fall. Eight medals and a number of honor diplomas also will be awarded. The boys in the Acre Yield of Corn contest, and the Acre Yield of Kafir contest have been enrolled since last spring, but there is a chance for other boys to compete in the Capper Corn Show to be held in the Capper building, Eighth and Jackson streets, Topeka, Kan., December 11, 1915. The boys in the Acre Yield contests will receive blanks about the middle of November on which to make their final reports. Any club member who does not receive a blank before November 15, should write at once to the Secretary, Capper Contests, Farmers Mail and Breeze, Topeka, Kan.

Any boy in Kansas who is not less than 10 nor more than 18 years old, may compete for the \$25, provided he grew the corn himself in a field of not less than one acre. Everyone who competes in the show must enter a 10 ear sample of corn. This corn must be sent to the Secretary of the Capper contests, in care of the Farmers Mail and Breeze, not earlier than November 25, nor later than December 2. After the show your sample of corn is yours to do with as you please. If you wish to enter it in the corn show at the Kansas State Agricultural college the last week in December, we will take it to Manhattan for you free of charge. A good way to send your corn is by parcel post. Pack the ears carefully, and mark the package plainly with your name and address.

A great deal depends on knowing how to pick your 10 ear sample from your acre or more of corn. John F. Case, one of the judges of last year's show, has written an article telling you how to pick the corn that will grade high in a show. This story will be printed in the Farmers Mail and Breeze next week, if possible. Be sure to read it. The ideas it will give you will help you to win the first money. While you are waiting for Mr. Case's article to be printed, you will find it worth while to study the following paragraphs in this story. Every sentence tells something that is worth knowing.

### Uniformity of Type.

The ears of a sample should be uniform in size, shape, color, indentation, and kernel shape, and should conform to the accepted type for the variety. Each ear should be cylindrical, or nearly so in shape, with not less than 16 or more than 22 rows of kernels running straight, from the butt to the tip. These characteristics seem to indicate a high shelling percentage of uniform kernels. Twisting rows, flat or crooked ears, dropped rows and depressions on the surface of the ear are to be discriminated against.

The ears of a sample should be free from mixture of corn of an opposite color. Cobs in yellow corn is indicated on the caps of the kernels; in white corn on the sides of the kernels. Cobs should be of one color; in yellow corn, deep red; in white corn, white (except St. Charles White, which must have a blood red cob). Intermediate or pink, cobs, in red cob varieties, indicate lack of purity.

### Shape of Kernel.

The shape of the kernel largely governs the shelling per cent of the ear. Kernels should broaden gradually from

the tip to the crown and should have straight edges that touch the full length without coming to a point at the tip. They should be full and plump at the tip, and of uniform thickness throughout when observed from the side. Thin, shrunken, sharp pointed kernels, as well as rectangular or shouldered kernels, are very objectionable. Kernel depth will vary somewhat in different varieties but, in general, the depth of the kernel should be about half the diameter of the cob.

The kernels from the various ears should be uniform in shade of color, indentation, size, shape and thickness and should present a general similarity when the different rows and different portions of the ears are examined.

### Desirable Butts and Tips.

The butt of an ear of corn should be well rounded out with fairly deep uniform kernels. The rows should extend well out over the butt smoothly surrounding a deep even shank of medium size. Kernels surrounding the butt should be fairly uniform in size, shape and indentation, as shallow, smooth, irregular kernels are very objectionable.

The tip of an ear should be well covered with fairly deep kernels similar in size, shape, and indentation to those of the rest of the ear.

Grand Champion Ear.

The rows should all carry out to the end of the ear as dropped rows are very undesirable. The ideal tip is completely covered with straight rows of uniform kernels. An ear showing a very small portion of the end of the cob, if it is surrounded by fairly deep kernels similar to those of the rest of the ear, should not be discriminated against. A sharply tapering tip is very objectionable.

## Laptad's Hogs Sell Well

Fred G. Laptad's hog sale October 27 was a decided success. The sale pavilion was well filled and there were many breeders from a distance. As usual the offering was in the pink of condition and well grown. It was made up of spring pigs, 10 boars and 10 sows of each breed. Rule Brothers of Ottawa conducted the sale in a most creditable manner. Here is a list of the sales.

### POLAND CHINA.

- |       |                                   |      |
|-------|-----------------------------------|------|
| No.   |                                   |      |
| 1     | H. C. Lober, Weston, Mo.          | \$36 |
| 2     | R. A. Phenicle, Reno, Kan.        | 24   |
| 3     | Arthur Cox                        | 27   |
| 4     | M. C. Fowler, Carbondale, Kan.    | 35   |
| 5     | A. R. Mitchell, Topeka, Kan.      | 30   |
| 6     | G. L. Phenicle, Reno, Kan.        | 29   |
| 7     | A. E. Shaw, Ozark, Kan.           | 24   |
| 12    | M. G. Pollard, Pleasantview, Kan. | 22   |
| 15    | G. Roche, Baldwin, Kan.           | 22   |
| 16    | John Oroke, Baldwin, Kan.         | 21   |
| 19    | A. R. Mitchell, Topeka, Kan.      | 23   |
| Extra | M. Seiwald, Eudora, Kan.          | 40   |

### DUROC-JERSEY.

- |     |                                 |      |
|-----|---------------------------------|------|
| No. |                                 |      |
| 21  | Arthur Mosse, Leavenworth, Kan. | \$30 |
| 22  | D. Sanders, Reno, Kan.          | 25   |
| 23  | C. D. Bowling, Eudora, Kan.     | 35   |
| 24  | P. P. Baldwin                   | 25   |
| 25  | M. A. Martin, Paola, Kan.       | 28   |
| 26  | M. A. Martin, Paola, Kan.       | 30   |
| 29  | M. Seiwald, Eudora, Kan.        | 30   |
| 31  | Charles Hoffman, Perry, Kan.    | 21   |
| 32  | M. A. Martin, Paola, Kan.       | 31   |
| 33  | J. E. Ross                      | 23   |
| 34  | John Hawk, Ottawa, Kan.         | 25   |
| 36  | L. F. Freeman, McLouth, Kan.    | 21   |
| 37  | Roy Stallins, Perry, Kan.       | 30   |
| 39  | H. A. Hollenbeck, Linwood, Kan. | 26   |

## Kuper Wins With Shorthorns

The Henry H. Kuper sale of Shorthorn cattle at Humboldt, Neb., last Wednesday was well attended by a representative lot of Shorthorn breeders, mostly from Nebraska. The offering, as the Kuper offerings have been in the past, was an exceptionally strong one, especially from the standpoint of good breeding. It was not as well con-

ditioned as it should have been to sell to the best advantage, but it was sold with no apparent attempt to cover up defects with flesh. Twenty-nine females sold for an average of \$169, and six bulls sold for an average of \$97.50. The prices ranged very even. This is a list of the purchasers.

Lot		
1	Herman Ernst, Grafton, Neb.	\$135
2	Bellows Brothers, Maryville, Mo.	305
3	T. J. Dawe, Troy, Kan.	235
4	Sample Brothers, Belgrade, Neb.	265
5	T. J. Sands, Robinson, Kan.	200
6	L. H. Howe, Humboldt, Neb.	230
7	Blank Brothers, Franklin, Neb.	165
8	Herman Ernst	125
9	T. J. Dawe	175
10	Rudolph Firme, Hastings, Neb.	250
11	Rudolph Firme	160
12	Bellows Brothers	300
13	Harshburger & Son, Humboldt.	150
14	Smith Brothers, Pawnee, Neb.	85
15	L. H. Howe	170
16	T. J. Dawe	225
17	Blank Brothers, Franklin	170
18	Davis Brothers, Pawnee	160
19	O. A. Tiller, Pawnee	95
20	Harshburger & Son	175
21	L. H. Howe	145
22	L. H. Howe	200
23	Blank Brothers	135
24	Blank Brothers	95
25	C. B. Fyke, Pleasantvale, Neb.	145
26	Blank Brothers	100
33	Ed. Broderick, Grafton	175
36	L. H. Howe	65
37	Ransom Marer, Johnson, Neb.	115
38	W. T. Gibbs, Elk City, Kan.	95

## To Encourage Co-operation

Co-operation will be the subject of the institute meetings November 13. This is one of the most important programs for the year, as the subject of farm buying and selling is receiving unusual attention not only in this state but throughout the country. Two or three people in the community should be asked to prepare lectures. They can secure material by consulting the references. Here are three good subjects for talks:

1. Our present facilities for buying and selling.
2. How can these be improved?
3. The principles of true co-operation.

### REFERENCES.

- Mohler, J. C.—19th Biennial Report, Kansas State Board of Agriculture, Pages 154 to 236. Free.
- Yearbook, United States Department of Agriculture, 1914. Pages 185 to 210. Co-operative Marketing and Financing of Market Associations. Free.
- Coulter, J. L.—Co-operation Among Farmers. Sturgis-Walton Co., New York. 75 cents.
- Agricultural Co-operation and Rural Credit in Europe. United States Senate Document 261. United States Senate, Washington, D. C. Free.
- Co-operative Organized Business Methods, Bulletin 178. United States Department of Agriculture, Washington, D. C. Free.
- Shipping Eggs by Parcel Post. Farmers' Bulletin 594. United States Department of Agriculture. Free.
- Demurrage. Information for Farmers, Farmers' Bulletin 19. United States Department of Agriculture. Free.
- A System of Marketing Farm Products and Demand for Such Products at Trade Centers. Report 98 of the United States Department of Agriculture. Free.

Write for one or more of these references. You will find them helpful. Also read the articles dealing with co-operation and markets which will soon appear in this paper.

## The November Institutes

These dates for farmers' institutes in Kansas for November have been announced by the Kansas State Agricultural college:

Carl P. Thompson and Miss Stella Mather—Linn, November 8; Barnes, Nov. 9; Blue Rapids, Nov. 10-11; Junction City, Nov. 12-13.

P. E. Crabtree, H. J. Umberger, and domestic science lecturer, first day; George O. Greene and G. E. Thompson, second day—Wellington, Nov. 11-12.

George O. Greene and G. E. Thompson, first day; J. C. Holmes and H. J. Umberger, second day—South Haven, Nov. 11-12.

P. E. Crabtree and J. C. Holmes—Cedarvale, Nov. 8; Dexter, 9.

P. E. Crabtree and domestic science lecturer—Geuda Springs, Nov. 10; Augusta, Nov. 12; Potwin, Nov. 13.

George O. Greene and G. E. Thompson—Anthony, Nov. 8-9; Mulvane, Nov. 10; Whitewater, Nov. 13.

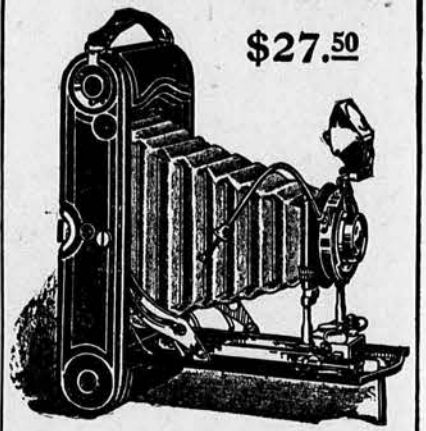
Ross M. Sherwood and Miss Alice Poulter—Springhill, Nov. 8; Black Jack, Nov. 9; Pomona, Nov. 10; Garnett, Nov. 12-13.

W. S. Gearhart and Dr. C. A. Pyle—Burlington, Nov. 8-9; Wakarusa, Nov. 10; Dover, Nov. 11-12; Perry, Nov. 13.

Carl G. Elling and Miss Louise Caldwell—Ottawa, Nov. 8-9; Fairview school house, Nov. 10; Meriden, Nov. 11.

Character, friends and money are all worth while, and the least in value of these is money.

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Has the autographic feature whereby you can date and title your films at the time of exposure, is fitted with the new Kodak Anastigmat f.7.7 lens—a lens that leaves nothing to be desired in definition (sharpness) and flatness of field and has more speed than even the best of the Rapid Rectilinear lenses.

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Wall Board Bargain—A scientific, fire-like product and asphalt mastic, water-proofed. Better than lath and plaster—rat-proof—vermin-proof—costs less. 32x24 inches, per sheet, 42¢ 32x16 " " " " " " 20¢ On orders of 500 feet or more, all ten feet long, \$1.00 per 100 square feet.

Paint Bargain—Here's a paint that usually sells for \$1.75 to \$2.00 a gallon. The jobber needed the money—we bought very low—you profit. Our price on this good paint only 99¢ a gallon. Made in 7 colors.

Asphalt Shingles—King's Asphalt Shingles, made King's Asphalt Shingles, made like roofing—laid like wood shingles. Wear longer, look better. 420 cover a square. Sold by the sq. at \$2.00. Saves you \$2 a square.

Veneer Oak Flooring—Now you can put down that new flooring at about half what you expected to pay. Our price for quick delivery, per thousand ft. \$16.00. Can you beat it?

Write for Free estimates on your lumber bill—King's Special Bargains and Free catalog and Home Plan Book. Don't pay double our price for the same quality building materials. We buy right and sell right.



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# A Week of Odd Jobs to Do

## Jayhawker Farm Gets a General Clean Up All Round

BY HARLEY HATCH

OCTOBER made amends for September so far as weather was concerned. Scarcely any rain fell, and every day was perfect; just warm enough and just cold enough; in short, a sample of how good Kansas weather could be when it wishes. All farm work was greatly advanced.



The Sowed Cane Was Put Up.

Three silo fillers have been running recently within a short distance of this farm. The material used is in most cases the immature kafir and feterita which was nipped by the freeze of Oct. 9. It remains to be seen just what value such silage will have. Those who are filling seem confident that it will not be acid; if it is not it probably will have considerably more value than if it had been cut and shocked in the field. The leaves are all killed but the stalks are still green and full of sap.

This—the last week of October—has been a week of odd jobs on Jayhawker farm. We finished the manure hauling, Monday, and cleaned the hen house. The roosts can be taken out in sections when the house is being cleaned. While doing this we discovered a small colony or so of mites. We gave them a good bath of kerosene and expect to have no more trouble with them this year. We usually use crude oil for mites but we have none on hand now. Kerosene will do the business just as well but the effects do not last so long; kerosene evaporates quickly while crude oil remains on the job for a long time.

The next job was making a gate for the cattle yard. The old one had been broken down by a colt that, while small, had the habit of standing on the lower part with her forefeet. As she grew older she grew heavier and one day she added enough weight so that it was the last straw and down went the lower cross-piece. This fall the top piece followed and we had to have a new gate. We made the frame out of 2 by 4 stuff, one at top and one at bottom of the 14-foot gate. Through the center we put three uprights; the old gate had but one, and that was the reason it went down. The whole is covered with woven fencing which makes a light, tight and strong gate. It has the added merit of being as cheaply constructed as any good gate we have seen.

The sowed cane which had been mowed down just a week was put up. The leaves had all been killed by frost but the stalks were as green as ever. So green and sappy was the stuff that we did not wish to risk putting it up in such big piles as we had planned, so drew in all we could with a rake from all ways and then piled it up with a fork. Cane sheds water like a duck

and as we shall feed all this stuff within the next five weeks we do not fear damage even if it is not in large piles. We once knew a farm paper which advocated the putting up of cane in large piles just as it fell from the mower. One farmer here tried the experiment and had a lot of rotten cane as a result.

We finished the cane Tuesday and tied 32 shocks of corn which we failed to tie at the time it was cut. Because we did not do the job when we should have done it we had a good many bundles to reset around the shocks, and two shocks were down altogether, the result of three days of strong south wind. We always like to tie corn shocks as near the top as possible and at the same time to catch all the bundles. Tying close to the top prevents rain from getting in; where the shock is tied nearer the middle the top opens and takes in all the water that falls.

In the afternoon we went to town—Burlington—over very rough roads. The summer floods damaged the roads, even those that were well graded. It is easy to see where a large part of our road money has been wasted during the last year; the 3, 5 and 7-inch rains that fell at frequent intervals wasted it by tearing ditches through good grades and making big furrows down the center of roads where only a small rut existed before. Farmers along the road seemed in no haste to cut their cane and kafir; perhaps they fear that the stalk is so green that it will spoil if bound and put in the shock before it has more chance to dry standing in the field. If we had such feed we should run the risk and get it in the shock as soon as possible.

Another case of neglect gave us an hour's job one morning. When we put up two stacks of prairie hay which had been wet in the field we neglected to tie down the tops. The hay seemed so heavy then that it did not seem possible for it to blow off, but it dried out and a hard south wind took just enough off each to spoil the looks. For tying down stack tops we use rocks weighing about 15 pounds each fastened together either with binding twine or baling wire. If the stacks are to be fed out soon twine is good enough and handles better than the wire, but if the stacks are to remain in the field over winter we like to use something that will not rot quite so quickly as the twine. On small stacks we put two hangers and on larger stacks three.

Our old sweep feed mill had not been used for some time and the wooden sweep had become too rotten to stand a good pull. So we went to the creek and cut the best red elm sapling we

could find and out of that made a sweep that will stand all the pulls it will get for many a long day. Red elm will check to some extent but aside from that fault it is unexcelled for making doubletrees, eveners, reaches and anything which requires much strength. After fixing up the mill we ground some corn for horse feed; our corn is getting pretty hard as it has been in a dry crib for a year and it should be ground for horses.

In grinding the corn we made a chop just a little finer than the chop of commerce and with it mixed one-third wheat bran. To our way of thinking this makes fine horse feed. Horses relish new corn and can eat it nicely as it is soft but the old corn is just a little too hard for a horse which has seen 10 or more years. In case one has plenty of oats he can make them take the place of bran but we still have oats and are using the bran from choice. We think it an excellent conditioner for horses in cold weather.

For some years there has been a very tough, hardy grass getting hold in the yards around the houses and barns of this section. It seems to flourish best in wet seasons like the present for this year it has about taken our yards with a growth heavy enough to choke out everything else. We have never been able to find out the name of this grass although it is becoming very common here. In the last issue of the Manchester, Okla., Journal we note an item regarding this same grass which is creeping in there. In that note E. A. Wood gives it the name of "Crowfoot" grass on the authority of an Illinois man. It takes this name, without doubt, from its head which has from three to five branches which spread out in crowfoot fashion. This grass is not spreading outside of the yards; it seems to be greatly relished by all animals and it would make good pasture if it could be made to grow, but we doubt its ability to stand drouth.

### Constant Exercise

"You ought to join our gymnasium, old man. Plenty of exercise lifting weights and all that."  
"I get all the exercise I want trying to lift a mortgage."

### MOTHER'S "NOTIONS"

Good for Young People to Follow.

"My little grandson often comes up to show me how large the muscles of his arms are.

"He was a delicate child, but has developed into a strong, healthy boy and Postum has been the principal factor.

"I was induced to give him the Postum because of my own experience with it.

"I am sixty years old, and have been a victim of nervous dyspepsia for many years. Have tried all sorts of medicines and had treatment from many physicians, but no permanent relief came.

"I used to read the Postum advertisements in our paper. At first I gave but little attention to them, but finally something in one of the advertisements made me conclude to try Postum.

"I was very particular to have it prepared strictly according to directions, and used good, rich cream. It was very nice indeed, and about bedtime I said to the members of the family that I believed I felt better. One of them laughed and said, 'That's another of mother's notions,' but the notion has not left me yet.

"I continued to improve right along after leaving off coffee and taking Postum, and now after three years' use I feel so well that I am almost young again. I know Postum was the cause of the change in my health and I cannot say too much in its favor. I wish I could persuade all nervous people to use it."

Name given by Postum Co., Battle Creek, Mich.

Postum comes in two forms: Postum Cereal—the original form—must be well boiled. 15c and 25c packages.

Instant Postum—a soluble powder—dissolves quickly in a cup of hot water, and, with cream and sugar, makes a delicious beverage instantly. 30c and 50c tins.

Both kinds are equally delicious and cost about the same per cup.

"There's a Reason" for Postum.  
—sold by Grocers.



### KNOX LEMON JELLY

Soak 1 envelope Knox Sparkling Gelatine in 1 cup cold water 5 minutes, and dissolve in 2 cups boiling water. Add 1/2 cup sugar and stir until dissolved; then add 1/2 cup lemon juice. Strain through cheese cloth into molds that have been dipped in cold water, and set in cold place to harden. To unmold, dip mold for an instant in warm water. Serve with or without whipped cream. Fresh, dried or canned fruit may be added to the above jelly for variety. This dessert may be colored pink with the tablet of vegetable coloring found in each package.

Knox Lemon Jelly is the most popular dessert, it is the easiest made and it is the cheapest.

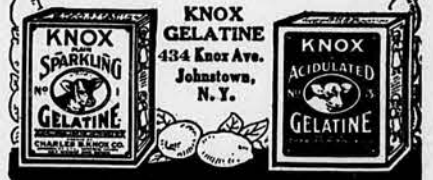
# KNOX SPARKLING GELATINE

(It is Granulated)

If you buy the Knox Acidulated Gelatine (in the Blue Box) it contains an envelope of lemon flavoring, saving the cost of lemons. And remember the package will make 2 quarts (1/2 gallon) of jelly.

Knox Gelatine is used for Desserts, Salads, Puddings and Candies. A small recipe book in every package tells you how to make them, or send for our large

New 1916 Recipe Book, FREE for your dealer's name. Pint sample for 2c stamp and your dealer's name.



**Less Work**  
By using low "Electric" steel wheels on your old running gear or using our

**Handy Steel Wagon**  
Save high lifts, get lighter draft, prevent rutting, save money in repairs—steel wheels do not dry out or rot. Write today for free catalog on wagons and wheels. ELECTRIC WHEEL CO., 30 Elm St., Quincy, Ill.

**Meco Gasoline & Kerosene ENGINES**

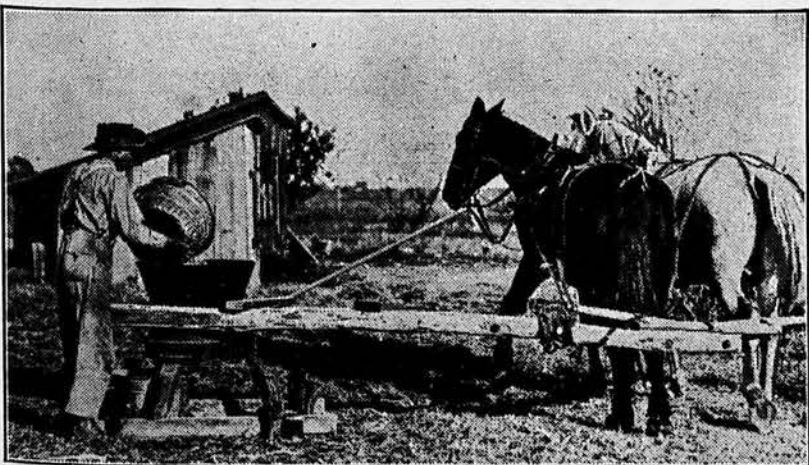
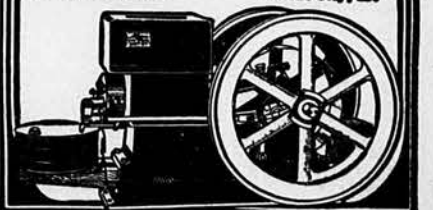
### Ask Your Dealer

for these new low engine prices.  
Stationary: 2 H-P, \$35.10; 3 H-P, \$52.65; 4 H-P, \$70.20; 6 H-P, \$100.8 H-P, \$140.40; 12 H-P, \$210.90. Portable Engines and Sawrig Outfits proportionately low.

### Guaranteed 5 Years

Before you buy any engine for any price, investigate our engines. If your dealer cannot supply you, write us, giving dealer's name, and we will send full information and tell you how to get an engine for trial. Catalog Free.

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with PORK PRODUCTS**

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**"ENTERPRISE"**  
**Sausage Stuffer and Lard Press**

**Iron Cylinder Bored True**  
Plunger plate fits accurately, rides evenly, doesn't jam  
Tin Cylinder (strainer) has wide lips for easy handling  
**4-qt. size, Japanned, \$5.50**  
Nine sizes and styles, 2- to 8-qt., Japanned or tinned

Book of information on hog raising and pork products,  
"How to Make Money with Hogs," by F. D.  
Coburn, noted swine authority, sent for 10c in stamps

**"Enterprise" Meat-and-Food Chopper**  
gives true slicing cut with four-bladed  
steel knife and perforated steel plate.  
No. 12, chops 3 lbs. minute, \$2.25  
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rugated Spout**  
keeps air from enter-  
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thereby prevents  
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Your Dealer Can Supply You  
Look for "Enterprise" on these machines  
Four cents in stamps brings you our new addition cool  
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Dept. 113, Philadelphia



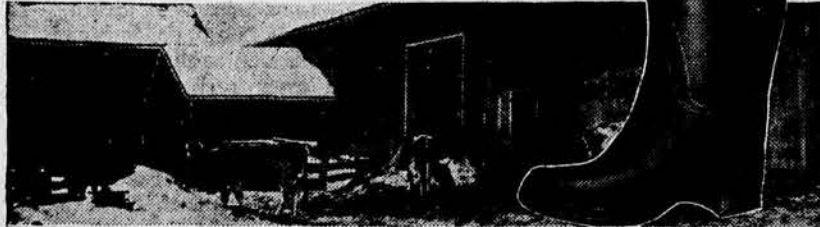
### Good Boots Make Work Light

Heavy work seems easy if your feet are warm and dry. Wear good, solid, comfortable, warm Elephant Head Rubber Boots.

Millions of farmers buy Elephant Head Rubber Boots, because they know they are right.

Hitch up, drive to town, and buy a pair today. Made in all lengths. Always look for the Elephant's Head. Sold by square dealers.

WOONSOCKET RUBBER CO., Woonsocket, R. I.



**WOONSOCKET  
ELEPHANT HEAD  
RUBBER BOOTS**

Pick Your Corn with  
the shuck on  
and use



### THE BLOOM IMPROVED LOW FEED EAR CORN CUTTER AND CRUSHER

It will handle ear corn husked or snapped, green, wet or frozen; cutting shuck and ear, also crushing and splitting the cob into very small pieces at the rate of 100 to 250 bushels per hour. We manufacture a smaller cutter and crusher for hand or power. Just the machine for cattle feeding. We also manufacture The BLOOM one and one-half, two and one-half, four and one-half and six H P Gasoline Engines. Sold Direct. Ask for prices and circulars.

**J. S. Bloom Manufacturing Co., Independence, Iowa**

## Here's a Chance to Save \$50 to \$200

On a New Piano If You Write Us Like This:

**"Please Send ELBURN Particulars and Prices"**

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**The Elburn is  
the best piano  
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**Sweet Tone, Durable, Beautiful.  
Thousands praise it. Let us tell you why.**

No matter what your desires are or what your income is, we can give you the best piano you ever saw for the price. This is not an idle claim, but absolute TRUTH and we will prove it to you. Don't buy until you get Elburn facts. Write us today.

**J. W. JENKINS  
SONS' MUSIC CO.  
KANSAS CITY MO.**

## Laws You Ought to Know

County Agents, Elections, Boards, and the Use of Voting Machines

BY C. D. YETTER

COUNTY farm bureaus may be established in counties which desire them and a county agricultural agent may be employed by organizing a county farm bureau with a membership of 25 per cent of the bona fide farmers of the county, or of 250 farmers.

These must declare their purpose to be the giving of instruction in agriculture and home economics. Their constitution and bylaws must be approved by the Kansas State Agricultural college, and when the organizing is properly done certain funds are provided by the state and federal governments to support the work. These funds are handed by the college.

When the bureau is properly organized, it is to present to the county commissioners of the county a certified list of members and a copy of the constitution and bylaws, approved by the proper officers of the college, with a certificate of deposit of not less than \$800. The county commissioners are then required to appropriate not less than \$800 and may appropriate as much as \$1,000 to pay the salary of the agricultural agent, and the expenses of the bureau. The agricultural college will then contribute not less than \$800 and not more than \$1,000 a year from federal and state funds, as far as such funds are available, to support the work. Where a farm bureau already is organized a statement from the director of extension of the college that the farm bureau has provided satisfactory equipment is required to be accepted by the county commissioners.

Two adjacent counties west of the west line of Phillips, Rush and Comanche counties may join in supporting a county farm bureau by each paying half of the expenses. The method of organization is for the members in each township to elect a vice president for their township. These vice presidents choose 10 members from their number as the executive board of the farm bureau. The county agricultural agent is selected by this board, and the person selected must have had at least five years' experience in practical farm work.

All applications for federal and state funds must be made to the extension division of the Kansas State Agricultural college, on or before June 1 and December 1 every year. These funds were made available by an act of congress approved May 8, 1914, known as the Smith-Lever act.

### Primary and General Elections.

Candidates at primary elections can avoid asking their friends to sign nomination petitions by filing a declaration of their intention to become candidates, and paying a fee equal to 1 per cent of one year's salary if for a state, district or county office which pays more than \$1,000 a year. If for a county office which pays less than \$1,000 a year the fee is \$5. A candidate for state senator pays \$10, and for representative \$5. Candidates for township trustee pay \$1, and other township officers 50 cents. This does not prevent the use of the petition form of nomination the same as before, but is an additional arrangement optional with candidates.

### Double Election Boards.

At the general election, in precincts described hereafter, the national and state ticket are to be printed on one ballot, and the district, county and township ticket on another. Two sets of ballot boxes are to be provided for the national and state ticket, and for constitutional amendments. In each precinct where 250 or more votes were cast for secretary of state there will be two sets of election officers, one to be known as the receiving board and the other as the counting board. The counting board will go on duty and begin to count and tabulate the first set of national and state ballots four hours after the opening of the polls, and must be provided with a separate room or space partitioned off for that purpose, and as soon as a ballot box is emptied, change with the receiving board and continue counting until the polls close, when both sets of officers will unite in counting and tabulating the vote.

Forty per cent of the electors in any

district who voted at the last preceding election may petition for a double board, and this petition when certified to by the township trustee is authority for the county commissioners to declare the double election board provision to apply to that district or precinct. This petition must be filed not less than 60 days before the election. This provision will not apply where there is a separate voting precinct for each 250 voters, and does not repeal any of the Australian ballot law.

### Voting Machines.

County commissioners may provide for the purchase of voting machines in any county or in any ward or precinct, but they are not compelled to do so. Any city officers or township board may decide on the purchase of such machines when authorized by the commissioners but must first satisfy themselves that such machines are accurate and provide secrecy of the ballot. A proposition to purchase such machines must first be submitted at a general or special election on a petition signed by 25 per cent of the electors of the county, city or township. The provisions for safety and secrecy of the ballot are in great detail, and judges and clerks have charge to see that the returns are properly taken from the machines.

The carrying of voters to the polling or registration place in hacks, carriages, automobiles or other conveyances for hire is prohibited. This restriction applies to candidates for office as well as to officers and members of any committee of a political party or organization in the state or any subdivision of a district. Any person, firm or corporation accepting employment or compensation for conveying electors to polling or registration place is liable to a fine of from \$10 to \$100, or a jail sentence up to 30 days or both. This fine is also applicable to any candidate or his representative or any person violating the act.

The right to vote for the nomination or election of county superintendents of public instruction is restricted, in counties having a city of the first or second class, to precincts outside of such cities and the ballots prepared for the voters in such cities are not to show any name as a candidate for the office of superintendent of public instruction. This does not prevent persons living in such cities from becoming a candidate for this office.

### Kansas Angus Breeders Organize

At a recent meeting in Kansas City a temporary organization of the Kansas Aberdeen Angus Breeders' association was effected with officers as follows: President, George M. McAdam, Holton; vice-president, W. W. Bolthrope, Whiting; secretary, William Ljungdahl, Manhattan; treasurer, E. L. Berrier, Eureka; directors; Prof. W. A. Cochel, Manhattan; Joseph Zellar, Brownell; Emery Clelland, Hiattsville; Parker Parrish, Raymond; Charles E. Sutton, Lawrence; L. J. Lindsey, Reece; F. W. Schaeede, Yates Center, and W. G. Denton, Denton. An executive committee composed of Prof. Cochel, Secretary Ljungdahl, President McAdam and Treasurer Berrier was named to complete arrangements for the permanent organization at Topeka during the next annual meeting of the Kansas State Board of Agriculture. Any owner of a purebred Aberdeen Angus sire in Kansas will be eligible to membership.

### Sanitary Officials Will Meet

The annual meeting of the United States Livestock Sanitary association will be held at the Hotel LaSalle, Chicago, December 1 and 2. This association includes all leading livestock sanitary officials and many persons prominent in various lines of livestock work in this country. The regular sessions of the meeting are open to the public, and farmers and stockmen are cordially invited to attend. Particulars regarding the meeting can be obtained from the secretary, John J. Ferguson, Union Stock Yards, Chicago.



# Trained Men Are Needed

## Power Farming Has Caused a Great Increase in Attendance at the Motor Car and Traction Engine Schools

THE RAPID development of the tractor and motor car business in the Middle West has created a great demand for men technically trained in the operation of power machinery. It is probable that this demand will increase, for the tractor business is growing rapidly in Kansas. There will be hundreds of new outfits to operate next spring. This has produced an excellent opportunity for young men on the farms today, who can get only ordinary wages now, but who would have a much larger earning power if they were well trained in the operation of traction engines.

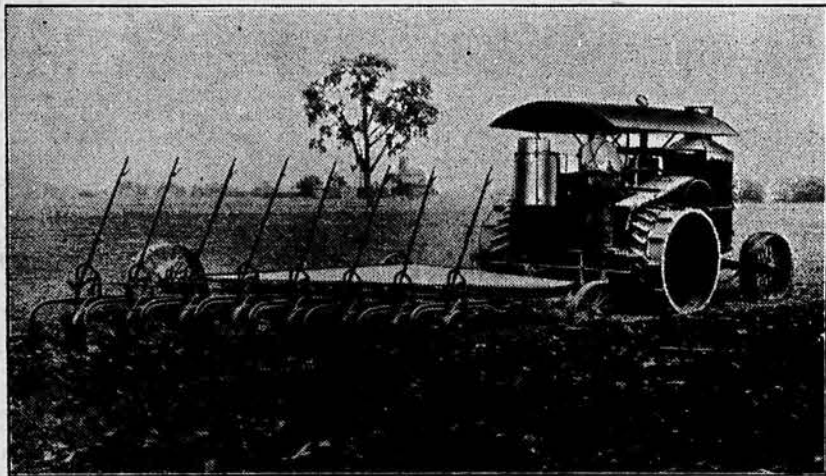
A surprisingly large number of the young men who have attended the motor training schools in the last few years have gone back to the farm. This proportion is growing rapidly, and it seems that it will increase a great deal more. In telling of this recently, the president of a large automobile training school in Kansas City, said:

"The high proportion of the young men who are returning to the farms today is one of the astonishing things in the motor school business. Five years ago at least 80 per cent of the young men came to this school with the idea of getting employment in the city in some kind of motor car work. Now, however, more than 80 per cent come

courses at the Kansas State Agricultural college at Manhattan. These short courses last 10 weeks; they begin January 3. There will be several hundred students in the traction engine and motor car work at this institution next winter, judging from the letters which have been received from prospective students. According to A. A. Potter, dean of engineering, the number of inquiries has been far larger than in past years.

Many of the leading traction engine companies have schools of their own, which take up the operation of their own particular tractor. These usually are well attended. In addition, all of the companies make every effort to give real service, through the help of experts and instruction books, to the men who buy their tractors.

The growth of the power farming business is well indicated by the interest in the Kansas Traction Plowing exhibit at Hutchinson last July, in which 40 companies were entered and at which 15,000 farmers were present one day. It also is indicated by the 900 tractors sold in Kansas this year, and by the prospect of a business two or three times as large next year. Perhaps the best indication of the interest in power farming was offered at the Wheatland plowing contest in Illinois. This plow-



Power Farming in Kansas Has Created a Demand For Men Who Are Technically Trained in Operating the Machinery Efficiently.

with the idea of going back to the farm, 15 per cent with the idea of engaging in business in their home towns or localities and about 5 per cent with the desire to stay in the city. The increase in the efficiency of power machinery in the last few years has created a demand for technically trained men, for on almost every farm there has been a great development in the use of heavy power machinery. When this is the case some of the young men in the family frequently are sent to a good motor car and traction engine training school, where they can learn to run and operate machinery efficiently.

"More than this, the power farming age has created an opportunity for hired hands. Men who are getting from \$22 to \$25 a month now, or perhaps a little more, can increase this to, perhaps, \$75 or \$100 a month, and in many cases even more, by taking a good course in traction engineering. One of the very pleasing benefits of the power farming era is the help it is giving the young men on the farms of Kansas and the surrounding states to get a higher income and a more satisfactory living standard. This also will enable them to start into farming for themselves sooner than would otherwise be possible, for the necessary capital will then become more quickly available.

The rapid growth of the motor car and traction engine schools is a good index to the development of the power farming business. About 5,000 students a year now are attending automobile schools in Kansas City; two schools there have an investment of more than \$100,000. The cost of the equipment runs this charge up, for of course the leading makes of motor cars and traction engines must be kept.

Along with the development at Kansas City has come a remarkable growth in the work of the engineering short

ing contest was established in 1877 by "Uncle Jimmy" Patterson. There had been great interest in the horse plowing contests in past seasons, but this year only about 1,000 of the older farmers watched this feature. The remainder of the crowd, or about 11,000 farmers, were a few rods away, watching a regiment of the newest gasoline tractors do work in a few hours that could not be done in a week by an army of horses.

After a meeting of the wealthy farmers who direct the Wheatland Plowing Match association, W. P. Patterson announced that the day of the time-honored match as his uncle had established it was over. "Next year," he said, "we shall have a three-day tractor demonstration. The tractor has signed a death warrant for the farm horse."

The fact that a horse plowing match which has been conducted since 1877 can no longer draw the crowd against a tractor demonstration and that this famous plowing match will now be discontinued for a tractor demonstration next year surely ought to convince all farmers that tractor farming is a real success. It also indicates the big need for men who can operate this power properly.

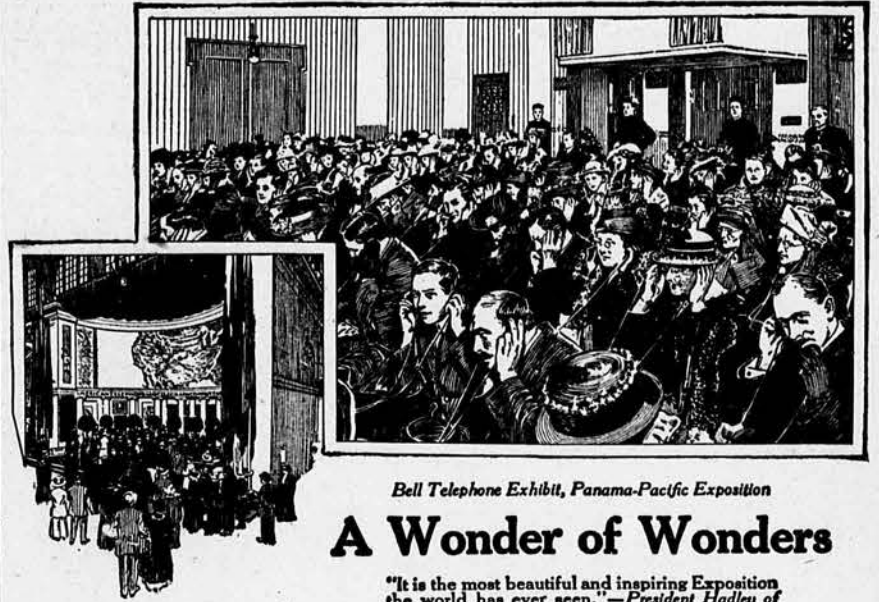
### Cause For Hurry

The Doctor—Mrs. Brown has sent for me to go and see her boy, and I must go at once.

His Wife—What is the matter with the boy?

The Doctor—I do not know, but Mrs. Brown has a book on "What to Do Before the Doctor Comes," and I must hurry up before she does it.—Hartford Times.

Oklahoma farmers have bought 347 tractors this fall.



Bell Telephone Exhibit, Panama-Pacific Exposition

## A Wonder of Wonders

"It is the most beautiful and inspiring Exposition the world has ever seen."—President Hadley of Yale, inspecting of the Panama-Pacific Exposition.

EVERY American should feel it a duty as well as a privilege to visit the Panama-Pacific Exposition and view its never-equalled exhibits of achievements in Art, Science and Industry.

In all this assemblage of wonders, combining the highest accomplishments of creative genius and mechanical skill, there is none more wonderful than the exhibit of the Bell Telephone System.

Here, in a theatre de luxe, the welcome visitors sit at ease while the marvel of speech transmission is pictorially revealed and told in story. They

listen to talk in New York, three thousand miles away; they hear the roar of the surf on the far-off Atlantic Coast; they witness a demonstration of Transcontinental telephony which has been awarded the Grand Prize of Electrical Methods of Communication.

This Transcontinental Line has taken the thought, labor and ingenuity of some of the greatest minds in the scientific world. Yet it is but a small part of the more wonderful universal service of the Bell System, which makes possible instant communication between all the people of the country.



AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service

THE CABBY IS GLAD TO GET THE GOOD JUDGE'S TIP.

THATS MY TIP TO YOU THE REAL TOBACCO CHEW

ITS THE BEST TIP IVE HAD IN MANY A DAY

IT'S a glad day for a tobacco chewer when he finds W-B CUT Chewing—the Real Tobacco Chew, new cut, long shred. And when a man uses it himself, finds how good it is, he takes pleasure in letting his friends hear the good news.

"Notice how the salt brings out the rich tobacco taste"

Made by WEYMAN-BRUTON COMPANY, 50 Union Square, New York City

**The Oxford Denver**

Colorado's largest, popular priced Hotel

300 Rooms

Rates \$1.00 per day and up; with bath, \$1.50 and up

Just one-half block from Union Depot

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



# A Hot Luncheon For School

## The Fireless Cooker Provides an Appetizing Noon Meal

BY HAB BELL  
Missouri Agricultural College

**F**IRELESS cookers are being used in many of the rural schools as a solution to the lunch problem. Many appetizing dishes may be prepared before school and allowed to cook until 12 o'clock, the lunch hour. Some other foods, such as the cereals, may be prepared in the afternoon and allowed to cook over night.

In the diet of school children cereal foods are of great value, especially when eaten, as they usually are, with cream and sugar; and any school child can prepare them. These recipes will be found good:

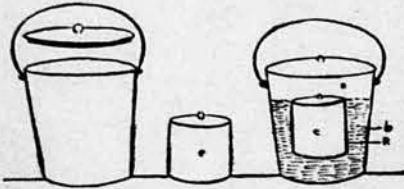
Coarse oatmeal—Take 1 cup of oatmeal, 4 cups water. Boil 10 minutes. Leave in fireless cooker over night.

