

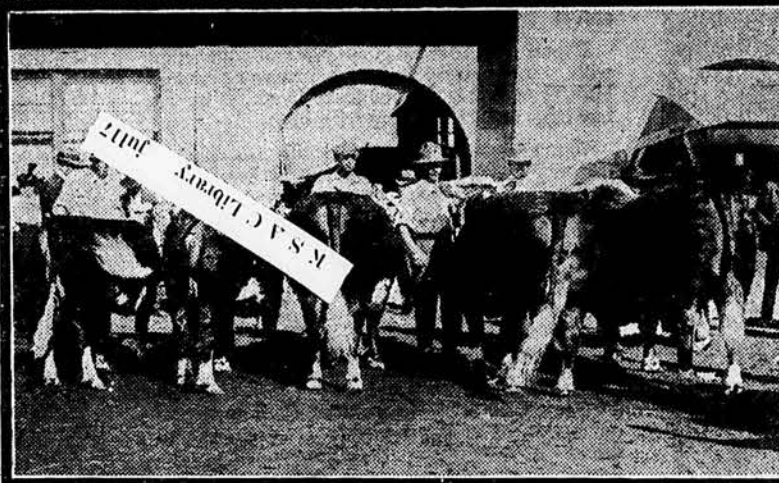
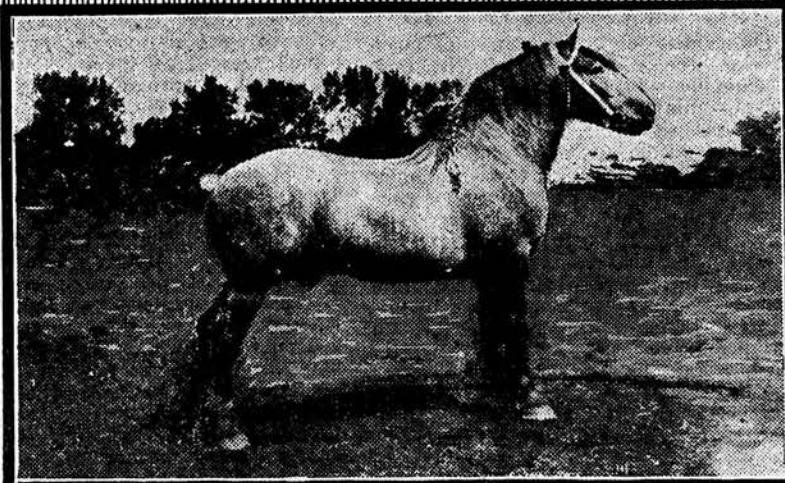
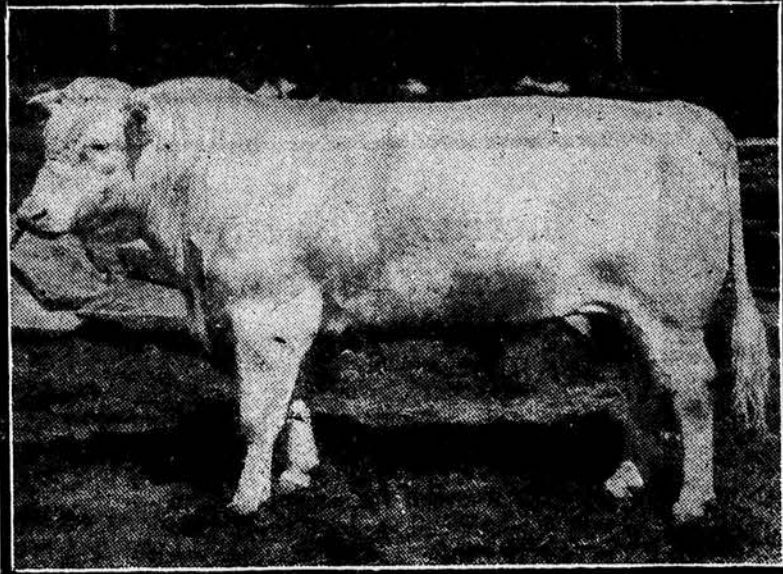
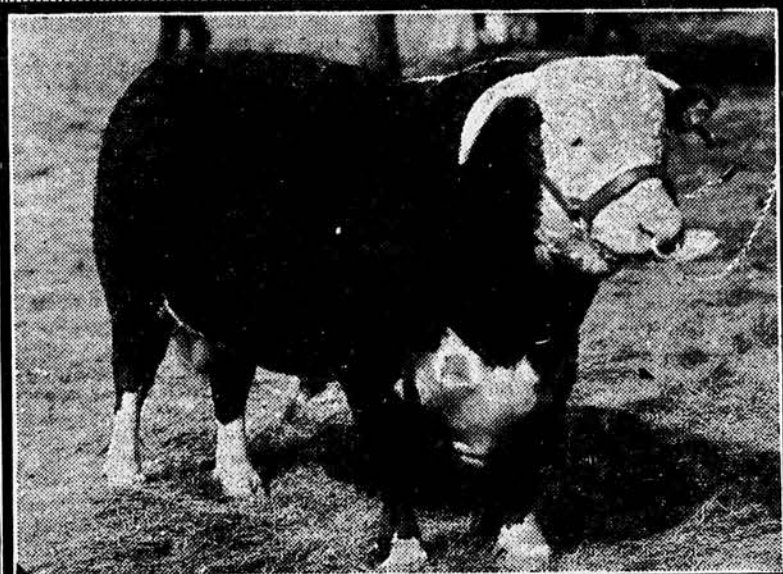
# KANSAS FARMER

For the improvement

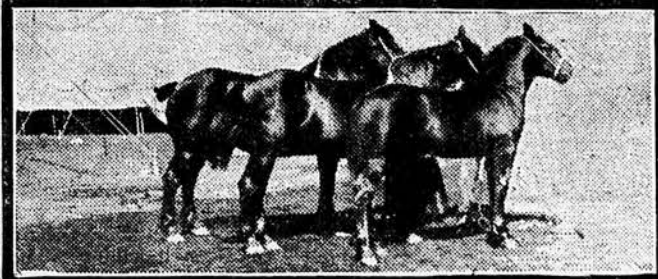


of the Farm and Home

Volume 54, Number 39. TOPEKA, KANSAS, SEPTEMBER 23, 1916. Established 1863. \$1 a Year



## TOPEKA FAIR CHAMPIONS



FULL AWARDS GIVEN IN THIS ISSUE



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# FARM POWER

## Items of Interest About Automobiles, Engines, Tractors, and Motorcycles

Last year there were about 90,000 automobiles in Kansas. The state automobile department estimates that this year's total will run to something like 130,000, an increase of about 40,000. Most of the cars in Kansas are kept in private garages on the premises of the owner, usually very close to the house or barn. In nearly all of these garages more or less lubricating oil and gasoline are stored. Much of the gasoline is kept in large quantities. Very few have less than five or ten gallons and many have as high as a hundred gallons. Greasy rags thrown in the corner have a tendency to breed spontaneous combustion. The oil stored near by is ready to add to the flames, and the can or tank of gasoline stands ready to do its part by blasting the garage into fragments and throwing flaming liquid all over the neighborhood. Or a spark from a match or from a file on hard steel or from friction of some sort or other, may ignite the gasoline at any time with the same result. Lives are constantly endangered and the property of the community hazarded by carelessness in storing and handling gasoline in private garages.

Every garage should be kept as neat and clean as a kitchen. Oily rags should be disposed of promptly to avoid any possibility of spontaneous combustion.

Gasoline should be stored in tanks under ground. Much waste by evaporation is saved in this way and most of the fire danger is eliminated. The state fire marshal hopes that the time will soon come when in Kansas all gasoline in quantities of more than five gallons will be stored in underground tanks.

In addition to these precautions an approved fire extinguisher of some kind should be placed at some convenient point in every private garage.

One of these extinguishers will control a small blaze that otherwise might prove disastrous.

### Hints on Carbureter Care

The carbureter is the source of much of the trouble in operating tractors, automobiles and even small stationary and portable farm engines.

The essential parts of the mixing valve are the needle valve regulating the amount of fuel admitted to the cylinder and the means for maintaining a constant level of fuel at this needle valve. There usually is some means for controlling the air entering the mixing valve. On commercial carbureters, there may be various adjustments for controlling these parts. If the engine is throttle governed, there is also a valve or throttle to control the amount of mixture entering the engine.

It is these adjustments which cause the carbureter to seem such a formidable enemy to the engine operator. However, if he will but trace the fuel, air and mixture carefully through the instrument he may easily see what adjustment does and learn to admire rather than fear the carbureter.

Since the ratio by volume of fuel and air is about 1 to 15,000, the needle valve must be very fine. Hence the least dirt or foreign matter may obstruct the carbureter and cause it to fail to act properly. When the engine is used in a dusty place, the intake pipe leading to the carbureter should be protected by a screen of fine wire or cheese cloth. If this is not a part of the machine when sold, care must be taken in attaching to the intake pipe so as not to stop the ready flow of air. A porous drum or long pipe full of holes may be covered with cheese cloth to do this work.—E. R. GROSS.

### Gas Engine a Necessity

Internal combustion engines in their present stage of efficiency can be relied upon to a greater degree than any other type of farm machinery, if they are properly handled by an operator that understands the principles of their construction. The average farmer with a little study and the application of a small amount of common sense will find that he is capable of running and caring for any of the engines on the market.

The gas engine is an economic necessity to the modern farmer, not only be-

cause of its wide adaptability but also due to its time-saving qualities. The modern type of farmer finds that he must keep everything and everybody going at top speed every day during the rush season. He also finds that the pace is too much for either man or beast to stand and it is here that the gas engines show their true value.

The gas engine ranks first among labor-saving machinery and fills the most important place on the farm machinery list. The rush season always arrives in hot weather when the horses are least able to stand hard work. The gas engine will travel through the hot weather with the same efficiency and is able to keep up the pace without a waver for twenty-four hours at a stretch.

While the gas engines are not working they are not eating their heads off as the horses do, especially during the winter season.

An engine can now be purchased that is guaranteed by the manufacturers against imperfection of materials for a term of three years or more. Next year will put the small tractor to a severe test. The experiments will determine to a great extent its value on a small farm. —W. H. SANDERS, Instructor in Farm Motors, K. S. A. C.

### Careless Use of Headlights

Many motorists endanger the lives of others by their thoughtlessness in the use of glaring headlights. Just outside of Chicago a few weeks ago a heavy touring car full of men and women went into the ditch, killing a young woman and injuring several of the other occupants of the car. Cause—the brilliant headlights of the approaching car, could not see the road, and turned out a fraction of an inch too far—a fatal accident and the death of a beautiful young woman—and serious injuries to three other persons. These accidents are getting more and more common. One has only to open his morning paper to read about several of them. The time for the users of automobiles to act on this nuisance has come. Glaring headlights on the country roads are no longer a lack of courtesy or bad manners. They are a menace to public safety. Cities have already passed and are rigidly enforcing laws on the glaring headlights; but almost nothing is being done about its use in the country, where it is most dangerous of all. Ordinances covering the use of over-brilliant lights on the country roads are going to come. They are on the way now; but they will always be difficult to enforce. The remedy lies in the hands of the motorists, and for "common safety's sake," they should take matters into their own hands. Every motorist has experienced this annoyance at some time or other. Many are guilty of it themselves. It is time for these "criminally thoughtless" to take a really serious view of the danger to which this thoughtlessness is subjecting others.

The bright headlight is a necessity in country driving at night. Its abuse is a nuisance and criminal carelessness, for that is the ugly name that the law calls it. Use your headlights in the country, by all means, but use them with a respect for the other fellow's rights, and turn them down when a car approaches you, and leave them down until the other car has passed.

This is one of the great commandments of motoring.

The best grades of oil are most resistant to the destructive agents, heat, friction and wear, which cause it to deteriorate. For most uses, a cheap grade of oil costs more in the end than a good grade. Even the best grade must occasionally be replaced. Probably the hardest task oil is called upon to perform is to lubricate the piston and cylinder of an engine which are exposed to the intense heat of burning gases. For this purpose the oil cannot be too good.