Rolled oats—1 cup of oats, 2 cups water. Boil 10 minutes. Leave in fireless cooker over night.

Cracked wheat—1 cup of wheat, 4 cups water. Boil 10 minutes. Leave in cooker over night.

The cereals are very rich in starch. All starchy foods are composed of small grains, surrounded by woody cells. In cooking, these cells must be broken and the starch grains set free. This requires some time, and for this reason a fireless cooker is often used when cooking cereals.

The tough cuts of meat can be cooked in the fireless cooker until very tender and appetizing. Soups also can be prepared easily by means of the fireless cooker. The more the fireless cooker



The Cooker Is Tightly Packed.

is used the more are its possibilities recognized.

The underlying principle of all fireless cookers is the same—retention of heat. Any boy can make one, and it would be very valuable in the school or at home. He would be amply repaid for his trouble by the delicacies which could be prepared in the cooker for his school lunch.

To make a cooker a candy pail or wooden box with cover will be needed, a cooking pail with cover which fits tight, a sheet of asbestos, hay, straw, excelsior, or mineral wool for filling, and a bag or cushion with cheesecloth cover that may be washed.

Line the inside of the candy pail with sheet asbestos. It will not be necessary to line the top. Add the filling next; of the materials named above mineral wool is best. The fibers of mineral wool prevent the circulation of air, and the passage of heat is therefore retarded. Pack the filling under and around the sides of the cooking pail. The outside of this pail should be covered with asbestos, the top also. Pack the filling even with the top of the cooking pail. The filling of the bag or "cushion" is the same as the material used in packing. The cushion should fit perfectly in the space between the top of the cooking pail and the top of the outside pail. The wooden cover is then adjusted, and the cooker is complete.

### A Different Lunch Every Day

BY LILLIAN BOYD  
Greenfield High School.

A careful diet of school children is of utmost importance, for at this period of greatest growth, the diet must be varied and abundant. There are two mistakes most frequently made in the preparation of the school luncheon. The proportion of starch is too large, or the child's desire for pastry and sweets is indulged to such an extent that it is ruinous to its health.

At best a cold luncheon is not easily

digested. So the more care and thought which is expended on the menu and general daintiness of the luncheon the smaller the doctor bills and the fewer the days lost from school. By way of suggestion, the following well balanced menus are given below:

No. 1. One piece of cold chicken, three bread and butter sandwiches, one hard boiled egg, one orange, a few radishes.

No. 2.—Two ham sandwiches, a few potato chips, slice of gingerbread, one cake of sweet chocolate.

No. 3.—Two meat sandwiches, one brown bread sandwich, one doughnut, one apple.

No. 4.—Two peanut butter sandwiches, one ham sandwich, one dill pickle, one fruit or jelly tart, a little fresh fruit.

No. 5.—Two baked-bean sandwiches, celery, a few crackers, cottage cheese (in paper cups), homemade cookies, fresh fruit.

No. 6.—Two meat sandwiches, one graham bread sandwich, one cup custard, one piece cake.

As has been suggested, the dainty and tasteful lunch is much more readily digested than the carelessly wrapped lunch or the lunch carried in a dirty pail. Sandwiches should be wrapped in waxed paper. Tissue napkins and paper cups will be found useful in the preparation of a dainty lunch.

### Recipe For Prune Cake

[Prize Recipe.]

Several weeks ago I saw a request for prune cake. The answer given was for plain cake with filling containing prunes. Out here in the prune country people think prune cake means cake with prunes in it; so I send the following:

One cup sugar, 1 cup cooked prunes, 1/2 cup prune juice, 1/3 cup butter, 2 eggs, 1 teaspoon spices, 1/2 teaspoon soda, 1 teaspoon baking powder, 2 cups flour. Bake in two large or three small layers and use any preferred filling.

A fruit cake also may be made with prunes. Soak over night enough dried prunes to make 2 cups full of the pulp. Take 1 cup sugar, 1/2 cup molasses, 1 cup sour milk, 2 tablespoons lard, 2 1/2 cups flour, 2 cups of the chopped soaked prunes, 1 teaspoon each of cinnamon, cloves, allspice, nutmeg, and soda, 3 level teaspoons baking powder. Bake in a large pan. Mrs. Olive Mull. Aumsville, Ore.

### Canning Sweet Potatoes

[Prize Recipe.]

I saw in the Farmers Mail and Breeze a request for canning sweet potatoes. I will send my way: Wash and scrape (or pare) them, and drop in cold water as they are peeled. Then fill tin cans or molasses buckets, pour boiling water over them, filling the cans full, and put the lids on loosely. Cook until tender. If they are not covered with water when done fill up with boiling water, and put lids on tight. Seal with sealing wax. I have kept sweet potatoes a year canned this way. Mrs. Lillie Miller. R. 2, Glen Elder, Kan.

### Hominy Made From Milo

Take 1 quart of well cleaned milo and put in a granite or iron kettle that will hold not less than 3 quarts. Cover well with water and add 1 rounding teaspoonful of baking soda. Boil well for 1 1/2 hours, stirring frequently and adding hot water as necessary, as the maize swells very rapidly. At the end of that time drain off the soda water and cover maize with cold water. Let come to a boil and boil about 5 minutes, then drain. Repeat this operation four times, each time putting on cold water. The last time let it boil down. Salt it during the last boiling. When cool it may be put in glass cans and used as needed. When preparing it for the table

treat it the same as old fashioned lye hominy. We like it fried in bacon grease or butter. This recipe will make about 3 quarts. Mrs. Charles Ready. R. 7, Guymon, Okla.

### Children Like Mock Duck

[Prize Recipe.]

The children are again in school, hard at work, and they come home to dinner or supper with the right kind of appetites. Let me tell how I prepare a dish that "hits the right spot" at our house. Get a generous slice of round steak, pound well, and salt a little. Make a dressing, using half of a small loaf of bread (or scraps of dry bread or toast may be used). Place bread in a pan, pour on cold water to cover, and let stand a few minutes. Then squeeze out bread with the hands, and add a generous lump of butter (melted), with sage, pepper and salt to taste. Spread this dressing over the steak, roll up, and pin with two or three toothpicks. Put the roll in a roasting pan, lay a slice of fat ham or bacon on top (or a lump of butter will do), pour in a quart of boiling water, and roast in a moderate oven about 3 hours. Take out the "duck," thicken the gravy with a heaping tablespoonful of flour stirred smooth in a little water, salt to taste, adding more boiling water if needed, and send to the table piping hot. Mrs. Mary L. Shideler. Wakeeney, Kan.

### Apple Snow

Take 6 large apples of clear, white pulp, pare, core and quarter, put in a covered vessel and steam rapidly until soft, pass them through a sieve, then set them in the coldest place you can find. Beat the whites of 3 eggs to a stiff froth, add 1/2 cup or more of powdered sugar, and a few drops of vanilla. When the apples have become cold, whip the beaten egg-whites into them and keep in a cold place until time for serving. Whipped cream may be served with them.

### Putting Summer Into Winter

An indoor window box will bring much pleasure to the woman who misses her out-of-door garden during the winter months. Begonias do well in such a box; but the main object is to furnish the fresh appearance of growing green leaves rather than to raise flowers indoors. The specialist of the United States Department of Agriculture makes the following suggestions:

The begonia is one of the most attractive plants that may be used for an indoor box. It is one of the few plants that will blossom indoors without special cultivation.

Small ferns obtained from a florist will flourish. These are particularly adapted to house culture, as they do not require direct sunlight.

Even more hardy than ferns is the foliage plant known as the aspidistra. This plant will stand a measure of neglect, drouth, and dust and still thrive. It does not require direct sunlight.

Geraniums may also be used as foliage plants, though they must not be expected to blossom in the window box.

Kenilworth ivy may be planted along the edge. It will grow nicely from seed.

Smilax may be grown from the back of the box, and trained up about the window to give the effect of an attractive bower.

The inexperienced grower of plants indoors cannot expect to do well with roses. These plants are most exacting, and not only will they probably fail to flower, but also their foliage may be affected by mildew and blight.

The woman who desires other varieties of growing flowers, may supplement her window box with flowering potted plants brought in from outside, including bulbs.

A good depth for a window box is 12 inches. The bottom of the box should be covered with stones and broken pottery to give drainage, and this should be covered by a layer of moss to prevent the dirt's working down through the stones. The drainage and moss should take up about 3 inches. The soil should come to within 1 1/2 or 2 inches from the top of the box.

The indoor window box should be made to fit into the window. It may be

fastened with brackets or placed on a table, or have legs made for it. There should be a drip pan beneath, to keep water from soiling the floor.

The top of the soil should be allowed to become quite dry once in a while. Boxes may need watering in sunshiny weather every day, or at least every other day; but in cloudy mid-winter weather not more than once a week. It is better to water lightly and frequently than heavily and infrequently, although just the reverse is considered best when the watering is done out doors in the summer.

### The Woman Who Travels

To keep waists from being wrinkled in a suit case cut a piece of cardboard a little smaller than the suit case. Take narrow strips of linen or tape and glue securely on the back of the cardboard, crossways, and another piece the other way, crossing the tapes in the center and bringing them to the front. Fold the waists carefully and lay them on the cardboard, then tie the tapes across them, not too tight. Lena C. Ahlers. R. 1, Stronghurst, Ill.



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

Boys' suit 7490 is cut in four sizes, 8 to 14 years. This suit has bloomer trousers.

Corset cover 7460 may be made of one or two materials. Five sizes, 34 to 42 inches bust measure.



Ladies' skirt 7455 is cut in four gores. Six sizes, 22 to 32 inches waist measure.

Apron 7462 is for women 36, 40, and 44 inches bust measure.

Children's night drawers 7452 are made with or without feet. Six sizes, 2 to 12 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.....

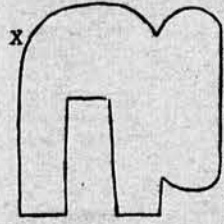
BE SURE TO GIVE NUMBER AND SIZE.





**Crocheted Sock For Baby**

To make this little sock begin at the point marked X on the outline drawing. Make a chain of 25 stitches. Single



crochet 8 rows, taking the back stitch for ribbing. Increase a stitch every other row at the top end.

Leave 14 stitches at the bottom for the ankle, then continue the ribbing for 5 rows, having increased a stitch at the top of the first row, and decreased one at the fourth and fifth rows. Then continue with another chain of 14 stitches; on this go on with the single crochet ribbed for 8 rows, having decreased a stitch at every other row.

Then leave 6 stitches at the bottom, and commence on what is to be the sole. In this you will find 22 stitches. Crochet ribbed rows on this, 14 in all. Increase a stitch top and bottom for four rows; then after another four rows, decrease a stitch top and bottom for six rows, and finish off that portion.

Using the same yarn sew the two square heel pieces together, and finish off. Then sew the long way of the sock; first, the small arch at the bottom, round the two heel pieces, then sew the two straight lines for the sole. Full



Crochet Stitches Are Easy.

the larger arch a little over the smaller one. This makes more room for the toes.

Make a chain stitch then round the opening for the ankle. Thirty-four stitches are needed for the ankle. Begin with a row of double crochet (the yarn thrown once over the needle). Omit 2 stitches between every couple that you make. This is for running in the ribbon.

For the leg follow with 13 rows of single crochet, round and round, taking up the entire stitch at a time. It is prettier for the leg portion. Finish off the top with a chain of 5 stitches, slipped with a single stitch into every other one of the round.

Use two-fold Columbia yarn, or finest Fleischer, and the smallest size ivory crochet needle.

Louisa A'hmuty Nash.  
Nashville, Ore.

**Why Mothers Should Be Pretty**

It is perfectly legitimate and eminent proper for a middle aged woman to seek to attain what Shakespeare called "That hook of wiving—fairness which strikes the eye." Indeed, if there are children growing up it is very necessary for a mother to keep herself attractive.

Our greatest social problem will never be solved so long as boys and girls go to places of amusement unaccompanied by an older person. They do not want, nor will they have, a faded, unlovely mother to accompany them to picnics, "movies," or elsewhere. But it is not impossible for even a hard working woman to keep herself so neat and youthful that the young folks will be glad to have her among them.

One of such a woman's greatest aids is a daily facial massage which requires about 20 minutes. Far be it from me to lay one extra burden on the housekeeper; but a growing boy or girl can be put at dishwashing or some other one of the mother's tasks, to make time for a duty even more important. The best time for a massage is just before retiring. A face cream is necessary; directions will accompany it.

The middle-aged woman need have no

fears of being considered vain. Sensible friends will be proud of her. A very old writer once said that, "Rare is the union of beauty and virtue"; but we of today do not believe that. There is nothing more worth while than for a woman to use every rightful means to preserve her attractiveness, that she may be her children's adorable companion during the years when they need her most.

A mother may possess a soul pure and lovely, but in order to have her child of 16 know it she must have, also, outward loveliness.

Jennings, Kan. Pearl Chenoweth.

**Everything in Place, Even Baby**

Have you never gone into a home and seen the baby sitting in a common soap or cracker box, perhaps on a bench where the box might get upset, or even by the stove where some member of the family might overturn hot water or coffee on his unprotected head? We all love the baby; but that box is so unimportant almost any accident might happen to it. We may have a box for a pet pig, chicken or rabbit; let's have something more distinctively baby-like for the darling of the household. There are tenders and jumpers and cabs for baby alone. If circumstances will permit none of these, there is the large box with padded sides, and with cushions and comforts in the bottom. Here baby can have his playthings, walk around by the edges, be out of the way and out of drafts; he can sleep and play and be amused by the older children without so much of the objectionable handling by children too young to do it properly. That box has a place and a dignity all its own. In discarding the common box we elevate baby in the estimation of the older children, and at the same time make him safer from all accidents.

Mrs. Inez Barrows.  
R. 5, Clifton, Kan.

**Rats Need Not Always Bother**

[Prize Letter.]

Here are a few ways of killing rats and mice that I have found successful. As any one knows who has tried it, some rats are too smart to be trapped, and poison of some kind must be used.

Plaster of Paris and flour mixed in equal parts and placed where the rats will find it will account for many. Paris green in flour, in the proportion of 1 to 20, will get some that will not eat the plaster of Paris.

Place any kind of good rat feed on the floor and sprinkle plaster of Paris around it so they will get it on their feet while eating. They will lick it from their feet, and often will get enough to kill. Plaster of Paris sprinkled around their holes works the same way.

None of these methods is absolutely sure of getting all, but they all help. It is a good idea not to use any bait for very long at a time, as the rats soon learn to avoid it.

H. H. Munger.  
Hollis, Kan.

**Irish Names**

Names wid the musical lilt of a troll in thim  
Names wid a rollickin' swing an' a roll in thim  
Names wid a body an' bones an' a soul to thim—  
Sure, an' they're poetry, darlint ashore!  
Names wid the smell o' the praties an' wheat to thim.  
Names wid the odor o' dillisk an' peat to thim  
Names wid a lump o' the turf hangin' sweet to thim—  
Where can yez bate thim, the whole woruld o'er?

Brannigan, Flannigan, Milligan, Gilligan, Duffy, McGuffey, Mullarky, Mahone, Rafferty, Lafferty, Connelly, Donnelly, Dooley, O'Hooley, Muldowney, Malone, Maddigan, Kaddigan, Hanrahan, Callahan, Fagan, O'Hagan, O'Houlihan, Flynn, Shanahan, Lanahan, Fogarty, Hogarty, Kelly, O'Skelly, McGinnis, McGinn.

Names wid a fine old Hibernian sheen to thim,  
Names wid the dewy shamrock clingin' green to thim.  
Names wid a whiff o' the honest potheen in thim—  
Sure, an' they're beautiful, darlint ashore!  
Names wid the taste o' the salt o' the earth to thim.  
Names wid the warmth o' ancestral hearth to thim,  
Names wid the blood o' the land o' the birth to thim—  
Where can yez bate thim, the whole woruld o'er?

—John Luklow.

**Trent Is the Champion**

A medal was awarded to S. G. Trent of Hiawatha at the Panama-Pacific exposition at San Francisco last week as the best corn grower in the state. His record yield is 117 bushels an acre.

**It is easy to make a delicious cake**

With a good recipe, good materials, and Rumford Baking Powder, even the young and inexperienced can make delicious cake. Cake that is light, tender, nourishing and digestible, because Rumford is a perfect leavener, and always gives the best results. Its uniformity, purity and healthfulness make home-baking most wholesome and economical.



Let us convince you—send for a trial can.

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in stamps  
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Awarded  
"GOLD MEDAL"  
Highest Award  
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**The "Thoroughbred"**

It is as poor policy to keep a "scrub" range in the kitchen as to keep a "scrub" cow on the farm. Whether it be range or cow, the cost of keeping a scrub is more than that of the thoroughbred—and the results are less.  
The Majestic is the thoroughbred among ranges. It takes a small "feed" of fuel and gets the utmost cooking value out of it, because it distributes the heat where it will do its best work and keeps it there—the heat can't leak out of the ever-tight, cold-riveted Majestic. With no heat wasted, less fuel is used.  
The Majestic oven never fails you because its scientific construction circulates the heat evenly to all parts of oven; and its heavy

asbestos lining reflects the heat all over and under the baking; perfectly baking and browning all sides, without turning.

The Majestic body of charcoal iron resists rust three times as long as steel; and its top, doors, frames, etc., made of tough, malleable iron are unbreakable. Repair expense is reduced to practically nothing.

The little extra price of a Majestic is soon saved by its economy in fuel, food and repairs—and it outlasts three ordinary ranges.

There is a Majestic dealer in nearly every county of 42 States. If you don't know one near you, write us and we will tell you who he is.

One quality, many styles and sizes, with or without legs.



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Tells what to look for and what to avoid when buying a range. You can't judge a range by looks. You should know how they are made and why.  
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Guaranteed to Stand Wash and Wear!

This beautiful and durable table set consists of one Table Cloth and six fringed Napkins, full standard size as stated above. Made of genuine German Damask that is absolutely guaranteed to wear and retain its color and appearance after washing. The illustration falls far short of doing this magnificent set justice. It is pure white center with delicate tinted borders. A set that any woman will be very proud of.

We will send this useful table set free and postpaid upon receipt of one dollar to pay for two subscriptions to The Household for a period of three years each. Either new or renewal subscriptions will be accepted on this offer. Address

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When writing to advertisers mention the Farmers Mail and Breeze.



# Bank Accounts Are Growing

You'll Be Surprised To See How Many Ways of Making Money Farm Boys Know

**I**N THE spring I decided to make a hotbed. I sent to a seed house for some tomato, cabbage and cucumber seeds and prepared my hotbed. My father told me he would give me all I could raise on a piece of land about 50 by 100 feet. I had to fence it and prepare the ground myself. One of the storekeepers in Stafford had some onion sets he could not sell and he told me I could plant them on the shares and give him a fourth of the crop. There were 12 quarts of the sets and I bought 3 quarts of my own. They filled about half of my garden. I planted cucumbers in a fourth of the garden and sweet corn, tomatoes, radishes, turnips, carrots, peas, beans and beets in the other part. My radishes were large enough to sell in about three weeks. I got 3½ cents a bunch for them and made \$2. My onions soon were ready to sell at 5 cents a dozen and I cleared about \$1.50 from them. My cucumbers were ready next and the storekeeper offered me 40 cents a dozen for them. They brought me nearly \$8. One cucumber measured 12 inches long and 10 inches around. I also planted a bushel of seed potatoes and raised 6 bushels which I sold to the threshers at \$1 a bushel. I made about \$2 from my hotbed. I took the directions for it from the Farmers Mail and Breeze last March. I think it is a fine paper. It helped me about my garden and my chickens also. I have about 125 Buff Orpingtons and I made the house and pen for them myself. Edward Slade, Jr.

R. 3, Stafford, Kan.

### The Water Was Fine.

When papa was planting potatoes last spring I planted one row before I went to school in the morning and he told me I could have it for my own. When I dug them I had three bushels and I sold them for 75 cents a bushel. I had seven long rows of popcorn and I am going to sell most of it. We had a flood when the corn was about 6 inches high and the water washed down some of papa's corn. My sister and I straightened it and papa gave us one row and it is the best we ever raised. When I sell my corn I am going to get me a suit of clothes. I also have a row of peanuts. A creek called West Branch flows through our farm and I have lots of fun fishing, but the most fun I had this summer was learning to swim. I can swim pretty well now. I can swim across the creek. We had so much rain all summer that the water gate washed out and I would go to help put them in so that I could swim across the creek. Now school has begun again. I am in the third grade and am 8 years old. Donald Cameron.

R. 4, Eldorado, Kan.

### Almost a Man's Work.

I am a boy 14 years old and I worked out for \$4.50 a week during my vacation. I drove three horses to a sulky plow and four horses on a two-row cultivator and tended 45 acres of corn and mowed 37 acres of hay and helped to stack it. I milked four cows at night and three in the morning. With part of the money I earned I bought a suit for my younger brother and one for myself. On Sundays I went to Sunday school with my brother and little sister, and when it was too wet to work in

the field on other days I went hunting and horseback riding. There was a fall festival here and I attended both days and had a good time. I won third prize in the foot race and my brother won first prize in the potato race. With the remainder of my earnings I am going to buy a heifer. My vacation has ended now. We drive 4½ miles to school. Our school began September 13. Seibert, Colo. Conard H. Smith.

### All Sorts of Good Ways.

Mamma was ill in the spring so my sister and I helped take care of the chicks and make the garden. Now we have some chickens of our own to sell and we sold the onions and had the money for our work. We put three goldfish out in the big tank and they hatched 21 little goldfish and we sold some at 25 cents for two. Sometimes we ran errands and earned a few pennies. We saved all the apricot seeds we could get and sold them to the nurseryman for 3 cents a pound. Next year we are going to save mulberry seed to sell to him. We have an old guinea pig and three little baby pigs. We also have more than 100 pigeons and sell squabs. We save all the old rubber and copper and sell it to the junk man. In the spring we sold \$5 worth of popcorn and planted some for ourselves. We have had lots of fun on our bicycles that we bought with our own money, and we have some money left in the bank. We each have a little bank book of our own. Don't you think we have done well for a little girl and boy 8 and 9 years old? Ross and Dorothy Hansen.

Aulme, Kan.

### Young Dairymen.

Papa went to work in the mines early in July and left my brothers and me to care for the farm and the dairy. I am 14 years old and my brothers are 10 and 12 years old. We milked eight cows every day. We delivered the milk in a small mining town morning and evening. My youngest brother delivered the milk in the morning while I worked on the farm and I made the rounds in the evening. We were paid 7 cents a quart for the milk. We provided for the family of 11 members and cleared \$26 in July and August. Neosho, Mo. Raymond Cole.

### Popcorn and Melons.

My brother and I had about 250 or 300 hills of watermelons and muskmelons that yielded fairly well. We ate quite a number of both kinds of melons and we sold some banana muskmelons for 25 cents apiece. We also have a patch of popcorn which we think will yield very well. We just finished pulling our onions and we had quite a yield. I have worked for a neighbor for 50 cents a day for a good part of summer and I had the job of cleaning the schoolhouse. Robert Osborn, Jr. Cunningham, Kan.

### By Lightning Express.

Here is how I earned \$12 this vacation. Papa paid me for doing chores during harvest. I got up early and went after the cows. Part of the time I milked three cows, ran the separator, and fed three calves. I put in the feed

for the horses while papa unharnessed them and I hauled water, lunch, oil and twine to the field in my express wagon. Mamma had been in the hospital so I helped her with the meals and churning. I spent my Christmas vacation in the hospital where I had my tonsils and adenoids removed. As I know how it is to be sick I am going to send part of my money there to help make other children well. I shall be in the fourth grade this year.

George C. Ancell, age 11 years. R. 2, Wakita, Okla.

### The Bees Didn't Like It.

Papa gave me a pig last fall and I fattened it in the winter and sold it to papa in February for \$5. Then mamma gave me five goose eggs. I set them under a hen and raised three goslings. When they were grown I sold a pair to mamma for \$1.50 and I gave my sister a lame one that an old turtle had got hold of. I also had some ducks and sold one of them for 35 cents and sold a setting of eggs for 25 cents. I grew some nice onions and sold some for 22 cents and gave the rest to mamma. Then I had the best times working and playing with my dear old grandpa who is just like a boy and soon will be 71 years old. He lives in Arkansas in the winters and spends the summers with us. We worked in the garden and cut weeds in the cornfield where it was too wet for papa to cultivate and lots of fun I did see. The day before grandpa went away we went fishing and in the woods we found a bee tree. I climbed it to see if there was any honey and the bees took after me and down I jumped and ran through the bushes. Grandpa laughed till I had to laugh too. I took some of my money and went part way with him when he started home. Loys Fisher, age 11 years. R. 2, Centralia, Kan.

### Trapping Pays Well.

The moles got so bad on our place that one day when papa went to town I asked him to bring me a mole trap and when he came home he gave me the trap. I set it by the side of the house where a mole had worked and that evening I had a mole. I got 10 cents apiece for the moles so I kept setting the trap until I made a good bit of money. I also set gopher traps in our alfalfa field and in our neighbor's field. The bounty for gophers is 10 cents and the neighbor gave me 5 cents for every one I caught in his field so I received 15 cents apiece for them. I made about \$3 trapping gophers and moles.

Charles Noal Derrick, age 10 years. Abilene, Kan.

### Profit in Wheat.

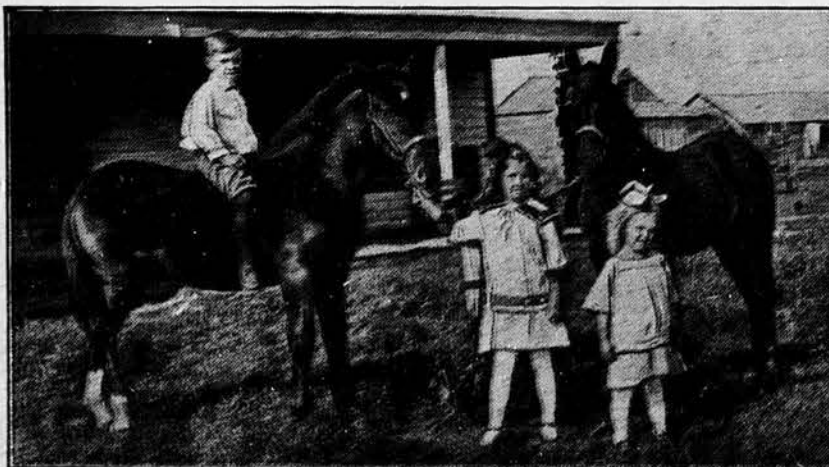
I am a boy 12 years old and live on a farm. I like to work on the farm. This summer I cleaned the wheat that shattered out in the barges at harvest and got a little over seven bushels which I sold for \$6.75. I bought a young sow with the money. I also chopped weeds and earned some spending money that way. My mother gave me a setting of eggs last spring and nine of the chickens are living. I intend to sell them when they are grown.

R. 1, Gage, Okla. Harry Miller.

### Can You Beat This Record?

Our school closed the first Friday in April with a big dinner and a fine program. I went to work next day to help father and mother. I helped make garden and set out tomato plants and we have had lots of tomatoes. I tried to raise some celery and it grew beautifully. I put straw around it to bleach it. I hoed weeds in the garden and cut sunflowers and weeds around the farm. We have more than 400 chickens this year and I helped mother take care of them. I chop wood for mother and milk the cows and help father with the chores. We have a few sheep and I help take care of them. I help mother wash on washday. My little brother and I cut green corn fodder for the hogs and dug potatoes. I helped shock wheat and oats and drove the horses to the header box in harvest. I also helped cut the alfalfa and put it in the barn and hauled wheat to town. We bought a motor car in May and we had a good many rides in it. I go to Sunday school and in August we had a Sunday school picnic and I had a fine time. I went to school all last year without being absent or tardy and I am going to try to do as well again this year.

Clarence McKinnis, age 11 years. Lyons, Kan.



Paul, Adah and Ethel Hodges, Canton, Kan., With Their Pet Colts, Nellie and Bill. The Colts Are So Gentle Paul Leads Them Anywhere He Wishes.

## TRAPPERS

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 a lot to every trapper. Tells how to make better traps that cost you little or nothing. Tells How, When and Where to trap. Also a catalog of Traps at Factory Cost. Send your name in for the Lyon List, Free Shipping Tags, and our regular price quotations. **Rely on Lyon!** to pay the highest cash prices. We sell Guns at low prices.  
**M. LYON & CO.**  
 226 Delaware St., Kansas City, Mo.  
 Established 1870.

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Our classified price-list and market report is free to all trappers and shippers of RAW FURS. Write for it today and keep posted by a firm who's prices you can always depend upon. **WE PAY WHAT WE QUOTE WITH A LIBERAL SELECTION**

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## FURS

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Get More Money For Your Furs  
 Don't ship anyone furs till you get our Free Bulletin quoting cash prices we actually pay for Coon, Mink, Skunk, Oppossum and other furs. We charge no commission. Write today for Free Bulletin, it will pay you big.  
**NATIONAL FUR AND WOOL CO.**  
 Dept. 397 St. Louis, Mo.

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**HENRY HOLM, Proprietor**  
 Send us your hides and furs and have them made into coats and robes and garments for the whole family. Send for shipping tags and catalog.  
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**TRAPPERS:** Get full price for your furs, ship them all to us. We pay full price for Coon, Skunk, Possum, Fox, etc.  
**SEND FOR OUR BIG FREE PRICE LIST** which is latest market quotation on what furs should bring. We absolutely pay prices quoted in our circular. We charge no commission. Write to-day.  
**MASON FUR CO., 728 Trappers Bldg., St. Louis, Mo.**

## Trappers

Write Us First Get our price list and shipping tags. **Highest Prices for Furs**  
 We buy any quantity—every kind. Send today for prices and shipping tags sure.  
**McCallough & Tumbach, 128 N. Main St., St. Louis, Mo.**

## FUNSTEN PAYS CASH FOR FURS

Bigger Money this year than ever in trapping coon, skunk, fox, mink, muskrat, etc. You can trap furs—we teach you how. Write for free book.  
**FREE** 3 books in one. (Trappers Guide—Supply Catalog—Game Laws). Give full information. For price lists and shipping tags—all FREE. Write today.  
**Funsten Bros., 216-218 Justice Bldg., St. Louis, Mo. Largest in the World in Our Line**

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 Ship to Rogers. We give liberal grades, full value in cash and quick returns. We have best market in America for Furs, Hides, etc. No commission. Write today for free price list.  
**Trappers' Supplies at Factory prices**  
**ROGERS FUR COMPANY, Dept. 195 St. Louis, Mo.**

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to Hunters and Trappers  
 Fine Taxidermy Book Now Free. \$25. with hundreds of photos of mounted birds and animals. Learn this profession. Save your trophies. Decorate your home and den.  
**Learn to Stuff Birds** animals, game heads, tax skins, make rugs & robes. Quickly learned by men and boys. Big profits from spare time. Intensely interesting. Investigate. Write today for free book. Only a few free—no rush.  
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## FREE TO TRAPPERS

Get started right this season and make more money. Send your name today for **RUMBAUGH'S MARKET REPORTS**  
 new ready to mail. They quote latest market prices. Furs from northern states are my specialty and I'll pay the most money for them. Correct grading means more money for you. I guarantee my grades or return your furs. Write today!  
**W. R. RUMBAUGH, 528 Wagner Bldg., Des Moines, Ia.**

## 31 PIECE DINNER SET FREE

For selling 12 boxes White Cloverine Salvo at 25c per box. Give beautiful picture free with each box. Every body buys 2 to 3 boxes when you show pictures. Send for one today.  
**WILSON CHEMICAL CO., Dept. N. 4, TYONE, PA.**



**Fresh Air For Seals**

"It's a great big bother to put that old window up every night," growled Bobbie one evening at bedtime.

"It's a good thing you aren't a seal, Bob," laughed Cousin Fred. "They'd think they had a snap if all they had to do to get fresh air was push up a little window sash."

Bobbie stopped unlacing his shoes to look up at Cousin Fred in surprise. Cousin Fred was visiting at Bobbie's home and knew the most interesting things. But then he was a big boy in high school and ought to know lots, of course. "What are seals?" Bobbie asked with interest.

"They are animals that live up in the Arctic Ocean," Cousin Fred answered. "The water is so cold they have to wear a coat of fur over their bodies, and to keep them still warmer, they have a layer of fat or blubber an inch or more thick right under their skins. It isn't difficult to get fresh air in the summer when all they have to do is come up to the top of the water once in a while, but in winter when the ocean freezes over it's a different story."

"What can the poor things do then?" Bobbie asked.

"Why, cut a hole through the ice," replied Cousin Fred, "and as they have no hands or hammers or saws it's a pretty big job. The seal chooses a spot he thinks will be easy and then begins drilling a hole by pressing his warm nose against the ice. Nobody knows how many hours it takes him, or whether he gets his friends and neighbors to help. Sometimes seals have been known to drill through 30 or 40 feet of solid ice. He keeps the hole open all winter, and you'd better believe he doesn't have much time to fool around, either, for the water on top keeps freezing over constantly, making more ice for Mr. Seal to cut. That isn't the worst of it, either, for some day when Mr. Seal pops his head up to his ice window for a breath of air he is likely to be pierced by the spear of some waiting Eskimo hunter and carried off to an ice hut to make a dinner for all the little Eskimo children. Big white polar bears watch at these air holes, too, trying to catch fish through them or ready to pounce upon the first seal that appears."

"My, oh!" cried Bobbie. Then he said slowly, "I guess it isn't bad to have to put up one or two little windows after all, specially when a fellow can use his hands and doesn't have to do it with his nose," and his face was so sober it made Cousin Fred laugh.

**Forms of Greeting**

Boys and girls who meet friends on the street usually greet them with a cherry "Hello," though mother and teacher insist that "Good Morning" or "How do you do" is better form. In other countries children are taught different forms of greeting. The little Turk learns to say gravely to the friends he meets, "God grant you his blessing," while the Arabs salute one another with "A fine morning to you!" In Egypt where for centuries men have toiled in the burning glare of the sun, the accepted form of salute is, "How do you perspire?"

The funny little Chinese boys are taught to ask their friends, "How are you digesting?" for all Chinese are fond of good eating. If you lived in Spain you would say, "How are you passing it?" or if you were a child in France you would ask your friends, "How do you carry yourself?" Germans ask, "How goes it?" and the Dutch inquire, "How do you travel?"

**Plants That Murder**

There are plants that are murderers, kidnapers, advertisers, explorers and storekeepers, says the Woman's National News. The moccasin flower is a wanton murderer. Its flowers are so shaped as to lure ants and other wingless insects to them. Once inside they have no chance to escape. There they stay, struggling until they starve to death. Some orchids, while not considered insect eaters, undoubtedly draw a certain amount of nourishment from the decayed bodies of their insect prey. Many other flowers trap insects, which they kill and gradually digest as food.

Indian Pipes are robbers and grafters as they draw their living from the roots of other plants.

The Jack-in-the-Pulpit is a shameless kidnaper. His beautiful pulpit has a

slippery, treacherous lining. When gnats and other small insects enter in search of shelter and food, they easily slide to the bottom, whence escape is impossible. Here at the bottom of the pulpit may be found the corpses of many wanderers, all kidnaped by the Reverend Jack!

The pitcher plant is another kidnaper, but in its case it is the leaves that are guilty.

There are plants that lure rats and small animals into their cup-shaped flowers to the destruction of the rodent.

**Books You Will Like**

Two good stories for boys are "Fair Play," by Hawley Williams, and "The Secret Play," by Ralph Henry Barbour. Both are football stories, the scene of the one being laid in a boys' school and of the other in a high school where girls have their share in the school's good times. The books are interesting from start to finish and all the boys in it are thoroughly likable fellows who play the game fair and hit the line hard. "Fair Play" and "The Secret Play" are published by D. Appleton and Company, New York.

A book sure to be welcomed by girl readers is "Sebago-Wohelo Camp Fire Girls," by Ethel Rogers. It is an entertaining account of a summer at the original camp of camp fire girls, and

their swimming, rowing, cooking, craft work and good-time "stunts." The meaning of the symbolic names by which the girls of the camp are called is given, as are also the words and music of some of the camp-fire songs. "Sebago-Wohelo Camp Fire Girls" is published by the Good Health Publishing Company, Battle Creek, Mich.

**Aztecs Chewed Gum**

Most of you have read in your history books that potatoes, Indian corn and tobacco were first known to the Indians of North America and later taken to Europe by the white men who came to this country on voyages of discovery, but how many of you knew that the first chewing gum came from this continent also? It was in Mexico that the first gum-chewers known were found. The followers of Cortez who conquered Mexico reported the Aztecs chewed a kind of gum to quench their thirst and relieve fatigue. This gum was the dried sap of the sapote-tree and was obtained by tapping the tree in much the same way that maple sirup is collected in New England.

**A Show That Was Free**

In harvest time mamma paid me for helping her peel onions, potatoes and peaches, carrying water and setting the

table. I helped to feed and water the little chickens and shut their coops at night. Mamma gave me a hen and 20 little chickens for doing this. Some of them died but I sold four and have a few left. In the spring papa gave me two little pigs that had no mother and I made a pen for them and fed them milk three times a day, and also some corn. I am going to sell them when they get bigger and buy me a bicycle. I like to work in the field. I sledged corn three days for papa. One day when we were going over to the field we saw an aeroplane going south. It went almost over our house, and I liked to watch it for it was the first I had ever seen. Four days later papa and I were down in the field and we saw the aeroplane going back again. It went very fast and when it got a few miles northeast of us the tank began to leak so the aviator made a hasty descent and in landing broke his machine. He had to finish his trip on the train.

Harlan K. Davis.

R. 2, Avard, Okla.

**At Niagara**

"You had a day at Niagara, I understand."

"Yes, had a delightful time there, too."

"Falls were pretty fine, eh?"

"Why—er—we didn't see the falls. We spent all our time at the movies."

—Judge.

# The Secret of Prize Winning Soap

is the choice of the lye that goes into the soap kettle.

You can win one of the prizes that this paper is offering for home made soap. You can get a mighty comfortable lift on this winter's pin money. But you must remember one thing. Be sure to use

## Lewis' Lye

The Standard for more than Half a Century

Lewis' Lye will saponify every particle of grease that goes into your prize winning cake of soap. You can be sure of it because it is always uniform—each can that you buy of your local grocer is just as good, just as high test, just as efficient as every other can.

You needn't be so particular about the grease if you're sure the Lye is "Lewis'."

Clip the attached coupon and send it to us today for two sure recipes for home made soap.

PENNSYLVANIA SALT MANUFACTURING COMPANY

Manufacturing Chemists PHILADELPHIA



Name \_\_\_\_\_  
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 R.F.D. \_\_\_\_\_  
 Please send me Book giving prize-winning recipes for making soap.



### Prevent Spread of Roup Now

Thousands of dollars will be lost to Colorado poultry men and farmers this fall because of carelessness, says W. E. Vaplon, of the Colorado Agricultural College. Too busy; no hurry; will do this or that before cold weather. But we never get over the rush; there is no use in hurrying after the damage is done; we never do tomorrow what we neglect to do today.

There is little danger from roup if we can get through the fall months without its appearance. Now is the time to prevent the disease getting a foothold. These cold, snappy nights and cool, wet mornings are likely to cause colds, especially when fowls are crowded in their roosting quarters or coops.

Sell all the old hens not wanted as next year's breeders, now. They are about through laying for the season, are taking a long vacation, and are worth as much a pound as they ever will be.

Send all cockerels not salable as breeders to market as soon as they are large enough. The price is rapidly dropping and will continue to do so, but even at a better price you could not afford to crowd your pullets.

Mites and lice have too often had free swing about the place. Get busy now unless you want these pests to put your fowls into the right condition to contract roup.

We have no cure for roup but here is a recipe for prevention:

Clean quarters: Which means freedom from insect pests, clean floor, new earth if the floor is of dirt, regular cleaning, not necessarily daily.

Plenty of room: The poultry house should be roomy enough to be used as a play room during stormy weather.

Clean feed and water.

Culling: Weaklings never should be tolerated. Kill and bury the runts and crowheads. Roup is infectious and the weaklings are the ones first to become infected.

### Sour Milk For Hens

Milk or meat in the ration may make all the difference between profit and loss, declares H. L. Kempster, professor of poultry husbandry of the Missouri college of agriculture. We know from our tests at the experiment station and from the experience of poultrymen everywhere. We got only 945 eggs from

#### A Good Sour Milk Ration.

Corn, 4 parts.  
Wheat, 2 parts.  
Bran middlings, 1 part.  
Corn meal, 1 part.  
Sour milk separately.

Give 100 hens  $2\frac{1}{2}$  gallons of milk and from 19 to 25 pounds of other food a day.

a pen of hens that ate no animal food, while another pen of hens, no better in any way, but fed sour milk, laid 1,783. Those fed beef scrap laid 1,802 eggs. While this is a higher record than either of the others, the sour milk is so much cheaper and easier to get on most farms that we recommend it most highly. At 20 cents a dozen, the eggs from the hens fed sour milk brought \$29.71 and those from the hens fed beef scrap, \$30.03. The difference wouldn't begin to pay for the extra cost and trouble of beef scrap. The big thing to remember is that the hens fed no animal food brought little more than half as much egg money. Theory and experience both say, "Feed the laying hen sour milk as part of her ration."

### The Old Town Grows

W. C. Austin, recently retired from the office of state printer of Kansas, returning to his old home, Cottonwood Falls, could find no house to rent. In the four years he was away, many new families came to live in the town, occupying all the desirable houses. Cottonwood Falls is the county seat of Chase county, in the celebrated Cottonwood Valley. It is a county of cattle ranches on the upland, and alfalfa farms in the valleys.

W. O. Vanarsdale, of Wichita, Kan., has planted 4,480 acres of wheat in Curry county, eastern plateau of New Mexico, this fall. The machines worked day and night.

## Russell Hens Are Rustlers

### One Farm Flock of Leghorns Earned \$2.50 a Hen in 1914

BY MRS. GEORGE L. RUSSELL

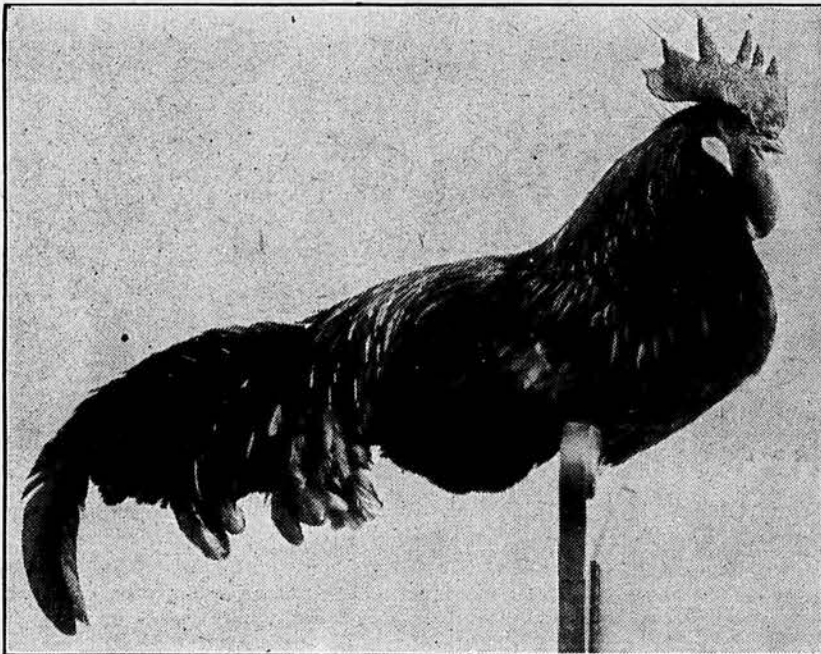
OUR farm flock of fewer than 300 Single Comb Brown Leghorns paid a net profit of \$745.80 in 1914. The cash sales, including eggs, poultry for market and for breeding purposes, totaled \$670.50. Increase in flock is valued at \$247.30. Feed, advertising, baskets and miscellaneous expenses, amounted to \$172. The income from our flock has increased from \$112 in 1907 to the amount given for 1914. The total sales for the eight years amount to \$2,056. This year we increased our flock to 500 hens and expect them to earn \$1,000 clear money.

Many farmers contend there is no money to be derived from keeping poultry and giving it proper care and feed. Let me give you a few more figures from our farm. During the eight years we have had an average of seven brood mares on the place. The mares are valued at about \$200 each and we have sold colts amounting to \$2,280. The mares show an investment of \$1,400 while the hens would not be valued at more than \$300. And we have lost one mare every two years, which takes \$800 from the profits of that investment. Farmers should begin to realize that

meal, 1 part shipstuff, and 2 to 5 parts commercial meat scraps. A little salt is added. The yard supplies green stuff for all but about two months and then we feed sprouted oats. When we have early hatched pullets there is no scarcity of winter eggs.

Work has been systematized to save labor, so I spend no more time caring for my flock than other farm women. All the feed is in convenient places and water is piped to the yards. The piping of the water didn't cost much, as pipe is cheap and the farm hand did the work. But it saves more labor than any other convenience. The hens have a constant supply of good water which is a necessity in profitable egg production.

We use incubators. Leghorn hens are too busy laying to sit early, and early hatched chicks are the money makers for us. The young chicks are fed rolled oats for several days, then chopped corn and wheat is added to the scratch feed. As soon as the chicks are transferred to the brooder house small hoppers are filled with dry bran mixed with a little ground charcoal. If possible I give no other drink except sour milk until the chicks are 10 or 12 days old. This gives



A Son of Creation, First Cock at Madison Square Garden in 1913. Owned by Mrs. George L. Russell.

poultry production can be made the most profitable part of the farm, with the smallest investment.

We have been breeding Single Comb Brown Leghorns for five years, and have been trying to produce a good laying strain. While it has not been possible to trap nest we select egg type hens and breed only from them. Our flock is examined carefully every fall and hens that are not egg-type are sold on the market. By studying the methods of well known egg specialists we have greatly improved the laying qualities of our flock. We are also trying to breed to conform to the standard of perfection, in order to have exhibition stock.

Our chickens have free range most of the time, and the breeding pens are large. This cuts the feed bill in half. On most farms there is more or less ground around the hen house that is not used. We sow this ground to wheat, oats, cowpeas and corn or kafir. The chickens do the harvesting and the soil is purified by the crop. We find that it does not pay to feed the entire flock for winter egg production. Every fall the earliest pullets and best yearling hens are selected and placed in a special house. This house has a half acre yard, sown in wheat or rye for winter pasture. These hens are fed egg producing food and the others are fed just enough to keep them in good condition.

Our laying house is 50 feet long and 10 feet wide. The center is open front with muslin curtains. A deep litter of straw is strewn on the floor and the grain fed in this litter. We feed wheat or oats, sometimes both, in the morning, and shelled corn at night. A long home-made hopper is filled with a dry mash consisting of 2 parts bran, 1 part corn-

meal, 1 part shipstuff, and 2 to 5 parts commercial meat scraps. A little salt is added. The yard supplies green stuff for all but about two months and then we feed sprouted oats. When we have early hatched pullets there is no scarcity of winter eggs.

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### Kansas Poultry at the Big Fair

Kansas is to be well represented in poultry entries at the World's Fair at San Francisco, Cal. From 19 towns over the state 37 exhibitors have entries at the fair.

There are 191 single entries and 12 pen entries. This makes a total of 251 birds entered in the poultry department from Kansas. Those entering fowls are: H.

M. Palmer, Florence; Mrs. H. Bachelder, Fredonia; J. S. Sims, Stafford; W. F. Alden, Ellsworth; W. C. West, Topeka; C. R. Baker, Abilene; J. M. Taylor, McCune; Caskey & Fowler, Topeka; D. V. Taylor, Topeka; J. C. Baughman, Topeka; L. P. Hubbard, Topeka; L. A. Harper, Topeka; George Beuoy, Cedar Vale; R. P. Krum, Stafford; A. P. Moore, Stafford; H. A. Meier, Abilene; J. A. Bush, Leavenworth; Mrs. J. M. Post, Colony; Bert White, Burlingame; R. W. Wiscombe, Manhattan; N. Kornhaus, Peabody; Clyde C. Whiteley, Wichita; Moore & Moore, Wichita; E. W. Armstrong, Wichita; George Unruh, Chanute; Cleveland Carson, Mound Valley; A. J. Meyer, Leavenworth; B. T. English, Leavenworth; A. H. Vanderhoff, Neodesha; L. H. Wible, Chanute; W. H. Beaver, St. John; E. W. Rankin, Topeka; J. R. Graham, Topeka; E. E. Heidt, Topeka; Mrs. A. J. Higgins, Effingham; Mrs. Clyde H. Meyers, Fredonia; W. W. Stover, Fredonia.

### A Foot and Mouth Meeting

There will be a meeting at the Hotel La Salle, Chicago, November 29 and 30, to discuss the foot and mouth disease. It is hoped that at this meeting some plan will be developed which will help in preventing or controlling this disease in the future. According to Carl Vrooman, Acting Secretary of Agriculture, it "is not called for the purpose of rehashing ancient history." In his letter which tells of this meeting, Mr. Vrooman says:

"The United States Department of Agriculture has decided to call a conference of state livestock sanitary officials, agricultural college experts, practical stockmen, and representatives of livestock papers, transportation companies, stock yards, county banks, and of the United States Department of Agriculture to discuss ways and means of solving the foot and mouth disease problems. This conference will be held at Chicago, November 29 and 30, and will be purely advisory. The federal department hopes at this conference to obtain all possible light on the problem under discussion, but with regard to federal administrative problems it of necessity must be the final judge as to what suggestions are helpful and which are impracticable.

"State officials likewise will be asked to attend the conference, for the double purpose of throwing what light they can on the various problems under discussion, and of learning all they can from other delegates, but they likewise must reserve the right to form their own judgment as to the practicability of suggestions concerning future administrative state action.

"Moreover, it cannot be made too clear that the purposes of this conference are to be constructive. The conference is not called for the purpose of rehashing ancient history, or of airing personal grievances, real or imaginary. The conference is to be a forward-looking body, representing every legitimate interest connected with the production or marketing of livestock. It is to be hoped that as a result of this conference, information may be collected and co-ordinated that will prove useful to federal, state, and local officials, as well as to Congress and to the various state legislatures during their future consideration of the various problems connected with this appalling menace to the livestock interests of the country."

### A Feeding Test on Calves

The relative value for fattening purposes of shelled corn, ground corn, ground corn and cob meal, ground kafir, ground kafir heads, and shelled corn and molasses will be determined by an experiment to be conducted by the animal husbandry department of the Kansas State Agricultural college. One hundred high grade Hereford steer calves have been purchased, and will be divided into six groups. The calves in each lot will receive one of the feeds mentioned together with cottonseed meal, alfalfa hay, and silage. L. B. Mann, who received his degree from the college last year, will be in direct charge of the work.

At the Fort Hays Branch Experiment station, experimental work is to be done in the winter with 100 heifers. The purpose of the test will be to show how the waste of a western Kansas farm may be effectively utilized for feed.



# Your Hogs

## Rid Them of Worms—Like This

Worms are responsible for nine-tenths of all your hog troubles at all seasons of the year, but especially in the fall.

Now, don't be misled thinking your hogs have some other ailment. Nine times out of ten it is worms. My Stock Tonic will positively expel these worms—it will keep your hogs in a healthy condition, thereby enabling them to resist disease and lay on fat. Feed my Stock Tonic to your hogs right now to expel the worms. Feed it also to your horses, cattle and sheep during the winter months, when they are on dry feed; it is a splendid conditioner and tonic and an aid to digestion.

## Dr. Hess Stock Tonic

25-lb. pail, \$1.60; 100-lb. sack, \$5.00. Why pay the peddler twice my price?

My Stock Tonic will keep your stock in prime condition, vigorous and healthy, aiding digestion and assimilation. It has been tested by farmers all over this country for 24 years; it has been sold under my famous guarantee for all that time; that guarantee has been backed up by over 27,000 dealers, one of whom lives right in your town—not a peddler, mark you, but a reliable storekeeper whom you know.

My Stock Tonic is highly concentrated, as the small dose quantity will prove; and as I have no peddlers, wagons and horses to pay for I am able to sell my Stock Tonic through a reliable dealer in your town at rock-bottom prices.

It will put your horses, cows and sheep in fettle, and if your hogs are wormy, put one tablespoonful in the swill twice a day for every two hogs, and I want to tell you that it will be good-bye to the worms or my tonic won't cost one cent. And here are my prices—just half what the peddler charges: 25-lb. pail, \$1.60; 100-lb. sack, \$5.00. Smaller packages as low as 50c (except in Canada and the far West and the South).

## Dr. Hess Dip and Disinfectant

One Gallon Makes 70 to 100 Gallons Solution

One gallon can, \$1.00; smaller packages as low as 25c.

Except in the far West and Canada

A powerful disinfectant and germ destroyer. I urge you men to use it around your hogpens, stables, poultry houses, outhouses, troughs, garbage cans, drains, etc. It sure does kill lice on hogs, cures skin and parasitic diseases.

Remember, the germs of disease are often carried from farm to farm—use Dr. Hess Dip and Disinfectant to destroy the germs and keep away foul odors. Sold in pint bottles, quart and gallon cans. Buy from the dealer in your own town—he stands back of my guarantee.

So sure am I that Dr. Hess Stock Tonic will put your animals in a thriving condition, make the sick ones healthy and expel the worms, that Dr. Hess Dip and Disinfectant will destroy disease germs and foul odors, that I have authorized my dealer in your town to supply you with enough for your stock, and if these preparations do not do as I claim, return the empty packages and my dealer will refund your money.

### Dr. Hess Poultry Pan-a-ce-a

Helps Hens Lay

A splendid tonic for moulting hens. It gives them vitality to force out the old quills, grow new feathers and get back on the job laying eggs all winter. It tones up the dormant egg organs and helps to make hens and pullets lay. Economical to use—a penny's worth is enough for 30 fowl per day. 1 1/2 lbs. 25c; 5 lbs. 60c; 25-lb. pail, \$2.50 (except in Canada and the far West). Guaranteed.

### Dr. Hess Instant Louse Killer

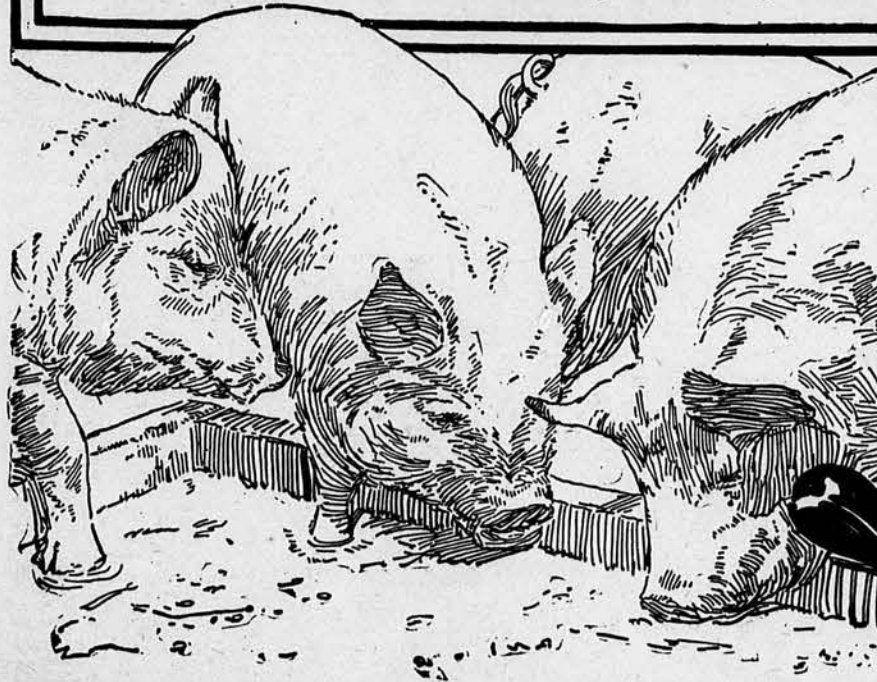
For Poultry and Farm Stock

Dust some on what you think is the cleanest hen in your flock, wait a minute, then spread out a sheet of white paper and ruffle the hen's feathers. Talk about dead lice! you'll be surprised. Sprinkle it on the roosts, in the cracks and dust bath. Also destroys bugs on cucumber, squash and melon vines, cabbage worms, etc., slugs on rose bushes, etc. Comes in handy sifting-top cans. 1 lb. 25c; 5 lbs. 60c (except in Canada and the far West). I guarantee it.

I have a book about Dr. Hess Stock Tonic and Dr. Hess Dip and Disinfectant that you may have for the asking.

**DR. HESS & CLARK, Ashland, Ohio**

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# The Forester's Daughter

## A Romance of the Forest Service in the Bear Tooth Range of Colorado

By Hamlin Garland

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Wayland Norcross, son of a wealthy lumberman in an eastern state, goes to Colorado in search of health. At Bear Tooth he meets Berrie, the pretty daughter of Joseph McFarlane, forest supervisor, who becomes his fellow passenger in the stage coach for a day. Berrie is greeted by her lover, Cliff Belden, a cowboy, supposed to be interested in a saloon at Meeker's Mill, where Norcross is bound. Berrie guides Norcross to his destination. They ride away together toward the mountains.

### A FORESTER'S SECRET.

THE trail, hardly more than a wood road, grew wilder and lonelier as they climbed. Cattle fed on the hillsides in scattered bands like elk. Here and there a small cabin stood on the bank of a stream, but for the most part the trail mounted the high slopes in perfect solitude.

The girl talked easily and leisurely, reading the brands of the ranchers, revealing the number of cattle they owned quite as a young farmer would have done. She seemed not to be embarrassed in the slightest degree by the fact that she was guiding a strange man over a lonely road and gave no outward sign of special interest in him till she suddenly turned to ask, "What kind of a slicker—I mean a raincoat—did you bring?"

He looked blank. "I don't believe I brought any. I've a leather shooting jacket, however."

She shrugged her shoulders and looked up at the sky. "We're in for a storm. You'd ought 'o have a slicker, no fancy 'raincoat,' but a real old-fashioned cow puncher's oilskin. They make a business of shedding rain."

She rode on for a few minutes in silence, as if disgusted with his folly, but she was really worrying about him. "Poor chap!" she said to herself. "He can't stand a chill. I ought to have thought of his slicker myself. He's helpless as a baby."

They were climbing fast now, winding upward along the bank of a stream, and the sky had grown suddenly gray, and the woodland path was dark and chill. The mountains were not less beautiful, but they were decidedly less amiable, and the youth shivered, casting an apprehensive eye at the thickening clouds.

Berea perceived something of his dismay and, drawing rein, dismounted. Behind her saddle was a tightly rolled bundle which, being untied and shaken out, proved to be a horseman's rain-proof oilskin coat. "Put this on!" she commanded.

"Oh, no," he protested. "I can't take your coat."

"Yes you can! You must! Don't you worry about me. I'm used to weather. Put this on over your jacket and all. You'll need it. Rain won't hurt me, but it will just about finish you."

The worst of this lay in its truth, and Norcross lost all his pride of sex for the moment. A wetting would not dim this girl's splendid color nor reduce her vitality one degree, while to him it might be a death warrant. "You could throw me over my own horse," he admitted in a kind of bitter admiration and slipped the coat on, shivering with cold as he did so.

"You think me a poor excuse for a trailer, don't you?" he said ruefully as the thunder began to roll.

"You've got to be all made over new," she replied tolerantly. "Stay here a year and you'll be able to stand anything."

Remounting, she again led the way with cheery cry. The rain came dashing down in fitful, misty streams, but she merely pulled the rim of her sombrero closer over her eyes and rode steadily on, while he followed, plunged in gloom as cold and gray as the storm.

"These mountain showers don't last long," the girl called back, her face shining like a rose. "We'll get the sun in a few minutes."

And so it turned out. In less than an hour they rode into the warm light again, and in spite of himself Norcross returned her smile, though he said: "I feel like a selfish fool. You are soaked."

"I never take cold," she returned. "I'm used to all kinds of weather. Don't you bother about me."

Topping a low divide, the youth caught a glimpse of the range to the

southeast, which took his breath. "Isn't that superb?" he exclaimed. "It's like the shining roof of the world."

"Yes, that's the Continental divide," she confirmed casually, but the lyrical note which he struck again reached her heart. The men she knew had so few words for the beautiful in life. She wondered whether this man's illness had given him this refinement or whether it was native to his kind. "I'm glad he took my coat," was her thought.

She pushed on down the slope, riding hard, but it was nearly 2 o'clock when they drew up at Meeker's house, which was a long, low, stone structure built along the north side of the road. The place was distinguished not merely by its masonry, but also by its picket fence, which had once been whitewashed. Farm wagons of various degrees of decay stood by the gate, and in the barnyard plows and harrows—deeply buried by the weeds—were rusting forlornly away. A little

grown cubs of eighteen or twenty—did as they were bid with much noise, chaffing Berrie with blunt humor.

Meeker read Sutler's letter, which Norcross had handed him, and, after deliberation, remarked: "All right, we'll do the best we can for you, Mr. Norcross, but we haven't any fancy accommodations."

"He don't expect any," replied Berrie. "What he needs is a little roughing it."

"There's plenty of that to be had," said one of the herders, who sat below the salt. "'Tis the soft life I'm nadin'."

One of the lads, Frank Meeker, a dark, intense youth of about twenty, was Berea's full cousin. The others were merely hired hands, but they all eyed the new comer with disfavor. The fact that Berrie had brought him and that she seemed interested in him added to the effect of the smart riding suit which he wore. "I'd like to roll him in the creek," muttered one of them to his neighbor.

This dislike Berrie perceived in some degree, and to Frank she privately said: "Now, you fellows have got to treat Mr. Norcross right. He's been very sick."

Frank maliciously grinned. "Oh, we'll treat him right. We won't do a thing to him!"

"Now, Frank," she warned, "if you try any of your tricks on him you'll hear from me."

"Why all this worry on your part?" he asked keenly. "How long since you found him?"

The girl herself did not understand the vital and almost painful interest which this young man had roused in her. He was both child and poet to her, and as she watched him trying to make friends with the men, her indignation rose against their clownish offishness.

"I don't feel right in leaving you here," she said at last, "but I must be ridin'." And while Meeker ordered her horse brought out she walked to the gate with Norcross at her side.

"I'm tremendously obliged to you," he said, and his voice was vibrant. "You have been most kind. How can I repay you?"

"Oh, that's all right," she replied, in true western fashion. "I wanted to see the folks up here, anyhow. This is no jaunt at all for me." And, looking at her powerful figure and feeling the traplike grip of her cinch hand, he knew she spoke the truth.

And so she rode away, leaving her ward to adjust himself to his new and strange surroundings as best he could, and with her going the whole valley darkened for the convalescent.

It was soon apparent to the eastern observer that the entire male population for thirty miles around not only knew McFarlane's girl, but that every unmarried man—and some who were both husbands and fathers—kept a deeply interested eye upon her daily motion, and certain shameless ones openly boasted among their fellows of their intention to win her favor, while the shy ones revelled in secret exultation over every chance meeting with her. She was the topic of every lumber camp and the shining lure of every dance to which the ranch hands often rode over long and lonely trails.

Part of this intense interest was due, naturally, to the scarcity of desirable women, but a larger part was called out by Berea's frank freedom of manner. Her ready camaraderie was taken for carelessness, and the candid grip of her hand was often misunderstood, and yet most of the men respected her, and some feared her. After her avowed choice of Clifford Belden they all kept aloof, for he was hot tempered and formidably swift to avenge an insult.

At the end of a week Norcross found himself restless and discontented with the Meekers. He was tired of fishing, tired of the old man's endless arguments and tired of the vulgar cowhands. The men around the mill did not interest him, and their Saturday night spree at the saloon disgusted him. The one person who piqued his curiosity was Landon, the ranger, who was stationed not far away and who could be seen occasionally riding by on a handsome black horse. There was something in his bearing, in his neat and serviceable drab uniform, which attracted the convalescent, and on Sunday morning he decided to ven-



"I don't feel right in leaving you here," she said at last.

farther up the stream the tall pipe of a sawmill rose above the firs.

A pack of dogs of all sizes and signs came clamoring to the fence, followed by a big, slovenly dressed, red bearded man of sixty or thereabouts.

"Hello, Uncle Joel!" called the girl in offhand boyish fashion. "How are you today?"

"Howdy, girl," answered Meeker gravely. "What brings you up here this time?"

She laughed. "Here's a boarder who wants to learn how to raise cattle."

Meeker's face lightened. "I reckon you're Mr. Norcross? I'm glad to see ye. Light off and make yourself at home. Turn your horses into the corral. The boys will feed 'em."

Without ceremony Meeker led his guests directly into the dining room, a long and rather narrow room, where in a woman and six or seven roughly dressed young men were sitting at a rudely appointed table.

"Earth and seas!" exclaimed Mrs. Meeker. "Here's Berrie, and I'll bet that's Sutler's friend, our boarder."

"Hist along there, boys, and give the company a chance," she commanded sharply. "Our dinner's turrible late today."

The boys—they were in reality full

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ture a call, although Frank Meeker had said the ranger was a "grouch."

His cabin, a neat log structure, stood just above the road on a huge natural terrace of grassy boulders, and the flag which fluttered from a tall staff before it could be seen for several miles, the bright sign of federal control, the symbol of law and order, just as the saloon and the mill were signs of lawless vice and destructive greed. Around the door flowers bloomed and kittens played.

The cabin's interior pleased Wayland almost as much as the garden. It was built of pine logs neatly matched and hewed on one side.

The ranger, spurred and belted, with his cuffs turned back, was pounding the typewriter when Wayland appeared at the open door, but he rose with grave courtesy. "Come in," he said, and his voice had a pleasant inflection. "I'm interrupting."

"Nothing serious; just a letter. There's no hurry. I'm always glad of an excuse to rest from this job." He was at once keenly interested in his visitor, for he perceived in him the gentleman and, of course, the alien.

Wayland, with something of the feeling of a civilian reporting to an officer, explained his presence in the neighborhood.

"I've heard of you," responded the ranger, "and I've been hoping you'd look in on me. The supervisor's daughter has just written me to look after you. She said you were not very well."

Again Wayland protested that he was not a consumptive, only a student who needed mountain air, but he added, "It is very kind of Miss McFarlane to think of me."

"Oh, she thinks of everybody!" the young fellow declared. "She's one of the most unselfish creatures in the world."

Something in the music of this speech, and something in the look of the ranger's eyes, caused Wayland to wonder if here were not still another of Berrie's subjects. He became certain of it as the young officer went on, with pleasing frankness, and it was not long before he had conveyed to Wayland his cause for sadness. "She's engaged to a man that is not her equal. In a certain sense no man is her equal, but Belden is a pretty hard type, and I believe, although I can't prove it, that he is part owner of the saloon over there."

"How does that saloon happen to be here?"

"It's on patented land—a so called 'placer claim'—experts have reported against it. McFarlane has protested against it, but nothing is done. The mill is also on deeded land, and together they are a plague spot. I'm their enemy and they know it, and they've threatened to burn me out. Of course they won't do that, but they're ready to play any kind of trick on me."

"I can well believe that, for I am getting my share of practical jokes at Meeker's."

"They're not a bad lot over there—only just rowdy. I suppose they're initiating you," said Landon.

"I didn't come out here to be cowboy," responded Norcross, "but Frank Meeker seems to be anxious to show me all the good old cowboy courtesies. On Monday he slipped a burr under my horse's saddle, and I came near to having my neck broken. Then he or some one else concealed a frog in my bed and fouled my hair brushes. In fact, I go to sleep each night in expectation of some new attack, but the air and the riding are doing me a great deal of good, and so I stay."

Thereafter Wayland spent nearly every day with the ranger, either in his cabin or riding the trail, and during these hours confidence grew until at last Landon confessed that his unrest arose from his rejection by Berrie.

"She was not to blame. She's so kind and free with every one I thought I had a chance. I was conceited enough to feel sorry for the other fellows, and now I can't even feel sorry for myself. I'm just dazed and hanging to the ropes. She was mighty gentle about it. You know how sunny her face is. Well, she just got grave and kind o' faint voiced and said—Oh, you know what she said! She let me know there was another man. I didn't ask her who, and when I found out I lost my grip entirely. At first I thought I'd resign and get out of the country, but I couldn't do it. I can't yet. The chance of seeing her—of hearing from her once in awhile—she never writes except on business for her father, but—you'll laugh—I can't see her signature without a tremor." He smiled, but his eyes were desperately sad. "Oh, I'm crazy! I admit it. I didn't know such a thing could happen to me, but it has."

As Wayland listened to this outpouring he wondered at the intensity of the forester's passion. He marveled, too, at Berrie's choice, for there was something fine and high in Landon's worship. A college man with a mining engineer's training, he should

go high in the service. "He made the mistake of being too precipitate as a lover," concluded Wayland. "His forthright courtship repelled her."

CHAPTER IV.

A Warning.

MEANWHILE his own troubles increased. Frank's dislike had grown to an impish vindictiveness, and if the old man Meeker had any knowledge of his son's deviltries he gave no sign.

"I don't know why I stay," Wayland wrote to Berea. "I'm disgusted with the men up here—they're all tiresome except Landon—but I hate to slink away, and, besides, the country is glorious. I'd like to come down and see you this week. May I do so? Please send word that I may."

She did not reply, and, wondering whether she had received his letter or not, he mounted his horse one beautiful morning and rode away up the trail with a sense of elation, of eager joy with intent to call upon her at the ranch as he went by.

Hardly had he vanished among the pines when Clifford Belden rode in

from his ranch on Hat creek and called at Meeker's for his mail.

Frank Meeker was in the office, and as he both feared and disliked this big contemptuous young cattleman he set to work to make him jealous.

"You want to watch this one lung boarder of ours," he warned, with a grin. "He's been writing to Berrie, and he's just gone down to see her. His highfalutin ways and his fine white hands have put her on the slant."

"I'm not worrying," retorted Belden. "You'd better be. I was down there the other day, and it 'peared like she couldn't talk of anything else but Mr. Norcross, Mr. Norcross, till I was sick of his name."

An hour later Belden left the mill and set off up the trail behind Norcross, his face fallen into stern lines. Frank writhed in delight. "There goes Cliff, hot under the collar, chasing Norcross. If he finds out that Berrie is interested in him he'll just about wring that dude's neck."

Meanwhile Wayland was riding through the pass with lightening heart, his thought dwelling on the girl at the end of his journey.

As he reached the McFarlane ranch

it seemed deserted of men, but a faint column of smoke rising from the roof of the kitchen gave evidence of a cook, and at his knock Berrie came to the door with a boyish word of frank surprise and pleasure. She was dressed in a blue and white calico gown, with the collar turned in and the sleeves rolled up, but she seemed quite unembarrassed, and her pleasure in his coming quite repaid him for his long and tiresome ride.

"I've been wondering about you," she said. "I'm mighty glad to see you. How do you stand it?"

"You got my letter?"

"I did, and I was going to write and tell you to come down, but I've had some special work to do at the office."

She took the horse's rein from him, and together they started toward the stables. This action of stabling the horses, a perfectly innocent and natural one for her, led one of the hands, a coarse minded sneak, to watch them from a corral. "I wonder how Cliff would like that?" he evilly remarked.

Berea was frankly pleased to see Wayland and spoke of the improvement which had taken place in him.

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"You're looking fine," she said as they were returning to the house. "But how do you get on with the boys?"

"Not very well," he admitted. "They seem to have it in for me. It's a constant fight."

Her face grew grave. "I reckon you got started wrong," she said at last. "They'll like you better when you get browned up and your clothes get dirty. You're a little too fancy for them just now."

"I don't believe I want any more of their company. What's the use? As you say, I've started wrong with them, and I don't see any prospect of getting right; and, besides, I like the rangers better. Landon thinks I might work into the service. I wonder if I could? It would give me something to do."

She considered a moment. "We'll think about that. Come into the kitchen. I'm cook today. Mother's gone to town."

The kitchen was clean and ample, and the delicious odor of new made bread filled it with cheer. As the girl resumed her apron Wayland settled into a chair with a sigh of content. "I like this," he said aloud. "There's nothing cowgirl about you now; you're the Anglo-Saxon housewife. You might be a Michigan or Connecticut girl at this moment."

Her cheeks were ruddy with the heat and her eyes intent on her work, but she caught enough of his meaning to be pleased with it. "Oh, I have to take a hand at the pots and pans now and then. I can't give all my time to the service, but I'd like to."

He boldly announced his errand. "I wish you'd take me to board. I'm sure your cooking would build up my shattered system a good deal quicker than your aunt's."

She laughed, but shook her head. "You ought to be on the hills riding hard every day. What you need is the high country and the air of the pines."

She had read that victims of the white plague always talk in this cheerful way about themselves, and she worked on without replying.

"If I were here—in the valley—you and I could ride together now and then, and you could show me all the trails. Why not let me come here and board? I'm going to ask your mother if I may not do so."

"Of course you can come here," she said when she saw he was in earnest. "Mother will be glad to have you, although our ranch isn't a bit pretty. Perhaps father will send you out with one of the rangers as a fireguard. I'll ask him tonight."

"I wish you would. I like these for-esters—what I've seen of them. I wouldn't mind serving under a man like Landon. He's fine."

Upon this pleasant reference Cliff Belden unexpectedly burst. Pushing the door open with a slam, he confronted Berry with dark and angry face.

"Why, Cliff, where did you come from?" she asked, rising in some confusion. "I didn't hear you ride up."

"Apparently not," he sneeringly answered. "I reckon you were too much occupied."

She tried to laugh away his black mood. "That's right, I was. I'm chief cook today. Come in and sit down. Mother's gone to town, and I'm playing her part," she explained, ignoring his sullen displeasure. "Cliff, this is Mr. Norcross, who is visiting Uncle Joe. Mr. Norcross, shake hands with Mr. Belden." She made this introduction with some awkwardness, for her lover's failure to even say "Howdy" informed her that his jealous heart was aflame, and she went on quickly, "Mr. Norcross dropped in on his way to the postoffice, and I'm collecting a snack for him."

Recognizing Belden's claims upon the girl, Wayland rose. "I must be going. It's a long ride over the hill."

"Come again soon," urged Berrie. "Father wants to see you."

"Thank you. I will look in very shortly," he replied and went out with such dignity as he could command, feeling, however, very much like a dog that has been kicked over the threshold.

Closing the door behind him, Belden turned upon the girl. "What's that consumptive 'dogie' doing here? He peared to be very much at home with you—too dern much at home."

She was prepared for his displeasure, but not for words like these. She answered quietly: "He just dropped in on his way to town, and he's not a dogie!" She resented his tone as well as his words.

"I've heard about you taking him over to Meeker's and lending him your only slicker," he went on, "but I didn't expect to find him sittin' here like he owned you and the place. You're taking altogether too much pains with him. Can't he put his own horse out? Do you have to go to the stable with him? You never did have any sense about your actions with men. You've all along been too free of your reputation, and now I'm going to take care of it for you. I won't have you nursin' this runt any longer!"

She perceived now the full measure of his base rage, and her face grew pale and set. "You're making a perfect fool of yourself, Cliff," she said, with portentous calmness.

"Am I?" he asked.

"You sure are, and you'll see it yourself by and by. You've no call to get wire edged about Mr. Norcross. He's not very strong. He's just getting well of a long sickness. I knew a chill would finish him, that's why I gave him my slicker. It didn't hurt me, and maybe it saved his life. I'd do it again if necessary."

"Since when did you start a hospital for eastern tenderfeet?" he sneered, then his tone changed to one of downright command. "You want to cut this all out I tell you! I won't have any more of it! The boys up at the mill are all talkin' about your interest in this little whelp, and I'm getting the branding iron from every one I meet. Sam saw you go into the barn with that dude, and that would have been all over the country tomorrow, if I hadn't told him I'd sew his mouth up if he said a word about it. Of course I don't think you mean anything by this cod-dlin'."

"Oh, thank you," she interrupted, with flaming, quick, indignant fury. "That's mighty nice of you. I went to the barn to show Mr. Norcross where to stall his horse. I didn't know Sam was here."

He sneered: "No, I bet you didn't." She fired at this. "Come now! Something nasty is in your mind. Go on! What have I done? What makes you so hot?"

He began to weaken. "I don't accuse you of anything. I—but I—"

"Yes, you do—in your heart you distrust me—you just as much as said so!"

He was losing his high air of command. "Never mind what I said, Berrie. I—"

She was blazing now. "But I do mind—I mind a whole lot—I didn't think it of you," she added as she realized his cheapness, his coarseness. "I didn't suppose you could even think such things of me. I don't like it," she repeated, and her tone hardened, "and I guess you'd better pull out of here—for good. If you've no more faith in me than that I want you to go and never come back."

"You don't mean that!"

"Yes, I do! You've shown this yellow streak before, and I'm tired of it. This is the limit. I'm done with you."

She stood between tears and benumbing anger now, and he was scared. "Don't say that, Berrie!" he pleaded, trying to put his arm about her.

"Keep away from me!" She dashed his hands aside. "I hate you. I never want to see you again!" She ran into her own room and slammed the door behind her.

Belden stood for a long time with his back against the wall, the heat of his resentment utterly gone, an empty, aching place in his heart. He called her twice, but she made no answer, and so at last he mounted his horse and rode away.

Young Norcross, much as he admired Berrie, was not seeking to exchange her favor for her lover's enmity, and he rode away with an uneasy feeling of having innocently made trouble for himself as well as for a fine, true hearted girl.

"What a good friendly talk we were having," he said regretfully. "And to think she is to marry that big, scowling brute! How could she turn Landon down for a savage like that?"

He was just leaving the outer gate when Belden came clattering up and reined his horse across the path and called out: "See here, you young skunk! You're a poor, white livered tenderfoot, and I can't bust you as I would a full grown man, but I reckon you better not ride this trail any more."

"Why not?" inquired Wayland.

Belden glared. "Because I tell you so. Your sympathy hunting game has just about run into the ground. You've worked this baby dodge about long enough. You're not so almighty sick as you put up to be, and you'd better hunt some other cure for lonesomeness or I'll just about cave your chest in."

All this was shockingly plain talk for a slender young scholar to listen to, but Norcross remained calm. "I think you're unnecessarily excited," he remarked. "I have no desire to make trouble. I'm considering Miss Berea, who is too fine to be worried by us."

His tone was conciliating, and the cowman, in spite of himself, responded to it. "That's why I advise you to go. She was all right till you came. Colorado's a big place, and there are plenty other fine ranges for men of your complaint. Why not try Routt county? This is certain, you can't stay in the same valley with my girl. I serve notice of that."

"You're making a prodigious ass of yourself," observed Wayland, with calm contempt.

"You think so, do you? Well, I'll make a jack rabbit out of you if I

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find you on this ranch again. You've worked on my girl in some way till she's just about quit me. I don't see how you did it, you measly little pup, but you surely have turned her against me!" His rage burst into flame as he thought of her last words. "If you were so much as half a man I'd break you in two pieces right now, but you're not. You're nothing but a dead on the hoof lunger, and there's nothing to do but run you out. So take this as your final notice. You straddle a horse and head east and keep a-ridin', and if I catch you with my girl again I'll deal you a whole hatful of misery. Now, that's right!"

Thereupon, with a final glance of hate in his face, he whirled his horse and galloped away, leaving Norcross dumb with resentment, intermingled with wonder.

"Truly the west is a dramatic country! Here I am involved in a lover's wrath and under sentence of banishment all within a month! Well, I suppose there's nothing to do but carry out Belden's orders. He's the boss," he said as he rode on. "I wonder just what happened after I left? Something stormy evidently. She must have given him a sharp rebuff or he wouldn't have been so furious with me. Perhaps she even broke her engagement with him. I sincerely hope she did. She's too good for him."

And so from point to point he progressed till, with fine indignation, he reached a resolution to stay and meet whatever came. "I certainly would be a timorous animal if I let myself be scared into flight by that big bone-head," he said at last.

Nevertheless he felt very weak and very much depressed as he rode up the street of the little town and dismounted at the forest service building.

CHAPTER V.

The Supervisor of the Forest.

NASH, who was alone in the government office, looked up from his work. "Come in," he called heartily. "Come in and report."

"Thank you. I'd like to do so. And may I use your desk? I have a letter to write."

"Make yourself at home. Take any desk you like. The men are all out on duty."

"You're very kind," replied Wayland, gratefully. There was something reassuring in this greeting and in the many signs of skill and scientific reading which the place displayed. It was like a bit of Washington in the midst of a careless, slovenly, lawless mountain town, and Norcross took his seat and wrote his letter with a sense of proprietorship.

"I'm getting up an enthusiasm for the service just from hearing Alec Belden rave against it," he said a few minutes later, as he looked up from his letter.

Nash grinned. "How did you like Meeker?"

"He's a good man, but he has his peculiarities. Belden is your real enemy. He is blue with malignity—so are most of the cowmen I met up there. I wish I could do something for the service. I'm a thoroughly up to date analytical chemist and a passable mining engineer, and my doctor says that for a year at least I must work in the open air. Is there anything in this forest service for a weakling like me?"

Nash considered. "I think we can employ you, but you'll have to go on as fire guard or something like that for the first year. You see, the work is getting to be more and more technical each year. As a matter of fact—here he lowered his voice a little—"McFarlane is one of the old guard and will have to give way. He don't know a thing about forestry and is too old to learn. His girl knows more about it than he does. She helps him out on office work too."

Wayland wondered a little at the freedom of expression on the part of Nash, but said, "If he runs his office as he runs his ranch he surely is condemned to go."

"Well, you get Berrie to take up your case and you're all right. She has the say about who goes on the force in this forest."

It was late in the afternoon before Wayland started back to Meeker's with intent to repack his belongings and leave the ranch for good. He had decided not to call at McFarlane's, a decision which came not so much from fear of Clifford Belden as from a desire to shield Berrie from further trouble, but as he was passing the gate the girl rose from behind a clump of willows and called to him: "Oh, Mr. Norcross! Wait a moment!"

He drew rein and, slipping from his horse, approached her. "What is it, Miss Berrie?" he asked, with wondering politeness.

She confronted him with gravity. "It's too late for you to cross the ridge. It'll be dark long before you reach the cut-off. You'd better not try to make it."

"I think I can find my way," he answered, touched by her consideration.

"I'm not so helpless as I was when I came."

"Just the same you mustn't go on," she insisted. "Father told me to ask you to come in and stay all night. He wants to meet you. I was afraid you might ride by after what happened today, and so I came up here to head you off." She took his horse by the rein and flashed a smiling glance up at him. "Come, now, do as the supervisor tells you."

"Wait a moment," he pleaded. "On second thought I don't believe it's a good thing for me to go home with you. It will only make further trouble for us both."

"I know what you mean. I saw Cliff follow you. He jumped you, didn't he?"

"He overtook me, yes."

"What did he say?"

He hesitated. "He was pretty hot and said things he'll be sorry for when he cools off."

"He told you not to come here any more—advised you to hit the outgoing trail—didn't he?"

He flushed with returning shame of it all, but quietly answered, "Yes, he said something about riding east."

"Are you going to do it?"

"Not today, but I guess I'd better keep away from here."

She looked at him steadily. "Why?" "Because you've been very kind to me, and I wouldn't for the world do anything to hurt or embarrass you."

"Don't you mind about me," she responded bluntly. "What happened this morning wasn't your fault nor mine. Come; father will be looking for you."

With a feeling that he was involving

both the girl and himself in still darker storms, the young fellow yielded to her command, and together they walked along the weed bordered path, while she continued:

"This isn't the first time Cliff has started in to discipline me, but it's obliged to be the last. He's the kind that think they own a girl just as soon as they get her to wear an engagement ring. But Cliff don't own me. I told him I wouldn't stand for his coarse ways, and I won't!"

Wayland tried to bring her back to humor. "You're a kind of 'new woman.'"

She turned a stern look on him. "You bet I am! I was raised a free citizen. No man can make a slave of me. I thought he understood that, but it seems he didn't. He's all right in many ways—one of the best riders in the country—but he's pretty tolerable domineering."

Mrs. McFarlane greeted Norcross with cordial word and earnest hand-clasp. "I'm glad to see you looking so well," she said, with charming sincerity. "I'm browner anyway," he answered, and turned to meet McFarlane, a short, black bearded man with fine dark eyes and shapely hands—hands that had never done anything more toilsome than to lift a bridle rein or to clutch the handle of a gun. He was the horseman in all his training, and though he owned hundreds of acres of land, he had never so much as held a plow or plied a spade. His manner was that of the cow boss, the lord of great herds, the claimant of empires of government grass land. Poor as his house looked, he was in reality rich.