Beware of the man who tries to sell you some miraculous wheats. They are not worth more than ordinary wheats, but make the mixed mixture even worse.





# KANSAS FARMER

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## SEEN IN ART BUILDING AT FAIR

It would be hard to say which department at the Big Free Fair at Topeka attracted the greatest number of visitors. But of this we are certain—the Art Building housed a big, appreciative crowd every hour of every day during the fair.

In this building the principal exhibits were those of fancy needlework, hand-painted china, pictures—oil, water colors and crayon work—and the culinary department. In all these sections there were many specimens which reflected creditably upon the skill of the women of Kansas. Hours could have been spent in this building with profit to the visitor.

The hand-painted china and the pictures received their share of admiration and discussion and the women in charge answered many questions and explained many of the designs and the way in which the work was done.

In the fancy work section the number of varieties and the different articles of each variety, bewildered one at first sight, but this collection invited closer inspection and a search for the part of the exhibit in which the visitor was especially interested. We counted about thirty crocheted and knitted bedspreads, and as we thought of the amount of time and eyesight used in their making we could not help wishing all the makers might be rewarded. There were hundreds of pieces of beautiful hand work and the prize tags were also many.

No less attractive was the culinary department. This exhibit occupied space in the middle of the building and the perishable products were kept in glass cases. With the exception of the jelly entries, this department was larger in every class than it was last year.

Miss Frances L. Brown, Director of Home Economics of the Extension Division of the Kansas Agricultural College, judged the culinary products. The first prizes in this department were awarded as follows:

White yeast bread, Mrs. W. W. Kitchell, Shawnee County. Mrs. Kitchell also won a special prize of a barrel of flour. Rye bread, Mrs. William Holl, Shawnee; graham, Miss Luella Holman, Shawnee; salt-rising, Mrs. Anna A. Brown, Douglas; nut bread, Mrs. Eva Smelser, Shawnee; raisin bread, Mrs. D. P. Ingraham, Shawnee. Baking powder biscuits, Miss Luella Holman, Shawnee County. She also won a special prize. Light rolls, Miss Nellie Hewitt, Shawnee.

These Shawnee County women won the firsts on cakes: White loaf cake, Mrs. J. F. Schwulst; angel food, Mrs. Elmer Ebey; sponge cake, Mrs. Ebey; marble cake, Mrs. John Danforth; nut loaf, Mrs. F. M. Drake; devil food, Mrs. J. F. Schwulst; fruit cake, Miss Edna Bell; chocolate layer cake, Miss Zera George; coconut, filling, Mrs. Elmer Ebey; Lady Baltimore, Mrs. Ebey; burnt sugar cake, Mrs. Clarence Bowman; nut, filling, Mrs. F. M. Drake; best decorated cake, Mrs. Fred Miller.

The first prizes on pies were also won by Shawnee County women. Apple pie, Mrs. Elmer Ebey; cherry, Mrs. El Kelly; lemon, Mrs. William Curry; mince, Mrs. Susan Eudaly; pumpkin, Mrs. F. W. Drake.

Canned tomatoes, Mrs. Warwick Updegraff, Shawnee County. Mrs. Updegraff had a very good exhibit. Canned peas, Mrs. Clarence Lacey, Jefferson County. Mrs. Lacey also won first on canned asparagus.

For collection exhibits, the winners were: Preserves, Mrs. George Boone, Shawnee; pickles, Mrs. A. Lewis, Shawnee; canned fruits, Mrs. Fannie Flaherty, Franklin; jellies, Mrs. Flaherty; canned vegetables, Mrs. Clarence Lacey, Jefferson County.

Criticisms on this department would be entirely out of order, but we do want to make an appeal for a larger exhibit, or rather for a greater number of exhibitors. More of the women of our state should contribute to this department of the fair. The newest oppor-

tunity here is the exhibiting of canned vegetables. As yet, not as many vegetables are canned as should be, many never having tried to thus add to their winter diet because they are skeptical of the success of this practice. For this reason those who do this work successfully should exhibit their products. We are sorry that more of the hundreds of girls and women over the state who belong to canning clubs and who have for several years been canning vegetables successfully, did not send in exhibits. Two Shawnee County women showed the possibilities in varieties, Mrs. Boone having about fifty-five entries, and Mrs. Eudaly seventy-seven.

At the close of the fair the breads and cakes were sold and there was a big demand for them.

The fair premium list, which is sent out early in the summer, contains complete information on the entries which may be made, and just how and when they should be made. You should see to it that your name is listed with the Kansas State Fair Association secretary, so that a premium list will be mailed you in plenty of time for you to look it over and decide what you want to enter. No entry fee is charged in any of these departments and the prizes are many.

There were also other interesting exhibits in Art Building. The State Department of Labor and Industry had a "Safety First" exhibit, showing numerous devices designed for the protection of workmen in the various industries. One feature was a daily mine explosion and a demonstration of first aid given the wounded. The Metropolitan Life Insurance Company had a booth and gave out many practical pamphlets on health, written by authorities on the subject. One corner of the building was devoted to the exhibits of the Sunday Schools. Washburn College was represented in two artistically finished and furnished rooms—a study and a breakfast room, designed by the home department of the college. Another interesting corner was the exhibit of the State Boys' Industrial School. Everything in this exhibit had been made by the boys, and the shoes, reading lamps, uniforms, wood work, etc., were a credit to their skill. Within the building's four walls was much of interest and of help.

## CROP EXHIBITS AT TOPEKA

The people who crowded agricultural hall during fair week could hardly realize that Kansas had passed through a dry spell of unusual duration the present season. Corn is the crop most seriously effected by lack of rain during July and August and it was a genuine surprise to the fair visitors to find such an unusually large display of show corn. P. E. Crabtree, district agricultural agent located at Scott City, Kansas, was in charge of the crop exhibits. His experience and skill in classifying and staging such exhibits made it possible to quickly go over the various groups of entries and make comparative studies. Early maturing varieties of corn made the best showing this year. J. M. Gilman of Leavenworth County had one exhibit of over a hundred varieties, all of which were grown from seed secured from the Dakotas and other northern states. A good many of these varieties give promise of being very valuable for Kansas conditions. They have developed the early maturing character and in such a year as the present one this is most important. This year five counties made collective exhibits. These exhibits are always most instructive. They were so made as to give an excellent idea of the agricultural resources of the various counties. Corn, sheaf grain, threshed grain, forage crops and cultivated grasses, forage crop seeds, wild grasses, fruits, vegetables and other miscellaneous farm products were included in these exhibits. They were skillfully arranged and attracted more comment and attention than any other exhibits shown in Agricultural Hall. The prizes were won in the following order:

Leavenworth County, first; Jewell, second; Franklin, third; Douglas, fourth; and Jefferson, fifth. There were over thirty different exhibits of fruit. Seven counties were represented. The leading exhibitors were O. D. Hotchkiss, William Shideler, Nash & Brooke, Henry Fisher, and W. F. Cecil of Shawnee County; M. Shirley of Jefferson, John Mitchell, Douglas, and Johnson and Wheeler of Franklin. It is worthy of note that all these exhibitors are men who give their orchards real orchard care. Fruit can no longer be successfully grown without systematically fighting the various insect pests and plant diseases. When this is done, fruit of high quality can be grown on the farms of Kansas. Many of the exhibits shown at the Free Fair will be shipped to Hutchinson and exhibited at the Kansas State Fair, which immediately follows the big Topeka Fair.

## POLAND BREEDERS ORGANIZE

The Poland China breeders, about 50 per cent of whom were present at the Topeka Fair, got together and organized the Kansas Poland China Breeders' Association. The avowed purpose of this organization is to bring about a more friendly feeling among the men of Kansas who are devoting their efforts to improving and developing Poland China hogs and to promote the breed to the fullest extent possible.

The following officers were elected: President, H. O. Sheldon, Oswego; vice-president, Fred B. Caldwell, Howard; and secretary-treasurer, J. C. Halderman. The directors are A. J. Erhart, Ness City; A. G. Van Horn, Topeka; Paul Olivier, Danville; W. A. Prewitt, Asherville; C. B. Palmer, Marion; and H. B. Walter, Effingham.

The next annual meeting will be held in Topeka, Tuesday evening of fair week. The annual dues are one dollar.

## USE MORE MUTTON

Unusual interest was taken in the showing of sheep at the Topeka fair. The quality of the exhibits was even better than a year ago. A. M. Patterson, who judged the sheep, says that mutton should be used to a greater extent by the Kansas people. It is as cheap as beef and the stewing cuts are the cheapest meats that can be purchased. Cleanly dressed mutton is just as palatable as any other class of meat and many persons think the flavor is much better.

"A whole or half carcass of lamb can be used by the average family before it will spoil," says Mr. Patterson. "Thus if a few sheep are kept on the general farm, a constant supply of fresh meat is at hand. A 70-pound lamb will dress out about 55 per cent, or 38.5 pounds. This amount of meat can be used by the ordinary family before it will spoil."

"Mutton has not been used to any great extent as food by the American people. This is due largely to the strong taste and odor that are caused by improper methods of killing. Spring lambs will produce cheaper meat than will any other class of meat-producing animals. The sheep can be turned out in the pasture, orchard, or any small lot in the spring and they will eat the weeds and grasses that other stock will not touch. Thus they keep the weeds down and at the same time furnish a supply of good fresh meat."

We are glad to note the excellent showing made in the sheep department at the Topeka Fair. This is the second year that this department has been especially worthy of note. It was largely made by out-of-state breeders, but Kansas breeders need the lessons that come from mingling with sheep breeders of experience. The few Kansas breeders who show at Topeka each year are making progress. Clarence Lacey of Meriden and C. E. Wood of Topeka both showed better sheep than they have ever exhibited before.

## EARLY CORN PROVES ITS VALUE

Few corn-growers of the state secured an average yield of thirty-five bushels to the acre this year. The man who did get this much, was favored with rainfall, or grew an early variety.

We were much interested in hearing of an experiment made by one of our Washington County KANSAS FARMER readers, who called on us last week during his visit to the Topeka fair.

In the years 1913 and 1914 this man had a total corn failure. In the latter year, seed that had been brought into the county from South Dakota produced a yield of forty bushels an acre. The following year some of this South Dakota seed was planted by a neighbor and its performance was carefully noted. That year's observation and results convinced our visitor of the merit of this early-maturing corn, and he bought enough seed from his neighbor to plant a five-acre plot this year. This seed was planted May 7 in a well prepared seed bed, and by August first the crop had matured and averaged about thirty-five bushels to the acre, which fact is well worthy of note the present season.

The way in which the crop was harvested and sold is also significant. When it had matured, twenty head of six-months-old pigs were turned into the field to "hog it down." This pork was sold August 28 for 10 cents a pound. The hogs had made exceptionally good gains on this field during the month.

This farmer is convinced of the value of growing early-maturing corn and marketing it in early pork. He says his future practice will be to breed early pigs, plant early corn and sell it early in the pigs. The market declines later and too great a risk is involved when hogs are held over and fed.

Another experiment which this man has worked out to his satisfaction is that for his location the best crop to follow alfalfa is kafir. Last spring he plowed fourteen acres of his alfalfa ground two inches deep, disked it three times and surface-planted ten acres to kafir, May 18. Oats were put in the other four acres and this crop yielded practically nothing. The kafir grew right along to the first of August and then the leaves curled and drooped. With the first rain, which came about September first, the kafir opened its leaves and started growing again, as is its custom, and he said he would have a fine crop of both forage and grain.

Next spring the oats ground will be planted to kafir, and the kafir field will be used for corn. He plans to list in between the kafir rows, using two-row monitors to kill the weeds and stir the ground so it will become warm, and will follow these with the corn planters. He hopes to have the crop in by April 20. The oats ground will be surface-plowed and planted to kafir.

On this farm kafir is the grain that is fed to the horses during the winter season. In addition they get alfalfa hay and are allowed to run in the lot where they have access to wheat and oat straw. When the heavy spring work begins, the work horses are given one bundle of kafir in the morning, one at noon, and two at night. They are also fed four ears of corn three times a day, and alfalfa hay.