Narrow minded in respect to his own interests, he was well in advance of his neighbors on matters relating to the general welfare, a curious mixture of greed and generosity, as most men are, and, though he had been made supervisor at a time when political pull still crippled the service, he was loyal to the flag. "I'm mighty glad to see you," he heartily began. "We don't often get a man from the sea level, and when we do we squeeze him dry."

His voice, low, languid and soft, was most insinuating, and for hours he kept his guest talking of the east and its industries and prejudices, and Berrie and her mother listened with deep admiration, for the youngster had seen a good deal of the old world and was unusually well read on historical lines of inquiry. He talked well, too, inspired by his attentive audience.

Berrie's eyes, wide and eager, were fixed upon him unwaveringly. He felt her wonder, her admiration, and was inspired to do his best. Something in her absorbed attention led him to speak of things so personal that he wondered at himself for uttering them.

"I've been dilettante all my life," was one of his confessions. "I've traveled; I've studied in a tepid sort of fashion; I went through college without any idea of doing anything with what I got; I had a sort of pride in keeping up with my fellows, and I had no idea of preparing for any work in the world. Then came my breakdown and my doctor ordered me out here. I came intending to fish and loaf around but I can't do that. I've got to do something or go back home."

TO BE CONTINUED.



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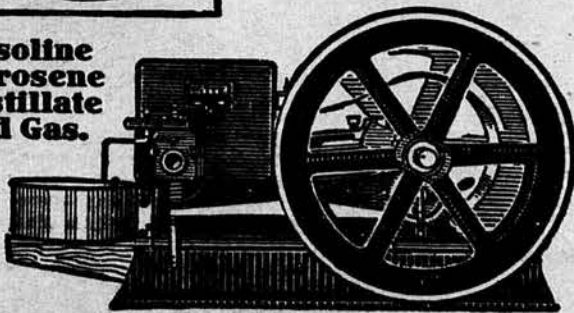
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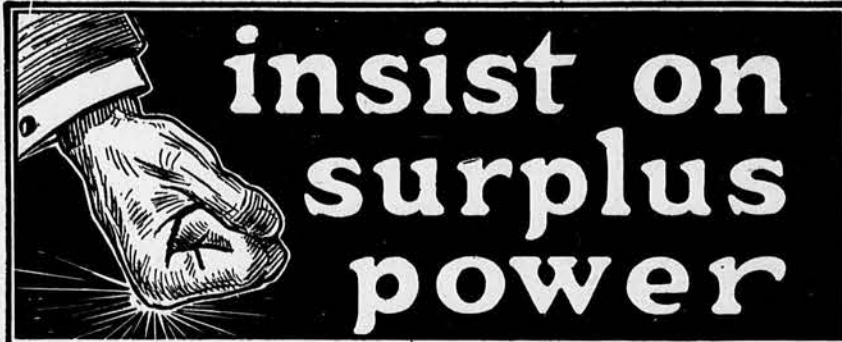
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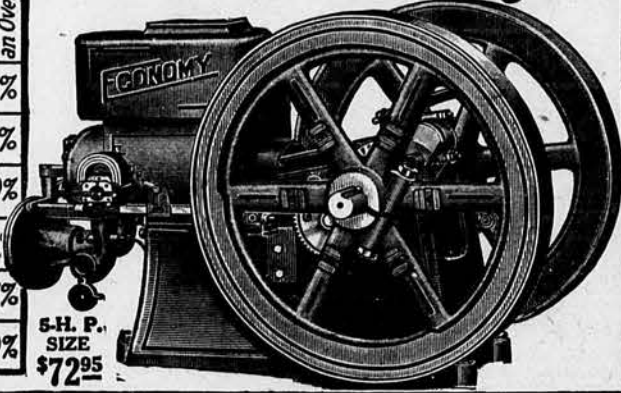
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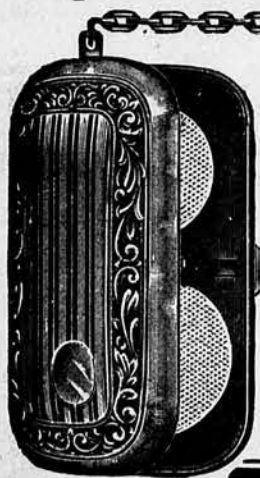
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**When and How to Use a Drag**

No Cheaper or Better Way to Maintain the Surface

BY GEO. B. HARRISON

IT IS not difficult to prove that dragging the public roads regularly at the proper time probably is the most economical method of highway improvement. In Kansas the cost of grading an ordinary 30-foot earth road may be kept as low as \$15 a mile with favorable conditions and labor prices and the completion of the work at the right time, or it may run as high as \$120 a mile. The cost of dragging will vary from \$3.50 a mile to \$15 a year according to road and traffic conditions. Official figures show that the average price in Kansas paid for a round trip over a mile of road with a 9-foot drag is 60 cents. The maximum probably is about 75 cents.

Even at maximum costs road dragging is ahead of other maintenance both as to results and for economy. With the results obtained it may seem remarkable that more roads are not dragged systematically in Kansas, where only approximately 21,000 miles of the 108,500 miles of roads are dragged regularly. The reason for this probably is because the old-fashioned system which governs the road management in Kansas requires the authorities to expend so much money in temporary work that it is difficult to break away and make innovations. Some Kansas counties have gotten around the difficulty by centralizing road authority in a county engineer and giving him to understand that he must economize sufficiently to introduce a certain amount of improvement annually. This plan, with the co-operation of the state engineer and the agricultural college at Manhattan, which is given freely to the counties for bettering their road and bridge work, has worked out well where tried.

Road dragging is so simple an undertaking, providing the road to be dragged is first graded, drained and shaped properly, that a summary of its benefits cannot be presented too often. Anyone can make a drag and even a boy can keep a piece of road in good shape with the proper instruction at the beginning. A 10-inch or 12-inch log between 8 and 9 feet long or two 3 by 12 planks with 2 by 6 reinforcing strips of the same

are not too dry to puddle or compact. Perhaps the traffic is sufficient to cut up the road after it is dragged, and this discourages the man who does the dragging. But in that case he should follow over the road and do it again if necessary and win the fight for a good road. If he waits until the road is dry because the vehicles rut up his dragged road he will simply plane off the surface and not remove the trouble. If he drags a second or perhaps a third time he will work toward a hard surface, impervious to water and with a minimum of dust, which is the evidence of a well-dragged highway. Perhaps, if the vehicles cut a road when it is first being dragged, the drivers may be persuaded to drive by the side, if that is feasible, while the road is first drying out or freezing.

Before dragging a road it ought to be crowned properly and the drainage attended to—in other words, put into good

**Kansas' Utilities**

commission has just brought to light another huge payment of swag in the Kansas Natural (very natural) Gas deal. By order of court John F. Overfield, state senator from Montgomery county, was paid \$25,000 "on account," but what for, Victor Hayes, auditor of the gas company, testifies he does not know. "It came to me," he adds, "from the court of Montgomery county simply as a voucher against the company." Last winter the receivers of the company were paid \$15,000 each, the attorneys for the receivers \$13,325 each, except John Dawson, then attorney general for Kansas, who received \$8,325. Even now a flock of lawyers hovers about the putrid carcass of the gas company and has contrived to introduce a "federal question" promising further lawing and more fees after the state courts get done with the mess. What a mockery of justice!

condition and then the work of taking care of it will give the best results. The road drag is not an equipment for constructing roads, but it is intended for upkeep. It should not move any large quantity of earth but takes a small amount of wet earth to or away from the center of the road. It is important to remember that the road drag does not build roads, but helps to keep them in repair.

Further articles on approved methods of putting earth roads into condition and keeping them in the best condition economically will be printed from week to week in the Farmers Mail and Breeze.

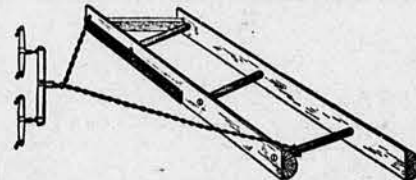
**Hogs For Home Butchering**

BY P. F. TROWBRIDGE.

Crisp, frosty mornings warn us that hog-killing time is coming. The farmer is entitled to the best pork that can be produced. It is better not to wait until the animals are fat, but to select a few at once and feed them especially for home butchering. They should have some muscle-building material in addition to the corn, so as to get a proper mixture of lean and fat meat. Oil meal, shorts, and tankage are very good to add to corn and wheat may well form part of the feed, especially this year when there is so much field-damaged grain on hand.

Select hogs that combine as many as possible of the good points of bacon and lard breeds so that there will be reasonably good sides as well as hams and shoulders when the carcasses are cut up. Keep the animals selected growing rapidly but do not let them get too fat, in order to get the most desirable hams and bacon cuts, even though this method does not bring as much lard.

One or two hogs may be killed whenever meat is wanted for immediate use but the main supply for the year should not be killed until late in December. Before that time there is too much danger from the warm weather which causes so much loss of meat every year. Watch the weather forecast and make special provision if you know a warm spell is coming.



The Road Drag Hitch.

length, four cross sticks, a chain, boards for the platform and a metal wearing strip are certainly procurable anywhere. The Farmers Mail and Breeze will furnish complete instructions for making a road drag to any reader desiring them.

The theory in road dragging which has proved practicable for road improvement is to smooth and shape up the puddled earth of a road to fill the ruts and holes and force the water off the roadway. "Puddled" earth on a road is the wet earth which has been worked up by traffic so that it is dense and when compacted will not let the water seep away. If this compacting is done without any direction ruts and holes appear and hold the water and make a bad road. But if the puddled earth be spread smoothly over the surface of the road with somewhat of a rounded effect it dries firm and hard, and the water, instead of standing in the road and making the holes deeper, must run off to the side—and the traveler has a good road.

The road dragger, or "dragman," as he usually is called, is like a clay worker when he shapes up the puddled earth and smooths the road. He puts the surface in condition and gets the standing water off, and the roadbed dries in that condition instead of holding the water and letting the traffic work the ruts deeper. The dragman could not shape this up with dust any more than the clay worker could fashion his image with dry dirt. But if he gets out right after a rain, while the earth is puddled, he can work his road and the traffic will help him, for the water will be forced out and off the surface. That is why it is so important to drag when the roads



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In addition to the superior training we give our students in all the departments of automobile work, we have recently established a new department which is proving remarkably successful. This new course combines thorough training in **Tractor Engineering, stationary Gas Engineering and Power Farming.** We have established a large demonstration field in North Kansas City with the most complete tractor equipment of any school in the world. This course is regularly priced at \$50, but we are offering a complete scholarship in this department of our school free of any cost to those who enroll at this time for our Complete Automobile Course—the one, big authentic course which teaches you thoroughly every department of automobile work, and qualifies you for expert service in any and all departments of the business.

## \$75 to \$300 or More Per Month

For YOU as Proprietor or Manager of Garage, Salesman, Driver, Demonstrator, Factory Tester, Ignition System Expert, Repair Man, Tractor Engineer, Stationary Engineer or Electric Starter Specialist.

### Be Ready for the Big Pay in Just Six Weeks

Your course of training at this school will qualify you for expert work in every department of the business, and you can take your own choice as to the special line which you are to follow. The minimum wage for any of these positions is usually about \$75.00 a month with rapid advancement for those men who are fully equipped with a complete knowledge of their work—and those who take up work as salesmen, dealers, garage owners or repair men make anywhere from \$100.00 to \$300.00 and more per month.

A great many of our students return to their home towns and establish independent businesses of their own. Perhaps right in your town there is a splendid opening at this time for a repair shop, a garage or an automobile agency—a chance to become established in a high-class, pleasant and very profitable business of your own. You will find the work here at our school exceedingly interesting and practical. Many students complete this entire course in six weeks' time, but your scholarship is unlimited as to time, and you can stay as much longer than six weeks as you desire.

### Big Book Free

If you will send us your name and address at once on the accompanying coupon, we will issue in your name and mail to you at once a free scholarship certificate covering our big \$50.00 combination course in **Tractor and Stationary Gas Engineering** as described above. We will also send you, free and postpaid, our big, 60-page illustrated book containing enthusiastic letters from scores of A. T. S. graduates, and giving you full and complete information regarding this big institution. Don't put this matter off until some other time, cut out the coupon and mail it to us today.

### FREE Scholarship and Book COUPON

HENRY J. RAHE, Pres., Automobile Training School  
1051 Locust St., Kansas City, Missouri

Send me free and postpaid, your big 60-page illustrated book, also the free \$50.00 Scholarship Certificate, as offered in your advertisement. This request does not obligate me in any way.



HENRY J. RAHE, President  
**Automobile Training School**  
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### Grain Inspection Is Efficient

George B. Ross, state grain inspector, is going to introduce another of these popular appropriation bills when the next legislature meets, judging from the reports he is making every month to W. E. Davis, state auditor. Last winter Ross had a bill introduced which, instead of calling for an appropriation to make up a deficit in his department, provided that a \$15,000 surplus be turned into the state treasury. It was passed with a whoop and signed by the governor without any regrets or figuring.

The September report from Ross's department, just filed with the state auditor, shows receipts for the month of \$9,524. The expenses for the month totaled \$5,256, leaving a profit for the state of \$4,267. The September report for 1913 showed receipts of \$1,417, \$449 less than it cost to run the department. In 1914 the corresponding month's report showed receipts of \$3,690, an excess of \$1,024 over the office expenses.

A comparison of the September business of the office for the last two years shows that the collections have almost tripled, while the profit to the state has increased more than four times. The balance in the revolving fund now is \$15,402.

"We will turn at least \$30,000 into the state treasury at the next session of the legislature," Mr. Ross said. "The farmers and grain dealers generally are giving the department loyal support."

Incidentally the increase in business has been attended by a decrease in the cost of inspection to the farmers. The old fees were 1 cent a thousand pounds for inspection and 1/2 cent a thousand pounds for weighing. The average car weight is 80,000 pounds, so it cost the shipper an average of \$1.20 for inspection and weighing. The fees now are 65 cents a car for inspection and 40 cents for weighing, or \$1.05 for both.

Mr. Ross is a Democrat who was retained in office by Governor Capper because of his efficiency. He has been a representative to the Kansas legislature from Rice county the last two sessions.

### Not Easy For the Governor

El Dorado people were pleased to have Justice Silas Porter, of the supreme court, as their guest on Friday, at the Kafir Corn festival. Judge Porter accompanied Governor Arthur Capper. Several thousand people listened to addresses by Justice Porter and Governor Capper in the afternoon. Justice Porter, who is a pleasing talker, paid a high tribute to Butler county. A statement by Justice Porter which was heartily indorsed by the audience was in reference to the serious handicap which obstructs the work of the governor of Kansas. "Under the laws of the state of Kansas the chief executive is seriously handicapped," said Justice Porter. "The people elect a governor to put into effect certain policies which they favor but as a matter of fact Governor Capper, or anyone else who may be governor of Kansas, is almost powerless. The people look to the governor to do certain things but as a matter of fact it is almost impossible for him to carry out his program. When he takes the office he finds a lot of boards and bureaus and other employes appointed by some one else. Under our form of government, they can and in many instances do hold on to their jobs and run things about as they please, regardless of the wishes of the governor. They do not answer to the governor or anyone else. They may be entirely out of harmony with his policies, but the governor's hands are tied. It is impossible for him to surround himself with men who are in sympathy with his policies. This is not fair to the governor because the people at all times hold the chief executive responsible for results."—El Dorado Times.

### They Approve Capper's Stand

A. P. Reardon, of McLouth, master of the Kansas State grange, who was in Topeka yesterday on his way to the national grange meeting at San Francisco, said:

"The farmers of Kansas are almost a unit in endorsing Governor Capper's stand against the preparedness program the militarists are planning to foist upon the country when the next congress meets. I have not yet found a farmer who is in favor of the proposition to appropriate a billion and a half

dollars in the next six years for a larger standing army and more battleships. The general opinion is that there is less reason now than ever before for increased military appropriations. The United States is in less danger of an attack by foreign foes than it has ever been before. The proposed appropriation of 450 million dollars by the next congress to be spent in the next year would put this country on the same basis as Germany and the other nations who believe in settling disputes by war.

"The Kansas congressman who votes for these appropriations will find that he has made the biggest mistake of his life. We have appropriated nearly 300 million dollars a year for military and naval purposes during recent years and the burden already is as heavy as the farmers of Kansas feel they can carry."

### The Demand For Small Tractors

At the tractor demonstrations this year it was very evident that the sale of small tractors was far greater than that of the so-called large machines. In this connection J. B. Bartholomew, president of the Avery Company, made this very significant statement:

"There is a brisk demand for the very small tractor. Whether this is to be of a substantial nature remains to be seen. It is my opinion that the selection of a tractor should be made to

fit the character and size of the farm and the work that is to be done. Plowing is only one of the many occupations for a tractor, and although it requires more power than any other farm job, and while the very small tractor may do the work in time, it is equally important to do the plowing at the right time and of greater advantage to have a machine large enough to do it without undue and tedious delay."

It is quite important that the prospective purchaser should select a tractor which will "fit the character and size of the farm and the work to be done." The very small machine will, of course, do the work in time, but the thing of greatest importance is to do the work at the right time.

Furthermore, the very small machine does not effect nearly so much of a saving over horses as does the one of somewhat larger capacity. This is a thing which a farmer should consider well before deciding on the size to buy.

We feel that many farmers are going to make the same mistake in buying tractors that they did in buying their first stationary gas engine. They are going to get them too small. It is better to have a little more power than is needed than not to have enough. It is not only advisable but economical to get a tractor that is large enough to do the work without overtaxing it. Overloading engines is a very common fault, and

likewise a very serious one. It should be guarded against and can be avoided by purchasing a machine that will have plenty of power to do the work required of it.—Gas Power.

### A One-Book Library

A book much more readable than the name would indicate is "Essays For College English," a collection of the best and most significant writings on such subjects of general interest as rural social centers, schools, churches and homes, farm credits, the relation scientific knowledge bears to man's mastery of his environment, the real significance of education and other problems to which thinking men and women are directing their attention. The list of authors is enough of itself to guarantee the excellence of the book, for it includes Woodrow Wilson, Theodore Roosevelt, James Bryce, Myron T. Herrick, Thomas Henry Huxley, Matthew Arnold, Ralph Waldo Emerson, and many others. Every home library would be enriched by such a collection. The essays were selected and edited by Professors Bowman, Bredvold, Greenfield, and Weirick of the department of English in the Iowa State college. "Essays For College English" is published by D. C. Heath and Company, Boston, New York and Chicago. The price is \$1.25.



## Find out what is in the car before you buy it

**WHEN** you invest \$1050 in a KisselKar High Efficiency 32-Four, you do so with a feeling that you are obtaining the full value of your money.

You can feel that way because you know that KisselKars always were "worth the price" cars—even in the days when automobiles cost a lot more than they do now.

You know that the Kissels have built a reputation—and still enjoy it—for putting all that was worth while into a car—sterling and lasting materials—skilled and carefully inspected workmanship—power—comfort—beauty.

But do you know those things about other similarly priced cars? Are not most of them cars that were always on the bargain counter—always appealing to you because of price alone rather than of record or proved quality?

## KISSELKAR

### A Quality Car

In a KisselKar you find not only endurance built in, but an exclusive, powerful motor of Kissel manufacture—a motor that makes hard hills and unmade roads easy driving.

And with these mechanical advantages that mean less trouble and longer life, and consequently reduced up-keep, you have in the KisselKar a style and appearance that will make you proud to own one.

In a word a KisselKar not only supplies to the utmost the convenience and utility of motoring, but the comfort and enjoyment of it.

See the High Efficiency 32-Four—it's a revelation in real motor car value. Also the 42-Six at \$1485—America's most successful medium priced Six.

Write for new illustrated catalog and name of nearest distributor.

**Kissel Motor Car Company, 314 Kissel Avenue, Hartford, Wisconsin**



**Tractors in Kansas**

March 1, 1915.

EASTERN DIVISION—37 Counties.

Allen	23	Labette	74
Anderson	31	Leavenworth	15
Atchison	8	Linn	9
Bourbon	7	Lyon	31
Brown	16	Marshall	24
Chase	5	Miami	10
Chautauqua	18	Montgomery	23
Cherokee	38	Morris	50
Coffey	6	Nemaha	27
Crawford	18	Neosho	17
Doniphan	48	Osage	62
Douglas	23	Pottawatomie	36
Elk	45	Riley	19
Franklin	12	Shawnee	13
Geary	20	Wabaunsee	34
Jackson	31	Wilson	18
Greenwood	18	Woodson	23
Jefferson	29	Wyandotte	25
Johnson	31		
Total			937

CENTRAL DIVISION—37 Counties.

Barber	26	Mitchell	19
Barton	123	Osborne	25
Butler	25	Ottawa	21
Clay	35	Pawnee	32
Cloud	35	Phillips	28
Comanche	8	Pratt	11
Cowley	42	Reno	60
Dickinson	61	Republic	42
Edwards	23	Rice	20
Ellis	13	Rooks	46
Ellsworth	21	Rush	22
Harper	18	Russell	13
Harvey	30	Saline	44
Jewell	30	Sedgwick	87
Kingman	23	Smith	20
Kiowa	13	Stafford	11
Lincoln	34	Sumner	40
Marion	18	Washington	51
McPherson	39		
Total			1,209

WESTERN DIVISION—31 Counties.

Cheyenne	9	Meade	42
Clark	20	Morton	2
Decatur	9	Ness	1
Finney	2	Norton	18
Ford	61	Rawlins	16
Gove	12	Scott	5
Graham	4	Seward	24
Grant	1	Sheridan	14
Gray	25	Sherman	7
Greeley	2	Stanton	1
Hamilton	2	Stevens	2
Haskell	3	Thomas	13
Hodgeman	6	Trego	17
Kearny	5	Wallace	4
Lane	5	Wichita	0
Logan	11		
Total			343
Grand total			2,489

After this census was taken the Hutchinson tractor show came along, and straightway the number of machines in Kansas increased several hundreds. There probably are 3,000 tractors in the state now.

**The Overheated Stove**

Overheated stoves caused 49 fires in Kansas last year, according to reports received at the office of the state fire marshal. The combination of overheating with flaws and other weaknesses caused 117 fires, with a property loss of \$59,000. Nearly all of these fires could have been avoided by the exercise of a little care.

The most common cause of overheating is the use of stoves that are too small to heat the room in which they are used. It is the attempt to push the stove beyond its capacity that causes the fire. It is less expensive in the long run to buy the larger stoves. A stove that is large enough to heat a room in cold weather without becoming red hot will outlast three or four stoves that have to be kept red in cold weather. Then, too, the larger stove will produce more heat with the same amount of coal, as it is not necessary to open the draft so wide, and much heat is saved, which in the case of the small overheated stove goes up the chimney.

**Removing the Small Warts**

How can I get rid of clusters of small warts on the teats of one of my cows? Kay County, Oklahoma. W. A. M.

The best thing to do with the small warts on the cow's teats is to snip them off with a pair of scissors when the animal is dry. Immediately after cutting them off you should apply some 5 per cent solution of formaldehyde.

Dr. R. R. Dykstra.  
Kansas State Agricultural College.

# What Should an Engine Weigh?

Abraham Lincoln was asked how long a man's legs should be, and he replied that in his opinion they should be "long enough to reach the ground—and no longer."

An engine should weigh enough to do its work steadily, quietly and durably—and no more. In the early days of engine building it was necessary to cast engine parts very large and heavy, and to have a very heavy base and fly-wheel, because the violent explosions and the alternating fast and slow speeds of the old-style engine would tear it to pieces unless it were held together by sheer bulk and weight.

The development of automobile engines, however, demonstrated that a gas engine, properly designed, balanced, machined and governed, could successfully be built very light in weight per horse power, and today the most reliable and economical engines in the world are light weight engines.

**Six years ago the Cushman Motor Works designed a new type of engine for farm work. It was exceedingly light, weighing only about one-fifth as much per horsepower as other farm engines**

but so well built and accurately balanced and governed that it ran more steadily and quietly than a farm engine was ever known to run—almost like a sewing machine, compared with the old-style explosive heavy-weights. Some people laughed at the Cushman Light Weight Engine and called it a toy. "Why," they said, "a 4 H. P. engine that a man can carry, weighing only 190 lbs., must be a joke." But when they saw the Cushman at work beside the big heavy engines weighing five or six times as much for the same horsepower, they realized that weight does not mean power, and that the Cushman is a giant in power for its size.

Other people used to tell us that very few farmers could appreciate a really high-grade engine like the Cushman. They were wrong. We found there were the sands of farmers who could understand and appreciate the mechanical advantages of a high-grade modern engine, just as they can appreciate pure bred stock, and who were especially interested in the fact that the Cushman Engine can be moved around easily from job to job and put to work anywhere without delay and without being mounted on a permanent base.

## Cushman Light Weight Engines

**40 to 60 Pounds Per Horse Power**

**Are the Leading Light Weight Farm Engines of the World**

**4 H. P. Weighs Only 190 lbs.      15 H. P. Weighs Only 780 lbs.**  
**8 H. P. Weighs Only 320 lbs.      20 H. P. Weighs Only 1200 lbs.**

Cushman Engines are equipped with Throttle Governor and Schebler Carburetor. The very sensitive Cushman Throttle Governor allows the engine to receive just enough fuel to take care of the load at that moment put on the engine. When the load increases suddenly, as in sawing—when the saw strikes the log, the governor opens suddenly and takes a big charge. When the load is removed, the governor suddenly throttles down. This results in a uniform speed and power that is impossible to secure in engines not carefully governed. The perfect balance of the Cushman also contributes to its steadiness, and this steady speed insures unusual durability and freedom from engine trouble.

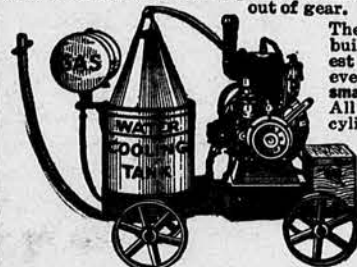
The 4 H. P. is a wonderful little farm engine, because in addition to doing all the ordinary farm work, it is so light it may be attached to moving machines in the field, such as grain and corn binders, potato diggers, etc., driving the operating part of the machine and leaving the horses nothing to do but pull the machine, out of gear. It is thus an all-year engine.

The 8 H. P. is possibly the most useful all-around farm engine ever built. It may be used for such a wide range of work—from the smallest jobs to driving the ensilage cutter, wood saw, corn sheller, and even small threshers. It will do the little jobs just as economically as a small engine, as it uses only enough fuel to do the actual work required. All 8 H. P. and larger Cushman Engines are double cylinder. Double cylinders mean steadier power.

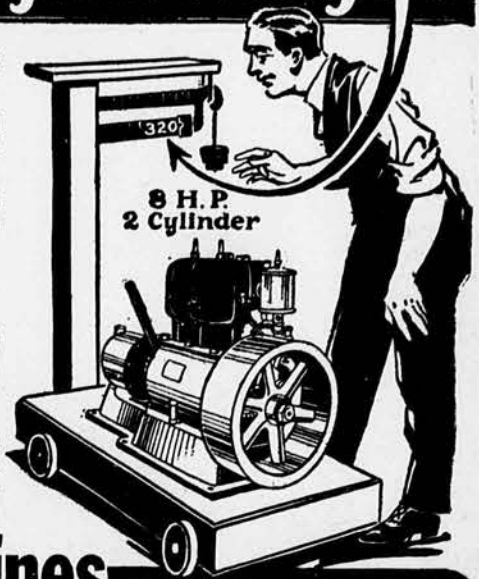
The 15 H. P. is a halfway heavy duty engine, and the 20 H. P. is for all big work. The 20 H. P. is equipped with a gear-driven high tension Magneto. This size is ideal power for threshers. Mounted on a truck, it may be pulled anywhere by two horses, and do all work up to 22 H. P.

The Cushman is not a cheap engine, but it is cheap in the long run. If you want a good engine, that can easily be moved around to do all your work and that will run for years without trouble, you will be interested in learning more about the Cushman. It will be a pleasure to send you our new book.

**CUSHMAN MOTOR WORKS**  
814 NORTH 21st STREET  
LINCOLN, NEBRASKA



Compare this powerful little 4 H. P. Cushman weighing only 190 lbs. with other 4 H. P. engines. With iron truck it weighs only 375 lbs. Besides doing all other farm work, it may be used on binder during harvest.



Compare this compact, high grade, steady-running 2-cylinder Cushman, weighing only 320 lbs., with other 8 H. P. engines, in weight, equipment and performance. Equipped with Schebler Carburetor & Friction Clutch Pulley

**Before Buying Any Engine Ask These Questions**

**How much does it weigh?**

If it weighs more than sixty pounds per horsepower—why? The old-time argument was that heavy weight is necessary to keep it steady, but if an engine is properly balanced, it doesn't need pig iron to hold it down.

**Is it Throttle Governed?**

A throttle governor insures steady, quiet and economical power.

**Does it have a good carburetor?**

The Cushman has the Schebler. The Schebler makers say most manufacturers of farm engines won't pay the price for a good carburetor.

Dave Linton, Ransom, Ill., says: "I can do everything with the 150 lb. Cushman that I could do with an engine that weighed 1,000 lbs., and do it better, with a lot less noise."

Rudolph Masler, Pleasanton, Nebr., says: "The 20 H. P. Cushman engine is a dandy. It has plenty of power for my 8-hole sheller, as I shelled 780 bushels of corn in one day, and set four times. I would not have any other kind of engine, as I have had plenty of lessons with gas engines. For I have been shelling corn for twenty-three years."



be quickly detached, also a handle on the side. The case of the lantern is made of steel, black enameled, has a mirror reflector, especially made Tungsten globe, and ground glass lens. Bad weather does not affect it in the least. You can carry it around in the rain and snow, or in a strong wind and your light is always sure. A turn of the switch and your light is on, and keeps going until you turn it off. Not a spring switch as on a flash light. One of the greatest things about this new electric lamp is its source of power. An ordinary dry battery—any old battery you have discarded from a door bell, telephone, gas engine, or automobile, will run the lantern for months with ordinary use. A new battery only costs 25 cents, and will run the light all winter. You won't have any trouble getting the batteries for this light like so many. It is just a common No. 6 dry cell. Any hardware store keeps them.

## No Danger Of Fire!

How many times do you have to resort to the old oil lantern to see to finish up your chores? Almost every day through the winter, don't you—and every time you use a lantern of this kind around the barns, granaries, hay mow, or the many other places where you have to go, you are taking big chances with fire. One moment of carelessness—dropping a smouldering match, upsetting the light, or an explosion, and you are likely to have a serious conflagration. Of course it might never happen to you, but you don't know. The best way to prevent it is to eliminate the risk as much as possible. Don't take any chances with the dangerous old fashioned oil lamp.

## Use a Delta Electric Lamp

The only safe kind of a light in the world. You can use it in a hay mow, or around a gasoline tank without one bit of danger. It is made for every-day, knock-about, practical use. Not a pocket flash light, but a real electric lantern. Just fits your purpose—has a ball like the old style lantern, which can

### Mail and Breeze Special Offer

We have purchased direct from the factory a number of these lamps to distribute them among our readers. The regular price of the lamp is \$2.00, but by purchasing a quantity we are able to offer you one free and postpaid with a three-year subscription to Mail and Breeze, and \$2.50 to pay for same. New or renewal subscriptions accepted on this offer. Order today while our supply lasts.

**The Farmers Mail and Breeze** Dept. H. L. 12  
Topeka, Kansas

**THE FARMERS MAIL AND BREEZE, Dept. H.L. 12, Topeka, Kan.**

Gentlemen—Enclosed herewith find \$2.50 to pay for a three-year subscription to Mail and Breeze. You are to send me the electric lantern free of charge.

Name .....

Town .....

State ..... R. F. D. .... Box .....



Old "Bob" says:—  
When I Ache,  
When I'm Rheumatic  
Please use—



## SLOAN'S LINIMENT

**\$'s can be saved by treating your horse in time. Cuts, coughs, shoulder lameness, influenza and allied aches are reached by this penetrating liniment. Every provident home needs a bottle for emergencies. 25c. & 50c.**

The \$1.00 size contains six times the 25c. size



### The Side Car Delivery

Postmaster General Burleson's order authorizing the use of motorcycles on R. F. D. routes is received with satisfaction by millions of people in the United States who have become accustomed to receiving their newspapers and other mail matter on schedule. The postal department was inclined to believe last July that the motorcycle did not permit expansion of the parcel post. Mr. Burleson assumed personal charge of the investigation and the reports made by postoffices throughout the country showed that the motorcycle and side van is meeting the needs of the department satisfactorily.

In the suburban districts of the large cities as well as in the rural districts the regular mail established with the aid of automobiles and motorcycles has

### Better Home, Better Boys

In your issue of October 16, I read several good articles about keeping the boy on the farm. The one by Mr. Fager should be read and pondered by parents. There is, however, it seems to me, another thing country people ought to do which would not only benefit the children but would add to their own enjoyment and benefit the country at large. It is a common sight to see a farm house standing on the prairie without a tree or shrub about it; the farm machinery left wherever the team happened to stop when the work was done so that the place resembles the surroundings of a poorly kept agricultural machinery store in a small town. The chickens and hogs have the run of the place and there is nothing of beauty and nothing of order; but everything at haphazard. This may

### Enjoy Life More by Farming With a Tractor



**AVERY** "One Man" Outfits. 7 Sizes. Fit Any Farm.

Don't spend your time this winter taking care of a lot of surplus idle horses. Sell them and place your order for a tractor that you don't have to take care of after you run it in the shed until you want to use it again. Save the time it will take you to care for your extra horses every day and spend it instead in enjoying life more and in studying out how to farm better.

Next year your tractor will also save you a lot of hard work and time every day you use it. At noon and night turn the switch and you are through. All the extra time it takes to feed, water, harness, curry and bed horses you can spend at more profitable work or in getting more enjoyment out of life.

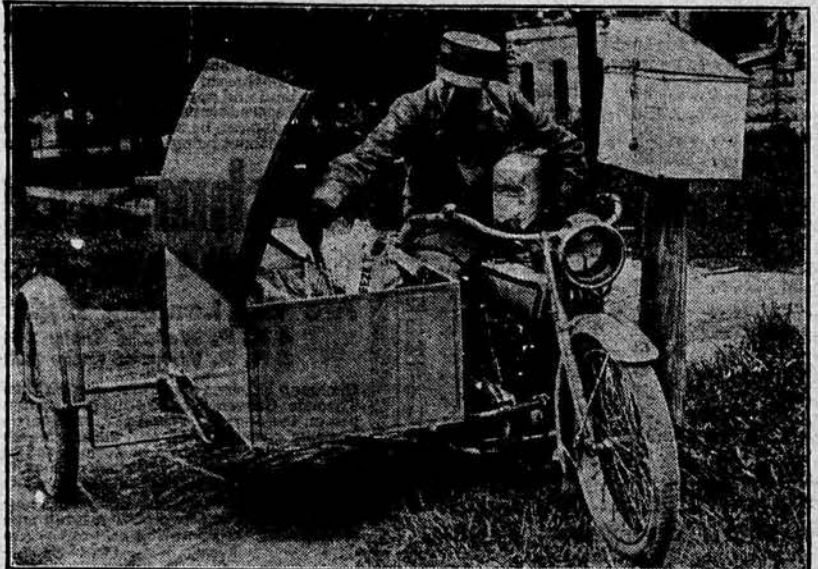
Tractor Farming means a lot more to a boy. Every boy likes to handle machinery. And a tractor helps the mother and girls too. It makes less hired help. And because there are less chores the whole family can get more time to spend together in the evening and more opportunity for going to entertainments, etc. And besides saving hard work, Tractor Farming makes more profits, which means being able to buy an automobile, more home conveniences and comforts.

**Avery Tractors and Plows Make Tractor Farming a Success on Any Size Farm**

There are seven sizes of Avery Tractors pulling from 1 to 10 plows. They fit any size farm. They sell at low cash prices. They are so successful that there are more acres plowed every year by Avery Tractors and Plows than by any other make. They are built and backed by a company with a large factory and many branch houses, which insures permanent service after you get one.

**Investigate Tractor Farming With an Avery Outfit**

Learn how Tractor Farming with an Avery Outfit will save you hard work and make you more money—how it will enable you to enjoy life more. Write for complete free Avery Tractor and Plow catalog and get off the facts. **EVERY COMPANY, 1013 Iowa St., Peoria, Ill.**



The Motorcycle and Side Van Permit the Carrying of Parcels Impossible to Handle Before the Car Was Attached.

accomplished wonders in the daily life of all who are enjoying the R. F. D. service. To have that service curtailed in any way would affect not only the people on the rural routes but all with whom they have social or business relations.

The usefulness of Uncle Sam's rural routes has been increased greatly by the parcel post, benefiting not only the patrons on the routes in receiving shipments from the cities but city residents who receive farm produce by parcel post. Consequently the decision of the postmaster general approving motor deliveries and collections on R. F. D. routes is meeting with approval in the cities as well as in the country.

be the cheaper way to do; it may be more profitable to raise hogs and hens than to raise children; it may be the quicker way to earn money to buy more land so that when you die and go to heaven you will be of some importance there, but it is a risk. The children grow up in this untidy home and by and by some of them go to town to high school. There they see clean, straight streets, nicely kept parking, beautiful lawns and handsome houses surrounded by trees and shrubs and everything so different, so beautiful, compared with their home surroundings that they seem to be in another world. It appeals to them and they like it and the thought of the unlovely home becomes distasteful.

**USE Common-Sense Liniment For Man or Beast**

T. H. Jackson's Colic Treatment For Horses and Mules

Prepared Only by  
**T. H. Jackson & Co., Quincy, Ill., P.O. Box 416**  
For Sale by Druggists Generally.

**50 Cents Each.**

**SAVE HARNESS MONEY**

Hundreds of amazing bargains! Write now for free copy of our new catalog, with life-like pictures of harness, saddles, bridles, blankets, bits, etc.

**Special Offer**

Here's a dandy extra heavy copper riveted halter, 1 1/2 inch wide, sells for \$1.50 everywhere; our special offer **\$1**

**We Prepay the Freight**

Save you from 30 to 50 per cent, guarantee our goods for two years, refund on the minute if goods don't suit you. Send goods with privilege of examination. Get catalog TODAY—it's free for the asking—and see our wonderful direct-from-maker bargains.

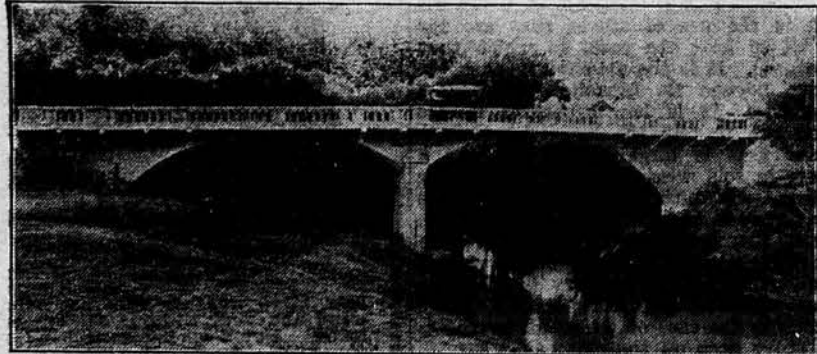
**H. & M. Harness Shop, Dept. K, St Joseph, Mo.**

**Pawnee Has Good Bridges**

A special effort is being made in Pawnee county in the building of permanent concrete bridges. There are nine large bridges in the county, and a great many smaller ones. The picture shows one of the bridges over the Pawnee River, near the farm of A. H. Moffet of Larned, who has a place about 12 miles from town. This is an excellent bridge, which is becoming stronger with the years, and it will require almost no

I can think of two things to keep the boy at home: make the home what it should be and bring the school to the child. We should have a high school in every township where our young people can receive vocational training to fit them to be farmers of the highest class. If our boy is to be a doctor, we send him to a medical school, if a dentist to a dental school, and so on through all the professions. But the farm boy does well if he gets through the eighth grade.

Farming is no longer considered merely as physical labor; it is a profession,



One of the Excellent Concrete Bridges Across the Pawnee River Near the Farm of A. H. Moffet of Larned; It Is Permanent and Safe.

repairs. There is little danger of a threshing outfit going through this bridge. It is expected that a great many concrete bridges will be built in Pawnee county in the next few years, for the farmers are especially well pleased with them. Their cost is little more than with the inefficient "tin" bridges, and they are beautiful, strong, permanent and safe.


taking its place as the most useful, the most necessary industry of the world, where brains as well as muscle must be trained and used. Then let us make our homes what they should be. Let us bring the school to our children and let them remain at home, helping to make it beautiful and knowing that they are partners in the "home firm."

Bluff City, Kan. James Glover.

**"RUBY GORDON Or Back From The Grave" FREE**

By Libbie Sprague Phillips.

Here is a thrilling story of love, mystery and adventure that will grip your attention from the first word to the last! It is one of the greatest novels this famous writer has ever produced. Ruby Gordon, a poor orphan girl, becomes engaged to one of the young men in the town, who is the adopted son of a wealthy reclusive. The old gentleman took a great dislike to Ruby Gordon because she reminded him of his wife who had left him years before and had been lost at sea in crossing the ocean; he felt that she was his wife's spirit reincarnated, and forbade Lawrence, his adopted son, to marry her, and made so much trouble that the young man finally broke his engagement and married another, but it is not their fate to so easily evade Ruby Gordon, as you will discover when you get your free copy of this great book and read the story yourself! Ruby Gordon will surely find a warm place in your heart—she is one of those sweet pure characters every reader admires. We purchased a large edition and will send the book free and postpaid to all who send 25c to pay for our new one-year subscription to our big home, farm and news weekly—or send 25c to pay for your new renewal or extension 1-year subscription and be additional 25c in all. Send today. Address **CAPPER'S WEEKLY, BOOK DEPT. EG-101, TOPEKA, KAN.**





# Study the Udder Carefully

Sixth Article in Series on Judging Dairy Cattle

BY GILBERT GUSLER  
Ohio State University

A CAPACIOUS flexible udder held up snugly to the abdomen is wanted. To be of good size the udder must be attached high up in the rear and be broad or wide at the place of attachment. In other words, it must fill the space between the thighs. It should bulge out so as to be somewhat rounded and show to the rear of the thighs, and continue this fullness well to the front of the front teats. A contraction, or cutting up, just in front of the front teats is a common fault. The length and width of attachment controls the amount of nourishment and warmth conveyed to the udder. Capacity of udder should come more from length and breadth than from depth. Enough depth to simply round out the outlines is sufficient. Pendant udders are liable to injury and disease and are more difficult to keep clean. Closeness of attachment will influence the apparent size, and is to be remembered especially in comparing old with young cows.