This man's account of his different farm operations was interesting to us and we appreciate his taking enough time away from the fair to call at this office.

County farm bureaus in Kansas have nearly all adopted the policy of providing the county agent with a Babcock milk tester. If you do not know the butter fat test of the cows you are milking, you are working in the dark. The county agents are ready at all times to schedule testing demonstrations right on your farms. You should by all means take advantage of this opportunity. Star boarders in the herd keep down the profits. The Babcock test and the scales will locate these unprofitable cows.



# DEFICIENCIES OF CORN

## Testing Value of Adding Ash and Protein to Pig Ration

**A** PIG that is fed nothing but corn does not thrive. We know corn is comparatively low in ash and protein. Both of these two classes of materials are necessary for the proper nourishment of pigs.

During the past year an experiment has been very carefully conducted at the Kansas Experiment Station to determine the deficiencies of corn as a feed for young pigs. These tests gave results which indicate that protein deficiencies are primary and ash deficiencies secondary. These results have great scientific value but as applied to practice their values have not been sufficiently demonstrated.

Practical live stock feeders know the value of protein feeds for supplementing corn, but due to the automatic supplying of mineral which is associated with the protein feeds they do not have opportunity to know the value of this secondary accessory.

In order to determine the digestible protein requirements of growing fattening pigs and the practicability of adding the necessary ash to their standard rations, an experiment was planned and is now under way at the Kansas Experiment Station that will demonstrate some of these results in a way that will give them a practical application.

Ninety pigs of uniform breeding were secured from the Fort Hays Branch Experiment Station subsequent to weaning. The entire number was divided into fifteen uniform lots of six pigs each. The table on this page gives the order of the lots and the rations being used. Bone ash will be used as the ash supplement throughout the experiment.

When the pastures are killed by frost the pigs will be continued in dry lot.

In the hand-fed lots the feed is being given according to appetite twice daily

### Plan of Pig-Feeding Experiment

#### DRY LOT

Lot 1.	Corn meal, shorts and tankage.	Nutritive ratio 1:6. Self-feeder.
Lot 2.	Corn meal, shorts, tankage and ash.	Nutritive ratio 1:6. Self-feeder.
Lot 3.	Corn meal, shorts, tankage and ash.	"Free-choice." Self-feeder.
Lot 4.	Corn meal, shorts, tankage and ash.	Nutritive ratio widening 1:4 to 1:8. Hand-fed.
Lot 5.	Corn meal, shorts, tankage and ash.	Nutritive ratio 1:6. Hand-fed.
Lot 6.	Corn meal, shorts, tankage and ash.	Nutritive ratio 1:4. Hand-fed.

#### ALFALFA PASTURE

Lot 7.	Corn meal, shorts, tankage, alfalfa pasture and ash.	"Free-choice." Self-feeder.
Lot 8.	Corn meal, shorts, tankage and alfalfa pasture.	Self-feeder.
Lot 9.	Corn meal, shorts, tankage, alfalfa pasture and ash.	Self-feeder.
Lot 10.	Corn meal and alfalfa pasture.	Self-feeder.
Lot 11.	Corn meal, alfalfa pasture and ash.	Self-feeder.
Lot 12.	Corn meal, shorts and alfalfa pasture.	Self-feeder.
Lot 13.	Corn meal, shorts, alfalfa pasture and ash.	Self-feeder.

#### RAPE PASTURE

Lot 14.	Corn meal, shorts, tankage and rape.	Self-feeder.
Lot 15.	Corn meal, shorts, tankage, rape and ash.	Self-feeder.

in dry form. All pigs have free access to drinking water. The ash in Lots 3, 4, 5, 6 and 7 is fed according to appetite. In other lots it is given at the rate of 2½ per cent of the concentrates consumed. Accurate feed records and

weights of all lots are being kept. Lot weights are taken every ten days. The initial lot weights were averages of weights for three consecutive days. The final lot weight will be similar averages. This experiment began on August 1,

1916, and will be continued until the pigs of each lot have reached an average weight of 200 pounds. It may be thought advisable to continue Lots 3, 4, 5 and 6 beyond this limit in order to secure more accurate data. This point can only be decided correctly after considerable progress has been made.

This is a most interesting experiment and will be watched with interest by farmers who grow and fatten hogs. A good many comparisons can be made as the experiment progresses. The primary purpose was to study the economy and efficiency of adding different amounts of protein to rations in which the ash or mineral requirements have been met by feeding bone ash in definite quantities or according to appetite.

The economy and practicability of the self-feeder in pork production is a point of great interest to practical hog men and the use of self-feeders in this experiment has made possible a number of comparisons along this line. By referring to the table it will be seen that hand-feeding and self-feeding pigs in the dry lot can be directly compared. Comparisons can be made of feeding a definite mixture with self-feeding by the "free choice" method. The use of two kinds of pasture makes possible various comparisons. "Free choice" feeding in dry lot can be compared with "free choice" self-feeding on alfalfa pasture and on rape pasture.

We have heard a great deal about the experiments with self-feeders that Professor Evvard of the Iowa Experiment Station has made, and this Kansas test will furnish an opportunity to secure additional information and possibly verify some of his results as studied under Kansas conditions.

The cut shows the self-feeders in the lots on alfalfa pasture.

## Waste Acres Mean Dead Capital

**N**ON-PRODUCTIVE acres are loafer acres, and the money tied up in them is dead capital. On every farm, however, there are certain areas necessarily devoted to non-productive purposes. Fences, ditches, lanes, and building lots produce nothing themselves, but they are frequently essential to production on the rest of the farm. Nevertheless, they may occupy in the aggregate a considerable percentage of the available land. It is a part of efficient farm management to see to it that this percentage is no higher than necessary.

In this connection some interesting figures are given in a bulletin recently published by the Federal Department of Agriculture in regard to the amount of land occupied by fences of different kinds. It takes, for example, only 209 rods of untrimmed hedge to waste an acre of what might be productive land. For the same expenditure of land one can run 459 rods of woven wire and 473 rods of barbed wire. Other considerations, of course, may make it desirable to use the hedge fence, but the waste involved is a factor that should not be overlooked.

Similarly, farm lanes often may be eliminated by a simple rearrangement of fields; headlands, or turning spaces at the edges of fields, avoided; and the farmstead itself, the group of farm buildings with their lots and yards, the garden and the orchard, made compact. In the case of the farmstead, however, considerations of health and attractiveness may well justify a slight sacrifice of economy.

While a little planning often will result in the saving of much land now devoted to these unproductive uses, a more difficult problem is presented by waste land—land that is rendered untillable by swamps, ravines, rocks, slopes, etc., woodland that produces nothing salable, and pastures that are too poor to be profitable. Some areas are, of course, hopeless, and in that case they should be left out of the reckoning altogether. Before this is done, however, it will pay to look into the possibilities of profitable reclamation. Many untillable fields, for example, may be turned into pro-

ductive pastures, or if they will not grow enough grass to make this economical they can be used for the production of timber. On the other hand, it frequently happens that wood lots which yield nothing but a little fire wood for home consumption are permitted to occupy valuable land. In deciding whether such lots should be cleared and tilled, the cost of clearing, the increased value of the cleared land, the interest on the investment, the salable value of the timber products, and the added expense for firewood which will follow the disappearance of the timber must all be taken into account. With unwooded areas, the advisability of bringing them under the plow may be determined by comparing the probable cost with the market price of good arable land in the neighborhood.

Obviously, the higher the price of land rises the more incentive there is for the farmer to avoid waste in the utilization of it. It is significant, however, that the investigations of the Department of Agriculture have shown that, irrespective of the price, tenants put a greater part of their land to productive use than owners. The tenant pays rent for each acre and he cannot afford to have any of them idle. On the other hand, the man who has no rent to pay may be

able to get along on the produce of a part only of his farm, and he is, therefore, more likely to overlook the potential value of the part he wastes. By so doing he is, of course, throwing away opportunities to make money, but this is not always appreciated by those who have not grasped the important fact that the average farm is too small for maximum efficiency and that in the majority of cases to increase the size of the farm business is to increase the profits from it. Those owners, however, who, realizing this, are operating leased land in addition to their own, are, like tenants, careful to see that they pay for no loafer acres.

To anyone who is buying or leasing land, then, the important question is not "How much am I paying an acre for this tract?" but "How much am I paying for the acres that are going to work for me?" In the new bulletin it is calculated that a farm of 100 acres selling at \$100 an acre will cost the purchaser actually \$111.11 an acre if 90 per cent of it is productive and \$200 an acre if only 50 per cent of it is. As a matter of fact, the percentage of improved land in farms east of the Mississippi is only 59.5 and west of that river only 50.8. Improved land, how-

ever, it should be noted, is not always the same as productive land. A good timber lot, for example, is not improved, but it may be highly productive, and farm buildings and fences stand on land that is improved but produces nothing. In the final analysis, it is the amount of productive land that determines the earning capacity of a farm and that should, therefore, determine its price.

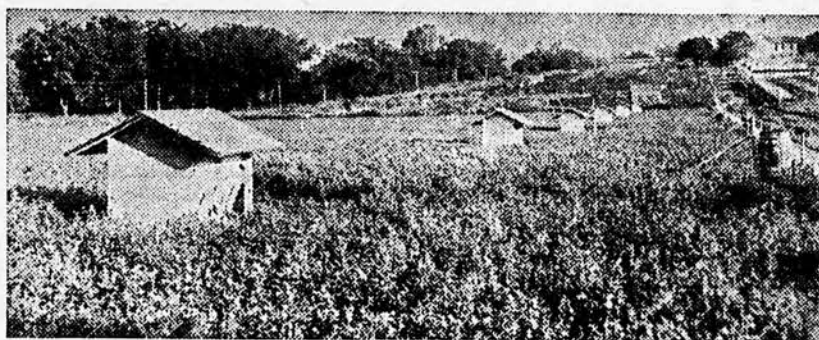
#### Losses from Smut

Smuts affecting grain and forage crops cause an annual loss to Kansas farmers of millions of dollars, according to a Kansas Experiment Station bulletin by L. E. Melchers, assistant plant pathologist. The estimated loss for 1914 alone was near eight million dollars.

The most common and serious diseases affecting the grain and forage crops of Kansas are the so-called smuts. These diseases are more or less familiar to most farmers, since they occur in all parts of the state wherever such crops as wheat, barley, oats, corn, sorghum, and millet are grown. Their importance in the regions where susceptible crops are raised is not generally known, but the loss sustained is enormous when carefully estimated. Collectively they total millions of dollars to the entire state, and individually they appreciably reduce the margin of profits.

The estimated smut loss in 1914 was divided as follows: Wheat, \$3,022,875; corn, \$3,000,000; oats, \$1,422,423; barley, \$80,974; kafir, \$392,766; broom corn, \$12,045; and millet, \$12,076.

Rains have fallen over most of the state and the volunteer wheat will now start. This is a critical time in Hessian fly control. This volunteer wheat must not be left to become infested with the fly. It will do little good to defer sowing until after the fly-free date if the field is full of volunteer wheat. The flies will lay their eggs on the volunteer as they emerge and in about three weeks the flaxseed stage will be reached. The remedy is to destroy the volunteer wheat before seeding.