After size of udder, the texture is important. A soft, pliable, mellow, spongy udder, covered with a mole-like skin and short hair usually is composed largely of glandular tissue, while the more firm and fleshy one is filled mainly with connective and fatty tissue. The udder should be pressed between the hands to note these qualities and also its freedom from lumps. In an important decision, as in a show ring or a purchase, it is well to see the animal milked out when the previously distended udder should hang in loose folds, greatly reduced in size.

With the udder developed in the manner described it will have the shape desired, provided that it is symmetrical or uniformly developed in each quarter and not badly divided between the quarters and halves. It should have a square or flat level floor.

Well formed teats, 3 or 4 inches long, of a size convenient to grasp, uniform in length and size, hanging perpendicularly and placed on regularly are the preferred sort. In judging, each teat should be tested for milk to see that it is sound and not obstructed. Hard milking as well as leaky teats are objectionable.

Although the mammary veins convey a part of the blood from the udder to the heart, the rest going over an invisible route, yet, large producing cows always have large mammary, or milk, veins. There always are two of these veins, sometimes more. Large elastic veins indicate a copious blood flow through the udder and the larger ones usually are longer and more crooked, or tortuous.

Large and numerous milk wells are necessary to supply entrance for such veins to the body. The well can be located by the finger tip at the forward end of the milk vein. More or less prominent veins on the exterior of the udder, called udder veins, frequently occur and are indicative of the amount of blood flow through the udder.

The size of the milk veins will reduce

with advanced lactation. Although the milk veins of heifers do not develop full size until the third or fourth lactation period, the milk wells are more constant in size and should be given special attention in such cases.

A cow can be judged with greatest accuracy when she is near the best stages



Attached High and Wide in Rear.

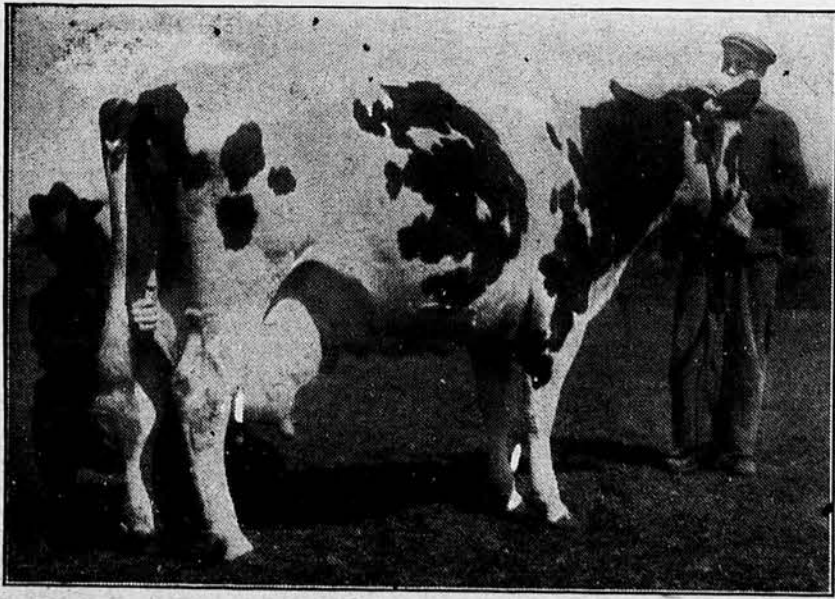
of her lactation period, but it is sometimes necessary to pass judgment on a dry cow. The amount of loose skin in the udder or its stretchiness, together with the size of milk veins and especially the milk wells, are indications of the probable milking ability. Dry cows often will show some excess flesh because of being well fed to get them in shape for freshening. Likewise the heifer may be slightly beefy for sometime after her first calving. In judging a heifer, some allowance should be made for future development of the barrel.

## Raise Calves at Half Cost

Raise Calves at half cost by using Brooks Best Calf Meal as hundreds of others are doing. 100 lbs. \$3.25. 500 lbs. \$15.00. Free booklet and directions. Brooks Wholesale Co., Ft. Scott, Kan.—Advertisement.

## Girl a Good Stock Judge

Maude Hall of Grain Valley, Mo., was the only girl in a dairy stock judging contest at the American Royal at Kansas City recently but she won second prize of \$10. The contest was open only to residents of the county in which the exposition was held. The young man who made the highest score, 91.3 per cent, received as first a \$25 scholarship at the Missouri College of Agriculture, Farmers' Week, which will be held this winter in Columbia.



The Udder Should Be Very Stretchy and Pliable. Capacity Should Come More From Length and Breadth Than From Depth.



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THERE are special advantages in using a good cream separator during the fall and winter months. The milk from cows long in lactation is hardest to cream, and likewise hardest to separate with an inferior separator.

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Then there's the sweet, warm skim-milk for stock feeding, alone worth the cost of a separator in cold weather.

There is surely no reason to delay the purchase of a separator or to continue the use of an inferior one.

You can't afford to wait until next spring. Let the De Laval start saving cream for you right now and it will earn its cost by spring. See the nearest De Laval agent at once, or if you do not know him, write us direct for any desired information.

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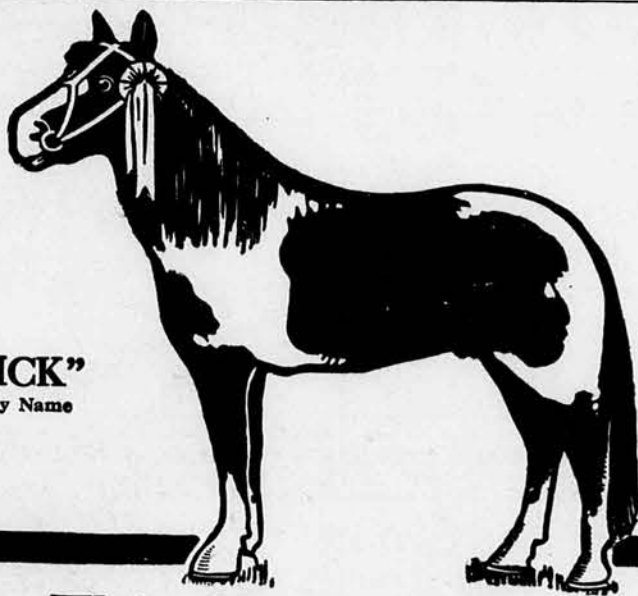
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"DICK" Is My Name

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**BOYS! GIRLS!** A real, live, genuine Shetland Pony with Carriage Harness, Bridle and Saddle, will be given away, entirely FREE. If you haven't a pony, and want this one, the thing for you to do is to send me your name AT ONCE and learn of my FREE PLAN. All my ponies are well trained and gentle. I have already made hundreds of little boys and girls all over the country very happy by sending them beautiful Shetland Ponies and now it may be your turn to get one.

"Dick" is the pony's name, and he is just the cleverest and sweetest little pony you ever saw and his outfit is the very finest money can buy. If you have ever dreamed of having a nice little pony, write today for my plan that has made it easy for boys and girls to get ponies.

**Don't Send Any Money, Just Your Name**



Then I'll tell you how to get a pony and how hundreds of other boys and girls have of the boys and girls to whom I have given ponies, until they wrote and told me they wanted one. That is what you must do quickly if you want one of the next ponies given away. Use the coupon and send me your name on a postal card. Just say: Dear Uncle Jerry: I want you to tell me how I can join your pony club and get a pony and buggy free.

**MAIL THIS COUPON TO-DAY**

Uncle Jerry, the Pony Man,  
Send me the full information free, telling how I can get Name Postoffice State

Illustration: H. H. H. H.



# A Farm Festival Was Held

## Leavenworth County Had a Big Showing of Crops

BY F. B. NICHOLS  
Field Editor

THERE was an excellent interest and a large attendance at the fall festival last week in Leavenworth. This festival was held by the Leavenworth County Farm bureau and the merchants of Leavenworth, and the exhibits in Coliseum hall included many entries from both country and city. An especially good showing of crops was a feature.

One of the things which was demonstrated forcefully by this festival was the excellent spirit of co-operation between the business men of Leavenworth and the farmers of the county. H. J. Waters, president of the Kansas State Agricultural college, called special attention to this feature in the course of an address. He showed that the communities which have this spirit of co-operation make much more progress than when it is lacking.

Most of the townships of the county had individual exhibits of farm crops. Kickapoo township took first, Delaware second and High Prairie third. The sweepstakes prize for apples went to William Frelenmuth, who took nine firsts. The judging was done by Charles Taylor of Effingham, county agent of Atchison county, and F. S. Merrill of Manhattan, of the department of horticulture of the Kansas State Agricultural college.

### Good Corn Was a Feature.

Excellent quality was shown by the entries of corn especially. Leavenworth county has produced a good corn crop this year, which was well demonstrated at this show. The first prize for yellow corn went to L. C. Clark, and the first prize in the white entries went to Gus Aaron, president of the Leavenworth County Farm bureau. The awards in the apple section were:

- Pears—1, W. J. Murray; 2, Leo Banks; 3, Matt Kennedy.
- Winesap Apples—1, Baxter Brothers; 2, W. J. Henry & Son; 3, Leo Banks.
- Jonathan—1, W. J. Henry; 2, W. P. Chance; 3, William Frelenmuth.
- Ben Davis—1, R. H. Burt; 2, W. J. Henry; 3, William Frelenmuth.
- Black Twig—1, William Frelenmuth; 2, E. S. Carr; 3, W. J. Henry.
- Minkler—1, W. J. Henry.
- Babbitt—1, W. J. Henry.
- Wagoner—1, W. J. Henry; 2, William Frelenmuth.
- Arkansas Black—1, W. J. Henry.
- Paynes—1, W. J. Henry.
- Grimes Golden—1, W. P. Chance.
- York Imperial—1, William Frelenmuth; 2, Leo Banks; 3, W. P. Chance.
- Stayman Winesap—1, William Frelenmuth; 2, Baxter Brothers; 3, W. P. Chance.
- Dominie—1, W. P. Chance.
- Gano—1, William Frelenmuth; 2, Leo Banks; 3, E. Burrie.
- Roman Beauty—1, William Frelenmuth; 2, Baxter Brothers.
- Delicious—1, William Frelenmuth.
- Genitan—1, William Frelenmuth.
- Yellow Bellflower—1, William Frelenmuth.
- Willow Twigs—1, E. S. Carr; 2, J. H. Green.
- Missouri Pippin—1, E. S. Carr.

F. J. Dessery of Tonganoxie entered a pumpkin which weighed 63 pounds. One head of cabbage weighed 23 pounds, which is a good size even for this year. There was a big crowd all the time around the booth where the canning demonstrations were held, for this work is attracting a great deal of attention in Leavenworth county. The booth was in charge of P. H. Ross the county farm agent, with the students from the Junction school near Lowemont, who have done excellent work this year in canning. Thomas Cahill, the principal, and Rose Ode, a teacher, have taken special interest in the work of the county farm bureau, and under their direction the school is giving a fine country life training.

In addition to the booths of the farmers, the manufacturers and merchants also made a good showing, and a very heavy attendance came from both the city and country, which kept the building well filled during the three days the festival was held. It was an excellent showing of the agricultural and industrial possibilities of the county. Already the leaders are planning for the fair for 1916, and as a longer time will be available in preparing for this it is believed that it will be an even larger display than the show of last week.

### The Farm Bureau Has Won.

A festival such as that at Leavenworth is a most encouraging thing in the progress of farming in that county. Es-

pecially does it indicate that the Leavenworth County Farm bureau, with its 263 members, is very much on the agricultural map of the state. This county has led in the farm bureau movement. When Mr. Ross went there August 1, 1912, he was the first county agent in the state, and the farm bureau had but 56 members. The farm bureau idea was new and untried, and there were many men who believed it would fail. That this has not occurred was well shown by this fall festival, by the remarkable increase in membership of the farm bureau and by the enthusiasm with which the members regard this organization. Mr. Ross and the Leavenworth County Farm bureau are winning in a big way.

That the bureau is taking a large part in the agricultural progress of the county is well shown by the fact that there were 2,340 acres of alfalfa in that county in 1912 and that there are more than 8,000 acres now; and that there were 100 silos then and 231 now. Big losses from Hessian fly used to be the rule; this fall practically every field was sown after October 1, or late enough to escape this pest. As a result of the wheat smut campaign of last year this disease was almost eliminated; enough seed wheat was treated to plant more than 10,000 acres. And, more important than all of this, excellent work has been done among the boys and girls of the county,

## The Rottenness

of the law's end of the Kansas Natural Gas deal is no greater than the inward corruption of the thing itself. Even before the receivership robbery the company had expensive suites of offices for high-salaried, seat-warming favorites who seldom occupied them or did any work. And the Kansas Utilities commission has discovered that contrary to law the company has been selling boiler gas in Kansas towns at half a dozen different prices, ranging from 3 1/2 to 12 1/2 cents a thousand, while declaring it was losing money by supplying gas to other consumers at less than 37 cents a thousand. The whole thing is a stench in the nostrils of the people, demanding the strongest disinfectant they can administer by way of popular scorn, condemnation and disapproval.

which is leading them to see the future of country life and the good financial returns which can be obtained if the better methods of farming are used.

With all of these facts before them it is no wonder that the Leavenworth farmers had a festival last week, to celebrate the fact that they are leading in the agricultural progress in Kansas. It also is easy to understand the enthusiasm with which they view the future. For as a member of the bureau expressed it last week, "We have not yet fairly started on the work we mean to do."

## Wind Puffs on a Colt's Leg

My 4-year-old colt has wind puffs coming on his hind legs. I think this was caused from working on the road. Is there anything I can do for this trouble?  
Elk County, Kansas. W. F. P.

Wind puffs in colts may be treated by clipping the hairs as short as possible over the swellings and then applying the following mixture with a stiff bristled brush, two or three times a week:

- Gum camphor ..... 1/2 ounce
- Resubined iodine ..... 1/2 ounce
- Alcohol sufficient to make 4 ounces.

Dr. R. R. Dykstra.

Kansas State Agricultural College.

## His Excuse

"This is a pretty time of night for you to be coming home, Jeremiah!"  
"I know, my dear; but I hadn't anywhere else to go."

Don't let Roup get your poultry profits. Use Conkey's Roup Remedy in the drinking water. 50c. Conkey Co., Cleveland.—Advertisement.

## How To Prevent Roup

Dear Sir: Last winter I had 150 hens with the Roup and had lost 27 when I saw Walker's Walko Remedy recommended for this disease. I sent 50c (M. O.) to the Walker Remedy Co., L. 22, Waterloo, Iowa (formerly located at Lamoni, Iowa), for a box, postpaid, and will say that it cured all that had the Roup and has kept the disease away ever since. I never had hens do better than last winter, and everyone knows what an awful hard winter it was on chickens. They have been healthier and have laid better ever since using this medicine. Mrs. Henry Farmer, Jerseyville, Ill.—Advertisement.

**POULTRY BOOK FREE** Contains condensed experience of twenty-five years with poultry. Hens, Yards, Incubator Operation, Care of Chicks and Poultry, Diagnosis and Treatment of Disease, Poultry Secrets, Pointers For the Amateur, Mandy's Poultry School, The \$1,000 Egg-Hatch Record, Egg Record, etc. All free.

GEO. H. LEE CO., 215 1st St., Omaha, Neb. Mrs. Lee's Lice Killer, Germicide, Lee's Egg Maker, etc.

## 6 LACE CURTAINS FREE

For selling 12 boxes White Cloverine Salve at 25c per box. Give beautiful picture free with each box. Everybody buys 2 to 3 boxes when you show pictures. Send for one dozen today. WILSON CHEMICAL CO., Dept. N. 104, TYRONE, PA.

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100 Candle Power incandescent pure white light from (kerosene) coal oil. Burns either gas or electricity. **COSTS ONLY 1 CENT FOR 6 HOURS** We want one person in each locality to whom we can refer new customers. Take advantage of our Special Offer: secure a Beacon Burner FREE. Write today. AGENTS WANTED.  
BURNER SUPPLY CO., 34 Home Bldg., Kansas City, Mo.

## FREE COWBOY Watch Fob

Here is the most unique, popular novelty of the year—a nifty little leather holster and metal gun, an exact duplicate of a Army Colt, with height polished, brass cylinder and black handle. Gun 3 1/2 in. long. Holster 3 1/2 in. long, genuine leather, tan color. Makes a neat appearing and serviceable watch fob or can be worn on belt as ornament. Worn by men, women, boys and girls. The one real watch fob in big cities at a high price. Send 1c to pay for 3-months trial subscription to our big, home and family magazine and receive the COWBOY WATCH FOB and GUN free. Address: The Household, Dept. Feb-272, Topeka, Kan.

# FREE This Famous Sewing Awl

You can sew old or new harness, saddles, canvas, tents, rugs, carpets, quilts, shoes, grain bags and many other things. You can use any kind of thread in the Myers Awl, and it makes a lock stitch same as a sewing machine. It is very simple; a woman can use it as well as a man. It is one of the most practical devices ever invented. They are put up with two needles; one is straight and one curved, with a small screw driver and wrench combination. Also a reel of waxed thread with each awl ready for use. The cut does not show full size. With needle the awl is 6 1/2 in. long. It is the Myers Famous Lock Stitch Sewing Awl. It is the only Sewing Awl made with a groove running the full length of the needle, so as not to cut the thread when sewing, and has what is known as a diamond point. Every teamster and farmer should own a Myers Lock Stitch Sewing Awl, as there is use for one in almost every household. The Myers Awl is nicely finished, the metal parts are nickel plated, the needles and wrench are kept in the hollow handle which has a screw top.

Anyone who will send \$1.25 to pay for a one-year's subscription to our big farm paper can select one of Myers' Lock Stitch Sewing Awls, which we will send by premium. Use Coupon below.

## MAIL AND BREEZE

is the biggest and best farm journal in the West with over 100,000 readers. Established in 1873. Price, 1 yr., \$1.00. The best edited farm journal in America.

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Dear Sirs:—Enclosed please find \$1.25. Send me your paper regularly for 1 year, and one of the famous Lock Stitch Sewing Awls free and prepaid.

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Send Us Your Dealer's Name and address—we will see that you get a chance to see the "Perfection" and will also send you a pleasing souvenir.

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514 S. W. 2d St. Des Moines, Iowa

## Eggs-Not Roup

**YOU** can't expect hens to lay eggs if they are all clogged up with Roup. Watery eyes, bad breath, swelled heads, no eggs—all these are signs of Roup, which is terribly contagious and usually fatal. **Act NOW!** If you want more eggs, write Mr. Reifer for one of his valuable free poultry books. It contains scientific facts of vital interest to every poultry raiser and shows how simple it is to cure this terrible disease. Send for this free book today—do it now. **E. J. Reifer**  
4588 Nelson Bldg. Kansas City, Mo.

## Don't Wear a Truss

**BROOKS'** APPLIANCE, the modern, scientific invention, the wonderful new discovery that relieves rupture will be sent on trial. No obnoxious springs or pads. Has automatic Air Cushions. Binds and draws the broken parts together as you would a broken limb. No salves. No lies. Durable, cheap. Sent on trial to prove it. Protected by U.S. Patents. Catalog and measure blanks mailed free. Send name and address today. **C. E. BROOKS,** 1899 State Street, Marshall, Mich.

## Lumber Prices Smashed!

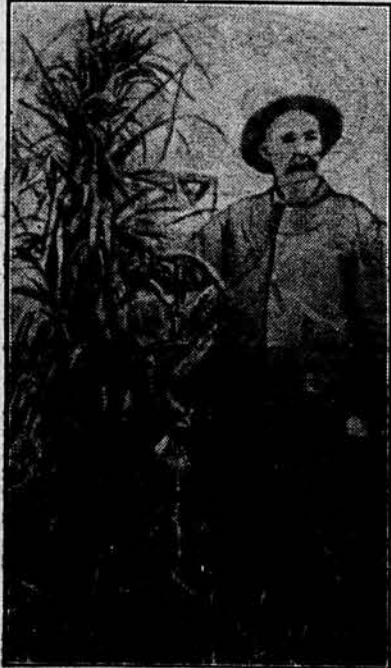
Now is the Time to Buy  
Prices lower than ever. Our facilities for prompt shipment unexcelled. Our customers all satisfied. We never disappoint. Quality and satisfaction guaranteed. Send us your list for estimate at once and get your lumber at lowest prices. We quote freight paid to your station. No payment asked until you receive material. **Local Lumber Co., Tacoma, Wash.**





**Sudan For a Forage Crop**

I have been experimenting with Sudan grass as a forage crop. As it does best in a warm climate, the central and southern states and the great plains region are most favorably adapted for its production. Since 1909, when a small quantity of seed was obtained from Khartum, Sudan, and planted in Texas, it has proved its worth and has been tested in almost every state in the



G. W. Dewees of Salina and His Sudan Grass.

United States. As a grass crop it stands second only to alfalfa. In some ways I think it better than alfalfa as it is not so exacting in its soil requirements and will produce a crop where alfalfa will not. Under favorable conditions it has been known to yield as much as 9 tons an acre. Its feed value is said to be about the same as timothy. I am well pleased with what it has done for me and think it is destined to prove a great boon to the western farmers.

Geo. W. Dewees.

R. 2, Salina, Kan.

**Good Crop, Good Rent**

I am a tenant farmer living on a farm near Burlington, Coffey county, Kansas. I read in the Farmers Mail and Breeze of October 23 that Governor Capper said at the Wichita wheat show, that he strongly upheld long leases and co-operation, and many other good things with which I heartily agree.

I am writing in regard to cash rent. I think cash rent is all right if it was put on a basis that would give landowner and tenant an equal chance, as grain renting does.

Let the rent be governed or controlled by the crops raised; if a poor season and poor crop let the landowner deduct a certain per cent of the specified sum, and if a good season and good crop, the tenant should pay an equal per cent more than the specified sum.

Of course this plan would have its drawbacks but would give both an equal chance; also, it would, on long time leases, keep more of the crops on the places to be fed there.

We sometimes hear landowners say they do not wish to rent for grain because they do not wish to bother with their part of the crop. This plan would partly do away with this complaint.

Lloyd H. Beall.

R. 6, Burlington, Kan.

**Feeding Baby Beef**

BY H. O. ALLISON.

A creep should be provided in the pasture so that calves may have access to grain without being disturbed by cows, as it is very important to start beef calves on grain before they are weaned. They may be kept in a separate lot into which the cows are turned twice a day, if this method is preferred. In this case there will, of course, be no need for creeps or anything else to keep cows from the grain which may be fed at such times that the cows will not disturb the calves.

The calves may be started on a mixture of two parts of shelled corn to one

part of oats by weight. The oats may be gradually reduced until none is being fed at the end of eight weeks, but while this is being done a little old process linseed oil meal or cottonseed meal should be added and the quantity gradually increased until it makes up about a seventh of the weight of the ration. On full feed calves should eat about 2 pounds of grain for every 100 pounds live weight in addition to good roughage. Well bred calves handled in this way should be in prime condition at the end of about 10 or 12 months.

**Kansas Profits by War**

It is estimated that, since the Great War began, Kansas has sold 51 million dollars' worth of products. These are grain, 20 million dollars; horses and mules 10 million; cattle and dressed meats, 10 million; lead and zinc, 5 million; petroleum and petroleum products, 5 million; walnut logs for gunstocks, 1 million. Adding to the profits by the sale of these products, the share drawn by the farmers has been increased by the tremendous advance of market prices.

The demand for walnut logs has been multiplied manyfold by the war. They are found in the eastern one-third of the state, and are trimmed of bark and painted. The wood is manufactured into gunstocks. Many logs also are shipped out of Oklahoma. Indeed, Oklahoma is receiving a full share of the war trade.

**Belated Duty**

A stone marking the grave of William Walker, the first governor of the Kansas-Nebraska territory, was unveiled in Oak Grove cemetery, Wyandotte county, Kansas, September 29. Walker was a quarter-blood Wyandotte Indian, born in Michigan, March 5, 1800. Captured by the Delawares when he was a little fellow, he was sold by them to the Wyandottes. His mother was the half-breed daughter of an Irish trader. Taken to Kansas with the rest of the tribe, he was educated by the missionaries. In September, 1854, he was chosen to be governor of the new territory by the provisional convention. He died in 1874.

**This Butcher Milks**

It is said that President Thomas W. Butcher, of the State Normal at Emporia is the only president of a large institution of learning who keeps his own cow and, at least sometimes, does the milking himself.

"I am going to teach my boy, Tom, the dignity of labor," the president is quoted as saying. "I am going to teach him to milk a cow just as I learned it when I was a boy. I want him to learn that hard work with the hands is worth while and is to be respected. It is not often that I let other things encroach upon the milking hour."

**Concerning Better Fruit Growing**

An excellent book on fruit growing has been issued recently by the J. B. Lippincott company of Philadelphia. This is Productive Orcharding, by Fred C. Sears, a Kansas man, who now is professor of pomology in the Massachusetts Agricultural college. The book contains 315 pages, and it is well bound in cloth.

This is a very practicable book, which takes up the financial end of better fruit growing to a considerable extent. The aim has been to make it as helpful as possible to practical fruit growers. It ought to be in the library on every Kansas fruit farm.

**Your Dairy Cow Needs Grain**

The heavy producing cow, even on good pasture, should receive some grain, since it is impossible for her to secure sufficient nutrients on grass alone, says R. R. Graves. A Jersey or Guernsey cow producing more than 20 pounds of milk a day, or a Holstein or Ayrshire producing more than 25 pounds, should receive approximately 1 pound of grain for each pound of milk produced by a Jersey or Guernsey, and 1 pound to each 7 produced by a Holstein or Ayrshire. When pastures are poor, the grain ration should be heavier.

In the year 1914 the value of gold, silver, copper, zinc, and lead produced in Arizona was \$59,956,029. This was \$10,918,998 less than in 1913. Gold increased \$155,244 and silver \$2,384,647. The others decreased.

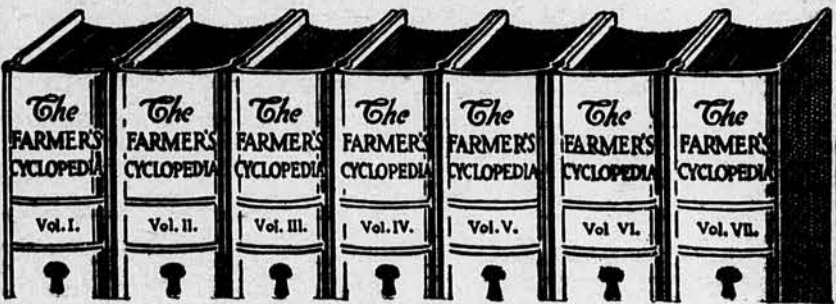


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# Ideal Hessian Fly Weather

## Some Record Yields of Corn Are Being Reported

By Our County Correspondents

**T**HIS warm fall weather makes conditions ideal for the development of a supplementary fall brood of Hessian fly. If we have some snappy cold weather soon this brood of fly will be killed before it has a chance to do any damage. If the warm weather continues for much longer wheat that was sown rather late may become infested. A great deal of wheat has been sown in the last few days, and the more warm weather we have the better for this sowing. Kafir and feterita are being topped. Corn huskers are reporting some record yields of corn.

### KANSAS.

**Harvey County**—Weather fine and wheat sowing nearly done. Wheat stacks getting in fair condition once more. Wheat 95c; eggs 25c; potatoes 80c.—H. W. Prouty, Oct. 29.

**Finney County**—Ideal fall weather. Farmers busy heading maize and feterita. Wheat looks very good. Quite a few public sales in the neighborhood. Stock still on pasture.—F. S. Coen, Oct. 30.

**Decatur County**—Wheat sowing nearly completed. Grasshoppers doing considerable damage to wheat. Public sales not numerous. Stock selling well. Some potatoes will have to be shipped in.—G. A. Jora, Oct. 30.

**Pottawatomie County**—Corn maturing rapidly this nice weather. Kafir nearly all cut and will yield about a third of the usual crop. Potatoes about all dug and the yield is fair but quite small.—S. L. Knapp, Oct. 29.

**Marshall County**—Fine weather the last two weeks. Wheat sowing about finished and the early sowing is up nicely. Not very much corn husking done yet. Threshing not finished. Eggs 23c; butterfat 29c.—L. Stettinisch, Oct. 30.

**Greeley County**—Very good weather for putting up feed. Frost got nearly all the milo and feterita but the kafir is good. Corn is the best we ever have raised. Some wheat planted but the ground is getting dry.—F. C. Woods, Oct. 29.

**Wabaunsee County**—No rain the last two weeks. Farmers busy digging potatoes and finishing sowing wheat. Potatoes good where the ground wasn't too wet. Wheat that is up is looking very good. Threshing nearly all done.—Henry Lesline, Oct. 30.

**Reno County**—Nice weather, and farmers have a good chance to get their fall work done. Forty per cent of the wheat is in the stack yet. Early sown wheat good. Apples all picked. Rough feed plentiful. Good wheat \$1; poor wheat \$2c.—D. Engelhart, Oct. 30.

**Rooks County**—Wheat seeding almost finished. Corn picking will begin soon. Late corn frosted considerably but will make good feed. A good deal of threshing to do yet. Wheat 70c to 90c; corn 70c; cattle 4c to 5c; eggs 20c; butterfat 20c.—C. O. Inomas, Oct. 29.

**Kiowa County**—Wheat growing nicely. Sowing almost finished. Corn will average about 25 bushels to the acre. The quality of the corn is better than usual. Feed very abundant. Silos filled. Hay mows heaped and there is much feed in the shock. No killing frost yet.—H. E. Stewart, Oct. 27.

**Edwards County**—Most of the farmers have their wheat sowed. Some of the early sown and volunteer wheat being pastured. No rain for two weeks and the bright sunshine and wind have dried the wheat stacks and threshing is being rushed. Wheat 95c; barley 35c; eggs 25c.—G. A. King, Oct. 30.

**Stevens County**—A light frost again the night of October 25 which will help to ripen the late crop. Farmers not through sowing wheat yet. Early sown wheat almost covers the ground. Some grain being gathered. Lots of feed, but not enough cattle to eat it up. Eggs 30c; fat hogs 7c.—Monroe Traver, Oct. 28.

**Sumner County**—Wheat seeding almost done. Weather the last week has been ideal for sowing wheat. Some silos being filled yet with kafir and cane. Some wheat being threshed. Wheat 94c; oats 30c; shelled corn 50c; new corn 40c; hens 10c; eggs 25c; butterfat 27c; potatoes 80c.—E. L. Stocking, Oct. 30.

**Geary County**—Two weeks of fine weather and wheat about all sown. Early sowing of wheat is doing nicely. Wheat acreage will be less than last year. Corn husking has begun and quality is good. Hog cholera still here. Not many fall pigs. Wheat 97c; corn 45c; oats 35c; eggs 25c.—O. R. Strauss, Oct. 30.

**Butler County**—Weather fine. Wheat sowing about done and the acreage is small. Corn crop good in some places, making as high as 110 bushels to the acre and as low as 10 bushels. War horses in demand but they are nearly all gone. New corn 50c; oats 35c; fat hogs \$6.50; eggs 22c.—M. A. Harper, Oct. 28.

**Woodson County**—Weather continues fine but it looks a little gloomy today. Silos nearly all filled and some plowing done. Roads being worked and kafir nearly all harvested. Some farmers beginning to feed as pastures are getting slim. Sales starting briskly and bringing fair prices.—E. F. Opperman, Oct. 30.

**Barber County**—October has been an ideal month so far as weather goes. A good deal of threshing has been done and a number of machines are running at present. Wheat about all up and looking fine. Some sickness among hogs. Some corn on the market this week and it is bringing 50c to 55c.—G. H. Reynolds, Oct. 30.

**Osage County**—Fine weather. Cattle have been returned to the pastures. All kinds of livestock selling low at sales on account of scarcity of feed. Much kafir was caught by the frost. Some high yields of corn reported but the acreage is small. Corn 60c; kafir \$1.10; eggs 22c; cream 22c; potatoes 80c.—H. L. Ferris, Oct. 29.

**Jefferson County**—Fine weather although a good rain would help the wheat. Wheat sowing about finished and will average 10

days to two weeks later than usual. Acreage of wheat will be somewhat less than last year. Some blackleg among calves and cholera among hogs. Stock selling high at sales.—Z. G. Jones, Oct. 29.

**Scott County**—Very good weather. Some early sown wheat up. Most of the seedling to do yet. Stock cattle that were shipped in last spring are now going back to Kansas City and most of them did well. More corn than hogs this year in western Kansas. Farmers behind with their work. Milo seed crop late.—J. M. Helfrick, Oct. 29.

**Sheridan County**—Wheat threshing about finished and the yield is far below last year. Acreage sown this fall will be the largest in the country's history. Prospects for the 1916 yield are 50 per cent better than a year ago. A large amount of soft corn. Hogs dying with a disease resembling cholera. Wheat 88c.—R. E. Patterson, Oct. 29.

**Dickinson County**—Weather nice. Very warm for this time of year. Most of the wheat has been sown the last 10 days. Threshing machines are busy. Stacks in good condition but yields are unsatisfactory. Corn too green to crib until now. Kafir and feterita being topped. Feeders offering 40c to 45c for new corn.—F. M. Lorson, Nov. 1.

**Douglas County**—Fine weather. Wheat looks good. Lots of fall plowing being done. Last cutting of alfalfa put up in good condition. Corn gathering will begin next week. Stock doing fine. Some hogs dying. All other stock doing well and still on grass. Farmers up with their work better than usual. Plenty of hay, corn and roughness.—O. L. Cox, Oct. 29.

**Norton County**—Wheat sowing finished and the acreage is about the same as last year. More building and other improvements on Norton county farms this fall than in the last five years. Wheat growing nicely. Some silos will not be filled this fall on account of the rush of work. Some blackleg among calves. Corn drying out in good condition.—Sam Teaford, Oct. 30.

**Sherman County**—Weather fine and a half dozen threshing machines in this county

## Congressmen

representing Illinois will join the Iowa delegation in demanding the enlarging and converting of the Rock Island arsenal into a great plant for the manufacture of war munitions. SURE! Then Iowa will help the Illinois "fellers" demand that Chicago shall be strongly fortified all along the lake front and that expenditures for Fort Sheridan be doubled. Pork deals in millions between states and congressional delegations, are now to be the rule. The possibilities of fat contracts and "big pickings" in the "preparedness" program are so immense that predatory politics already is impatient to get at the spoil. This is our true national peril. Are the people going to let this monstrous thing be put on them?

helping thresh the large grain crops. Two weeks more will about finish the threshing if we have fair weather. Barley making about 50 bushels and wheat 20 to 30 bushels to the acre. Horses and cattle selling at good prices. A large amount of feed and plenty of grass.—J. B. Moore, Oct. 30.

**Pratt County**—Fine weather and the last of the wheat is being threshed. Kafir, feterita and milo have matured very nicely and are being cut now. Grass pasture has remained good longer than usual. A good many hogs have died with cholera. Some corn is being husked and the crop is very good. Early sown wheat looks good. Roads in fine condition.—J. L. Phelps, Oct. 29.

**Allen County**—Fine fall weather. A good deal of plowing done and a little more wheat sown than last year. Threshing nearly all done. Kafir maturing slowly. Cattle doing well on late pasture. Hogs still dying. Not many fall pigs. Not much building and improving being done. Farms scarce for renters and rent is higher than usual. Broomcorn going to market at 75c to \$1.25 ton.—George O. Johnson, Oct. 28.

**Rush County**—Early sown wheat making first class pasture. About the usual acreage of wheat will be sown. We have had a week of good threshing weather and more than a third of the wheat in the county to be threshed yet. Best crop of apples ever raised here and the quality is very good. Potatoes plentiful. All feed crops large and corn is a record crop. Quality of wheat poor and price ranges from 30c to \$1 bushel.—J. F. Smith, Oct. 30.

**Gray County**—Wheat seeding is about finished and the first sowing is now good pasture. Threshing is well advanced, the last week being dry enough to put the grain in good condition. Cutting feed, shucking corn and heading milo and other sorghums are in progress. One farmer in this county reports that his corn made 62 bushels to the acre and my kafir will make 60 bushels. Grain and feed crops could not be better.—A. E. Alexander, Oct. 28.

**Trego County**—Very fine summer weather for the last two weeks. Wheat seeding about completed. Most of the kafir and feterita cut. Corn good but not dry enough to husk yet. A good deal of feed to stack yet. Wheat prospects very good. A good many of the farmers have stock on their wheat now. Threshing not nearly done yet. Wheat acreage not as large as last year. Stock in good condition. Eggs 23c; wheat 90c; oats 40c to 45c; corn 70c to 80c.—W. F. Cross, Oct. 29.

**Smith County**—Fine warm weather continues. Some fields of late corn green yet. Early corn about ready to crib. A number of farmers have begun husking in the south part of the county and yields from 40 to 60 bushels to the acre are reported. Fall

wheat doing nicely but needs rain soon. Not many sales. We need more men to gather the corn crop. Wages are 3c to 3 1/2c a bushel. Wheat 70c to 80c; new corn 50c; potatoes 50c; eggs 22c; butterfat 25c; hens 8c.—Ernest Crown, Oct. 30.

**Harper County**—Threshing has begun again and stacks are in bad condition. Not more than 60 per cent of the threshing done yet. Most of the farmers are through sowing wheat. Some fly in the early sown wheat and volunteer wheat. Hundreds of acres of volunteer wheat left for next year's crop. Corn crop good. Plenty of feed. Kafir crop good. Some wheat fields ready to pasture. Not much sale for horses and mules. Wheat 97c; oats 40c; corn 50c.—H. E. Henderson, Oct. 30.

### OKLAHOMA.

**Lincoln County**—Fine weather. Cotton about a half crop and at least six weeks late. Plenty of feed. Public sales plentiful and stock selling high. Hogs cheap and there is some cholera. Good mares and mules bring \$200 apiece; cows \$50 to \$85.—J. B. Pomeroy, Oct. 30.

**Harmon County**—Weather fair and warm. No frost yet. Rain all last week damaged crops. Everyone busy gathering crops. Some threshing to be done yet. Cotton picking in progress. Some hogs being sold at 4 1/2c pound. Milo 35c to 42c; cotton \$10.75 to \$12; eggs 15c.—R. R. Grant, Oct. 23.

**Pushmataha County**—Weather ideal. Two peanut threshers are running in this locality and the nuts are yielding from 40 to 60 bushels an acre. Most of the vines are being baled. Upland corn is turning out well. All bottom crops completely destroyed by high water. Corn 50c; cotton \$12 to \$13.—K. D. Olin, Oct. 28.

**Washington County**—Wheat sowing about finished and wheat nearly all up to a good stand. Small acreage of wheat sown. Corn crop small and it is being gathered. Weather rather warm and a good shower is needed. Pastures drying up and stock not doing so well. Very few fat hogs. Wheat 90c; corn 40c; eggs 25c.—J. M. Brubaker, Oct. 30.

**Custer County**—No killing frost yet. Nearly all the threshing done and the yield is from 6 to 25 bushels to the acre and quality good. Kafir leads in the row crop. Feterita has fallen and tangled badly. A large increase in the acreage of wheat. Corn crop the best in years. Corn 40c; wheat 90c; eggs 20c; hogs \$6.25.—H. L. Tripp, Oct. 30.

**Blaine County**—Wheat all threshed but not all sown yet. Corn husking in progress. Some farmers are topping milo and kafir. A few stacks of millet threshed out as high as 40 bushels to the acre. Nice warm days and farmers are all busy. Cattle bringing good prices. Calves sold at stock sales for \$32. Wheat 92c; corn 40c; hogs \$6.30.—Henry Willert, Oct. 29.

**Noble County**—Wheat sowing in full progress. Early sown wheat full of fly. Only about a third as much wheat will be sown this year as last. Corn making from 15 to 40 bushels to the acre and the acreage is small. We are having a horse plague here and several horses have died. Wheat 75c to 90c; corn 45c; eggs 13c.—A. E. Anderson, Oct. 28.

**Tulsa County**—Fine weather. Hay making and wheat sowing being finished. About 60 per cent of last year's wheat acreage sown. Corn being gathered and it is the best crop for years. Grass good. Stock doing fine. Plenty of feed. Cotton getting better every day. Some sales and cattle and hogs selling well. Hogs selling a little lower than last year.—D. M. Trees, Oct. 30.

**Dewey County**—A large amount of rain but no frost. Wheat acreage increased at least 20 per cent. Farmers still sowing where corn can be gathered. Corn crop fair, yielding 20 to 25 bushels on the average. Kafir, cane and forage crops good but there was too much rain for hay. Hogs and livestock of all kinds doing well. Corn 40c; wheat 90c.—William Liston, Oct. 28.

**Hughes County**—Very best weather for cotton. Wheat almost all sowed. Corn being gathered fast. Some hay still to be cut. Cattle in good condition to go through the winter. Apples being shipped in from Arkansas for 80c. Cotton coming in fast at about \$4.75 in seed and \$12.65 in bale. Corn 40c; hay 25c a bale; chickens 12 1/2c pound.—Albin Haskett, Oct. 30.

## High Prices For Goldenseal

Goldenseal is a native drug plant of admitted commercial value, which is rapidly becoming scarce, and farmers who have had experience with ginseng may find in goldenseal an admirable side or succession crop. This is the opinion of one of the United States Department of Agriculture's drug-plant specialists. A pamphlet, "Goldenseal Under Cultivation," has been issued as Farmers' Bulletin 613.

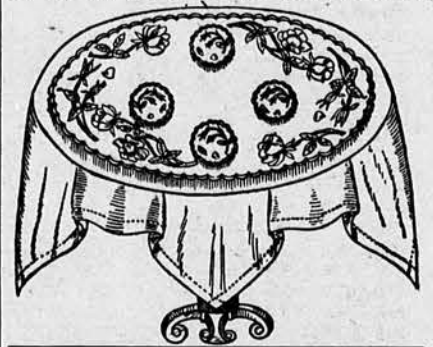
Goldenseal, known to the pharmacist and physician as hydrastis, is native to open woodland where there is ample shade, good natural drainage, and an abundance of leaf mold. It is most abundantly found in Ohio, Indiana, West Virginia, and Kentucky, though it grows west to Minnesota, south to Georgia, and in southern New York. It is not grown in Europe on a commercial scale, and the United States exports quantities of this drug to Germany.