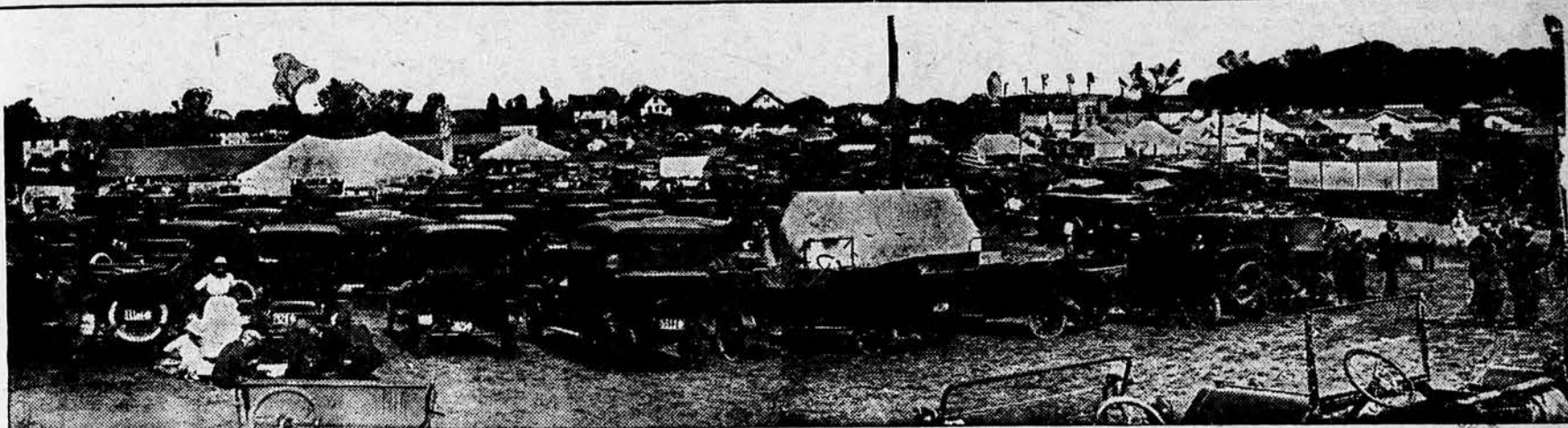


SEVEN LOTS IN PIG-FEEDING EXPERIMENT ARE ON ALFALFA PASTURE AND FED IN SELF-FEEDERS



# ALL FAIR RECORDS BROKEN

*Big Free Fair at Topeka Favored With Week of Ideal Weather*



THE BIG FREE FAIR AT TOPEKA DREW A CROWD THURSDAY THAT BROKE ALL RECORDS FOR THE TOPEKA FAIR GROUNDS.—VIEW SHOWS PORTION OF GROUNDS ON THE BIG DAY

ALL attendance records were broken at the Big Free Fair in Topeka last week. The weather was ideal. The rain of Monday laid the dust and put the grounds in the finest of condition. The people began pouring in early in the week by special trains and in automobiles. On Thursday, the big day, the attendance was variously estimated at from 50,000 to 70,000. Whatever the actual number might have been, it was evident that never in the history of the Topeka Fair had so many people been packed in the grounds. Parking space for automobiles was at a premium, both with the grounds and on the outside. It was only through the most strenuous efforts of the guards that enough lanes were kept open to permit the passage of either cars or people on foot.

People in Eastern Kansas appreciate a big fair such as is held in Topeka and will attend in large numbers if the weather is so they can get there. Exhibitors who came from Lincoln, Nebraska, said they thought they had witnessed a record in automobile attendance at the Nebraska State Fair, but it was far outclassed on Thursday when the greatest number of cars were out at the Topeka Fair. The space around the exhibits in every department were so crowded it was difficult to see them with any degree of satisfaction. Those who exhibit at big fairs are never so happy as when people are crowding the buildings and keeping them busy answering questions. This is one of the important reasons why exhibitors like the free fair. They go to fairs to show their exhibits and they do not continue exhibiting where the attendance is not large.

The Topeka Fair, so far as we know, is the only big fair in the United States having a free gate. This is made possible by Shawnee County levying a tax for the payment of premiums in all departments except the racing. The state also makes an appropriation. This financial support insures the payment of all premiums in full, whatever the weather may be. Funds for other expenses are provided by the 25 cents admission to the quarter stretch and the seat charge in the grand stand for the races. The horse show, which was held in front of the grand stand each evening, was one of the entertainment features, and a 25-cent charge was made for admission to the grand stand. The sale of concessions also brings in money for general fair expenses. The horse show brought out some of the finest horses in the United States. Miss Loula Long, daughter of the Kansas City millionaire, R. A. Long, and O. J. Mooers of Columbia, Mo., furnished most of the competition. R. L. Davis of Kansas City, Mo., and Tom Bass, Mexico, Mo., showed strong strings of saddlers. Mr. Bass gave nightly exhibitions with his famous high school mare, Belle Beach. This mare waltzes, bows to the audience, and performs other remarkable tricks. No one was kept away from the horse show on account of the high cost of seats. The price of 25 cents was within the reach of all and the grand stand was well filled each night.

To reach the live stock buildings it was necessary to go through a wilder-

ness of carnival shows and concessions, but these barns were crowded from morning until night. The showing of drafters made by farmer-breeders was a most encouraging feature of the horse department. It is on the farms that draft horses must be bred and Kansas farmers are each year improving the type of horses grown by using better mares and stallions for breeding purposes. A. P. Loomis of Diamond Springs had the champion Percheron mare, the yearling Francine, bred and raised on the farm. Mr. Loomis brought his mares right from the farm work with almost no fitting. He also won first on group of three mares bred and owned by exhibitor. J. R. Albert, another farmer-breeder from Mitchell County, made a strong showing. He won first on stallion and group of four mares and the exhibit was a most striking demonstration of what can be done in developing high-class drafters by staying with the business. W. E. Dustin of Alma showed a splendid filly under a year old and won the blue in a strong ring. The aged stallion ring was a strong one, several imported mares being shown, among them being Isola, winner of the championship at Hutchinson last year. D. F. McAllister's horse, Improver, headed the class. Mr. McAllister is a farmer-breeder from Shawnee County. The two-year-old, Vandome, shown by Woods Bros. & Co., was made champion stallion, any age. This iron gray two-year-old is an almost perfect type of drafter. Belgians were shown by the firm of David Cooper & Son of Freeport, Kansas. They have a lot of high class horses of this breed. The only class in which they failed to win the blue was in the aged stallions, which was won by Woods Bros. & Co. on the massive bay stallion, Adolfe. He was also made champion stallion.

A class which should have been better filled was that for grade draft geldings and mares. Over \$500 was offered in this classification and only four exhibitors made entries. Farmers having good grade drafters should have filled these classes and made them a strong feature of the draft horse show. Perhaps it was not generally known that the fair association had made such a classification. We hope it will be continued and given plenty of publicity next year. Thomas Gray of Lyndon was the most successful contestant in the grade classes. Prof. W. L. Carlyle of Oklahoma Agricultural College judged the draft horses and his decisions were well taken. He is one of the best judges of draft horses in the United States. In the same barn with the ponderous drafters were the Shetland ponies. This section of the barn was so crowded with children most of the time that it was almost impossible to get through. R. T. Kreipe of Topeka had some nice ponies. Mrs. R. J. Foster and Dr. A. B. Jeffries, both of Topeka, also had Shetlands. D. J. Welty of Nevada, Iowa, had the largest strong of ponies. The raising of ponies is not a mere fad. Their educational value to children is sufficient reason for growing them. The child that can have a pony to raise and train will learn many valuable lessons.

All beef breeds of cattle were represented by strong herds. There were no

"tail-end" exhibits. Four Kansas herds and three from other states made the Shorthorn show. They were judged by T. G. Patterson of St. Paul, Minn. Diamond Emblem, owned by T. J. Dawe, Troy, Kansas, a bull of splendid beef type, was made senior champion, but was defeated for the grand championship by Village Marshall, the senior yearling bull shown by Tomson Brothers of Dover and Carbondale. This white bull was shown in the pink of condition. H. H. Holmes of Great Bend made his usual good showing, but was forced to see his cow, Crystal Maid, defeated by the remarkably smooth red cow shown by Herkelman of Iowa. The grand champion female was the junior heifer calf, Barmpton Flower, belonging to Rapp Brothers of St. Edwards, Neb. There were no special Kansas classes this year. The Kansas breeders seem fairly well able to hold their own with the outside breeders, so perhaps the fair managers were justified in leaving out this classification. R. H. Hazlett of El Dorado, Kansas, and W. L. Yost of Kansas City, Mo., fought for premier honors in the Herefords. They were furnished plenty of competition by Klaus Bros., Bendena, Kansas, Carl Miller, of Belvue, Jesse Engle & Sons, Sheridan, Missouri, and L. J. Smith of Pleasant Hill, Missouri. This was Mr. Miller's first experience in showing, but he made a most creditable exhibition of the class of stock he is breeding on his well equipped ranch in Wabaunsee County. Hazlett's bull, Bocaldo 6th, won the grand championship. Yost had the grand champion cow. Kansas has some of the strongest Galloway herds in the country. H. & G. Croft of Bluff City contended with O. H. Swigart & Sons of Salisbury, Missouri, for the honors in this breed. The ribbons were about equally divided. Croft had grand champion bull, junior champion bull and junior champion heifer. Swigart had the grand champion cow and took first on aged herd and get of sire. Angus cattle have been coming to the front in recent years and the showing of this breed was fully up to the standard of the other beef breeds. L. R. Kershaw of Muskogee, Oklahoma, had the grand champion bull, and D. K. Robertson & Sons of Madison, Nebraska, the grand champion cow.

Kansas breeders have been making quite a record in showing Polled Durham cattle at the various big fairs. As was expected, True Sultan, belonging to Ed Stegelin, was the grand champion bull at the Topeka Fair. Stegelin's senior yearling, Princess Sultana, was made grand champion cow. Achenbach Bros.' cow, Sultana, was the senior champion cow. The splendid showing made by breeders of these hornless Shorthorns will tend to bring them more and more into public favor.

Nearly all the beef herds on exhibition had fat steers. The Agricultural College of Kansas had nine head and won the championship on King Dale, a Shorthorn steer bred and fitted on the college farm.

While the total number of dairy cattle was not equal to the show of last year, this department was better balanced, in that all breeds were well represented

with strong herds. In the Guernseys W. W. Marsh of Waterloo, Iowa, carried off the championship in both bulls and cows. The Wilcox & Stubbs herd won a number of firsts. Fair visitors at Topeka have never before been able to see such a representative collection of animals of this breed. The Ayrshires also were well represented. Dr. F. S. Schoenleber of Manhattan had a full herd and also William Galloway of Iowa. These two herds gave visitors a good chance to study this breed. The two herds are of rather different type. The judge in his awards followed the type represented in the Galloway herd. This herd has much to commend it as a dairy breed. They are hardy and will do well under adverse conditions.

The three butter fat contests closed Thursday night. The Genoa Indian School won both in the aged cow and the three-year-old classes for Holsteins. In addition to the regular prizes they won the silver cup offered by The Kansas Farmer Company for the cow or heifer, any age or breeding, making the best showing in this test. This cup must be won three times in succession before becoming the permanent property of the winner. A full account of this contest will be given in a later issue.

The sensation of the hog show was the 1,040-pound boar, Caldwell's Big Bob. His owner, Fred B. Caldwell, of Howard, Kansas, purchased him from H. B. Walter of Effingham, Kansas, last fall. This eighteen-months-old boar is an example of the wonderful progress that has been made in combining size with quality and early maturity in the Poland China breed. Mr. Walter, the breeder of this animal, and his fitter, Mr. Caldwell, may well be proud of the results of their skill. The present plans are to take this boar to the National Swine Show at Omaha the first week in October. While this boar was an outstanding feature of the Poland China show, all the herds on exhibition were of high quality and in excellent condition. Erhart & Son of Ness City won most of the futurity events. Walter won get of sire, Caldwell's Big Bob being included in the group shown. The Deming Ranch herd in charge of H. O. Sheldon, attracted much attention. Olivier's aged herd bred by exhibitor was an excellent demonstration of Poland China progress. There were 183 Polands shown. Duroc Jerseys to the number of 146 were shown, eight herds being represented. The hog show all through was characterized by the high quality of the exhibits. Lack of space prevents further comment.

All who visited the Art Hall, which is one of the substantial permanent buildings on the Topeka Fair grounds, will testify to the attractiveness and the interesting features therein contained. Here the culinary art and textile fabric exhibits were housed, also the Sunday School exhibit, that of Washburn College, Kansas Department of Labor and Industry, Kansas Boys' Industrial School, Metropolitan Life Insurance Company, etc. The story of these departments will be found on the editorial page in this issue. Live stock are given on other pages of this issue.



**Get the Grain in Right**



**WON HIGHEST AWARD**  
PANAMA-PACIFIC INTERNATIONAL EXPOSITION SAN FRANCISCO 1915

**Empire Jr., Hoosier, and Kentucky Grain Drills**

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No matter whether the ground is hard or soft, gravel or clay, smooth or rough, level or hilly, there is an Empire Jr., Hoosier, or Kentucky drill that will plant your seed as it should be planted.

The value of drilling in the seed shows at market time. The grain grades higher and brings a better price. There is more of it, and that again gives you more money. An Empire Jr., Hoosier, or Kentucky drill has a remarkable effect on net profits.

For any soil and for any seed, from alfalfa and grass seed up to the size of beans, sown with or without fertilizer, buy and use an Empire Jr., Hoosier, or Kentucky drill. Do that, and you can't go wrong.

Sold by IHC local dealers everywhere, who will give you any information you need to buy the best drill for your work, or, write us for catalogues.

**International Harvester Company of America**  
(Incorporated)  
**CHICAGO USA**  
Champion Deering McCormick Milwaukee Osborne Plano

**WAIT!**  
**Don't Burn That STRAW!**

It's ready!  
A postal gets it!  
Proof positive that every ounce of your straw is worth \$2.50 to \$3.80 a ton—when spread. Read how farmers increase crops—renew heavily cropped soil—prevent "soil blowing" and "winter kill"—with the Simplex.

Say! It's the most convincing stuff you ever read! Write me at once! Get this straight from farmers who are making \$150.00 to \$500.00 cold cash profit—besides paying for the Simplex. Every season, too!

Money they never made before! Everything free as the air you breathe! Letters and facts and figures—and my big Straw Spreader Catalog. I'll even send you a brand new

**Simplex Straw Spreader**  
**Free For 30 Days' Trial**

Yes Sir! Absolutely Free—on your own farm—at my risk—without a penny in advance. Never was so enthusiastic in my life. Why, man—I've proof here that would convince an Egyptian Mummy! It's astounding! Don't worry about paying. I'm not asking you for money. Your credit is good with me! You can take

**365 Days to Pay!**

Straw as a fertilizer—conserver of moisture—preventive of "soil blowing"—is worth \$2.50 to \$3.80 a ton. No excuse now for not spreading.

Just think! 20 feet at a time. 20 acres a day! Why in 3 working days the Simplex wipes the

state clean—pays for itself. Fits high or low, wood or iron wheel wagon. Has double-drive and double-width carrier! Lasts a lifetime!

Thousands in use! Man, you simply can't do without it. Simply see it!

**Write for Big Private Offer**  
Two first men in township who write, get it. Something unusual, (in addition to liberal 30 day free trial and 100-p-p time credit.) Can't tell it here—only in a letter. Makes paying so easy you literally get a brand new Simplex for nothing. But hurry! "First two men" goes—and no favorites.

Write that postal! Get the big book—the wonderful testimony—the special private offer—NOW!

**MANSON CAMPBELL, President**  
**MANSON CAMPBELL COMPANY,**  
521 Traders Bldg. Kansas City, Mo.

**30 DAYS FREE TRIAL!**

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## Kansas Farmer Dairy Club

### Perseverance Won For Her

**I**n our August 12 issue we printed an interesting letter received from Theresa O'Mara, Anderson County, telling of her search for a cow with which to enter the Dairy Club. Since that time we have received two more letters from her, and as they show so plainly the effort made to get a good cow, and the inconvenience experienced, we are herewith giving both these letters:

"I received your letter inquiring whether I had purchased a cow for the club work. The cow I had in view was examined by a veterinarian and found to be all right. I took her home only to find that I was unable to milk her. I have milked eight cows, but this one was such a hard milker that it took two of us and then she only gave thirteen pounds. Her owner had informed me she gave three and one-half gallons. She was not only hard to milk, but she kicked and we had to tie her feet in order to milk her.

"After keeping her a while I complained to the man from whom I bought her and wanted him to take her back. He refused to take her back unless compelled to do so. After a week had passed he made me this offer—return the cow and pay fifty cents a day from the time I bought her until the day I told him I was unable to milk her. I felt that his terms were unjust, but rather than have any trouble I returned the cow and gave him \$4.50.

"After all this experience I decided to give it up, knowing it would be too late to look for another cow, but when I read in the last KANSAS FARMER that members could start with a dry cow, I phoned to Mr. J. C. Robison and he told me the cow I wanted when there would freshen within a very short time. He will ship her today. This cow he priced at \$150, but when he learned what I wanted her for and the amount the bank would allow, he told me I might have her for \$135. I will see our banker about this today.

"Would like to have scales for this work and will remit for same as soon as I hear from you."

This is the letter received five days later:

"I am glad to be able to tell you that I have secured the Holstein cow from Mr. Robison. I brought her home August 31. I do not know when she is due to calve but it will probably be two weeks. However, I started my feed record on the morning of September 1.

"I will make out the agreement blank at once, and will send the 'Notice of Starting Record' blank as soon as the cow freshens.

"I have secured the sample bottles and the tablets.

"I have all the KANSAS FARMERS except the May 13 issue. Will you kindly send me a copy of this?"

### Disappointed In His Cow

We were very sorry to receive the two following letters from Paul Studdard, Leavenworth County:

"When I started my record July 1, I expected my cow to be fresh in February, but she just came in heat again. Would it be advisable for me to stay in the contest?"

A few days later this letter was received from him:

"I regret to say that I have been unable to get another cow before September 1.

"I intend to keep records till my cow is paid for anyway. Shall I make reports to you, as I intend to make them to the bank?"

"I wish the contest success."

We have written Paul urging him to consider himself a full-fledged member of the Dairy Club still, since he is willing to keep sending his reports to us. Even though he does not finish the year's work at the head of the list, he will be able to get much good out of the club work and we know the other members of the Dairy Club will be glad to hear from him in these columns. He has been much interested from the start and has done his work well.

Now that the weather is cooler, your cow should be more comfortable, should have a better appetite and should give more milk than she did during the extreme heat.

## Kansas Farmer Dairy Club

Name of Contestant Alice Austin Name of Cow Beauty

Postoffice Goodland Ks. R. F. D. 3

For Month Ending June 30, 1916

### Feed Record

Date	Com	Chop	Kafir	Milo	Oats	Kafirhead	Barley	Cottonseed	Lusseed	Oil Meal	Com and	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.								
1																			
2																			
3	9							5	2.5							15	30		
4	9.5							5	2.5							15	30		
5	10							5	2.5							15	30		
6	11.5							5	2.5							15	30		
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28																			
29																			
30																			
31																			
Total Pounds	224							113	55							330	660		
Total Value	\$2.30							\$1.18	\$1.10							\$1.32	\$1.16		

Notes: Chop figured @ \$1.25  
Barley " " 1.05  
Cottonseed meal 2.00  
Relase 3.50  
Alfalfa 8.00

Total grain for month, lbs. 392 Value \$5.08  
Total roughage for mo., lbs. 990 Value \$2.48  
Pasture, No. of days..... Value \$.....  
Total value of feed: ..... \$7.56

Charge all purchased feeds at actual cost. For farm-grown feeds, use prices given on sheet showing uniform feed price schedule. If feeds not shown are used, write in blank spaces at head of columns. Weigh all grains. Estimate roughage.

**T**HIS is the form in which we would like to have your monthly feed record come to us. By listing the different feeds and the prices paid for each, it makes it possible for us to verify the values. We hope you will save this page and refer to it when you make our copy of your feed record.





## Importance of Fall Plowing

**R** EPORTS coming in indicate that the amount of fall plowing done this year is only about one-fifth of what it was last year at this time. It has been estimated that the total crops for this year will not be as great as they were last. We can take this to mean that prices of farm products will maintain a high level until the next crop is marketed. We can also deduce from these statements that good prices can be expected for the next crop because of the small surplus. Even though a bumper crop should be harvested next year, it is not likely that prices will be materially lowered.

The dry weather that has continued up to the present time has kept many from fall plowing. Now that general rains have softened the soil, this work can begin, and we believe it should be rushed and all the fall plowing possible should be done before the weather gets too cold.

Putting off plowing that can be done this fall until the spring may mean a reduction in the crop production of next year. No one can prophecy what kind of weather we will have. It may be a wet or it may be a dry spring. If the season happens to be wet as it was last year, the chances are very much against getting all of the plowing properly done in the spring. There certainly will not be proper time to compact the ground into the proper seed bed for spring crops.

On account of the wet and lateness of last spring, thousands of acres of good farm land did not turn the owners one cent in revenue because of their inability to plow them. These patches of land are growing a bountiful crop of weeds. There will be disappointment in the crops grown on these fields next year unless the weeds are prevented from getting the start of the crop.

The fall rains that have recently fallen have put the ground in ideal condition for plowing, much better than it has been for years, for the simple reason that there is not too much moisture in the ground to interfere with the proper aerating while plowing. Those who take it upon themselves to get into the field as soon as possible and plow the ground while it is in the present condition, will greatly profit in crop grown next season.

Those who fall plowed last year when the ground was in the wet condition, complained that their crops this year were lighter than they should be.

This can largely be accounted for by the excessive moisture in the ground last fall, winter and spring. It is reasonable to assume that Nature could not make the proper plant food when it was needed on account of the superabundance of moisture. It is also reasonable to assume that much of the nitric acid necessary in the formation of plant food was washed away and formed into other compounds, making it unavailable for the plants.

Farmers who plow this fall will not have this condition to meet. If they plow deep, bury all trash, stubble and weeds at the bottom of the furrow, they will be doing themselves the greatest possible good that can be done. Fall plowing is a profitable practice all over Eastern Kansas and we believe more of it should be done rather than less.

### Hessian Fly Not Killed

Within the last few days many inquiries have come to the Department of Entomology asking whether the dry, hot weather of the summer has killed the Hessian fly that was left in the flaxseed stage in the stubble at harvest time. Many of the growers believe they have perished. Again, a large number of persons believe that because there is so little volunteer wheat in most parts of the state this year, there will be no Hessian fly to injure the coming crop of wheat. The department has kept in close touch with the situation and can state positively that most of the fly is still alive. The dry, hot weather which has prevented volunteer wheat from coming up in nearly all parts of the state, has also prevented the emergence of a summer brood of Hessian fly. However,

the majority of the flaxseeds in the stubble are still alive and, in the districts of the state that have had rain, they are transforming to and emerging as flies. The flies will continue to emerge up to the first week in October in the northern part of the state and to the middle of October in the southern part. The females will lay their eggs on the early sown wheat or any volun-

teer that may come up. In the districts of the state that are still dry, very few of the flies have emerged. Should it continue to remain dry, they may not emerge this year but probably will remain alive in the flaxseed stage to emerge next spring during the first weeks in April, and thus late sown wheat that has escaped the fly in the fall may become infested in the spring.

The fact that there is so little volunteer wheat this year should help very much in the control of the fly because the destruction of all volunteer wheat is one of the essential things in preventing Hessian fly injury. Had it been possible to plow the stubble under early in the season, covering it with at least three inches of soil, the fly would have been unable to emerge. The methods of control to practice now are to keep all vol-

unteer wheat destroyed and to delay the sowing just as long as one can without taking too much risk of sowing too late for good yields. The fly-free date varies from September 30 in the north part of the state to October 12 in the south part. It should be remembered that the better the seed bed is prepared, the safer it is to wait until the fly-free date. Again, it should be understood that wheat sown on ground plowed in September cannot be expected to yield as well as the wheat sown on ground that was plowed in July and early August and a good seed bed prepared. Many that sow late on poorly prepared seed beds are apt to blame a decrease in yield to the late sowing and not take into consideration the poor preparation of the seed bed.—GEO. A. DEAN, Entomologist, Kansas Experiment Station.

## Hudson Now Holds World's Greatest Hill-Climbing Record

### Makes Fastest Time Up Pike's Peak

No hill-climb or mountain test in the world equals that imposed on motor cars that race to the summit of Pike's Peak. A Hudson Super-Six Special made the best time of more than 20 contestants to the top of America's most famous mountain, over the longest, steepest, highest travelable road in the world.