In general, drug plants are difficult to grow, labor costs are high, and the market is limited. These drawbacks are true of goldenseal, but ginseng growers who are already equipped for the culture of exacting woodland plants, but whose ginseng crops have been attacked by pests and diseases, should meet with some success with goldenseal. The latter requires essentially the same conditions as the other crop, but is easier to grow, for it is far less subject to disease and attacks from mice.

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**A New Farm Play**

A farm play based on the back to the land idea is attracting much attention in Minnesota. It is controlled by the extension department of Minnesota University, St. Paul, and it has been well received at the places it has been presented. It deals with some of the vital problems connected with keeping boys and girls on the farm. A recent announcement in regard to the play says that:

"The title of the play is 'Kindling the Hearth Fire.' The opening scene is a farm kitchen of the old kind—a dreary, uninviting sort of place, which speaks only of hard work. Mrs. Field, an over-worked farmer's wife, is shown at the washtub attempting to cleanse overalls and other almost hopelessly soiled pieces of men's wearing apparel. Into the picture come Ned, the son, Doris, the daughter, and several others. It is around Doris, however, that the interest centers. Doris is a charming young girl, but rebels at the thought of a life of druggery such as the farm home stands for. She receives a letter from Ida Johnson, a former neighbor girl who has gone to the city to work in a department store. Ida is a light-minded sort of creature and, overlooking the hardships of her position, writes gaily of the good times she has and of her independence. Doris decides to leave the farm and go to the city.

"The next act shows Doris and Ida in a barren and cheerless boarding house room in the city. In order to economize they prepare a very frugal and uninviting meal of buns and bananas—the bananas well on the way to decay. Ida is preparing for an evening out and Doris is debating whether she shall accept the invitation of a young man, with more means than morals, for an automobile ride and a visit to a road house, as to the character of which she is wholly ignorant. She is encouraged in the acceptance of the invitation by both Ida and Mrs. Ryan, the boarding house keeper. A chance visit by Miss Brooks, a visiting housekeeper for the Welfare League, however, turns the scale against the acceptance of the invitation and when the young man arrives and insists on the girl's going with him, he is sent about his business.

"As a result of Doris's friendship with Miss Brooks, the welfare worker, Miss Brooks accompanies Doris to her home the following summer and there the influence of Miss Brooks is soon seen in a complete change in the farm home equipment. A transformation takes place. Mr. Field, the father, is led to see that the farm home is entitled to its labor-saving devices and comforts just as much as any part of the farm plant.

"The interest in the play is greatly heightened by a very pleasing element of romance. Dave Dalton, a young farmer who has hopes of winning the hand of Doris in the opening act, tries to dissuade her from going to the city. When he fails in this and Doris has gone, he leaves the farm home and goes away to the West. When Doris returns to the farm, however, Dave suddenly appears again and the broken thread is mended."

**Add to a Cell's Life**

The current which comes from a dry cell is made by the action of acid on the zinc case which surrounds it, and as long as there is any zinc and acid left to act on the zinc, the cell will continue to give off current.

But a cell does not use all of its zinc, the reason for this is that as soon as the acid eats through the zinc in spots it escapes, thereby killing the battery. Now if one had some way of holding this acid so that it couldn't escape, it would act on the remainder of the zinc, and by so doing add considerable to the life of the cell.

After some experimenting, I hit upon this plan, which is very satisfactory.

When you buy your cells, remove the paper covers and paint the sides and bottoms with a heavy mixture of paint and varnish. When dry replace the covers and the cells are ready for use.

By placing a film of paint around the cell the acid cannot escape when it first eats through the zinc. So it stays and finishes up the rest of its job. With the result that it adds many more useful hours of service to the cell's life.

Mrs. N. Gosler, of Matfield Green, Chase county, Kansas, gave a dinner party September 18, serving strawberry pies ripened in her garden that day!

**Buying the Best Plugs**

AC plugs, because of their superiority shown on comparative tests, were adopted for regular equipment by these leading manufacturers—

- |                |                 |               |              |               |
|----------------|-----------------|---------------|--------------|---------------|
| Apperson       | Dort            | Jackson       | National     | Saxon         |
| Brockway Truck | Enger           | Knox          | Oakland      | Scripps-Booth |
| Buick          | Federal         | Lambert       | Olds         | Stutz         |
| Cadillac       | Glide           | Lexington     | Paige        | Velle         |
| Chalmers       | G. M. C.        | Howard        | Packard      | Westcott      |
| Chevrolet      | Haynes          | McFarlan      | Peerless     | Wilcox Trux   |
| Cole           | Harley-Davidson | Moline-Knight | Pierce-Arrow |               |
| Commerce       | Hudson          | Monroe        | Pilot        |               |
| Dodge Brothers | Hupp            | Moon          | Reo          |               |

There are a few large manufacturers, however, such as Ford, Overland, Maxwell and Studebaker, who do not use our plugs but there is an AC plug made for each one of these cars which will give the user greater efficiency and a better running car.

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Full weight 40 lbs., 5-lb. Pillows to match \$1.10 a pair. New, Live, clean, Feathers. Best Tickings. Sold on Money Back Guarantee. Write for FREE catalogue. Agents wanted. American Feather & Pillow Co., Dept. 95 Nashville, Tenn.

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show this standard high grade fully visible typewriter to your friends and let them see wherein it excels any other \$100 typewriter. If by doing this and rendering other small assistance, you could easily earn one to keep your own. Then by postcard or letter to us simply say "Send me a Woodstock Typewriter." **WOODSTOCK TYPEWRITER CO., Box 6185, Woodstock, Ill.**

**Sugar Shell and Butter Knife**



**Both FREE**

**Read This Great Offer**  
This is the most liberal premium offer we have ever made and the offer is made solely for the purpose of further introducing our big home and farm magazine, the VALLEY FARMER, to new subscribers. We will send this beautiful two-piece Silver Set free and postpaid to all who send 25 cents to pay for one new one-year subscription to the Valley Farmer and 5 cents extra for mailing expense—30 cents in all. This Sugar Shell and Butter Knife are the genuine Oxford Silver Company's make, silver plated, handsomely embossed in beautiful Narcissus design, full size, bowl and blade highly polished, handles finished in French Gray. Guaranteed to please or money refunded. Send your own new subscription or get the subscription of one of your friends or neighbors, sending us 30 cents in all and we will send you free and postpaid the Sugar Shell and Butter Knife and the latest issue of our big illustrated premium catalog. Address **VALLEY FARMER, Dept. SS-11, Topeka, Kan.**

**Use This Coupon**

Valley Farmer, Dept. SS-11, Topeka, Kan. Gentlemen: I enclose 30 cents to pay for one new one-year subscription to Valley Farmer. Send the paper and the Sugar Shell and Butter Knife to the address given below.

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

**6 Beautiful Narcissus Silver Tablespoons FREE**

To Match Our Teaspoons  
**Extra Special 20-Day Offer**  
To Mail and Breeze Readers!

Here is a chance for every housewife who reads the Mail and Breeze to secure absolutely free a set of 6 of our famous Narcissus Silver Plated Table Spoons. During the past 5 years we have given away thousands of sets of these beautiful table spoons, but never before have we been in a position to make such an attractive offer as we are now making to the women folks who read the Mail and Breeze. Owing to our large purchases we have secured a price on these spoons which we believe is about one-fourth the price any local dealer would ask for the same grade of goods. We have searched through the silver plate markets of the world and have never been able to find, at anything near the same cost, goods of such remarkable wearing qualities and of such beautiful design as this justly famous Narcissus set.

**Full Standard Length and Weight**

These are not small sized dessert spoons which are usually offered as premiums. These spoons are all full standard table spoon size, 8 1/4 inches long—handle 5 1/4 inches long, bowl 3 inches long and 1 1/4 inches wide. They are silver plated and handsomely engraved and embossed in the beautiful Narcissus design, same as the Narcissus teaspoons which we have been giving away for more than two years. Bowl is highly polished and the handle finished in the popular French gray style. The Narcissus design extends the full length of the handle on both sides. The gray finish of the handle contrasts with the bright polished bowl and produces an effect that is decidedly pleasing. We could send you hundreds of enthusiastic letters from those of our readers who have received these spoons on other offers we have made in the past. We know they will please you, too—and if they don't you can send them back within 5 days and we will cheerfully refund every penny of your money.

**Here Is Our Offer:**

For the next 20 days, or as long as our supply lasts, we will give one set of 6 Narcissus Table Spoons free and postpaid to all who fill out the coupon printed below and send \$2 to pay for a three-year new, renewal or extension subscription to Farmers Mail and Breeze. We will send one set free and postpaid for three one-year subscriptions to the Mail and Breeze at our regular rate of \$1 per year. One of these subscriptions may be your own renewal, but the other two must be new subscriptions. If you want to be sure of securing one of these beautiful sets before our offer is withdrawn clip out the coupon and send it in today. Address

**FARMERS MAIL AND BREEZE, TOPEKA, KANSAS.**

**Use This Coupon Now!**

Publisher Mail and Breeze, Topeka, Kansas. I am enclosing herewith \$2 to pay in advance for a three-year subscription to Farmers Mail and Breeze. You are to send me as a free premium, postpaid, one set of 6 full size Narcissus Silver Plated Table Spoons. This is a (new) (renewal) (extension) subscription.

Name.....  
Address.....  
(If you send 3 one-year subscriptions use a separate sheet of paper for the 3 names.)

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S. C. WHITE LEGHORNS CHEAP. MAUD Stiles, Crestline, Kan.

35 CHOICE COLUMBIAN WYANDOTTE chicks. J. J. Pauls, Hillsboro, Kan.

FAWN RUNNER DUCKS \$1. \$10 DOZEN. Mrs. Wm. Winslow, Ness City, Kan.

BARRED ROCKS, EXTRA GOOD QUALITY. Chas. Koepsel, White City, Kan.

BANTAM BARGAINS. GOLDEN SEABRIGHTS. Glen Bidleman, Kinsley, Kan.

THOROUGHbred BRONZE TURKEYS; must sell. E. Bidleman, Kinsley, Kan.

PURE WHITE INDIAN RUNNER DRAKES \$1.00. Chas. McFadden, Morland, Kan.

GOOD WHITE ROCK COCKERELS \$2.00. Esther C. Miller, Bennington, Kan., R. 1.

PARTRIDGE ROCKS—12 PULLETS FOR sale. William A. Hess, Humboldt, Kansas.

BARRED ROCK COCKERELS \$1.00 AND \$1.50 each. Mrs. R. S. Fish, Waverly, Kan.

S. C. W. LEGHORN COCKERELS; PEN stock; \$1.00. Chas. McFadden, Morland, Kan.

PURE BRED SINGLE COMB WHITE LEGhorn cockerels. Aug. Schwertfeger, Iuka, Kan.

ROSE COMB BROWN LEGHORNS, COCKERELS \$1.00 each. W. Giroux, Concordia, Kan.

SILVER WYANDOTTES—NICE COCKERELS \$1 each. Mrs. J. W. Gause, Emporia, Kan.

BUFF ROCKS—A FEW HENS AND MALES to spare. William A. Hess, Humboldt, Kan.

FINE WHITE LEGHORN COCKERELS reasonable. Mrs. Marvin Downen, Fontana, Kan.

WHITE ORPINGTON COCKERELS FOR sale. \$1.50 and \$2.00. L. S. Dack, Andover, Kan.

FAWN AND WHITE RUNNER DUCKS—Good stock. \$1.25 each. Mrs. Jake Ayers, Sabetha, Kan.

TURKEYS, CHICKENS, GUINEAS WANTED. Coops loaned free. The Copes, Topeka, Kansas.

FOR SALE—WHITE ORPINGTON BREEDERS and young stock. Mrs. J. C. Vincent, Jamestown, Kan.

FOR SALE—ABOUT 100 PURE BRED White Plymouth Rock hens. Lock Box 7, Kincaid, Kan.

LARGE, DARK ROSE COMB REDS, COCKERELS, pullets. Bargains. Sunnyside Farm, Havensville, Kan.

PURE BRED ROSE COMB R. I. RED COCKERELS \$1.00. 6 for \$5. Mrs. W. A. Thompson, Logan, Kan., R. 2.

PURE BRED R. AND S. C. BROWN LEGHORNS; cockerels 60 cts. each. Josephine Reed, Oak Hill, Kansas.

BUFF PLY. ROCKS, FOUR GOOD BREEDING pullets and one cockerel \$7.00. W. F. Alden, Ellsworth, Kan.

FINE WHITE ORPINGTON COCKERELS \$5. Imported Carey stock. Mrs. Helen Lill, Mt. Hope, Kan.

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

PURE BARRON STRAIN ENGLISH S. C. White Leghorn cockerels \$1.50 and \$2.00. C. C. Shenkel, Geneseo, Kan.

UNTIL NOV. 15TH, GOOD BLACK LANGSHAN cocks and cks., \$1 and up. Mrs. Geo. W. King, Solomon, Kan.

CHOICE ENGLISH PENCILED INDIAN Runner ducks. Special price on trios. Mrs. H. O. Mott, White City, Kan.

WHITE WYANDOTTES—FANCY COCKERELS from the best blood in the state. \$1.50. L. B. Pixley, Wamego, Kan.

S. C. BROWN LEGHORN COCKERELS. Pure bred. Fine color. Satisfaction guaranteed. A. B. Haug, Centralia, Kan.

PURE BRED S. C. BROWN LEGHORN cockerels \$1.00 each or 3 for \$2.25. Mrs. F. A. Bingham, Blue Mound, Kansas.

VIGOROUS BARRON-FRANTZ WHITE Leghorn cockerels. March hatch \$1.50. May hatch \$1.00. Violet Hunt, Coffeyville, Kan.

SINGLE COMB RHODE ISLAND RED cockerels for sale. Extra good. One dollar to five dollars. A. R. Hacker, St. John, Kan.

BLACK LANGSHANS \$1.50 and \$2.00 EACH and Buff and Partridge Cochins Bantams \$2.00 and \$2.50 per pair. R. C. Krum, Stafford, 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.

FINE PURE BRED SINGLE COMB WHITE Leghorn cockerels one dollar. John Bradley, Garnett, Kan.

ANCONA COCKERELS, DARK, WON FOUR premiums at 1915 state fair. \$1, \$1.50, \$2.00. Mrs. J. B. Owens, Lingerlonger Farm, Weaubleau, Mo.

THOROUGHbred ROSE COMB RED COCKERELS \$1.50 each. Cocks \$1.00. From excellent laying stock. Mrs. C. B. Johnson, Garrison, Kansas.

PARTRIDGE WYANDOTTE SPECIALIST. Cockerels and pullets, farm raised, \$2.00 each, three for \$5.00. Circular free. Oscar Huston, La Junta, Colo.

PURE BARRED ROCK COCKERELS. Early hatched, large and vigorous. Farm raised. \$1.50 each. Mrs. H. Buchanan, Abilene, Kan., Dickinson Co.

ROSE COMB REDS—DARK, RICH, EVEN colored birds. Will sell for one-half what you will have to pay in the spring. Mrs. Chas. Hill, Toronto, Kansas.

FOR SALE—THOROUGHbred WHITE Wyandotte roosters. Rose Comb. Tomemaker strain. 75c each. Mrs. Don E. Barry, Smith Center, Kan., Route 5.

BARRED AND WHITE PLYMOUTH ROCK and White Orpington cockerels. Runner ducks, Fawn and White, and White. Half price. T. L. Byler, R. 3, Newton, Kan.

## LIVE STOCK

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5 SHORTHORN BULL CALVES FOR SALE. James Bottom, Onaga, Kansas.

PURE BRED JERSEY CATTLE FOR SALE. Ideal Stock Farm, Concordia, Kan.

FOR SALE—HIGH GRADE HOLSTEIN calves. John Bradley, Garnett, Kan.

FOR SALE—25 14-16 GALLOWAY HEIFERS, 1 and 2 yr. old. J. M. Hiltz, Crisfield, Kan.

FOR SALE—16 TWO YRS. OLD STEERS. Price 7 cents a pound. Mostly reds. W. H. Davidson, Quenemo, Kan.

REGISTERED HOLSTEIN BULL CALVES for sale; one ready for service. G. H. Ross, Independence, Kan., R. 1.

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

FOR SALE, OR WOULD TRADE FOR other livestock—2 young jacks, 4 Jennets, 1 Percheron stallion. A. Atkins, Valley Falls, Kan.

8 SHROPSHIRE BUCKS, GOOD ONES, well wooded, eligible to registry. Yearlings \$10. 2 year olds \$12. W. D. Jones, New Sharon, Iowa.

FOR SALE—UP-TO-DATE POLAND CHINA pigs, either sex, and a few outstanding spring boars, and another fine litter of White English bull terrier pups, the best stable and watch dog on earth. Prices and quality will please you. C. D. Close, Gorham, Kan.

## SEEDS AND NURSERIES

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STRAWBERRY PLANTS \$2.00 PER 1000. List free. J. Sterling & Sons, Judsonia, Ark.

WINTER BARLEY, 75c PER BUSHEL. Only money orders accepted. C. Simpson, Manitou, Okla.

20 APPLE OR 20 PEACH \$1. CHERRY, plum and berries. Waverly Nurseries, Waverly, Kan.

NEW CROP SUDAN GRASS SEED AT 10 cts. per lb. in 100 lots. W. J. Duncan, Lubbock, Texas.

DWARF HEGARI BEATS KAFFIR, MAIZE or feretira. 10 pounds \$1. Charlie Clemmons, Verdun, Okla.

MILLIONS STRAWBERRY PLANTS, thousands rhubarb roots cheap. Southwestern Seed Co., Dept. C. Fayetteville, Ark.

TREES AT WHOLESALE PRICES FOR fall planting. Ground never in better condition than this year. Buy direct. Save agents' commissions. Fruit book free. Address Wichita Nursery, Box B, Wichita, Kansas.

## LANDS

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CALIFORNIA FARMS FOR SALE. WRITE for list. E. R. Walte, Shawnee, Okla.

FARM NEAR LARNED SUITED FOR dairying. Frank Dodge, Larned, Kan., Route 2.

WANT A HOME? FINE 320 ACRE HOMEstead relinquishment for sale. Box 5, Goodland, Kansas.

FARMS AND RANCHES \$4.50 UP. STOCK, dairying and farming. Corn, maize, kafir, sorghum, wheat, etc., raised. Good climate, schools and churches. Write for particulars. Amistad Realty Co., Amistad, Union Co., N. Mexico.

80 ACRE KANSAS FARM, 25 MILES FROM Kansas City. Address P. Hindman, 2618 E. 30th, Kansas City, Mo.

RICHEST VALLEY IN U. S. 7 SUGAR factories. Alfalfa. Stock. 5 acres up. Keen Bros., Pueblo, Colo.

FOR SALE—CHEYENNE COUNTY QUARTER \$1800; have had offer \$3200. Write Lock Box 17, Potter, Kansas.

320 ACRE FARM, FOUR MILES TO STATION. Improvements cost six thousand. Price \$12,800. Fred A. Reed, Salina, Kan.

100 ACRE FARM IN ARKANSAS; GOOD creek; good fruit and poultry farm. Write for particulars. P. Cairns, Cove, Arkansas.

160 A. 2 MILES FROM ESKRIDGE, KAN. Well improved, in good shape, fine location. \$60 per acre. R. Reynolds, Eskridge, Kan.

DICKINSON COUNTY BARGAIN. 160 A. Joining town. 40 pasture, bal. bottom land. Well improved. A snap. Robert Hassler, Enterprise, Kan.

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

640 A., 4 1/2 MI. OF CO. SEAT. 12,000 BU. of grain this year. 270 a. in wheat. For sale reasonable. No trade. Geo. Shriwise, Jetmore, Kan.

320 ACRE FREE HOMESTEADS; GOOD land, shallow water, home markets. Free coal and timber. Near railroad. Quinton Fox, Gillette, Wyoming.

FOR SALE OR TRADE—110 A. ALFALFA, silo, good barn and house, well watered, school on farm, close to trading point. Wm. Davis, R. 4, Carbondale, Kan.

FOR SALE—FARM OF 160 ACRES, CREEK bottom, well improved; wish to sell to settle estate. For full particulars address Wm. or John Finley, Concordia, Kan.

FREE 320 ACRE COLORADO HOMEsteads almost gone. Last chance for free farms. Fine water. Rich loam soil. Write Smoke & Ray, Box 595, Pueblo, Colorado.

FOR SALE OR EXCHANGE—CLEAR 80 A. in Laramie Valley, 1/2 mi. of R. R. station, 8 mi. of Laramie City, Wyo. Level, subirrigated. Progressive Realty Co., Greeley, Colo.

HOMESTEAD LAND, BONANZA VALLEY, Colorado. Hay and wheat land, close to timber, mild winters. Send stamp. Colorado Homestead Co., 1624 Curtis St., Denver, Colo.

160 ACRES, 5 MILES OF PARSONS, RICH valley land. 140 cultivation. 75 acres in wheat, 5 room house, good barn, fine water. \$68 acre. Terms. Owner, P. O. Box 32, Parsons, Kan.

160—ALFALFA, DAIRY—FRUIT AND truck farm; mile from school or church. Fenced and cross fenced. Permanent improvements. Close market. Rural Carrier No. 2, Little River, Kan.

JEWELL CO. QUARTER—85 A. PLOWED, 20 a. alfalfa, balance pasture and timber. 8 room house, barn, corn crib and granaries. Plenty of water. A good farm. Price \$80 per acre. W. Guy Gillett, Otego, Kan.

115 ACRES, WELL IMPROVED FARM. Joining city of Englewood, river bottom alfalfa land, private irrigation, easy walking distance to school, church and business center, for sale. Address M. L. Dickson, owner, Englewood, Kan.

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.

FOR SALE—80 ACRES 1 MILE FROM State Agricultural college, 1/2 mile from town. Excellent home for old couple retiring, for small dairy or to send children to college. Part alfalfa land. Improved. \$4,500.00. Terms. C. H. Thompson, Stillwater, Oklahoma.

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.

FARM FOR SALE AT AUCTION: FINE, well improved 160 acre farm in Jewell county, Kansas, known as the "Hand farm," 3 1/2 miles due south of Superior, Nebraska, and 2 1/2 miles northwest of Webber, Kansas, will be sold at public auction at 3 p. m., Monday, November 15th, 1915. Fine alfalfa farm with improvements that are insured for \$4,000. Col. Z. S. Branson of Lincoln, Nebraska, auctioneer. For large illustrated sale bills giving complete description and pictures of farm write Dan J. Fry, owner, Iola, Kansas.

FARMS ON 14 YEARS' TIME, ONLY \$15 an acre. Rich black valley farms, Duval county, Texas, only \$1 an acre cash, balance fourteen yearly payments. No better land anywhere for raising big money crops; finest climate in U. S. Splendid for dairying and live stock; good water; practically twelve months growing season. Will produce excellent crops of alfalfa, corn, forage, such as sorghum. Sudan grass, as well as cotton and all vegetables including potatoes (two crops) and the semi-tropical fruits such as oranges, California grapes, figs. Only a few of these farms for sale. 40, 80 acres and up. Remarkable opportunity for renters and those who want farm homes. Prompt action necessary. Write today for free book describing country, with maps, plats, etc. A postal card will do. C. W. Hahl Company, Inc., owners, 440 Commercial Bank Bldg., Houston, Texas.

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FOR SALE—HEDGE POSTS; CARLOTS. H. W. Porth, Winfield, Kan.

FOR SALE—GREY-HOUND PUPS. \$2.50 each. Claude Bachus, Leroy, Kan.

LONG GREEN LEAF TOBACCO TO CHEW or smoke, 20 and 25 cents per pound. 100 pounds delivered. True Cutler, Holt, Mo.

8 H. P. PORTABLE INTERNATIONAL engine; has magneto and friction clutch pulley. First class condition. Alfred Woodward, Burrton, Kan., R. F. D. 3.

FOR SALE—WOLF HOUND PUPS 6 MO. old from the best wolf killing dogs in the country. Write for prices. Satisfaction guaranteed. E. C. Gillilan, McPherson, 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.

FOR SALE—A NUMBER OF THREE INCH oak casks with iron hoops and cast iron bases; capacity 140 barrels; in first class condition; price \$20.00 each. Also 5 of 32 barrel capacity, price \$15.00. Ottumwa Cold Storage & Ice Co., Ottumwa, Iowa.

FOR SALE. TELEPHONE SYSTEM. IN town of about 300, in the best wheat country of the state. Earns more than \$3,000.00 a year and getting better every year. \$10,000.00 and invoice of material unused takes it. Here is a chance to take life easy. Do not answer unless you mean business. Emmet Cooper, Lucas, Kansas.

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 6 1/4 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.

FOR SALE OR TRADE—4 ROOM HOUSE, 4 lots, nicely located, in Sylvia, Kan., to trade for western land. Hardware store doing good business. For trade for western land. I have several Reno county farms for sale or trade. Write me your wants. W. T. Miller, Langdon, Kan.

ONE OF THE VERY BEST RESTAURANTS in Kansas. Only two restaurants in town forty-five hundred. Pay roll seventy thousand per month. Fine equipment. Doing good business. One thousand dollars. Time given to right party. Will bear fullest investigation. Write Whan Trading Co., Marysville, Kan.

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FIRST CLASS GROCERY AND MEAT market for sale \$3500. Would consider small farm in exchange. Have poor health. Must sell. J. A. Powell, 10th and Quindaro, Kansas City, Kansas.

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

WANTED TO HEAR FROM OWNER OF farm or fruit ranch for sale. O. O. Mattson, 72 Andrus Bldg., Minneapolis, Minn.

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

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.

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

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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.

FOR SALE—1 15-HORSE PORTABLE Witte gasoline engine. 1 No. 8 Bowser feed mill. 1 two hole corn sheller. All in good shape. Will sell cheap or trade for live stock. A. H. McConnell, Cherryvale, Kan.



HELP WANTED

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BE A DETECTIVE. EARN \$150 TO \$200 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

U. S. GOVERNMENT WANTS CLERKS. Men—women 18 or over. \$70.00 month. Vacations. List of positions now obtainable free. Write immediately. Franklin Institute, Dept. D 51, Rochester, N. Y.

WANTED FARMERS—MEN AND WOMEN everywhere. U. S. government jobs. \$75 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. D 51, Rochester, N. Y.

MALE HELP WANTED

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GOVERNMENT FARMERS WANTED. \$60 to \$125 monthly. Free living quarters. Write Ozment, 38F, St. Louis.

MOLER BARBER COLLEGE. MEN WANTED. Special fall rates. Write for free catalogue. 514 Main St., Kansas City, Mo.

SALESMEN WANTED FOR FRUIT AND ornamental trees. Experience unnecessary. Outfit free. Pay weekly. The Lawrence Nurseries, Lawrence, Kan.

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

WE GUARANTEE YOU A GOOD POSITION paying from \$15 to \$25 per week by taking a course in Stuhl's Institute of Watchmaking and Engraving. 207 Altman Bldg., Kansas City, Mo.

MOTORMEN—CONDUCTORS: \$80 MONTHLY. Interurbans everywhere. Experience unnecessary; qualify now, state age. Booklet free. Electric Dept., 812 Syndicate Trust, St. Louis, Mo.

SALESMEN FOR HIGH-CLASS TOBACCO factory; experience unnecessary. Good pay and promotion for steady workers. Complete instructions sent you. Piedmont Tobacco Co., Box P-36, Danville, Va.

FIREMEN AND BRAKEMEN: \$100 MONTHLY. Experience unnecessary. Hundreds needed by the best railroads everywhere. Particulars free. 796 Railway Bureau, East St. Louis, Ill.

I WANT A MAN IN EVERY COUNTY TO handle real estate sales for me. No capital or experience required. If you want to make some good money during spare time, write me. Downing, 173 Palace Bldg., Minneapolis, Minn.

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FOR SALE. NEW HONEY. SAMPLE AND prices on application. Glen C. Voorhes, Tranquillity, Calif.

LIGHT AMBER EXTRACTED HONEY. 2-60 pound cans \$8.40. Broken combs 2-56 pound cans \$10.64. V. N. Hopper, Las Cruces, N. Mex.

HONEY—FANCY WHITE EXTRACTED. 2 60-lb. cans \$11.00. Light amber \$10.00. Amber \$8.50. Single cans 25 cents extra. Bert W. Hopper, Rocky Ford, Colo.

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FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine "Investing For Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real earning power of money and shows how anyone, no matter how poor, can acquire riches. Investing For Profit is the only progressive financial journal published. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 425-28 W. Jackson Blvd., Chicago.

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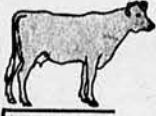
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WRITE FOR LIST OF PATENT BUYERS who wish to purchase patents and what to invent with list of inventions wanted. \$1,000,000 in prizes offered for inventions. Send sketch for free opinion as to patentability. Write for our Four Guide Books sent free upon request. Patents advertised free. We assist inventors to sell their inventions. Victor J. Evans & Co., 825 Ninth, Washington, D. C.

Two Towns Nearly Wiped Out

Two Kansas towns were nearly swept off the map last month. Rantoul, a small town in Franklin county, awoke in the middle of the night September 19-20, to find itself burning. Practically the entire business section of the town was destroyed. The property loss amounted to about \$17,000. A gas light left burning is believed to have caused the fire.

A similar fire occurred at Edna, in Labette county, August 30. The damage there was estimated at \$16,000. The cause is unknown. After the fire the business men of Edna petitioned the state fire marshal to come down and condemn all remaining buildings that were likely to cause a recurrence of the disaster. Unfortunately, the fire marshal was powerless, as the Kansas law does not authorize him to condemn and remove buildings, though they constitute never so great a fire hazard.



Ship Us Your Stock That You Want to Market

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 free upon request. See that your stock is billed to us.

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

CONSIGN US YOUR HAY

and get top prices and quick returns. We will mail you check the day your car arrives. We are handling hay from hundreds of satisfied farmers and want to handle yours. Write us for weekly market letter. Bill to Dougan Hay Co., Kansas City, Mo., and mail us Bill of Lading. References: Commercial Agencies and Interstate National Bank. Dougan Hay Co. 609 Live Stock Ex., Kansas City, Mo.

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.

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.

TANNING

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.

TANNING. WE TAN HIDES AND FURS, making robes, coats and all kinds fur garments from skins you send us, or furnish them ready-made. Reasonable prices, guaranteed work. Send for magnificent illus. catalogue, giving prices for all kinds of work, and fur garments ready-made. Raw furs and hides bought. Ohsman & Sons Co., Box 748, Cedar Rapids, Iowa.

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.

WANTED—WHITE ESQUIMO-SPITZ PUPPIES about six weeks old. Brockway's Kennels, Baldwin, Kan.

WANTED TO BUY—A NO. 1 COON, skunk and opossum hound. Must be a good one. What have you? Address P. C. X., care Mail and Breeze.

A RESPECTABLE YOUNG MAN, AGE 19, wants place on a large mixed or stock farm where he can learn the business. Has had some experience. Geo. Gilman, 1172 Woodward Ave., Topeka, Kan.

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 plings. McKee Lumber Co. of Kansas, Emporia, Kansas.

NAMES WANTED—BOYS AND GIRLS ON rural routes, send 20 names and addresses of farmers in your vicinity, stating about how many hogs each has, and we will send you a fine premium absolutely free postpaid. Carl Armstrong, Shenandoah, Iowa.

BIG WESTERN WEEKLY SIX MONTHS 10 cents. Biggest and best general home and news weekly published in the West. Interesting and instructive departments for young and old. Special offer, six months' trial subscription—twenty-six big issues—10 cents. Address Capper's Weekly, Dept. W. A.-12, Topeka, Kan.

In One Day—45,149 Cattle

Large Receipts Caused Temporary Decline in Prices—Hogs Went Down 10 Cents More Last Week

MANY new records were made at the Kansas City stock yards last week. Monday's receipts were 45,149 cattle and calves. The largest previous receipts in one day were 40,309 cattle and calves, August 25, 1913. On Wednesday 15,400 stockers and feeders were shipped to country points and for the week more than 50,000, two records that surpass those of all other markets and exceed the local records by about 3,000 in each case. The only new price record made was \$8.95 for range lambs, and previous to this year this is a high record price for October by 60 cents.

Monday's big run caused a decline of 15 to 25 cents on all but the best corn fat steers and stockers. Later in the week practically the entire loss was regained and the market closed firm. Commission men say that unless receipts are unusually heavy early next week prices will show a substantial advance, as killers are finding beef steers rather scarce and the feed situation throughout the country is demanding a large number of thin cattle. The top price for steers, \$10.25, was paid for eighteen head weighing 1,607 pounds, and one steer \$11, weighing 1,571 pounds. Few steers sold above \$9 and the bulk of the steers which were from the ranges brought \$6.75 to \$7.75, a few at \$8 to \$8.50. Light weight Panhandle stockers sold up to \$8.50, and some 1,350-pound feeders, fed, brought \$9, though \$6.75 to \$7.50 took the bulk of thin cattle.

Hog Prices Go Down.

With moderate supplies of hogs last week prices advanced 10 cents in the first two days; in the next two days they dropped 20 to 25 cents to a new low level for the month, and in the next two days 10 to 15 cents of that decline was recovered, the market closing about 10 cents net lower for the week. Packers gave plenty of evidence that they want to reduce prices still more, but they have been blocked temporarily by the large shipping demand. Shippers this week took about 20,000 hogs. Though more than 20 carloads of hogs came from Montana and Idaho, receipts of hogs here last week were 26 per cent short of the preceding week and 35 per cent less than a year ago. The five Western markets received 20 per cent fewer hogs than the week before and 36 per cent less than a year ago. When range lambs sold up to \$8.95 last week a new record price was made for October. Late r transactions detracted none from the strength of the market and the net advance for the week was 15 to 25 cents. Receipts are diminishing indicating that the big range movement is about over. Fat lambs are quoted at \$8.50 to \$8.95, yearling \$6.25 to \$7, wethers \$6 to \$6.75, ewes \$5.50 to \$6.40 and feeding lambs \$7.75 to \$8.35.

FAT STEERS.

Prime heavy, corn fat.....\$9.85@10.30  
Prime medium weight..... 9.50@10.10  
Good to choice..... 8.40@ 9.40  
Fair to good..... 7.40@ 8.35  
Western steers, choice..... 7.90@ 9.10  
Fair to good..... 6.90@ 7.85  
Common to fair killers..... 6.00@ 6.85  
Prime yearlings..... 8.75@10.00

COWS AND HEIFERS.

Prime.....\$6.00@6.75  
Good to choice..... 5.50@6.00  
Fair to good..... 4.75@5.45  
Cutter cows..... 4.00@4.70  
Canners..... 3.90@4.00  
Prime heifers..... 8.25@9.25  
Fair to choice..... 7.25@8.20  
Common to fair..... 6.00@7.20

QUARANTINE CATTLE.

Steers, grain fed.....\$8.40@8.65  
Steers, meal and cake fed..... 7.25@8.35  
Steers, grass fat..... 5.25@7.25  
Cows and heifers..... 4.00@7.00

FEEDERS AND STOCKERS.

Selected feeders.....\$7.45@8.00  
Good to choice feeders..... 6.85@7.40  
Medium to good feeders..... 6.35@6.80  
Common to fair feeders..... 6.00@6.25  
Selected stockers..... 7.50@8.15  
Medium to good stockers..... 6.75@7.45  
Common to fair stockers..... 5.75@6.70  
Stock cows..... 5.25@6.50  
Stock heifers..... 5.50@7.50  
Stock calves..... 6.00@8.50  
Veal calves..... 6.50@10.25  
Killing bulls..... 4.75@6.50

MOGS.

Choice hogs, over 200 pounds.....\$7.00@7.35  
Choice hogs, over 250 pounds..... 7.00@7.30  
Light hogs, 150 to 200 pounds..... 7.00@7.35  
Pigs..... 5.25@6.95  
Rough to common..... 6.00@6.95  
Bulk of sales..... 7.00@7.30

SHEEP.

Lambs.....\$8.50@8.95  
Yearlings..... 6.25@7.25  
Wethers..... 5.65@6.40  
Ewes..... 5.40@6.15  
Feeding lambs..... 7.65@8.35  
Goats..... 4.25@5.00

Livestock Receipts.

	Last week.	Preceding week.	Year ago.
Cattle—			
Kansas City	75,550	73,800	60,250
Chicago	50,500	45,700	52,700
Five markets	194,600	179,600	157,000
Hogs—			
Kansas City	36,250	52,400	57,150
Chicago	95,000	110,500	134,000
Five markets	196,050	246,000	309,450
Sheep—			
Kansas City	31,250	47,100	45,500
Chicago	63,000	66,500	153,000
Five markets	221,250	236,300	285,600

Louisiana and Texas bought a few cotton mules and two carloads of heavy mules went east. This was the extent of domestic trade, though dealers say there is an increasing inquiry from the South. Buying on war orders was about the same as in previous weeks.

Receipts in the last seven days were 1,830 head, compared with 1,753 in the preceding week and 1,888 a year ago. Drafters, 1,700 pounds up.....\$200@250  
Drafters, fair to good..... 165@195  
Chunks..... 135@175  
Southerners, fair to good..... 75@170  
Mules—  
13.2 to 14.2 hands.....\$100@125  
14.2 to 15.2 hands..... 115@140  
15.2 to 16 hands..... 135@150  
16 to 16.2 hands..... 180@240

More Wheat in Elevators.

Stocks of wheat in Kansas City increased 104,000 bushels making the total 804,000 bushels compared with 8,732,000 bushels a year ago. Movement of wheat to Chicago almost doubled and receipts were 1,360,000 bushels more than shipments. Stocks probably will show an increase. Last Monday they were 978,000 bushels, less than one-fourth the total a year ago. Foreign purchases made public last week aggregated somewhat less than in several weeks previous, but this was not much of a factor, as liberal exports and continued active chartering of grain boats convince traders that only a portion of the current export business is made public. Exports of wheat and flour from the United States and Canada last week, according to Bradstreet's, were 11,607,000 bushels, compared with 11,113,000 bushels in the previous week and 7,004,000 bushels a year ago. Official exports of wheat and flour from the United States in September were 25,813,000 bushels, making the total for three months 57,607,000 bushels, compared with 83,410,000 bushels in the same period a year ago. Exports this month probably will be over 30 million bushels.

New Corn to Market.

The upturn in wheat, together with a moderate foreign demand for the new crop, stimulated enough buying of corn futures to send prices up about 2 cents, but the gain was not fully maintained. Closing quotations were less than a cent higher than the preceding week. Generally fine weather for movement of new corn, which soon will be under way in all sections, was a check on speculative buying. Receipts increased last week. The total receipts at the three Western markets were 1,247 cars, nearly double those of the preceding week, though 5 per cent less than a year ago.

Increased purchases of new corn were made in this country by foreigners last week, though the total was small in comparison with prospective supplies. Scarcity of boats to carry Argentina supplies and excessively high freight rates from that country to Europe are expected to divert some foreign buying to the United States. Exports last week were only 53,000 bushels.

Hard Wheat—No. 2, nominally \$1@1.08; No. 3, 99c@1.07; No. 4, 90c@98c.  
Soft Wheat—No. 2, nominally \$1.15@1.17; No. 3, nominally \$1.03@1.13; No. 4, 84c@1.  
Corn—No. 2 white, nominally 58c@60c; No. 3, nominally 57c@58c; No. 2 yellow, nominally 61c@61 1/2c; No. 3, nominally 60c; No. 2 mixed, 59c; No. 3, 55c; No. 4, 55c.  
Oats—No. 2 white, nominally 36 1/2c@37 1/2c; No. 3, nominally 35 1/2c@36 1/2c; No. 2 mixed, nominally 34c@35c; No. 3, nominally 32c@33c; No. 4, 32c.  
Kafir—No. 3 white, 97c.  
Barley—No. 4, 49c.  
Bran—1 car 87c.  
Shorts—Nominally \$1.05@1.18.  
Corn Chop (city mills)—\$1.18@1.23.  
Rye—No. 2, nominally 92c@93c; No. 3, 91c.

The Kansas City Hay Market.

Total receipts of hay this week were 760 cars, compared with 811 cars last week, and 533 cars a year ago. Quotations follow: Prairie, choice, \$10.50 @11.00; No. 1, \$9.00@10.00; No. 2, \$7.00@9.00; No. 3, \$4.50@6.50. Lowland prairie, \$4.00@5.00. Timothy, No. 1, \$12.00@13.00; No. 2, \$8.50@11.50; No. 3, \$6.50@8.00. Light clover mixed, \$10.00@11.00; No. 1, \$8.50@9.50; No. 2, \$6.50@8.00. Clover, No. 1, \$9.00@10.00; No. 2, \$7.00@8.50. Alfalfa, choice, \$14.50@15.00; No. 1, \$12.00@13.00; standard, \$10.00@12.50; No. 2, \$8.00@9.50; No. 3, \$6.00@7.50. Straw, \$5.00@5.50. Packing hay, \$4.00@4.50.

Butter, Eggs and Poultry.

Eggs—Extras, new white wood cases included, 30c a dozen; firsts, 27c; seconds, 21c.  
Butter—Creamery, extra, 28c a pound; firsts, 26c; seconds, 25c; pound prints, 1c higher; packing stock, 19 1/4c.  
Live Poultry—Broilers, under 2 pounds, 15c@15 1/2c; springs, 2 pounds or over, 12 1/2c@13c; hens, No. 1, 11c@11 1/2c; roosters, young 11c; old 8 1/2c; turkey hens and young toms, 15c; old toms, 13c; ducks, 11 1/2c; geese, 9c.

Make the Most of It.

If your corn crop is large or small and you want to secure maximum value from it in feeding your stock don't compel animals to get it in the ear. The J. S. Bloom Mfg. Co. of Independence, Ia., has an ear corn cutter and crusher capable of handling ear corn either husked or snapped, green, wet or frozen. By mentioning this paper your request for catalog will bring prices and particulars about this machine, also gasoline engines, by return mail.—Advertisement.



# BIG BARGAINS IN REAL ESTATE

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

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**THREE farm bargains.** Write for description. T. J. Ryan, St. Marys, Kansas.

**NEMAH COUNTY, KAN., farms.** Improved. \$40 a. up. E. L. Horth, Centralia, Kan.

**WRITE PAPES, Mulvane, Kan.,** for list of dairy farms near big milk condensary.

**160 A. Hamilton Co. raw grass land, \$4.50 a. No trade.** Walter & Patton, Syracuse, Kan.

**1920 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.

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

**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.

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

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

**FOR SALE, a 100-acre farm** adjoining Larned. This place is suitable for dairy purposes. Address R. N. case, the Farmers Mail and Breeze, Topeka, Kan.

**IMPROVED choice 240 a. 4 ml. Preston, Pratt Co., Kan.** 210 a. wheat, all goes to purchaser. Price \$14,500. \$7,500 cash, no trades. Chas. E. Dye, Preston, Kan.

**BEST BARGAINS on earth.** North Lyon Co. improved corn, alfalfa, and stock farms. \$10 a. up. All sizes. Some trades. For the truth, write E. B. Miller, Admire, Kan.

**IMP. 80, 3 1/2 ml. out, \$3300. A snap.** Decker & Booth, Valley Falls, Kan.

**800 ACRE TRACT NICE WHEAT LAND.** \$4000. 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.

**HALF SECTION fine cultivated wheat land.** Trego Co., Kan. \$5000. Terms. No trades. O. W. Gale, Moulton, Iowa.

**NORTHEAST KAN.** Good improved farms in bluegrass section, \$60 to \$100. Send for list. N. Compton, Valley Falls, Kan.

**120 A. second bottom, well improved.** Nice home. \$4,000; incumbrance \$1600. Oliver Gaines, Owner, Howard, Kansas.

**NICELY IMPROVED 160 a. farm close to Catholic town;** new railroad building. J. H. King, Cawker City, Mitchell Co., Kan.

**LAND \$15 to \$35 an acre;** with corn making 80 bu. to acre; wheat 20 to 40; all other crops good. Send for literature. Buxton & Rutherford, Utica, Ness Co., Kan.

**90 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.

**320 ACRES FOR SALE.** 260 acres wheat, balance pasture; near town and school. For the price and terms write H. M. Snare, Coldwater, Kansas.

**ONE 160 a. creek bottom farm;** 400 acres good hay and pasture land; 320 a. farm close to Reading, Kan. Will sell cheap for cash or take part trade on every place. Theo. Voeste, Olpe, Kan.

**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 E. C. Mayse, Owner, Ashland, Kan.

**160 A. 2 ml. from R. R. town;** 80 a. corn, 10 a. alfalfa, 15 a. hog pasture, bal. pasture and meadow; 6 room house, good barn; well and cistern. Very cheap, if sold soon. \$45.00 per acre. Rosenquist & Renstrom, Osage City, Kan.

**TREGO CO.** 160 acres 8 miles from Ransom, 80 acres in cultivation, 80 acres fine grass; 40 acres more tillable, on main road and telephone line. Don't wait to write, come and see this. Price \$1,500.00. V. E. West, Ransom, Kansas.

**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 ACRES, 5 miles of Ottawa,** every acre nice, smooth, tillable land; 60 acres in fine blue grass, timothy and clover pasture; 14 acres alfalfa; 25 acres timothy and clover meadow, good 1 1/2 story 9 room house good barn, chicken house, hog house, corn crib for 5000 bushels of corn, fenced hog tight. Price \$75 per acre. \$3,000 cash, remainder long time at 8%. Casida & Clark, Ottawa, Kansas.

**FIVE FARM BARGAINS.** Write just what you want. Frank H. Burnett, Benedict, Wilson County, Kansas.

**160 A., 3 1/2 ML. OUT. IMP. FAIR.** 130 cult., 30 grass, good water, fenced. Second bottom. \$10,500. Mfg. \$4,000, 6%. Ed A. Davis, Minneapolis, Kan.

**A FINE FARM HOME.** 240 a. 2 ml. paved str. Coffeyville. 180 a. cult., 75 a. wheat, 9 room house, barn 48x56, garage, etc. Write for details. \$75 per a. Bowman Realty Co., Coffeyville, Kan.

**IMPROVED 80 JOINING THIS CITY.** Valley land; 55 under plow, 25 pasture; fine creek, water and shade. 5 room house; good fencing. A snap at \$5000. Write D. H. Wallingford, Mound Valley, Kan.

**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. Frisell & Ely, Larned, Kansas.

**MUST SELL ALCOY OTHER BUSINESS.** Can't look after alfalfa and crops. 160 acres, good land, good location, good roads, close to town, R. F. D., and telephone. How much can you pay down and what time do you want on the remainder? Write Arthur Rich, Fredonia, Kansas.

**2-Rare Bargains-2** Choice level 160 a. farm, \$4 a. cash. Also well imp. alfalfa farm 168 a. Perfect title. Immediate possession, \$50 a. Terms. Western Real Estate Exchange Co., Syracuse, Ks.

**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.

**LANE CO.** If you want to buy a farm or ranch, in the coming wheat, corn and stock county of the West, write me as we have bargains from \$8.00 to \$25 per acre. Both improved and unimproved. Let me know what size farm you want and how much you want to pay on the same. W. V. Young, Dighton, Kansas.

**FOR SALE 80 a. W 1/2 of NW 1/4 of 2-30-26 in Ness Co., Kan.** Only \$500; easy terms for quick sale. H. F. Faris, Clinton, Mo.

**Biggest Ranch Bargain in Kansas** 5,274 acres, Butler Co. Over 3,000 acres beautiful, level, rich, tillable and all finest blue stem, limestone pasture, one body. Timber and everlasting water. \$21. V. A. Osburn, El Dorado, Kansas.

**ONLY \$700 DOWN** Balance on easy terms, for this 160 acres, all rich, level wheat land; 90 acres cultivated; good well; 4 miles to railroad station. \$20 per acre. One crop will pay for it. The John Landgraf Land Co., Garden City, Kansas.

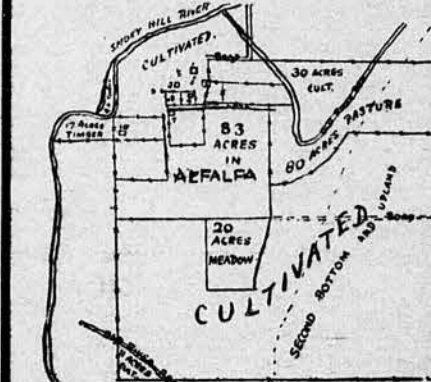
**80 Acres Only \$750** South of Wichita near Wellington; all good upland soil; good bldgs.; fruit; alfalfa; only \$3,000; \$750 cash, \$750 March 1st. E. M. Mills, Schwelter Bldg., Wichita, Kan.

**CHASE COUNTY STOCK RANCH** 640 acres 2 miles from shipping point. 100 acres best creek bottom, 75 acres alfalfa, timber, creek. 540 acres best bluestem pasture, running water, splendid improvements. No overflow, no gumbo, best combination in the county. Price \$25,000.00, liberal terms. J. E. Becock & Son, Cottonwood Falls, Kansas.

**A Few Bargains** 4000 acre ranch for sale, Western Kansas, \$5 per acre. 160 acres, unimproved bottom land Trego Co., \$10 per acre. 160 acres Ellis Co., small improvements, \$1800; good terms. 160 acres Gove Co., \$1700 cash. 160 acres bottom land, improved, 1 mile Ellis, \$60 acre, small payment, long time on balance. 320 acres, improved, near Oakley, 220 acres wheat, 1/2 goes to purchaser, price \$8000. 80 acres, well improved, near Salina, \$8000. Owner will take 1/2 in trade for the above two tracts and give good terms on balance. Want clear residence, suburban home or grocery stock. Write as what you want. Lands bought, sold and exchanged. Western Real Estate Co., Ellis, 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.

## One of the Finest Stock Farms in Central Kansas



**694.68 Acres**

400 acres Smoky River bottom, balance second bottom and upland. 83 acres in alfalfa, 80 acres pasture, balance except feed lots cultivated. 2 1/2 miles from Mentor on McPherson Branch of the Union Pacific. Salina, 10 miles north, population 11,000. No. 1: House 28x28, eight rooms and cellar, 5 years old. No. 2: Barn 48x60 for 24 head. Foundation open at one end making warm hog lot under barn. Floored with 2-inch plank, capacity of loft 80 tons. No. 3: Machine shed and crib 44x44. No. 4: Chicken and hog shed 28x28. No. 5: Stone smoke house 8x8. No. 6: Creamery 12x16. No. 7: Cow shed 22x44. No. 8: Scales. No. 9: Windmill. No. 10: Crib or ware house.

All fenced and cross fenced. Several small hog lots, fences marked -x-x-. The two tracts of 17 acres and 4 acres in bend of river are excellent feed lots with plenty of timber and water. This is the last tract of the Duncan Estate and as the estate must be closed before January first, 1916, we are offering one of the very best general farms to be found in Saline County at Eighty-Seven Dollars per Acre. This is a great bargain for anyone able to handle it.

**J. J. EBERHARDT } Executors, SALINA, KANSAS**  
**W. B. STEVENSON }**



## 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.

**ALFALFA, cotton and corn farms.** Easy terms. S. P. Thompson, Marked Tree, Ark.

**DO YOU WANT to buy, sell or trade land,** houses, mose, anywhere? Owners only, no commission. C. D. Haney, Bentonville, Ark.

**ARKANSAS LAND.** Write us for prices and information about our products. H. H. Houghton & Son, Jonesboro, Arkansas.

**200 A. Impr. Part valley; 60 a. cult., 2 1/2 ml. railroad \$20.00 acre.** Terms. C. L. Kraft, Little Rock, Ark.

**260 ACRES, well located, well improved farm.** Price \$6000; \$1000 cash, terms on balance. P. H. Thompson, Ft. Smith, Ark.

**NEW RAILROAD, new town, cheap lands in** the Ozarks. For information write C. O. Feemster, Immigrant Agent for the Ozark Railway Co., Mountain Home, Ark.

**160 ACRES; 25 cultivated; 45 can be; well** improved; orchard; good timber; well watered; 1/2 ml. school; 1 1/2 ml. railroad. Price \$750. Free list. W. J. Copp, Calico Rock, Ark.

**160 A. black sandy loam, 1/2 in cultivation.** Grow corn, wheat, oats, alfalfa, cotton. \$40 acre. Pike and railroad. Polk Real Estate Co., Little Rock, Ark.

**475 A. STOCK and grain farm, 100 bottom** cultivated, houses, barns; water power. \$10.00, terms. Farm list free. Ward, The Land Man, Mtn. Home, Ark.

**WRITE FOR FREE "WARRANTY DEED"** of farm bargains, improved, \$4.00 per acre and up. New Home Land Co., Opposite Union Station, Little Rock, Ark.

**OZARK COUNTRY HOMES.** The Yellville News & Mining Reporter tells about them. Also of Ark. Zinc Field. Correct information weekly, \$1 a year. Get posted before you come. Address, Yellville, Ark.

**1000 ACRES splendid land, Drew County,** Ark., 5 miles from town; no rocks, wasted land nor overflow. Excellent stock proposition. \$25 per acre. Terms. L. P. Coleman, Little Rock, Ark.

**ARKANSAS-5,000 acres, fine level valley** land; any size tract \$6 to \$12 per acre; third cash, bal. 9 yearly payments. Write for literature. Shaeffer Land Company, 641 Reserve Bank Bldg., Kansas City, Mo.

**180 ACRES; 160 cult, 5 room res. 4 room** tenant house; very rich loam. 6 miles of Jonesboro; rock road, R.F.D., phone. One of the best farms in Arkansas for the money. Price \$40.00 per acre. Terms. Southern Land & Loan Co., Jonesboro, Ark.

**FARMS as low as \$5 and \$10 per acre,** located at the foot hills of the Ozark Mountains, in Independence Co., Ark. Description sent for the asking. Wright Half-acre Real Estate Co., Batesville, Ark.

**320 ACRES WELL IMPROVED.** 6 miles of Clarksville, the county seat of Johnson Co., Ark. All under fence, about all in cultivation, 3 sets houses, barns; 2 fine ever-flowing springs; ideal grass and farming land. Good for stock farm. Price for quick sale, \$4,000. M. S. Park, Clarksville, Ark.

**A REAL BARGAIN in 80 or 160 a. of good** upland in Washington Co., Ark., near Fayetteville. Impr. and under cult.; splendid proposition for fruit, grain or stock. In heart of Ozark region; healthful climate, fine and abundant water; best markets. Will give terms where half is paid in cash. Might consider furniture or hardware stock. Geo. M. Eastham, Olton, Okla.

**WE PAY RAILROAD FARE** To Arkansas special land sale. Sell 40 a. or more. 14,000 a. in tract. Good level land, near large city. Good market, railroad, automobile pike. No rock, no swamps; very healthy. \$10 per a., easy terms. Refund money paid any time during purchase period if dissatisfied, or will loan purchase money 3 years 5% int. for improving land. Bank guarantees fulfillment of contract. Alexander & Son, Little Rock, Ark.

**Arkansas 160 acre farm, 40 a. in** cultivation; bal. in grass. One 4 room house. 1 1/2 ml. from town. Every acre can be cultivated. \$7.50 acre. Clowdis Land Co., Ashdown, Ark.

## WISCONSIN

**30,000 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. Faust Land Co., Cornath, Rusk Co., Wis.

## SOUTH DAKOTA

### South Dakota Farms

produced an average of \$2,362 each for all the state in 1914 and have done better yet in 1915. They offer splendid opportunity for homes and investment. Special excursion rates this fall. For official bulletins address Department of Immigration, Capital Es, Pierre, S. D.



MISSOURI

WRITE J. H. Wright, Marshfield, Missouri, for farm lists of good farms. STOP; LISTEN! 80 a. Impr. farm \$885. Views; other farms. McGrath, Mtn. View, Mo. FOR EXC. 100 a., 1 mi. depot. Well Impr. Mdse. preferred. R.F. Campbell, Lebanon, Mo. BARGAINS in high class farm near Kansas City. Some Exc. L.W. Kircher, Cleveland, Mo. KERAN & 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. 120 ACRES, 3 miles out. Lays fine. Eight room house; large barn; fruit; tame grass for stock and dairy purposes. \$45.00 a. Terms. Baker Inv. Co., Mountain Grove, 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. 160 ACRES, 1 mi. of good R. R. town near Cape Girardeau; well improved. Produces 75 bu. corn, 5 cuttings alfalfa. Best land in U. S. Climate excellent; health good. \$50 per a. Warren L. Mabrey, Jackson, Mo. 5 AND 10 ACRE TRACTS on county road, close to Branson, on Lake Taneycomo, all in cultivation or part timber. Terms to suit. York Development Co., Branson, 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.

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.

TEXAS

POSITIVE PROFITS on the Panhandle plains. The best cheap land proposition on earth. Our bumper crops will prove it. Write at once for descriptive folder. J. N. Johnson Land Co., Dalhart, Tex. TEXAS FARM FOR SALE BY OWNER. Well imp. 300 a. farm in rainbelt one mi. from good town on R. R. \$25.00 per a., third cash, bal. suit purchaser. Excellent crops now on farm. Oil well being drilled in town. J. O. Ehlinger, Owner, Box 1807, Houston, Texas.

MINNESOTA

500 IMPROVED FARMS in the famous Red River Valley, Minnesota, from \$40 to \$100 per a. 10,000 acres of cut-over lands in Pine County, from \$15 to \$25 per acre in tracts to suit, on very easy terms. Crop failure unknown to the oldest inhabitant. Thousands of sturdy homeseekers are pouring into Minnesota. "The land of the golden grain." Call on or write W. J. Westfall Land Co., 740 Plymouth Bldg., Minneapolis, Minn., of the Minnesota Farm Lands Ass'n.

FOR SALE OR EXCHANGE

LANDS TO TRADE for general merchandise. J. M. Denning, Park, Kansas. TRADES EVERYWHERE. Exchange book free. Bersie Agency, El Dorado, Kan. LANDS for sale and exchange for western lands. John Goff, Willow Springs, Mo. FARMS and land to exch. for mdse. or income property. C. L. Kraft, Little Rock, Ark. 240 ACRES all bottom land, well imp., to trade. Youngs Realty Co., Howard, Kan. FOR SALE, rent or exchange; well improved 80. Neodesha 3 mi. John Deer, Neodesha, Kas. 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 nonest trades. Graham Bros., Eldorado, Kan. BIGHAM & OCHILTREE sell and trade best corn, alfalfa, wheat land in U. S. Write for list. 116 N. 8th, St. Joseph, Mo. HEADQUARTERS for best wheat and alfalfa lands in Kansas; will exchange and assume. Jones Land Co., Sylvia, Kansas. FINE ALFALFA, wheat, corn and pasture land for sale or trade, cheap. Write L. S. Hoover, Eureka, Kan. LAND and mdse for sale or exchange. Co-operative Realty Co., Humansville, Mo. IMPROVED and unimproved farms and ranches for sale or trade. Send for list. Bader & Webster, Junction City, Kan. THREE HIGHLY IMPROVED alfalfa and grain farms, eastern Kansas; encumbered one-third value. Want cash or clear property. Nathan Tate, Howard, Kansas. 80 ACRE FARM, Howell county, Missouri, for sale cheap. Farms, city property and merchandise everywhere for sale and exchange. Write us your wants. J. W. Brown, State Savings Trust Co., Springfield, Mo.

OKLAHOMA

OKLA. LANDS. 40 to 500 a. tracts. Write for list. Roberts Realty Co., Nowata, Okla. CHOICE Oklahoma lands at attractive prices. Address C. W. Smith, Kingfisher, Okla. FOR INFORMATION about lands and loans write Jordan Land & Loan Co., Pauls Valley, Oklahoma. F. M. TARTLTON & CO., will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma. FINE GRAZING AND FARM LANDS for sale in Eastern Oklahoma. Write J. L. Shinaberger, McAlester, Oklahoma. 350 ACRES, 200 cult., 150 rough timber pasture, imp. Joins station. Good water. \$27.50 a. C. M. Smith, Crowder, Okla. 40 A. 7 mi. McAlester, 25 a. cult., fenced hog tight. 5 room house, barn, 2 wells, orchard. Corn made 50 bu. per a. \$21 per a. Terms. Southern Realty Co., McAlester, Okla. WE HAVE 40 FARMS TO SELL; 10 a. to 1000 a. Three ranches, cheap land, 1000 to 20,000 acres. Correspondence solicited. Ref. any bank in Pittsburg County. Crowder R. E. Co., Crowder, Okla. CHOICE CORN and alfalfa bottom lands, fine upland farms, also grazing land. Write today for list of Oklahoma Bargains. Major Bros., Chickasha, Okla. BUY NOW from owner, best 650 a. farm (will divide) in Oklahoma, 3 mi. from Vinita. Well improved; strong, level land; 3 sets of buildings. W. M. Mercer, Aurora, Ill. 640 A. wheat and alfalfa farm in Canadian Co., Okla. 4 miles east of El Reno; 500 acres in cultivation, bal. in alfalfa and pasture. Improvements are good. \$65 a.; terms. H. H. Medlen, Box 1064, Muskogee, Okla. GOOD ONES. 160 a. 1/2 mile out; 80 plowed, bal. good pasture; all tillable. Good soil and water; improved. Price only \$3300, with time on \$2000. 158 a. bottom corn land 8 mi. out; 100 plowed, light improvements. Price \$1800. Terms, Free list and map. Perry DeFord, Oakwood, Okla.

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. QUICK PROFITS The big crop, the big war and everything points to another of the booms in land such as have made thousands of men rich. Good land is yet to be had at ten dollars per acre and up in Oklahoma, youngest of the agricultural states. Come and see. Frank Meadows, Hobart, Okla.

NEBRASKA

I HAVE FINE ALFALFA FARMS in tracts from 160 acres to 1000 acres, and best corn and wheat land at prices from \$8 to \$30 per acre. These prices will not last long. Write me today. A. T. Cowings, Benkelman, Neb.

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 16th 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.

Jacks and Jennets. Nov. 15—W. H. Romjue, Atlanta, Mo. Dec. 14—Hineman & Hutchins, Sterling, Kan. Dec. 14—H. T. Hineman, Dighton, Kan., and D. J. Hutchins, Sterling, Kan. (Sale at Sterling, Kan.)

Percheron Horses. Nov. 10—H. L. Harvey, Kincaid, Kan. Dec. 16—J. C. Robison, Towanda, Kan.

Percherons and Other Draft Breeds. Jan. 25, 26, 27, 28—Breeders' Sale Co., Bloomington, Ill.; C. W. Hurt, Mgr., Arrowsmith, Ill.

Shorthorn Cattle. Nov. 9—Park E. Salter, Augusta, Kan. Nov. 30—Levi Eckhardt, Winfield, Kan. Jan. 20—Richard Roenigk, Morganville, Kan., at Clay Center, Kan. Feb. 5—Frank Uhlis, Falls City, Neb. March 23—Ben Lyne, Oak Hill, Kan. Sale at Abilene, Kan.

Holstein Cattle. Nov. 17—J. U. Howe, Wichita, Kan. Nov. 18—Mott & Seaborn, Herington, Kan. Dec. 16—John Weinert, Falls City, Neb.

Aberdeen Angus Cattle. Nov. 11—G. A. Gillespie, Rose, Kan.

Poland China Hogs. Nov. 9—W. R. Webb, Bendena, Kan. Nov. 11—Edward Weiler, Flush, Kan. Nov. 15—W. Z. Baker, Rich Hill, Mo. 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. Jan. 26—W. J. Crow, Webb, Ia. Jan. 26—J. L. Griffiths, Riley, Kan. Jan. 28—E. B. Wait, Blue Mound, Kan. Feb. 1—W. Z. Baker, Rich Hill, Mo. Feb. 2—Frazier Bros., Waco, Neb. Feb. 3—H. J. Beall and Wisel Bros., Roca, Neb. Feb. 4—J. A. Godman, Devon, Kan. Feb. 5—Fred B. Caldwell, Howard, Kan. Feb. 9—C. A. Lewis, Beatrice, Neb. Feb. 10—Wm. McCurdy, Tobias, Neb. Feb. 11—S. A. Nelson & Sons, Malcolm, Neb. Feb. 15—K. S. A. C., Manhattan, Kan. Feb. 16—Ed Sheehy, Hume, Mo. Feb. 16—Herman Groninger & Sons, Bendena, Kan. Feb. 17—H. C. Graner, Lancaster, Kan. Feb. 18—H. B. Walter, Effingham, Kan. Feb. 18—J. H. Harter, Westmoreland, Kan. Feb. 23—F. E. Moore & Sons, Gardner, Kan. Feb. 25—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan. Feb. 27—Ben Anderson, Lawrence, Kan. Feb. 29—E. M. Wade, Burlington, Kan. March 23—Ben Lyne, Oak Hill, Kan., Abilene, Kan.

Duroc-Jersey Hogs. Nov. 17—Lant Brothers, Dennis, Kan. Nov. 17—J. U. Howe, Wichita, Kan. Nov. 17—Mott & Seaborn, Herington, Kan. Nov. 23—R. W. Baldwin, Conway, Kan. Dec. 15—John O. Hunt, Marysville, Kan. Jan. 24—Geo. Briggs & Sons, Clay Center, Neb. Jan. 25—J. C. Boyd, Virginia, Neb. Feb. 2—Martin Kelly, Verdora, Neb. Feb. 4—W. M. Putman, Tecumseh, Neb. Feb. 5—J. H. Proett & Son, Alexandria, Neb.

SOUTH AMERICA.

YOU CAN GET free ranch in South America by assisting in paying expenses to secure million acre concession. Rich soil, fine climate. Highest references. Map 25c. Box 498, Sawtelle, Calif.

COLORADO

FOR SALE: Fruit tracts and irrigated farms in Northern Colorado. Write me what you want. A. H. Goddard, Loveland, Colorado.

BIG rush for homestead relinquishments \$5 acre. Deeded rainbelt lands \$15 up. Irrigated land \$60 up. Town lots \$100 up. Easy terms. Colorado Colony Co., Sterling, Colo.

25 BU. WHEAT LAND from \$5 to \$15 per acre in tracts to suit. Particulars. Pinkham & Davis, Holly, Colorado.

FOR SALE. Sugar beet and winter wheat land, under ditch, close to railroad, in Logan Co., Colo., at \$10 to \$30 per acre. William Tew, Sterling, Colo.

320 A. 10 mi. Yoder; 1/2 mi. school, store and P. O. Adjoining land held at \$25; on line proposed Interurban Ry. Price \$12.50. Horace Meloy, Calhan, Colorado.

175 HEAD well bred two-year-old feeding steers \$8.50 per 100 pounds, weighed at Deer Trail, Colo. 160 acres fine wheat land \$25.00 an acre; 1/4 cash, bal. 3 years 6%. Harry Maher, Deer Trail, Colo.

IDEAL money making Colorado farm 2000 a. Alfalfa, timothy, clover, small grains, corn, potatoes, root crops. Sparkling streams; fine stone buildings. Cement silos, 1 mile to R. R. Cattle, hogs, horses, mules, glorious climate, excellent markets. Description, right price. Keen Bros., Pueblo, Colo.

Feb. 15—K. S. A. C., Manhattan, Kan. Feb. 23—R. W. Baldwin, Conway, 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.

Remember that Park E. Salter's sale of Shorthorns will be held at Augusta, Kan., Tuesday, November 9. Get ready to go.—Advertisement.

A Great Shorthorn Sale.

One of the largest sales of registered Shorthorn cattle which will be held this season is the dispersion of the Levi Eckhardt herd Tuesday, November 30, at Winfield, Kan. Catalogs will be out right soon and Mr Eckhardt wants your name if you are interested in Shorthorn breeding stock. Watch these columns for further information of this big sale and send today for catalog, mentioning Farmers Mail and Breeze.—Advertisement.

Great Sale of Durocs.

J. U. Howe, Wichita, Kan., will sell at auction Wednesday, November 17, the greatest lot of Duroc breeding stock ever sent through a Wichita auction, consisting of 32 head in all, immunized by double treatment, consisting of 20 tried herd sows, 30 spring gilts, most all safe in pig to either Red Hero, by Crimson Wonder IV and out of Red Bird, by Good Effort Again Kings, or Red Count, by the junior champion Select Muncie, by the champion Select Col. These are both show prospects and also sell in the sale. Twenty summer gilts out of these big, brood, tried sows also sell open. If you want good Duroc breeding stock do not lay this paper down until you have turned and read display ad of this issue, then write for a catalog; they are now ready. Write for this catalog today.—Advertisement.

Hineman & Hutchins Sell Jacks.

H. T. Hineman, Dighton, Kan., and D. J. Hutchins, Sterling, Kan., hold their jack and jennet sale at the Hutchins barn, Sterling, Kan., December 14. These two jack breeders have made wonderful progress in the last few years and with their winning at the Panama-Pacific Exposition at San Francisco, not only of grand championship on the great Jack, Kansas King, but a long line of ribbons throughout the various classes, have put the eyes of the jack world on Kansas. Think of it; "Mammoth Kentucky" and "Missouri mule" all taking a back seat and Kansas breaking into the limelight at one of the greatest jack and jennet shows ever held and not only showing Missouri, but the whole world that Kansas is now in the lead when it comes to jacks. This great sale of jacks and jennets will be in keeping with the honors won at the Pan American Fair. Write for catalog early, mentioning Farmers Mail and Breeze.—Advertisement.

Red and All Reds.

R. W. Baldwin of Conway, Kan., has about 90 Duroc-Jersey spring gilts that he will breed to his herd boars Model Top Again and Red Wonder Again and sell for \$25 each. Model Top Again is a bright cherry red and is good enough to win third at Hutchinson and Topeka and to be highly complimented by the Judge. Mr. Baldwin also has 63 sows and yearling gilts which he is breeding for spring farrow. He raises lots of hogs and sells them at live and let live prices. His customers come from a wide range of territory and are all pleased with the pigs he ships out. The following extracts the taken from letters from recent customers. "Edna, Kan., Oct. 11, 1915. R. W. Baldwin, Conway, Kan. Dear Sir—The pig was received in good condition and pleased with the same. Yours truly, J. A. Torbert." "Norcat, Kan., Oct. 18, R. W. Baldwin, Conway, Kan. Dear Sir—I received the boar pig and am pleased with him. Yours truly, Fred Redtpeid."—Advertisement.

Erhart Sells at Hutchinson.

Those who have noted the progress and winnings made at the leading shows of the Southwest by the large type Poland China herd of swine owned by A. J. Erhart & Sons, Ness City, Kan., will be interested to learn that they have decided to hold a bred sow sale at Hutchinson, Kan., February 25. Erhart & Sons while located in the western part of Kansas have one of the largest and best herds of strictly large type Poland to be found in the whole Southwest. Their mail order customers have been so numerous the last few years that it has been hard to save enough high class breeding sows and gilts for a great sale such as they have determined to hold this winter. They have many satisfied customers throughout the whole Southwest and for the convenience of their Oklahoma and eastern Kansas customers have decided to hold their sale at the Kansas State Fair grounds at Hutchinson, Kan. They will put in this sale a great lot of the daughters and granddaughters of their champions and a number of their show herd will be included. To those who are looking for the great big, prolific Poland China that has the quality of prize winners and the blood that produces prize winners, we will invite you to watch this paper for further particulars regarding this great event.—Advertisement.

Bowman & Co.'s Hereford Sale Success.

W. I. Bowman & Company's Hereford sale at Ness City, Kan., October 25 and 26, was attended by Hereford breeders and buyers from various sections of Kansas, Missouri, Oklahoma, Colorado, New Mexico and other states were represented. The 113 head of registered Herefords, 48 bulls and 65 cows and heifers, sold for a total of \$24,240, an average of \$214.51. It should be borne in mind that a very large part of this offering consisted of young stock, yearlings and 2-year-old cattle. The bulls averaged \$295.62; the cows and heifers \$154.61. The get of Generous 5th showed him to be a sire of unusual merit and were in strong demand. The three top bulls of the sale went to John A. Edwards of Eureka, Kan., Dudley by Generous 5th, at \$1,500, and another last April's yearling by the same sire at \$800 and a son of College Militant at \$1,225. Two of these bulls were not cataloged and sold as substitutes. No such sale of breeding Herefords ever took place in Kansas. The fact is that nowhere in the entire West is there to be found such a herd of Herefords, numbers and quality considered.



Chapman and Bernard of Tulsa, Okla., and George A. Baker of Folsom, N. M., were consistent bidders and strong buyers through the auction. Other buyers were Tom Percell, Ness City, Kan.; Martin Larson, Lenora, Kan.; Martin Litke, Council Grove, Kan.; R. B. Briggs, Pica, Kan.; John M. Lewis, Larned, Kan.; J. E. Brown, Kanopolis, Kan.; Ed Griffith, Ulica, Kan.; Leo Collins, Harris, Kan.; P. A. Rodgers, Ness City, Kan.; Walter Yost, Kansas City, Mo.; H. G. Collins, Williamsburg, Kan.; H. B. Kline, Holly, Colo.; Lewis H. Galloway, Wakeeney, Kan.; W. A. Grove, Raymond, Kan.; Fred Manville, Ness City, Kan.; A. Hansman, Oakland, Kan.; H. J. Stimpson, Wakeeney, Kan. The sale was conducted by Fred Reppert, assisted by Lefe Burger, Lester Lowe, and the local auctioneers. That Billy Bowman and J. C. Hopper are royal entertainers was the verdict of all present. The Ness City Business Men's association out of respect to these gentlemen entertained the visitors on the evening of the first day's sale at the opera house, where home talent did itself proud making the evening pass pleasantly for the sale crowd present.—Advertisement.

**You Should Attend This Sale.**

We wish to call attention of both breeders and farmers to the Duroc sale of Lant Brothers, Dennis, Kan., Wednesday, November 17. Dennis and the Lant Brothers' farm can be easily reached by interurban car line from either Parsons or Cherryvale, Kan. The offering will consist of 45 head of choice Durocs, 30 spring gilts and 15 spring boars. Lant Brothers have for years been breeding for high arched backs and plenty of scale. They have succeeded as you will note on sale day. They have kept at all times the best blood, adding from time to time, a great herd sow from the best herds of the land. When you see the mothers of the offering it will grow more and more in your favor and besides this good blood and size of their herd sows they have at the head of their herd a number of the best Duroc sires in Kansas, including Ohio Kant Be Beat, Crimson Surprise, Chief of Wonders and last but not least Golden Model Again. You need not go north or east into other states if you want good Durocs that carry the blood of Golden Model. These hogs have been raised on a high and bred and fed strictly for breeding purposes. They are fine and healthy and in splendid breeding condition. Catalogs are now ready, send your name today and if you want the good kind be on hand sale day. Please mention Farmers Mail and Breeze.—Advertisement.

**N. Kansas and S. Nebraska**

BY JOHN W. JOHNSON.

W. R. Webb, Bendena, Kan., has called off his boar and gilt sale of November 9, because of unfavorable conditions. Watch for future announcements.—Advertisement.

W. A. McIntosh, Courtland, Kan., offers some choice fall Poland China boars for sale at attractive prices. He will not hold a bred sow sale and price his choice gilts at private sale either bred or open. Write at once if you want the tops at fair prices.—Advertisement.

H. C. Graner, Lancaster, Kan., offers 30 big, growthy March Poland China boars for sale. He will sell them "first come first served" at \$20 each. You can't beat this opportunity if you want a boar. Mention the Farmers Mail and Breeze when you write.—Advertisement.

J. Q. Hunt, Marysville, Kan., is offering 15 young herd boars for sale and breeders of Duroc-Jersey's everywhere who need a herd boar should write John Hunt about these boars. They will be sold reasonably. Look up his advertisement in this issue of the Farmers Mail and Breeze.—Advertisement.

John Leidy, Robinson, Kan., has called off his Holstein cattle sale which was to have been held at his farm November 11. Some soft corn and the fact that he had 150 tons of alfalfa hay and the further fact that he had engaged his help for the winter decided Mr. Leidy not to hold the sale. A short notice in the Farmers Mail and Breeze announcing the sale brought inquiries from all over Kansas and Oklahoma.—Advertisement.

This is the last call for the big E. R. Morgan dispersion sale of 120 registered Shorthorns at the Morgan farm joining Blue Rapids, Kan., next Monday. Over 90 head in this sale are cows and heifers of breeding age and most of them bred. Many of the most prominent milking strains of Shorthorns are represented in this sale. Come via Manhattan on the Union Pacific or the central branch of the Missouri Pacific.—Advertisement.

Quivera Place Jersey cattle are beginning to attract attention all over the country. Quivera Place is a model little dairy farm joining Herington, Kan., and is the property of E. G. Munsell, who is associated with his father in operating the First National Bank of Herington, Kan. At present Mr. Munsell is offering a very choice young bull ready for service, at an attractive figure. He has cows and heifers and young bulls for sale at all times. Look up his advertisement in this issue of the Farmers Mail and Breeze in the Jersey cattle section.—Advertisement.

**Weiter's Poland China Sale.**

Edward Weiter's Poland China boar and gilt sale is advertised in this issue of the Farmers Mail and Breeze and will be held at his farm 1 1/2 miles northeast of Manhattan and near Flush, Kan. on next Thursday. Flush is about north of St. George, which is a small town on the Union Pacific. Free trolley from that place to the farm and return. Morning and evening trains stop there from both east and west. In this sale Mr. Weiter is selling a choice lot of spring boars and a line of spring gilts that would double any price they are likely to sell for in this sale in a bred sow sale this winter. If you buy from Mr. Weiter you are patronizing one of the squareest young Poland China breeders in the West and buying from a herd that is second to none in the central part of the state. Bids may be sent in care of Mr. Weiter, Flush, Kan. You better arrange to attend this sale.—Advertisement.

**The Weishar Stock Sale.**

J. A. Weishar of Dillon, Kan., held a successful stock sale at his farm near Elmo, Kan., on Wednesday, October 27. As advertised this was one of the largest sales announced in Kansas this fall. The result

of this sale was satisfactory to Mr. Weishar. The large number of stock offered and the age and condition of the offering operated against high averages. While some of the hogs should have brought better prices Mr. Weishar never faltered in bringing the hogs before the auctioneers. In all about 250 hogs were sold, some 50 head of cows, a few horses and colts, some hay and probably 1,500 bushels of corn. The total of the sale was between \$3,000 and \$4,000. The 40 hogs cataloged sold for an average of \$26.26. A feature of this sale that should be mentioned was the magnificent lunch served by the ladies of the Elmo Catholic church. The upper part of the large barn was fitted up for a dining room. The decorations were appropriate and the lunch was ample and especially well prepared. Col. Reppert, Curphey, Burton and Huffman did the selling.—Advertisement.

**Duroc-Jerseys and Herefords.**

Howell Brothers, Herkimer, Kan. (Marshall county), are well known breeders of Duroc-Jersey hogs and Hereford cattle. Their advertisements will be found in the Marshall county breeders' advertising section. They will not hold a fall sale but offer their top boars at private sale at attractive prices. These boars are out of five different sires and out of big mature dams. The boars that sired the offering are Perfect Climax, Revelator, King Sampson, Star Colonel and Illustrator 2d. The dams are of the larger type of Durocs and are by such sires as Model Top, the grand champion and sire of champions; Royal Climax, Wide Awake Lad, Revelator and others. They have for sale a fall yearling boar by Royal Climax that should go to some good herd. He is a splendid individual and of the best of up to date breeding. He will be priced at a moderate price. They have 20 Hereford bulls, many of them ready for service, for sale. Look up their advertisement in the Marshall county breeders' section and write them at once, either about Hereford bulls or Duroc-Jersey boars.—Advertisement.

**Denton's Good Angus Bulls.**

W. C. Denton, Denton, Kan., is starting his advertisement again in the Farmers Mail and Breeze with this issue. He has for sale five choice young bulls from 8 months old to 1 year. Also some females that he will sell bred or open. The writer visited Mr. Denton's herd recently and while it is not one of the largest herds in point

**HOG CHOLERA**

Our FREE BOOKLET explains—  
HOW TO TELL HOG CHOLERA  
WHEN TO USE SERUM ALONE  
WHEN TO USE SERUM AND VIRUS  
HOW AND WHEN TO VACCINATE  
Address: Wichita & Oklahoma Serum Co.,  
Stock Yards, Wichita, Kansas.

**DUROC-JERSEYS.**

**Durocs, Tried Sows** Gilts, bred or open. 10 extra for the boar.  
**A. C. HILL, HOPE, KANSAS.**

**Duroc-Jersey Bargain Prices** 150 spring Wonder and No. 10 sires bred for fall farrow  
**R. T. & W. J. GARRETT, Steele City, Nebraska**

**Crocker's Immune Duroc Boars**

100 Duroc spring boars for sale. Guaranteed immune and shipped on approval. No money down before you get the hog. Prices \$85 to \$95 each.  
**F. C. Crocker, Ft. Riley, Nebraska**

**Registered Percheron Stallions** big frame, lots of bone. Five 2200 pound coming 5 year olds, 13 coming 4's, 33 coming 3's, 17 coming 2's. Well fed and offered at growers' prices. Sound and from sound stock. Grandsons twice International Champion **PINK** and from **BEAIGUE** mares. 20 young registered mares for sale. Just above Kansas City.  
**FRED CHANDLER PERCHERON RANCH, R. 7, CHARITON, IOWA.**



**DUROC-JERSEYS.**

**DUROC HOGS FOR SALE**  
The blood of champions. Entire herd; 2 herd boars, 10 herd sows, young boars, bred gilts, yearling gilts, 20 fall pigs, not related. **BUCKEYE STOCK FARM, OLEAN, MO.**

**Boyd's Big Immune Durocs**  
40 top boars by Crimson Col. and Big Jim. Few extra choice ones by Grand Model Again and out of dam by Golden Model 5th. Reasonable prices. Shipped on approval. Also choice Red Polled bulls.  
**J. C. BOYD, VIEGINIA, (Gage Co.) NEB.**

**Wooddell's Durocs!**  
The best lot of spring boars and gilts we ever offered—Good E Nuff Again King, Graduate Col., and other good blood lines. **G. B. Wooddell, Winfield, Kan.**

**BONNIE VIEW STOCK FARM**  
Spring pigs for sale, sired by Tat-A-Walla, Kant's Model Enough and A Critter; also two registered Holstein bulls, six months old.  
**SEARLE & COTTE, BERRYTON, KANSAS**

**Maplewood Duroc-Jerseys**  
Everything immune. For sale: 15 tried sows to farrow in October. 25 fall gilts bred or open. Big boar and gilt sale Nov. 17. Holstein cattle sale day following. Write for further information.  
**MOTT & SEABORN, HERINGTON, KAN.**

**DUROC JERSEYS!**  
Johnson Workman, Russell, Kan.

**Immuned Durocs!**  
Plenty of spring boars and gilts. Best of breeding. Stock guaranteed.  
**F. J. MOSEB, GOFF, KANSAS**

**Royal Scion Farm Durocs**  
Choice fall and spring boars out of our best tried sows. One yearling boar, 17 in litter. Priced to move.  
**G. C. Norman, Route 10, Winfield, Kan.**

**The Schwab Pure Bred Stock**  
50 Duroc-Jersey boars ready to send out on orders. 25 Duroc sows bred for fall litters. Plenty of open gilts, etc. 6 Red Poll bulls ready for service. Percheron stallions and mares. **Geo. W. Schwab, Clay Center, Neb.**

**16 Young Herd Boars**  
I have 16 very choice March Duroc-Jersey boars at reasonable prices. They are big and smooth. **JOHN O. HUNT, Marysville, Kan.**

**BALDWIN DUROCS**  
Young service boars \$15 each, sired by Bell the Boy, the first prize winner at Kansas State, Tennessee State, and Interstate Fairs in 1914. Gilts \$25, bred to Model Top Again, winner at Hutchinson and Topeka State Fairs this fall. Baby boars of fall farrow \$8, and baby gilts \$12, sired by Bell the Boy. A few gilts for sale to farrow late this fall. All stock immune. Call and see our hog and poultry farm. **Rose Comb Reds, Cockerels \$2. Also some registered Shorthorn Baby Bulls.**  
**R. W. BALDWIN, Conway, Kansas**

**DUROC-JERSEYS.**

**Rice County Herd Durocs**  
FORTY fine fall, winter and spring boars. Sired by Good Knuff's Chief Col., G. M.'s Crimson Wonder, Col. Chief, Oley's Dream, Illustrator II. From excellent dams. 30 days' special price. Write today; describe your wants. **G. M. SHEPHERD, Lyons, Kt.**

**Trumbo's Durocs**  
25 Duroc boars, big, strictly fellows; fashionable blood lines, all immune, \$25 each. Sold on approval. Write today. **Wesley W. Trumbo, Peabody, Kansas.**

**Jones Sells On Approval**  
12 picked Duroc-Jersey March boars. Shipped on approval. Weight 250 pounds, or better. Priced right.  
**W. W. JONES, CLAY CENTER, KAN.**

**Hillcrest Farm Durocs**  
Tried sows and gilts to farrow in Oct. Choice gilts \$25. Boars ready for service \$20. Sows with litters at side at bargain prices. Write for full particulars.  
**DR. E. N. FAENHAM, HOPE, KAN. (Dickinson Co.)**

**BOARS OF SIZE AND QUALITY**  
70 big, stretchy spring boars and gilts of February and March farrow. Sired by the grand champion of three states, Long Wonder; Overland Defender, B. & C.'s Masterpiece, Superba's Climax. From big type dams of Superba, Defender, Tatarrax, Col., and Golden Model blood lines. Also 6 head of fall pigs at \$10 each, pairs \$18, trios \$25. Send at once and get first choice. **JOHN A. REED, LYONS, KANSAS.**

**Elm Valley Farm Durocs**  
Spring boars and gilts by the junior champion Select Muncie and out of big, handsome sows by the three times grand champion, Grand Master Col. II. They are the kind that you can use for herd boars and herd sows. They are the large, stretchy, good boned, handsome headed kind and every animal sold is guaranteed to please, or money refunded. We also have the farmer's kind, and at farmer's prices.  
**J. H. SULLIVAN, Mangum, Oklahoma**

**BANCROFT'S DUROCS**  
Everything on the farm properly immunized. No public sales. For private sale: spring boars; also gilts open or bred to order for spring litters and September pigs, either sex, when weaned. Reasonable prices on first class stock.  
**R. C. BANCROFT, Osborne, Kans. (Shipping Point Downs, Kans.)**

**Duroc-Jersey Sale**

**Ottawa, Kansas**

**Saturday, November 20**

**50**

**Head**

**15 Spring Boars**

**30 Spring Gilts**

**5 Tried Sows**

**50**

**Head**

The spring gilts will be sold open. The tried sows will be bred for spring litters to our herd boar, Tauby Boy 17552, by King of the Pike 114351, by Ward's King 11186; the dam of the herd boar is Lady Perfection 411428, by Col. Protection 123413.