The start, at a mile and three-quarters above the sea, is higher by far than is the altitude of the finishing line in most hill-climbs.

The finishing point of Pike's Peak is almost two and three-quarters miles above sea level. In the twelve and a fraction miles of the course there are 60 turns, and the rise is almost one mile high. There is no place where the car is not climbing.

The high altitude affects the power efficiency of the motor and water boils at such low temperature that motors cannot be cooled as they are in lower levels.

### Hudson Fastest Time

The Hudson climbed up this winding steep road to the "Top of the World" in 18 minutes, 24 seconds. Its time was 2½ minutes faster than the next fastest car.

This feat now gives to Hudson practically every worth-while record. In speed—when 102.3 miles an hour was attained at Daytona; in endurance—when 1819 miles were covered in 24 hours, with a stock Super-Six chassis we established marks not likely soon to be equalled.

Now we have added to these the greatest of all hill-climbing feats. In it we have shown the endurance of the Super-Six.

### Others Failed

Motors of some of the most famous racing cars in the world were unable to withstand the strain of that climb and so did not get to the summit.

It is constant hard pulling all the way and more than three-quarters of the distance must be made in second speed, even with specially geared cars.

In addition to mere climbing, as is required in all hill-climbs, here is added the difficulties of carburetion and cooling.

The altitude that affects one's breathing so much that even the strongest man can stand only the least amount of physical exertion, has a similar effect in reducing the power of the motor.

We made that record in a contest in which were entered, as described by a Denver newspaper, "Fours—Sixes—Eights—Twelves and Super-Sixes."

And, as in all tests in which they have been entered, the best performance was shown by the Super-Six.

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HUDSON MOTOR CAR COMPANY, DETROIT, MICH.





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of letters from satisfied users of the Caloric Pipeless Furnace from all over the country. City convenience and comfort are yours with very little expense. You do not have to cut your house up for pipes because the Caloric heats thoroughly with just one register. The



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burns coal, coke and wood and is guaranteed to save 35% of your fuel. In a short time it pays for itself. There are no pipes to waste heat or cause a fire and the air in the house is kept in constant circulation which is an aid to your health. The triple casing on the Caloric prevents the cellar from becoming heated, thus saving produce and canned goods.

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If your dealer cannot show you the Caloric Pipeless Furnace, send your name and address and we will immediately send you our free book. Don't delay. Write now.

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BONNER SPRINGS - - - KANSAS

T. E. Durbin of King City, Mo., writes that his Poland China herd is doing fine. Mr. Durbin is one of the constructive Poland China breeders and has built up a herd that has attracted the attention of the breeders throughout the corn belt. The blood lines of his herd are the best of the breed and at this time he has one of the best lots of young stock in the history of the herd. A lot of them were sired by the great boar, Trusty King. Others by sons of Long Big Bone, grand champion at Iowa State Fair, 1916. They are out of such dams as Wonder Jumbo 3d, the dam of Trusty King, King's Queen and Queen of All, sisters of Trusty King, Big Wonder Maid D. There are also spring litters out of dams by Big Bob, Big Orange, Ott's Big Orange and Long King's Best and other great boars. Some of the litters in this herd averaged 170 pounds at 140 days of age. Mr. Durbin has claimed October 27 as the date of his annual fall sale and will catalog fifty-four head of tops for the sale.

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# TOPEKA FAIR AWARDS

## HORSE AWARDS.

Judge, W. L. Carlyle, Oklahoma Agricultural College, Stillwater, Okla.

Stallions, Four Years and Over—1, D. F. McAllister, Topeka, Kan.; Improver; 2, Woods Bros. & Co., Lincoln, Neb.; Matchless; 3, Woods Bros. & Co., Morral; 4, Woods Bros. & Co., Look; 5, Lyon County Percheron Horse Breeders' Association, Emporia, Kan.; Isola.

Stallions, Three Years and Under Four—1, Woods Bros. & Co., Anatole Francis; 2, William Branson & Sons, Overbrook, Kan.; Hector; 3, Woods Bros. & Co., Melitar; 4, A. P. Loomis, Diamond Springs, Kan.; Imperial.

Stallions, Two Years and Under Three—1, Woods Bros. & Co., Vandome; 2, P. G. McCulley & Son, Princeton, Mo.; Hubert; 3, Woods Bros. & Co., Ictorn; 4, Woods Bros. & Co., Haynes.

Stallions, One Year and Under Two—1, Woods Bros. & Co., Freedom; 2, J. R. Albert, Glen Elder, Kan.; Creole; 3, Bruce Saunders, Holton, Kan.; Instance.

Stallions, Under One Year—1, W. E. Dustin, Topeka, Kan.; Claymott; 2, P. G. McCulley & Son, Woodrow; 3, Lyon County Percheron Association, Isola 2d.

Mares, Four Years and Over—1, A. P. Loomis, Jugale; 2, J. R. Albert, Helene; 3, J. R. Albert, Gaychette; 4, A. P. Loomis, Dove.

Mares, Three Years and Under Four—1, J. R. Albert, Rosella.

Mares, Two Years and Under Three—1, J. R. Albert, Stella May; 2, A. P. Loomis, Dovine; 3, P. G. McCulley & Son, Favorite.

Mares, One Year and Under Two—1, A. P. Loomis, Francine; 2, W. E. Dustin, Lula; 3, W. E. Dustin, Alma; 4, Lyon County Percheron Association, Isola 2d.

Mares, Under One Year—1, W. E. Dustin, Kansas Bell; 2, A. P. Loomis, Allene; 3, J. R. Albert, Evelena; 4, Lyon County Percheron Association, Americanette; 5, Bruce Saunders, Mirinda.

Champion Stallion—Woods Bros., Vandome.

Champion Mare—A. P. Loomis, Francine.

Four Animals, Any Age, Either Sex—1, J. R. Albert; 2, W. E. Dustin; 3, Lyon County Percheron Association.

Two Animals, Any Age, Either Sex—1, A. P. Loomis; 2, J. R. Albert; 3, P. G. McCulley & Son.

Stallions and Four Mares, Any Age—1, J. R. Albert; 2, A. P. Loomis; 3, Lyon County Percheron Association.

Five Stallions, Any Age—1, Woods Bros., Lumes, Matchless, Marzall, Look, and Anatole Francis; 2, Woods Bros., Vandome, Millar, Haynes, Freedom and Ictorn.

Kansas-Owned Stallion, Four Years and Over—1, D. F. McAllister, Improver; 2, Lyon County Percheron Association, Isola; 3, J. R. Albert, Bismuth; 4, C. R. Soward, Baldwin, Kan.; Dorman.

Kansas-Owned Stallion, Three Years and Under Four—1, William Branson & Sons, Hector; 2, A. P. Loomis, Imperial.

PERCHERON SPECIALS  
Offered by the Percheron Society of America on horses bred and owned by exhibitor.

Stallion, Three Years and Over—1, Lyon County Percheron Association, Major.

Stallion, Under Three Years—1, P. G. McCulley & Son, Hubert; 2, J. R. Albert, Creole; 3, Lyon County Percheron Association, Hylo King.

Champion Stallion—P. G. McCulley & Son, Hubert; reserve champion, J. R. Albert, Creole.

Three Mares, Any Age—1, J. R. Albert, Tomantha; 2, J. R. Albert, Rosella; 3, Lyon County Percheron Association, America.

Mares, Under Three Years—1, A. P. Loomis, Francine; 2, J. R. Albert, Rosella; 3, A. P. Loomis, Dovine.

Champion Mare—1, A. P. Loomis, Francine; reserve, J. R. Albert, Tomantha.

Get of Stallion, Four Colts, Either Sex—1, J. R. Albert; 2, W. E. Dustin; 3, Lyon County Percheron Association.

Produce of Mare, Two Colts, Either Sex—1, A. P. Loomis; 2, J. R. Albert; 3, P. G. McCulley & Son.

Champion Stud, Stallion and Four Mares—Mares Only Bred by Exhibitor—1, J. R. Albert.

Five Stallions, Owned by Exhibitor—1, Woods Bros., Lumes, Matchless, Marzall, Look and Anatole Francis; 2, Vandome, Millar, Haynes, Freedom and Ictorn.

Best Three Mares, Owned by Exhibitor—1, A. P. Loomis, Jugale, Francine and Allene; 2, J. R. Albert, Helene, Gaschette and Tomantha.

Champion Stallion, Open Class—Woods Bros., Vandome; reserve, Woods Bros., Freedom.

Champion Mare, Open Class—A. P. Loomis, Francine; reserve, A. P. Loomis, Jugale.

BELGIANS  
Judge, W. L. Carlyle, Stillwater, Okla.

Stallion, Four Years and Over—1, Woods Bros. & Co., Lincoln, Neb.; Adolphe; 2, David Cooper & Son, Freepot, Kan.; Norville Matchless; 3, Cooper & Son, Borgas; 4, Cooper & Son, Mayenor de Scammon.

Stallion, Two Years and Under Three—1, Woods Bros. & Co., 2 and 3, Cooper & Son, Cleo and Spol Jr.

Stallion, One Year and Under Two—1, David Cooper & Son; 2, Woods Bros., Carnival; 3, Cooper & Son, Cretaine.

Stallion, Under One Year—1 and 2, Cooper & Son, Mare, Four Years and Over—1, 2, 3 and 4, Cooper & Son.

Mare, Three Years and Under Four—1 and 2, Cooper & Son.

Mare, One Year and Under Two—1, Cooper & Son.

Mare, Under One Year—1 and 2, Cooper & Son.

Champion Stallion—Woods Bros., Adolphe.

Champion Mare—Cooper & Son, Silvy.

Get of Sire, Four Animals—1, 2, Cooper & Son.

Produce of Mare, Two Animals—1, 2 and 3, Cooper & Son.

Stallion and Four Mares, Any Age—1 and 2, Cooper & Son.

Five Stallions, Any Age—1 and 2, Cooper & Son.

Kansas-Owned Stallion, Four Years and Over—1, 2, 3, and 4—Cooper & Son.

FRENCH DRAFT  
Judge, W. L. Carlyle, Stillwater, Okla.

Stallion, Four Years and Over—1, Woods Bros., Lincoln, Neb.; Percy.

Stallion, Three Years and Under Four—1, Woods Bros., Canale.

Stallion, Two Years and Under Three—1, Woods Bros., Illino.

Mare, Four Years and Over—1, McCulley & Son, Fanny.

Mare, One Year and Under Two—1, McCulley & Son, Opal.

Champion Stallion—Woods Bros., Percy.

Champion Mare—McCulley & Son, Fanny.

PURE-BRED DRAFT TEAMS  
Stallions or Mares, Any Age, Pair Hitched—1, Loomis, Diamond Springs; 2, Albert, Glen Elder; 3 and 4, McCulley & Son, Princeton, Mo.

GRADE DRAFT MARES AND GELDINGS  
Mare or Gelding, Four Years and Over—1, Thomas Gray, Lyndon, Kan.; Floss; 2, Thomas Gray, Fred; 3, Robert Pierce, Topeka, Kan.; Dick; 4, Robert Pierce, Little Dick.

Mare or Gelding, Three Years and Under Four—1, Lyon County Percheron Horse Breeders' Association, Queen; 2, Thomas Gray, Flora; 3, William Bradbury, Topeka, Kan.; Black Gelding.

Mare or Gelding, Two Years and Under Three—1, W. E. Dustin, Topeka, Kan.; Maud; 2, Lyon County Percheron Association, Nell.

Mare or Gelding, One Year and Under Two—1, Lyon County Percheron Association, Babe.

Mare or Gelding, Under One Year—1, Lyon County Percheron Association, Laura.

Farm Team, Four-In-Hand, 6,400 Pounds or Over—1, Thomas Gray; 2, 3 and 4, Pierce.

Farm Team, Pair, 3,200 Pounds or Over—1 and 2, Gray; 3 and 4, Pierce.