Col. Protection was the sire of nine blue ribbon and champion pigs in the South Dakota State Fair this year. The dams of the offering are by Crimson R 129903, Col. R 140355, Col. Protection 123413 and others.

Sale will be held in pavilion; come rain or shine.

**C. O. Latham, Ottawa, Kansas**

Auctioneers—Rule Brothers. Fieldman—C. H. Hay.



LIVESTOCK AUCTIONEERS.

FLOYD CONDRAY, Stockdale, Kansas. Livestock auctioneer. Write for open dates.

R. L. Harriman, Bunceton, Mo. Selling all kinds of pure bred livestock. Address as above.

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

John D. Snyder AUCTIONEER, successfully sells pure bred live stock, real estate and general sales. HUTCHINSON, KAN.

Rule Bros., H. T. & R. D., Ottawa, Kan. Livestock sales a specialty. Write for dates.

Jas. T. McCulloch, Clay-Center, Kan. The breeder I am selling for every year. Write for open dates.

Learn Auctioneering At World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught in five weeks. Write today for free catalog. JONES NATIONAL SCHOOL OF AUCTIONEERING, Carey M. Jones, Pres., 50 N. Sacramento Blvd., Chicago, Ill.

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages.

Missouri Auction School Largest in the World. W. B. Carpenter, Pres. 818 Walnut St., Kansas City, Mo.

Col. E. Walters Skedee Oklahoma W.B. Carpenter 818 Walnut St. Kansas City, Mo. Sell your farms and city property at auction, as well as your pedigreed livestock. Write either for dates. Also instructors in Missouri Auction School

HORSES.

HOME-BRED PERCHERON, BELGIAN, SHIRE Stallions and mares for sale at \$250 to \$400 each except two. Also Imported Stallions. Frank L. Stream, Creston, Iowa

Jacks and Jennets

14 large, good boned black Jacks coming 8 to 7 years old. If you want a good jack at the right price or a few good Jennets we can deal. Write or call on Philip Walker Moline, Elk County, Kansas

HAMPSHIRE.

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 either sex, Hampshires or Spotted Poland Chinas. Also a three-year-old Hereford herd bull. Address above.

REGISTERED HAMPSHIRE HOGS Bred gilts and nicely belted pigs, priced reasonable. C. I. Buck, Canton, Okla.

REGISTERED HAMPSHIRE 150 gilts and boars, all ages. Cholera immuned. Description guaranteed. C. E. LOWRY, Oxford, Kan.

Shaw's Hampshires 150 registered Hampshires, all ages, nicely belted, best of breeding, all immuned double treatment. Satisfaction guaranteed. Priced to sell. WALTER SHAW, R. 6, Wichita, Kan.

O. I. C. HOGS.

Immuned O.I.C.'s April pigs \$15; July pigs \$20. Booking orders for Sept. pigs from my best sows. A. G. Cook, Lury, Kan.

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.

75 Chester White Spring Boars Chief Select and White Rock breeding. No culls. \$25 each. Also few choice gilts. Inspection invited. AMOS TURNER, WILBER, NEBRASKA, (SALINE CO.)

Smooth Heavy Boned O.I.C.'s Pigs not akin from two months up. Boars not related to gilts and sows. Best of breeding at farmer's prices. Write today for circular. F. J. GREINER, BILLINGS, MO.

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

The Scotties O. I. C.'s WHITE HOGS OF QUALITY The largest pure bred herd of O. I. C.'s in the U.S. and with the greatest show record behind them. Carefully selected breeding stock, either sex, of the highest class, priced right and shipped to you on approval. L. W. & R. H. SCOTT, Nelson, Missouri

POLAND CHINAS.

Wiebe's Immune Polands 25 Boars. 30 Gilts. Ship on approval. Have sold in ten states. G. A. WIEBE, BEATRICE, NEB.

of numbers it is very likely one of the strongest herds in the West from the standpoint of breeding and excellence of individuals. The young bulls that Mr. Denton is now offering are pronounced by him the best he ever raised. Black Birds, Queen Mothers and Old Lady Gean families are represented in the breeding and Mr. Denton's herd is called, by those who know, one of the really top herds of the entire West. Mr. Denton is one of the good, solid farmers and stock raisers of that section of the country and the kind of a man that you will like to deal with. If you want a bull or anything in the Angus line don't hesitate to write W. G. Denton, Denton, Kan.—Advertisement.

Iles Makes Good Sale.

The Robert C. Iles Duroc-Jersey boar and gilt sale held at the Iles farm 1 mile south of Pierce Junction last Friday, was pretty well attended as sales are being attended this fall. The offering was a good one and came in for considerable favorable comment by those who attended. Among the prominent breeders from over the country that attended and were buyers were Martin Kelly, Verdun, Neb.; George Klumire, Holton, Kan.; George Kerr, Sabetha, Kan.; Francis Clowe, Circleville, Kan., and a number of others. The top was \$50, paid by Martin Kelly for a boar by Redeemer out of a Grand Defender dam. He was bred by O. S. Larson, Logan, Ia., Mr. Iles having bought him in dam last winter in the Larson sale. He was a grand good boar and should have brought much more money. The average was in the vicinity of \$30 on the entire offering and was not nearly enough considering the quality of the offering. But it was the first sale to be made by this good young breeder and very satisfactory considering the condition of the hog business at the present time.—Advertisement.

Gronniger's Fall Sale.

Herman Gronniger & Son's annual Poland China boar and gilt sale came off as advertised, last Tuesday. Twenty-eight boars sold for an average of \$30 and 13 gilts sold for an average of \$28. As other sales are going this fall it was not enough. Farmers and breeders in northeastern Kansas have been slow about buying this fall and none of the sales in that section have been as good as they should have been. Among the breeders who attended and bought were H. B. Walter, Effingham, Kan.; H. C. Graner, Lancaster, Kan.; W. R. Webb, Bendena, and a number of others. There was a pretty good attendance of farmers from surrounding territory. All of Mr. Gronniger's neighbors who were not too busy came and everyone appreciated the fine lot of big spring and last fall boars that were offered. C. B. Palmer of Marion, Kan., was represented in the sale and bought several gilts. The top was \$50, paid by L. F. Riley, St. Paul, Neb., for a very choice Tec. Ex. boar of February 26 farrow. He was bought on a mail order bid handled by Col. R. L. Harriman, Col. Harriman, assisted by Col. C. M. Scott and Charles Foster, conducted the sale. The Gronnigers have for sale a fall yearling boar that is right in every respect. You better write them about this boar if you need a herd boar. He is simply good all over.—Advertisement.

Big Two Days' Sale.

The big two days' sale which Mott & Seaborn are making at Herington, Kan., Wednesday and Thursday, November 17 and 18, will be held at Maplewood Stock Farm, about 4 miles south of Herington. The best of railroad facilities are to be had in visiting Herington as it is on the main line of both the Rock Island and Missouri Pacific. Any station agent will tell you it is easy to reach Herington. On Wednesday, November 17, the first day of the big two days' sale, they will sell 100 Duroc-Jerseys, registered and eligible to registry. There will be 20 choice sows with fine litters by their sides, by German's Good Enuff, by Good Enuff Again King, the 1913 champion. There will be 20 fall gilts bred for the last of November farrow and 40 spring and fall gilts sold open. Also 20 picked boars for sale. Also some choice fall pigs will be offered. The breeding and individual merit in this big Duroc-Jersey offering is as good as will be found in any sale to be made this season. Everything has been handled carefully and is in the best of breeding form. You can send bids with full assurance that they will be handled right to J. W. Johnson in their care at Herington. On Thursday, November 18, they will sell at the same place 40 head of Holstein cows and heifers that are either fresh or heavy springers. These cows and heifers are of exceptional value and have been bought and reserved for this herd. Recently they have decided to handle nothing in the future but registered cattle and are making this sale with that end in view. For more than a year Canary Butter Boy King has headed their herd. He is a bull whose value is pretty well established. There will absolutely be no poor cows in this sale as all such cows have been disposed of as soon as they were discovered. These two days' offerings will be found of the highest quality in every particular. The catalogs are ready to mail upon application. Mention the Farmers Mail and Breeze when you ask for one.—Advertisement.

N. Missouri, Iowa and Illinois

BY ED. R. DORSEY.

The greatest jack sale of 1915 will be held by William J. Romjue of Atlanta, Mo., on Monday, November 15. The offering is in every respect strictly first class and it is thought by many to have the greatest number of really high class 3-year-old jacks ever sold in one sale. The offering consists of 25 jacks and 35 jennets. Much of this offering was bred on the Romjue jack farms. Every jack and jennet is standard color except one and he is so good one would forget the color. This will be an opportune time to get what you are looking for if it's the very best you are after. The catalog is ready, send for one now.—Advertisement.

Carver Gets Good Average.

As usual E. E. Carver & Son of Gullford, Mo., presented a splendid offering of Poland Chinas which was appreciated by the visitors and were picked up very fast at an average around \$30. They were all spring pigs, therefore the prices were considered very fair as some of the pigs were farrowed in April and May. Col. W. D. Gibson of King City did the selling; he was assisted by Cois. Klass & Hosmer. Among the prominent buyers were McDowell of Barnard; William Brecker, Maryville; Neck

POLAND CHINAS.

Immune Boarson Approval 10 extra choice Poland China boars at \$25 each on approval. Write W. A. McIntosh, Courtland, Kan.

Spring Boars by King Hadley Large, big-boned, growthy, smooth kind. Must sell quickly. Write J. B. MYERS, GALVA, KANSAS

Sale of Prize Winners NOV. 15, W. Z. BAKER, RICH HILL, MO.

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

Original Big Spotted Polands

BIG BOAR AND GILT SALE NOV. 2. Top March and April boars and gilts reserved for this sale. Fall pigs, both sexes at private sale. ALFRED CARLSON, CLEBURNE, KAN.

Why Buy a Boar From Me?

Because I sell just the tops and my Polands combine size and quality. No Holy Poly's. Neither the rough coated, hard fleshed, slow maturing sort. 25 to select from. Accurate description guaranteed. C. A. LEWIS, BEATRICE, NEBRASKA

BIG TYPE POLAND CHINAS

Big March and April boars priced to move; also a choice fall herd boar. Gilts bred to your order, to a great son of King of Wonders. Fall pigs. Write me. ANDREW KOSAR, DELPHOS, KANSAS

IMMUNE POLAND CHINAS

Some extra fine stretchy boars and gilts, just right for early breeding. Some bred sows and gilts. The best of big type breeding, cholera proof and at farmers prices. We guarantee in every way. ED. SHEEHY, HUME, MISSOURI

BLOUGH'S BIG POLANDS

I am offering a choice lot of big, growthy, heavy boned boars out of 700 and 800 pound sows of the best big type breeding. At most reasonable prices. Everything guaranteed cholera immune for life. JOHN M. BLOUGH, BUSHONG, KANSAS

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. 120 Herefords, 90 spring pigs, and 18 bulls, 11 to 15 months old, for sale. S. W. TILLEY, IRVING, KANSAS

Choice Young Bulls For Sale Sired by 34th 897807 and Real Majestic 373628. Write your wants. J. F. SEDLACEK, BLUE RAPIDS, KANSAS

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

Hereford Bulls One 3-year-old bull; one 14-month-old bull, some spring bulls. B. E. and C. M. GIBSON, BLUE RAPIDS, KAS.

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

Wallace Herefords Inspection invited. Write for prices and descriptions. THOS. WALLACE, BARNES, KAN.

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 rugged. Famed 2 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

WILLOW SPRINGS JERSEY FARM Golden Fern's Lad's Lost Time 25662 at head of herd. Offers a few young bull calves. Joseph Kraay, Waterville, Kas.

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, Kas.

HOLSTEINS Cows and heifers for sale. Registered and grade. Address LACKLAND BROS., AXTELL, KANSAS

POLAND CHINAS.

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, Orange Surprise, Ringold King, etc. Also a few bred sows and 2 good herd boars. Guarantee and pedigree accompanies each order. Manchester Bros., Leon, Iowa.

Original Big Spotted Polands

20 March boars—20 March gilts. Tops of 100 head. 15 fall gilts bred or open. The big litter kind. Address R. H. McCUNE, Longford, (Clay Co.) 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.)

Big Type Polands

Herd headed by the 1,020-pound Big Hadley Jr., grand champion at Hutchinson State Fair, 1915, was also first in class at Topeka and Oklahoma State Fairs. Our herd won more first prizes in the open classes at Oklahoma State Fair than any other Poland China herd. Young stock for sale. A. J. Erhart & Sons, Ness City, Kan.

Immune POLAND CHINA BOARS

30 good big fellows by Long King's Best and A Wonder's Equal at \$30. You can't beat them at this money. Satisfaction guaranteed. H. C. Graner, Lancaster, Kans.

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.

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. 120 Herefords, 90 spring pigs, and 18 bulls, 11 to 15 months old, for sale. S. W. TILLEY, IRVING, KANSAS. Choice Young Bulls For Sale Sired by 34th 897807 and Real Majestic 373628. Write your wants. J. F. SEDLACEK, BLUE RAPIDS, KANSAS. 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. Hereford Bulls One 3-year-old bull; one 14-month-old bull, some spring bulls. B. E. and C. M. GIBSON, BLUE RAPIDS, KAS. 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. Wallace Herefords Inspection invited. Write for prices and descriptions. THOS. WALLACE, BARNES, KAN. 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 rugged. Famed 2 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. WILLOW SPRINGS JERSEY FARM Golden Fern's Lad's Lost Time 25662 at head of herd. Offers a few young bull calves. Joseph Kraay, Waterville, Kas. 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, Kas. HOLSTEINS Cows and heifers for sale. Registered and grade. Address LACKLAND BROS., AXTELL, KANSAS. SHORTHORN CATTLE. For Sale: Two Pure Scotch bulls and a Scotch topped heifer. Farm near Irving, Kansas. On Union Pacific and Central Branch of Missouri Pacific. DR. P. C. McCALL, Irving, Kas. 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 herd boar for sale, March 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 Top boars and gilts priced to sell. Pairs not related. F. B. WEMPE, Frankfort, Kansas. POLAND CHINA HOGS. Albright's Polands For Sale, Jan. 5, 1916. 100 head of Poland China boars and gilts, 12 last fall gilts. 84 March and April boars and gilts. A. L. ALBRIGHT, WATERTVILLE, KAN. Copeland's Private Sale Poland China boars and gilts. March farrow. Also fall gilts, bred or open. N. E. COPELAND, Waterville, Kan. 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 Illustrator, 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. Spring Boars by five different sires. A royal lot of big stretchy fellows and only the tops offered. HOWELL BROS., HERKIMER, KAS. 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.



BERKSHIRES.

**Hazlewood's Berkshires!**  
Yearling gilts, bred. Spring pigs priced for quick sale.  
W. O. HAZLEWOOD, WICHITA, KANSAS

**High-Class Berkshires**  
Winter and spring pigs of either sex and outstanding boars a specialty. Write  
J. T. BAYER, YATES CENTER, KANSAS

**25 March Gilts** Bred or open. 10 yearling and two year old sows, bred to order or open.  
R. J. LINSKOTT, HOLTON, KANSAS

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.

GALLOWAY CATTLE.

**Bulls, Cows, Heifers**  
CAPITAL VIEW GALLOWAYS  
I want to sell 200 head and will make special prices for next twenty days. Breeding same as my show herd.  
G. E. CLARK, 205 W. 21st St., TOPEKA, KANSAS.

ABERDEEN-ANGUS.

**Aberdeen Angus Cattle**  
Herd headed by Louis of View-point 4th. 150624, half brother to the Champion cow of America.  
Johnson Workman, Russell, Kan.

**ANGUS BULLS**  
Five from eight months to one year old. Females for sale, bred or open. Farm joins town. Correspondence and inspection invited.  
W. G. Denton, Denton, Kans.

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 8454.  
Sutton & Porteous, Route 6, Lawrence, Kan.

RED POLLED CATTLE.

**FOSTER'S RED POLLED CATTLE** Write for prices on breeding cattle.  
C. E. FOSTER, R. R. 4, Eldorado, Kansas.

**Pleasant View Stock Farm**  
Red Polled cattle. Choice young bulls and heifers. Prices reasonable. HALLORAN & GAMBRIEL, Ottawa, Kansas

**RED POLLED CATTLE**  
BEST of BLOOD LINES and cattle that will please you. Cows heifers and young bulls, at attractive prices.  
I. W. POULTON, MEDORA, KAN.

**Riley County Breeding Farm**  
75 Red Polls, 45 Percherons  
A choice lot of young bulls for sale. 12 of them by son of Cremo, the 18 times champion. Visitors welcome. Farm near town. Address  
Ed Nickelson, Owner, Leonardville, Kansas

JERSEY CATTLE.

**Jersey Cattle** Bulls and boars for sale.  
Dornwood Farm  
Chester White Hogs Topeka, Kansas

**QUIVERA JERSEYS** Males and females for sale at all times. One bull ready for immediate service. Our cows are paying at the fall. E. G. Munsell, Herington, Kansas

**LINSKOTT JERSEYS**  
First Register of Merit herd in Kansas. Est. 1878. Oaklands Sultan, 1st Register of Merit sire in Kansas, is dead. Last chance to get one of his daughters, \$100. R. J. LINSKOTT, HOLTON, KAN.



The Giant Of The Dairy

**Grade up with a Jersey Bull!**  
He is half the herd, and the breed determines half the profits. Breed him to your grade cows and bring the herd average near the Jersey average—489 pounds of butter fat per year. Your calves will be beauties. They'll mature quickly into gentle, hardy, vigorous and persistent milkers, long-lived and adapted to any climate. Let us tell you more about them. Send for our book, "The Story of The Jersey." It's free and it's a dandy.  
Write for it now.

The American Jersey Cattle Club  
355 West 23rd Street - New York City

Hartman, Barnard; A. B. Hale, Cameron; Irvin Griffin, Guilford; Earnest Workman, Stanberry; Clarence Wells, Stanberry; Russell Rowlett, Maitland; John Gallagher, Maryville; Jess Cayton, Bolckow; George Christian, Barnard; John Roscoe, Barnard; W. L. Wright, Rosendale; C. L. Dakin, Stanberry; William Hinkle, Guilford; Joe Wolford, Clyde; William Turner, Barnard; C. L. Pettigrew, Bolckow; William Brook, Maryville; H. F. Thompson, Guilford; Mike Byergo, Barnard; Charles DaKohn, Stanberry; John Chase, Stanberry; H. E. Nichols, Burlington Junction and J. H. Hackett of Burlington Junction.—Advertisement.

Nebraska

BY JESSE R. JOHNSON.

William McCurdy of Tobias, Neb., authorizes us to announce his big annual Poland China bred sow sale to be held February 10. Mr. McCurdy will have one of the great offerings of the winter. It will be composed almost entirely of females sired by the 1,000-pound boar Maple Grove Orange, first in class at Nebraska State Fair last year and weighing 850 pounds at 18 months old. The offering will be bred to a son of the noted Big Joe and a son of Big Tim. Watch this paper for announcement in due time but file application any time for catalog.—Advertisement.

Amos Turner Writes.

"Have just weighed the 50 boars that I now have to offer and they averaged 190 pounds, weighing from 175 to 245 pounds, March and April pigs. You may tell your readers that I claim that these 50 cannot be equalled by any other breeder in the state. These were selected from a crop of 250 pigs and they have the length, bone, best of feet, not a poor back among them, nor a poor head and ear. This is claiming a whole lot but I believe I have the goods to back it up and if any of your readers doubt it just let them send in an order and I guarantee to fill it with a boar that will more than please them.—Advertisement.

S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.

This is the final notice of the dispersion sale of Percheron horses at Kincaid, Kan., November 10. The owner, H. L. Harvey, has disposed of his farm and has given possession and will positively disperse the entire herd next Wednesday. The sale will consist of stallions, mares, colts and one or more jacks. One very attractive feature will be a dandy pair of black mare colts.—Advertisement.

Ed Sheehy of Hume, Mo., is offering a choice lot of tried sows and gilts. All of the sows are bred for early litters. Some of the gilts are bred and some will be sold open. He is also making very attractive prices on some good spring boars. These boars are an extra well bred lot and in order to move them quickly Mr. Sheehy is making the price very low. Those interested in good Polands will do well to write Mr. Sheehy at once. Please mention the Farmers Mail and Breeze when writing.—Advertisement.

Latham's Duroc Sale.

G. O. Latham of Ottawa, Kan., will make a draft sale of 50 head of registered Duroc-Jerseys, Saturday, November 20. The offering will include 15 spring boars, 30 spring gilts and 5 tried sows. The tried sows will be bred for spring litters and the spring gilts will be sold open. The offering carries the blood of some of the best known sires of the breed. These hogs are in good condition and will please those who attend the sale. This sale will be held in the sale pavilion at Ottawa. Note the ad in this issue and write Mr. Latham at once for catalog.—Advertisement.

Scottlea's O. I. C. Swine.

In other columns of this paper you will find the ad of the Scottlea Farms. This is credited as being the largest purebred herd of O. I. C.'s in the United States. There are three distinct and separate herds maintained on the farms. Each herd is headed by a grand champion or a son of grand champion while the sows also carry a great deal of champion blood. In these herds ready for shipment are 20 fall boars of unusual merit, 100 splendid spring gilts, a few fine sows and any number of good pigs. The Scottlea Farms are able to supply your wants. Write them for prices, etc., and don't forget to mention this paper when writing.—Advertisement.

Duroc-Jersey Herd for Sale.

R. W. Taylor, the well known breeder of Duroc-Jerseys and the owner of Buckeye Stock Farm at Olean, Mo., is offering his entire herd of Duroc-Jerseys for sale. This offering affords our readers an opportunity to buy the best of champion blood. The entire herd includes two herd boars, 10 herd sows, a lot of young boars and some bred gilts, a few yearling gilts and 50 fall pigs. From the fall pigs, pairs and trios can be selected which are not related. This offering is first class in every particular and Mr. Taylor is anxious to dispose of them soon. In order to do this he is making rock bottom prices. If interested write Buckeye Stock Farm, Olean, Mo., and mention this paper.—Advertisement.

Baker's November Sale.

In the year 1913, W. Z. Baker of Rich Hill, Mo., took out a herd of Poland Chinas and just about cleaned the platter at the Missouri and Kansas State Fairs and the American Royal. Among the stock in this herd was Hadley Beauty 2d, a sow that was undefeated. The spring of 1913 she farrowed 11 pigs, the following fall 10, the next spring 8, the next fall 8, the next spring 12 and this fall 13, or a total of 66 pigs in three years, and during that time she was fitted and shown, winning the purple. In his November 15 sale, Mr. Baker will sell one of her junior yearling boars, a second prize winner at Topeka this fall, and four of her spring litter that were winners of championship and other prizes at Topeka and other big fairs. Every hog in this sale is either a prize winner or carries prize winning blood. Write Mr. Baker for catalog of this great offering.—Advertisement.

Provide yourself with tobacco dust to kill beetles, or aphids, and slug shot for insects to have ready when needed.

HEREFORDS.

Registered horned and double standard polled  
**Hereford Bulls For Sale**  
Also a few horned heifers. JOHN M. LEWIS, LARNED, KANS.

**Blue Valley Breeding Farm**  
HEREFORDS POLAND CHINAS  
BARED ROCKS  
25 bulls, 6 to 20 months, at \$75 to \$100, laid down at your station in Kansas. 50 cows and heifers for sale. Address  
Fred R. Cottrell, Irving, Kansas  
(Marshall County.)

Closing Out Sale

of about 200 high grade Hereford cows and heifers coming three years old, 60 calves, 2 registered Hereford bulls, 100 steers, 200 hogs. Sale at residence of  
W. E. Wheeler, near Garden City, Kansas, at 10:00 o'clock Friday, November 12th.

HOLSTEIN CATTLE.

**Holsteins For Sale** high bred registered bulls ready for service. N. S. AMSPACKER, JAMESTOWN, KANS.

**Sunflower Herd Registered Holsteins**  
80 in herd. Attractive prices on springers, bred cows and heifers. Bull calves. F. J. Searle, Oskaloosa, Kan.

**HOLSTEINS** A few choice registered young bulls for sale at prices that are right. Higginbotham Bros., Roseville, Kansas.



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** see my herd before buying. I can supply you at the right price. Write for HOLSTEIN prices and descriptions. J. C. Robison, Towanda, Kansas

Girod's Holstein Cattle

REGISTERED OR HIGH GRADE. 250 head to select from. One hundred cows and heifers safe in calf to bulls strong in the blood of the best milking strains. Registered bulls from calves to 24 months old. Bring your dairy cattle expert. The better judge you are of Holsteins, the easier we can deal. They are priced to sell.  
Clyde Girod, Towanda, Kansas



HOLSTEIN HEIFERS

Springers, coming 2 and 3 years, single lot or car loads. Also a few registered and high grade bulls, ready for service. Wire, phone or write.  
O. E. TORREY, TOWANDA, KANSAS

SHORTHORN CATTLE

**Shorthorn Bulls For Sale!**  
Six heifers, two-year-olds. Reds and roans.  
L. M. NOFFSINGER, OSBORNE, KANSAS

**Shorthorns**  
20 bulls and heifers sired by Duchess Searchlight 348523, a 2500 pound bull, and from cows weighing 1400 to 1600 pounds. Good milkers. Come or write. A. M. Markley, Mound City, Kansas

Herd Bull For Sale

Secret's Sultan (363833), got by Missie's Sultan, by Glenbrook Sultan, by White Hall Sultan. Five yr. old, wt. 2300, in good flesh. We are keeping 15 of his heifers and will sell him fully guaranteed.  
S. B. AMCOATS, Clay Center, Kan.

SHORTHORN CATTLE.

**Pure Bred Dairy Shorthorns**  
Double Marys (Flatcreek Strain) and Rose of Sharon families. Registered Poland Chinas. Breeding stock for sale. Address R. M. ANDERSON, Beloit, 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  
ABILENE, KANSAS

LOOKABAUGH'S SHORTHORNS

The farmer's cow. Foundation stock that carry the blood of the very best Scotch families. Strong in the blood of the most noted sires of the breed.  
**300 Head From Which to Select**  
**60 Head Must Sell Next 60 Days**

20 Extra Good Young Bulls and 40 Fine Young Heifers. 14 to 18 Months Old.

We guarantee satisfaction and any time within 12 months when you buy two or more of these Shorthorns and feel you have bought them too high ship them back and get your money. 6 to 9 months time if required. A written guarantee will also be given to pay you 50 per cent of purchase price of any female for her calf at a year old. We have recently purchased Fair Acre Sultan, by White Hall Sultan and 40 head of richly bred cows and heifers from the best herds of the north and east, to mate with him and our other herd bulls and hence this fall sale of Shorthorns to make room for them.

Every day, right now, is bargain day at Pleasant Valley Stock Farm. If you have been planning to give us a visit come soon. Write, phone or wire when to meet you.

**H. C. LOOKABAUGH, WATONGA, OKLAHOMA**





## Welter's Poland China Sale

At his farm 13 miles northeast of Manhattan and near  
**Flush, Kans., Thursday, November 11**  
16 Boars, 18 Gilts and one tried sow. Also six fall pigs selected.

A choice lot of well grown, well conditioned March and April boars and gilts. Also a two-year-old sow that is a granddaughter of Grand Look, on dam's side and Gold Metal, on sire's side. She will farrow soon after sale. Everything in the sale is strictly tops and first class. Spring boars and gilts by and fall pigs by **King Jumbo**, by **Jumbo Jr.** King Jumbo is a big massive fellow that has proven a sire of real merit. Catalogs ready to mail. Address,

**Edward Welter, Flush, Kansas**

Auctioneer: Jas. T. McCulloch. Fieldman, J. W. Johnson.

## Jacks! Jacks!

**Atlanta, Missouri**  
**Monday, November 15**

We are selling 60 head of jacks and jennets. The real Missouri type. Big, flat boned, big head and long ears with feet that cover the ground.

Our great lot of three-year-old jacks are thought to be great and some even venture to say they never saw a better and larger collection of three-year-old jacks sold anywhere.

Well, those 16 hand grown jacks are the sort to get big mules. We have them 16 hands high and the right sort. Our yearlings and two-year-olds are as good as we can raise or buy.

### What About the Jennets?

Can't get big jacks out of little jennets and we deal only in the big Missouri type and our jennets will please all fanciers. This short space can't give you an idea of our stock. Our catalogs will help, a visit will put you next, so come, come to the early fall jack sale. We have no second hand jacks to sell.

Come and See

**Wm. H. Romjue & Son, Atlanta, Mo.**

## Duroc-Jerseys Timber Hill Stock Farm

**Eleventh Annual Sale**

**Dennis, Kas., Wednesday, Nov. 17**

**45 HEAD—30 Spring Gilts, 15 Spring Boars—45 HEAD**

We will sell the "get" of Ohio Kant Be Beat 69077, Golden Model Again 155043, Crimson Surprise 168341, Chief of Wonders 163697. Out of Golden Queen 37th 362580, Golden Queen Again 413706, Buddy's Wonder 369922, Miss Billie K 338854, Big Wonder 372914, Variety Wonder 338852, and Surprise Wonder 425890. SPECIAL. 5 Golden Model gilts out of our great Good Enuff sow. Write for catalog. Read fieldnote in this issue. Interurban car line from both Parsons and Cherryvale, Kan.

**LANT BROS., DENNIS, KANSAS**

Auctioneer, Jas. W. Sparks. Fieldman, A. B. Hunter.

## Duroc-Jersey Hog Sale

**Wichita, Kan., Wed., Nov. 17**

**The Greatest Duroc Sale Ever Held At Wichita**

**82—Head—82**

All Immune by Double Treatment

20 Tried Sows. Big, stretchy, high class herd sows.

30 handsome, growthy spring gilts.

20 choice summer gilts.

10 fancy spring boars ready for service.

2 herd boars, show prospects. The kind good breeders are looking for.

Mr. Howe is an old reliable, constructive breeder. In the days of the Wichita and southwestern fair, his Durocs always won the champion prizes and a majority of the other ribbons. He has always stood out for stretch and size, even in the days when everything was sacrificed for quality. His other hobby is color.

It is not necessary in this ad to go into detail further than to say if you want good Duroc breeding stock get in your automobile or on the cars and come to this sale; you will not be disappointed. For the last eight years I have attended every auction of registered hogs sold in Wichita and these Durocs are the best ever offered at a Wichita sale. Catalogs are now ready. Write Mr. Howe for yours today.

Yours truly,  
A. B. HUNTER,  
Fieldman for Capper Publications.

**Holstein Cows** Two registered cows now fresh. One registered heifer to calve in early spring. One purebred but non-registered two-year-old heifer fresh in spring. Also 6 head of horses. Parties from a distance stop at Pennsylvania Hotel; free conveyance to and from farm, near city. Address

**J. U. HOWE, ROUTE 8, WICHITA, KANSAS**  
J. D. Snyder, Auctioneer. A. B. Hunter, Fieldman.

## Maplewood Stock Farm

### Big Two Days Sale

100 Duroc-Jerseys, registered and eligible to register. 40 Holstein cows and heifers, all fresh or heavy springers. Not a poor cow in this sale. All have been bought and reserved for this herd until the recent decision to handle nothing in the future but registered cattle.

**Sale at Maplewood Stock Farm four miles south of Herington, Kansas**

Free conveyance to and from the farm. Best of R. R. connections. Ask your agent to route you. Catalogs ready to mail upon application.

**Wed., Nov. 17**

**100 Registered Duroc-Jerseys**

20 sows with splendid litters by their side by **Geimon's Good Enuff** by **Good Enuff Again King**, the 1913 grand champion.

20 fall gilts to farrow the last of November.

40 fall and spring gilts, sold open.

20 well grown and well bred fall and spring boars.

**Thurs., Nov. 18**

**40 Holstein Cows and Heifers**

sold with a positive guarantee that they are just as represented. All were carefully selected for this herd but our recent decision to breed registered cattle only in the future decided us to make this sale. For more than a year the herd has been headed by our herd bull, **Canary Butter Boy King** whose first six daughters made from 14 to 23 pounds and all entered the advanced registry class.

For Catalogs, Address **Mott & Seaborn, Herington, Kas.**

Auctioneer—Jas. T. McCulloch. Fieldman—J. W. Johnson.

(Mention the Farmers Mail and Breeze when you write for a catalog)



# Great News For Trappers!



## Easy Christmas Money—Lots of Fun.

Invest \$5.00 and get back \$50.00 before Christmas! Order this outfit, through our Trappers' Supply Department and make some easy money.

12 No. 1 Victor Traps (for Muskrat, Opossum, Ermine, Civet).....	\$1.30
12 No. 1 1/2 Victor Traps (for Mink, Raccoon, Skunk, etc.).....	1.95
1 No. 2 Victor Trap (for Fox and large Raccoon).....	.25
1 Large Pkg. Biggs Skunk Decoy (enough for 150 sets).....	.50
1 Small Pkg. Biggs Opossum Bait (enough for 50 sets).....	.25
1 Small Pkg. Biggs Raccoon Bait (enough for 50 sets).....	.25
1 Small Pkg. Biggs Trail Scent.....	.50
<b>Total</b> .....	<b>\$4.96</b>

A bigger outfit will bring you in more money, but this little order of 25 Traps and a small outfit of baits will locate a little gold mine for you along the creek or down that hedge row or back of the woods, where the fur grows thickest. **Don't believe the fur is "all trapped out."** Read what Edgar Lipscomb says about it on page 19 of the November "TRAPPERS' EXCHANGE"—"The furs are in the woods for you if you will but go after them in the right way, with the right kind of traps and bait," says this experienced trapper. Read the letter from Glen Eley in the November issue of "TRAPPERS' EXCHANGE," telling how he (a 12 year old boy) made \$20.00 with only six traps, in a season when fur was bringing low prices. The same furs would be worth nearer \$100.00 this year. Are you prepared to get your share of the **Big Money** that will be paid to Trappers in the next three months? **DON'T DELAY! WRITE TODAY!** "BIGGS AT KANSAS CITY" can help you make big wages trapping in spare time.

## What Trappers Say

**"You Give Highest Prices."**  
Your letter to hand enclosing check. I now see you give the highest prices for furs. Will send more soon, also order for Biggs' Baits. H. R. BALDWIN, Carpenterville, Ill.

**"A Square Deal in Every Way."**  
I have your draft for furs I sent you a few days ago. I think you have given me a square deal in every way and very prompt returns, for which I thank you very much. GEO. M. BOULTER, Valley Falls, Rhode Island.

**"Set Six Traps—Got Five Weasels With Biggs' Bait."**  
I received the weasel bait and find Biggs' Baits better than any other kind. I used bait put up by you but did not catch anything. I set six traps and used only a few drops of Biggs' Baits and next morning I had five weasels—Biggs for me hereafter. EDWARD WEISPFENNING, Fredonia, N. Dak.

**"More Than Pleased."**  
I have just received your check for the last shipment of furs and thank you for your promptness. I am more than pleased with the price. J. W. STEWART, Tompkinsville, Ky.

**"Pay More Than I ever Got Elsewhere."**  
Your letter and check received today. The price is very good. I expect to send you another shipment soon. Biggs' Bait can't be beat and you pay more for furs than I ever got elsewhere. CLYDE DOUGHERTY, Hale, Mo.

**"Caught Twenty Skunks With Biggs' Baits."**  
Your skunk decoy is great. I caught 20 with it, whereas I failed to get one with bait I bought elsewhere. F. DUANE, Clarksville, Ia.

**New Trappers—Here is your chance.** There is **big money** in trapping this year. Let us equip you with a complete trapping outfit and then go after Mr. Skunk, Mr. Coon, or Mr. Opossum.

## "The Trappers Exchange" Sent Free To All Trappers

**Write today for free copy of our monthly magazine, "The Trappers' Exchange"**—subscription **Free** to all trappers and those interested in trapping fur bearing animals. Full of pictures, diagrams and original stories, giving the experiences of hundreds of successful trappers everywhere. **The Greatest Exclusive Trappers' Magazine Published.**

The information about trapping that comes to you free. New trapping schemes every month as told in each new issue of "Trappers' Exchange," will enable you to become an expert trapper at once. It would take you years and years to learn by experience, what you can learn in half a day reading "Trappers' Exchange."

**Biggs' Guaranteed Baits will increase your catch or we will refund your money.** Skunk, Coon, Possum baits in 25c and 50c sizes; all others in 50c and \$1.00 sizes. **All Baits Absolutely Guaranteed.**

**Trappers' Supplies** Guns, Ammunition, Traps, Baits, etc., sold at **actual Factory Cost**—because we sacrifice all profit in order to get more furs. **Send for Free Catalog of Supplies.**



Our New Building Occupied Entirely by E. W. BIGGS & CO.

**Tanning and Manufacturing:** We do tanning and manufacture fur goods of all kinds. **Catalog Free.** Just write your name on the coupon or post card and we will send you **Free** a copy of "The Trappers' Exchange," Catalog of Trappers' Supplies, Tanning and Fur Goods Catalog, Latest Fur Price Lists, Shipping Tags, etc.

## Furs and Hides Highest in History

Do you know that we are paying \$5.00 each for large Prime Black Skunk of the kind caught in Missouri? We pay more than \$5.00 each for Skunk that grade an extra fine quality of fur.

Do you know that the boys in Jackson County, Missouri are making money "hand over fist" (and that you can do the same) trapping Opossum and selling the furs to "Biggs at Kansas City" at the rate of \$1.50 each for large prime full furred No. 1 average quality skins? They get \$1.75 each for the extra fine quality large quality No. 1 Opossum.

## We Must Have More Furs

We Will Pay the Price To Get Them.

We have immense orders for furs and hides of all kinds. These orders must be filled. **Get busy right now** and help us get the the supply we simply must have. We'll pay you the highest prices paid in years and years. "Biggs at Kansas City" had always paid top-notch prices in other years as a half million satisfied shippers will testify. This season we want **more Furs than ever before.**

## A Proclamation From Fur Headquarters

This is really a proclamation from the oldest and largest fur and hide house in the Southwest. The hundreds of thousands of regular Biggs' shippers will heed this call, but we want thousands of new shippers—thousands who have started trapping this year for the first time.

## No Commission Deducted—Quick Returns

"Biggs at Kansas City" doesn't take a dollar out of your pocket as commission. **You get all.** Money by return mail.

**To all our regular shippers, we say—Ship us more Furs than ever before**—you know we have always paid you absolutely the highest prices of all—giving you more actual dollars than any other house in the entire country. **Increase your shipments this year.** The prices are away up—Skunk, Coon, Opossum, about double last year's prices.

## Fur Shipments Held Separate!

We hold fur shipments separate on request and mail you our check within an hour after your furs reach us. If price is not satisfactory, return check and we will send back your furs. Thirty-four years of Square Dealing back all Biggs transactions.

## What Trappers Say

**"Biggs Treats Me Right."**  
I am satisfied with your price on the furs I shipped you. Biggs treats me right, and I gladly recommend you. ERNEST SEVERSON, Clearbrook, Minn.

**"Pleased With Work on Two Fur Sets."**  
The two fur sets I sent you to have made up for Mrs. Swan and a friend arrived and I want to tell you that we appreciate the work you did, also your methods of doing business. I will take pleasure in recommending you. E. M. SWAN, Golconda, Nev.

**"The Best Fur House I Ever Dealt With."**  
I have used your animal baits and find them the best of all. Will send in some furs at an early date. You are the best fur house I have ever dealt with. ALBERT HUBER, Milan, Ill.

**"Delighted With the Fur Coat."**  
Received the coat sometime ago and am delighted with it. Everybody who has seen it thinks it is splendid. There are a number of people around here that are going to send some hides to you in the near future and have them made into coats and robes. We are certainly satisfied. Send me your Fur Price List. ALEX LOHME, East Scobey, Mont.

**"Pleased With Price for Hides."**  
I am very much pleased with the price I got for my hides. Just as soon as I have more, I'll make shipment to "Biggs at Kansas City." FRANK A. RIDGE, Greenfield, Okla.

**"You Give the Best Returns."**  
Your price on furs shipped you is certainly all right. We will ship you more as soon as possible, as we find you give us best returns. STUDEBAKER BROS. & CO., Plymouth, Kans.

**"The Silver Fox Is Yours."**  
I am satisfied with the price. The silver fox is yours and the money is mine. JOSEPH PEZL, Phillips, Wis.

## Coupon For Full Information

**E. W. BIGGS & CO.,**  
1132 Biggs Building, Kansas City, Mo.  
Send me **FREE**, "THE TRAPPERS' EXCHANGE," Catalog Trappers' Supplies, Tanning and Fur Goods Catalog, Fur Price List, Shipping Tags, etc.

Name.....  
P. O. ....  
R. F. D. .... State.....

**E. W. Biggs & Co.** 1132 Biggs Bldg. Kansas City, Mo.