JACKS AND JENNETS  
Judge, Frank Graham, Kansas City, Mo.

Jack, Four Years or Over—1, Bruce Saunders, Holton, Kan.

Jack, Three Years and Under Four—Saunders.

Jack, Two Years and Under Three—1, F. A. Barney, Silver Lake, Kan.; 2, Saunders.

Jack, One Year Old and Under Two—1 and 2, Saunders.

Jack, Under One Year—Saunders.

Jennet, Four Years or Over—1, Barney; 2, Saunders.

Jennet, Two Years and Under Three—1 and 2, Barney; 3, Saunders.

Jennet, One Year and Under Two—1, Saunders.

Jennet, Under One Year—1, Barney; 2, Saunders.

Champion Jack—Bruce Saunders, Deacon.

Champion Jennet—Barney, Belle of Waverly 3d. Get of Sire, Four Animals—1, Saunders. Produce of Jennet—1, Barney; 2 and 3, Saunders. Jack and Four Jennets, Bred by Exhibitor—1, Barney; 2, Saunders. Five Jacks Owned by Exhibitor—1, Saunders.

## CATTLE AWARDS.

### SHORTHORNS.

Judge, Thomas Patterson, St. Paul, Minn.  
Bull, Three Years or Over—1, T. J. Dawe & Sons, Troy, Kan.; Diamond Emblem.

Bull, Two Years and Under Three—1, William Herkelman, Elwood, Iowa, Cumberland Standard; 2, W. A. Forsythe & Sons, Greenwood, Mo.; Fair Acres Stamp; 3, H. H. Holmes, Great Bend, Kan.; Clipper Bravith.

Bull, Senior Yearling—1, Tomson Bros., Carbon-dale, Kan.; Village Marshall.

Bull, Junior Yearling—1, Rapp Bros., St. Edwards, Neb.; Royal Pride; 2, W. A. Forsythe & Sons, Village Courtier; 3, Rapp Bros., Pride's Master; 4, W. A. Forsythe & Sons, Village Valentine 5th; 5, William Herkelman, Hopeful Sultan.

Bull, Senior Calf—1, John Regier, Whitewater, Kan.; Calumet; 2, William Herkelman, Red Cumberland 2d; 3, Tomson Bros., Color Bearer; 4, W. A. Forsythe & Sons, Valentine Stamp; 5, W. A. Forsythe & Sons, Choice Magnet; 6, William Herkelman, Village Cumberland; 7, H. H. Holmes, Honorable.

Bull, Junior Calf—1, Rapp Bros., Gloucester Pride; 2, William Herkelman, Cumberland Goods 2d; 3, William Herkelman, True King; 4, Rapp Bros., Pride's Emblem; 5, T. J. Dawe & Sons, Superior Roadside; 6, William Herkelman, Cumberland's Pride; 7, W. A. Forsythe & Sons, Violet's Choice.

Cow, Three Years or Over—1, William Herkelman, Lady Devergoyl; 2, H. H. Holmes, Crystal Maid; 3, H. H. Holmes, Honor Maid; 4, T. J. Dawe & Sons, Fair Missie.

Heifer, Two Years and Under Three—1, Rapp Bros., Trilby Allen; 2, W. A. Forsythe & Sons, Violet Queen 2d; 3, T. J. Dawe & Sons, Maxwellton's Lavender 2d; 4, William Herkelman, Larissa Pride; 5, H. H. Holmes, White Valentine.

Heifer, Senior Yearling—1, Tomson Bros., Augusta 10th; 2, Tomson Bros., Toney 20th; 3, Tomson Bros., Mayflower 4th; 4, William Herkelman; 5, Rapp Bros., Village Blossom; 6, T. J. Dawe & Sons, Lily 2d; 7, H. H. Holmes, Lady of Riverside 2d.

Heifer, Junior Yearling—1, William Herkelman, Village Beauty; 2, Rapp Bros., Sweetheart; 3, Ham Herkelman, Sweet Mildred; 4, H. H. Holmes, Riverside Lady; 5, T. J. Dawe & Sons, Nonpareil E; 6, W. A. Forsythe & Sons, Arlington; 7, W. A. Forsythe & Sons, Violet May.

Heifer, Senior Calf—1, Tomson Bros., Victoria 2d; 2, T. J. Dawe & Sons, Lace Rose; 3, Rapp Bros., Pride's Fancy; 4, John Regier, Dale Victoria; 5, H. H. Holmes, Riverside Princess; 6, William Herkelman, Sultan Lady; 7, W. A. Forsythe & Sons, Violet Solona 3d.

Heifer, Junior Calf—1, Rapp Bros., Barpton Flower; 2, William Herkelman, Lady Cumberland; 3, H. H. Holmes, Hallwood Gold Drop 5th; 4, W. A. Forsythe & Sons, Miss Orange 12th; 5, Tomson Bros., Lady Lavender 2d; 6, T. J. Dawe & Sons, Countess Lavender; 7, H. H. Holmes, King's Maid.

Senior Champion Bull—T. J. Dawe & Sons, Diamond Emblem.

Junior and Grand Champion Bull—Tomson Bros., Village Marshall.

Senior Champion Cow—William Herkelman, Lady Devergoyl.

Junior and Grand Champion Cow—Rapp Bros., Barpton Flower.

Aged Heifer—1, William Herkelman; 2, T. J. Dawe & Sons; 3, W. A. Forsythe & Sons; 4, H. H. Holmes.

Young Heifer—1, Tomson Bros.; 2, Rapp Bros.; 3, William Herkelman; 4, H. H. Holmes.

Calf Heifer—1, Rapp Bros.; 2, Tomson Bros.; 3, William Herkelman; 4, John Regier.

Get of Sire, Four Animals—1, Rapp Bros.; 2, William Herkelman; 3, John Regier; 4, Tomson Bros.

Produce of Sow, Two Animals—1, William Herkelman; 2, Tomson Bros.

ABERDEEN-ANGUS  
Judge, T. G. Patterson, St. Paul, Minn.

Bull, Three Years or Over—1, L. R. Kershaw, Muskogee, Okla.; Ben Hur of Lone Dell; 2, D. W. Robertson & Sons, Madison, Neb.; Valhalla; 3, Sutton & Porteous, Lawrence, Kan.; Waka Heatherson.

Bull, Two Years and Under Three—1, Kershaw, Edgar of Rosemere.

Bull, Senior Yearling—1, Kershaw, Prince Penn.

Bull, Junior Yearling—1, Kershaw, Inverne of Rosemere; 2, Robertson & Sons, King of Twin Burn 2d.

Bull, Senior Calf—1, Sutton & Porteous, Double Heatherson; 2, Kershaw, Muskogee; 3, Robertson & Sons, Barlath of Twin Burn; 4, Robertson & Sons, Barlath of Twin Burn 2d.

Bull, Junior Calf—1, Porteous & Sutton, Blackbird Heatherson; 2, Robertson & Sons, Black Knight Twin Burn; 3, Kershaw, Ben Hur.

Cow, Three Years or Over—1, Robertson & Sons, Twin Burn Frie 2d; 2, Sutton & Porteous, College Mina 3d; 3, Kershaw, Pride of Alpha 20th.

Cow, Two Years and Under Three—1, Robertson & Sons, Twin Burn Blackbird; 2, Kershaw, Black Lola of Rosemere 2d; 3, Kershaw, Pride Lola of Rosemere.

Heifer, Senior Yearling—1, Sutton & Porteous, Blackbird Heatherson.

Heifer, Junior Yearling—1, Kershaw, Blackbird 185th; 2, Robertson & Sons, Key Twin Burn; 3, Robertson & Sons, Twin Burn Blackbird 4th; 4, Sutton & Porteous, Wakarusa Robina.

Heifer, Senior Calf—1, Sutton & Porteous, Lola Heatherson; 2, Robertson & Sons, Twin Burn Blackbird 6th; 3, Kershaw, Muskogee Rose 2d; 4, Robertson & Sons, Twin Burn Blackbird 5th.

Heifer, Junior Calf—1, Kershaw, Muskogee Donna 3d; 2, Sutton & Porteous, Erica Heatherson; 3, Robertson & Sons, Key of Twin Burn 2d; 4, Kershaw, Blackbird of Rosemere 2d; 5, Sutton & Porteous, Barbara Heatherson.

Senior and Grand Champion Bull—Kershaw, Ben Hur of Lone Dell.

Junior Champion Bull—Kershaw, Inverne of Rosemere.

Senior and Grand Champion Cow—Robertson & Sons, Twin Burn of Blackbird.

Junior Champion Heifer—Kershaw, Blackbird 185th. Aged Heifer—1, Robertson & Sons; 2, Kershaw; 3, Sutton & Porteous.

Young Heifer—1, Sutton & Porteous; 2, Robertson & Sons.

Get of Sire—1, Sutton & Porteous; 2, Kershaw; 3, Robertson & Sons.

Produce of Cow—1, Robertson & Sons; 2, Sutton & Porteous; 3, Kershaw.

HEREFORDS  
W. L. Carlyle, Oklahoma Agricultural College, Stillwater, Okla.

Bull, Three Years or Over—1, R. H. Mazlett, El Dorado, Kan.; Publican 4th; 2, Klaus Brothers, Bendena, Kan.; Beau Onward 19th.

Bull, Two Years and Under Three—Hazlett, Bocado 6th; 2, W. L. Yost, Kansas City, Mo.; Ardmore.

Bull, Senior Yearling—1, Yost, Agitator; 2, Jesse Engler Sons, Sheridan, Mo.; Beau Blanchard 10th.

Bull, Junior Yearling—1, Carl Miller, Belvue, Kan.; Larry; 2, Yost, Patricia 31st; 3, R. H. Hazlett, Beau Baltimore 5th; 4, L. J. Smith, Pleasant Hill.

Bull, Senior Calf—1, Engler, Beau Blanchard 22nd; 2, Hazlett, Prince 1st; 3, Yost, Prince Donald; 4, Hazlett, Rialto 2nd; 5, Hazlett, Beau Baltimore 11th; 6, Engler, Beau Blanchard 25th; 7, Klaus Brothers, Beau Onward 52nd.

Bull, Junior Calf—1, Yost, Bonnie Donald; 2, Smith, Prince Quality; 3, Hazlett, Missioner; 4, Hazlett, Caldo 3rd; 5, Smith, Illuminator 3d.

Cow, Three Years and Over—1, Yost, Donna Perfect 9th; 2, Hazlett, Otello; 3, Klaus Brothers, Miss Onward 14th.

Cow, Two Years and Under Three—1, Yost, Disturber's Lassie 12th; 2, Engler, Sunny Sue 2d; 3, Hazlett, Zolyna; 4, Hazlett, Nama; 5, Klaus Brothers, Miss Onward 23d.

Heifer, Senior Yearling—1, Engler, Belle Blanchard; 2, Yost, Eunice D. Bond; 3, Yost, Lady Gay D. Bond; 4, Hazlett



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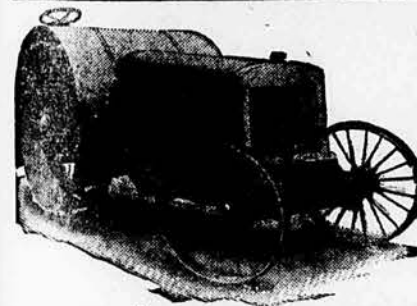
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Each model has 17 set Hyatt Roller Bearings, besides numerous ball bearings. Glyco bearings on crank shaft and connecting rods. Built on automobile lines from high grade automobile material. In design, material and workmanship, will compare favorably with highest priced automobile made.  
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John Lewis Childs, Inc., Floral Park, N.Y.

Senior and Grand Champion Bull—1, Hazlett, Bocaldo 6th.  
Junior Champion Bull—Yost, Bonny Donald.  
Senior and Grand Champion Cow—Yost, Disturber's Lassie 12th.  
Junior Champion Heifer—Jesse Engler Sons, Belle Blanchard.  
Aged Herd—1, Yost; 2, Hazlett; 3, Klaus Brothers.  
Young Herd—1, Hazlett; 2, Engler; 3, Miller; 4, Smith; 5, Klaus Brothers.  
Calf Herd—1, Yost; 2 and 3, Hazlett; 4, Smith.  
Get of Sire—1, Yost; 2, Engler; 3, Hazlett; 4, Miller.  
Produce of Cow—1, Hazlett; 2 and 3, Engler; 4, Hazlett.  
Hereford Specials (Offered by American Hereford Cattle Breeders' Association).  
Bull, Three Years or Over—1, Hazlett, Publican 4th; 2, Klaus Brothers, Beau Onward 19th.  
Bull, Two Years and Under Three—1, Hazlett, Bocaldo 6th; 2, Yost, Ardmore.  
Bull, Senior Yearling—1, Yost, Agitator; 2, Engler, Beau Blanchard 10th.  
Bull, Junior Yearling—1, Larry; 2, Yost, Patri-cian 31st; 3, Hazlett, Beau Baltimore 5th; 4, L. J. Smith, Carleton 2d; 5, Engler, Beau Blanchard 22d.  
Senior Bull Calf—1, Yost, Prince Donald; 2, Hazlett, Rialto 2d; 3, Hazlett, Beau Baltimore 44th; 4, Engler, Beau Blanchard 25th; 5, Klaus Brothers, Beau Onward 32d.  
Junior Bull Calf—1, Yost; 2, Smith; 3, Hazlett; 4, Hazlett; 5, Smith.  
Cow, Three Years or Over—1, Yost, Doney Perfect 9th; 2, Hazlett, Otello; 3, Klaus Brothers, Miss Onward 14th.  
Cow, Two Years and Under Three—1, Yost, Disturber's Lassie 12th; 2, Engler, Sunny Sue 2d; 3, Hazlett, Veturia; 4, Hazlett, Nama; 5, Klaus Bros., Miss Onward 23d.  
Heifer, Senior Yearling—1, Engler, Belle Blanchard; 2, Yost, Eunice D. Bona; 3, Yost, Lady Gay D. Bona; 4, Hazlett, Zualta; 5, Hazlett, Loma 12th; 2, Hazlett, Toyah; 3, Engler, Belle Blanchard 10th; 4, Miller, Dippy Joan; 5, Engler, Belle Blanchard 12th.  
Heifer, Senior Calf—1, Yost, Bonny Doris; 2, Hazlett, Blass 13th; 3, Yost, Bonny Blessing; 4, Yost, Oleen; 5, Miller, Laredo Lass.  
Heifer, Junior Calf—1, Yost; 2, Hazlett; 3, Smith; 4, Hazlett; 5, Miller.  
Senior and Grand Champion Bull—1, R. H. Hazlett, Bocaldo 6th.  
Junior Champion Bull—1, Yost, Bonny Donald.  
Senior and Grand Champion Cow—Yost, Disturber's Lassie 12th.  
Junior Champion Cow—Jesse Engler & Sons, Belle Blanchard.  
Aged Herd—1, Yost; 2, Hazlett; 3, Klaus Brothers.  
Young Herd—1, Hazlett; 2, Engler; 3, Miller; 4, Smith; 5, Klaus Brothers.  
Calf Herd—1, Yost; 2 and 3, Hazlett; 4, Smith.  
Get of Sire—1, Yost; 2, Engler; 3, Hazlett; 4, Miller.  
Produce of Cow—1, Hazlett; 2 and 3, Engler; 4, Hazlett.

**POLED DURHAMS.**  
Judge, T. G. Patterson, St. Paul, Minn.  
Bull, Three Years or Over—1, Ed Stegell, Straight Creek, Kan.; 2, True Sultan; 3, Achenbach Brothers, Washington, Kan.; 4, Meadow Sultan.  
Bull, Senior Yearling—1, Albert Hultine, Saronville, Neb.; 2, Gloucester Count; 3, Ed. Stegell, Sultan's Pride.  
Bull, Junior Yearling—1 and 2, Hultine, Roselawn Marshall and Sultan's Junior.  
Bull, Senior Calf—1, Hultine; 2, Achenbach Brothers; 3 and 4, Ed Stegell; 5, Achenbach Brothers.  
Bull, Junior Calf—1, Hultine.  
Cow, Three Years or Over—1, Achenbach Brothers, Sultan; 2, Hultine, Fern Goods; 3, Stegell, Flora.  
Cow, Two Years and Under Three—1, Hultine, Winsome; 2, Ed Stegell, Oakdale Ruth III; 3, Achenbach Brothers, Choice Sultan; 4, Stegell, Princess Sultan; 5, Achenbach Brothers, Sultan Francis; 6, Stegell, Fancy Sultan; 7, Hultine, Barmpton Sultan II.  
Heifer, Junior Yearling—1, Hultine; 2, Achenbach Brothers.  
Heifer, Senior Calf—1, Stegell; 2, Hultine; 3, Achenbach Brothers.  
Heifer, Junior Calf—1, Stegell; 2, Achenbach Brothers; 3, Hultine.  
Senior and Grand Champion Bull—Stegell, True Sultan.  
Junior Champion Bull—Albert Hultine, Roselawn Marshall.  
Senior Champion Cow—Achenbach Brothers, Sultan.  
Junior and Grand Champion Heifer—Stegell, Princess Sultan.  
Aged Herd—1, Stegell; 2, Achenbach Brothers.  
Young Herd—1, Stegell; 2, Hultine; 3, Achenbach Brothers.  
Calf Herd—1, Stegell; 2, Hultine; 3, Achenbach Brothers.  
Get of Sire—1, Stegell; 2, Hultine; 3, Achenbach Brothers.  
Produce of Cow—1, Stegell; 2, Hultine; 3, Achenbach Brothers.

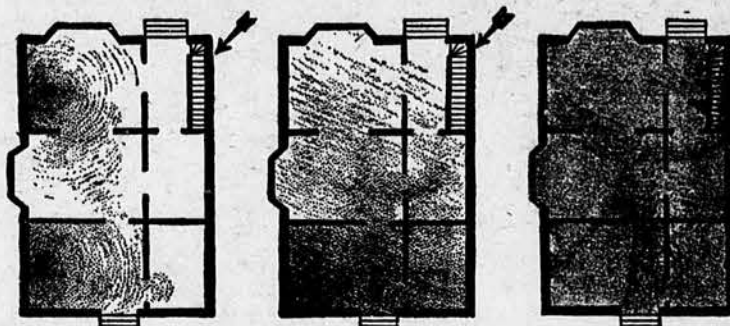
**GALLOWAYS.**  
Judge, A. M. Patterson, Manhattan, Kan.  
Bull, Three Years or Over—1, H. & G. Croft, Bluff City, Kan.; 2, Choice Master; 3, O. H. Swigart and Sons, Salisbury, Mo.; 4, Stanley's Othello.  
Bull, Two Years and Under Three—1, Swigart & Sons, Myrtle Standpater; 2, Croft, A. Carnot.  
Bull, Senior Yearling—1, Swigart and Sons, Pride's Othello 6th.  
Bull, Junior Yearling—1, Swigart and Sons, Be-linda's Othello 2d; 2, Croft, Hannah's Laddie; 3, Croft, Worthy Band.  
Bull, Senior Calf—1, Croft, Jerome D.; 2, Swigart and Sons, Stanley's Baron; 3, Swigart and Sons, Lord Graham; 4, Croft, Jay of Greenbush.  
Bull, Junior Calf—1, Croft; 2, Swigart and Sons; 3, Croft; 4, Swigart and Sons.  
Cow, Three Years or Over—1, Swigart and Sons, Nellie Nellville; 2, Croft, Daisy Dimple; 3, Swigart and Sons, Idel of M. G.; 4, Croft, Misty of Wild-wood.  
Cow, Two Years and Under Three—1, Swigart and Sons, Othello Nell; 2, Croft, Carrio E.; 3, Swigart and Sons, Lady Stanley 10th; 4, Croft, Belle of the Bluff City.  
Heifer, Senior Yearling—1, Croft, Gwendoline 2d.  
Heifer, Junior Yearling—1, Croft, Floss 6th of the Greenbush; 2 and 3, Swigart and Sons, Clio 3d of Avondale, and Othello's Nell 3d respectively.  
Heifer, Senior Calf—1, Croft, Evelyn of Greenbush; 2, Swigart and Sons, Evaline 9th of Avondale; 3, Croft, Tellmes.  
Heifer, Junior Calf—1, Croft; 2 and 3, Swigart and Sons; 4, Croft.  
Senior and Grand Champion Bull—Croft, Choice-master; reserve, Swigart and Sons, Myrtle Standpater.  
Junior Champion Bull—Croft, Jerome D.  
Senior and Grand Champion Cow—Swigart and Sons, Nellie Nellville.  
Junior Champion Heifer—Croft Brothers, Evelyn of Greenbush.  
Aged Herd—1, Swigart and Sons; 2, Croft; 3, Swigart and Sons; 4, Croft.  
Young Herd—1, Croft; 2, Swigart and Sons.  
Calf Herd—1, Croft; 2, Swigart and Sons; 3, Croft.  
Get of Sire—1, Swigart and Sons; 2 and 3, Croft; 4, Swigart and Sons.  
Produce of Cow—1 and 2, Croft; 3, Swigart and Sons.



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No. 1. Heated "inspots" by stoves No. 2. One-sided heating by hot-air furnace No. 3. Evenly warmed by an IDEAL Boiler

The shaded portions of the rooms above show how much a house is heated when a cold northeaster is blowing

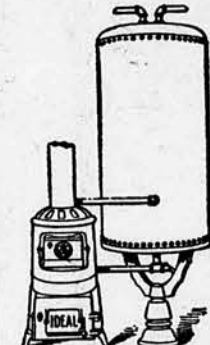
Study the above diagram! It is one of the best explanations ever produced as to just what you can expect from different kinds of heating—and it tells you *why* Radiator Heating is the *best*.

## AMERICAN & IDEAL RADIATORS & BOILERS

matter how the wind blows! Then too, the IDEAL Boiler can be run with a low fire for chilly days or with a very bright, glowing fire for blizzard weather. Plenty of heat all over the house without coal-gas, ash-dust, lugging coal hods, or worry about the fire.

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IDEAL Boiler is set in cellar, side-room or 'lean-to'; and same water is used for years. Put an IDEAL Boiler and AMERICAN Radiators in your house *this* year. Call up the nearest heating contractor and ask him to give you an estimate. Don't put off any longer, suffering the chills of old-fashioned heating methods during these severe winters.



Our IDEAL Hot Water Supply Boilers will supply plenty of warm water for home and stock at small cost of few dollars for fuel for season.



A No. 5-19-W IDEAL Boiler and 450 ft. of 38-in. AMERICAN Radiators, costing the owner \$200, were used to heat this farm house. At this price the goods can be bought of any reputable, competent fitter. This did not include cost of labor, pipe, valves, freight, etc., which vary according to climatic and other conditions.



IDEAL Boiler fuel pots mix the air and coal gases as in a modern gas mantle, extracting ALL the heat from the fuel.

### Write a postal now for "Ideal Heating" (free)

This booklet has full description and many illustrations—tells the whole heating story—send for your copy today

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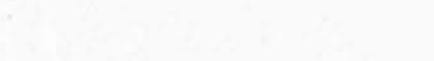
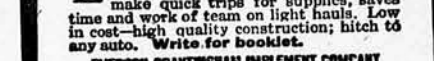
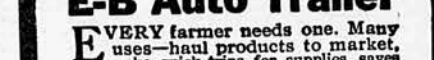
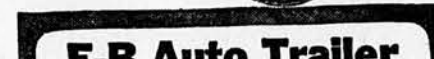
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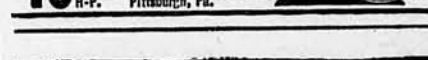
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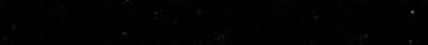
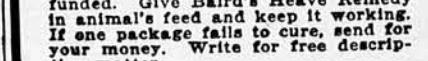
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"Thousands at his bidding  
speed,  
And post o'er land and ocean  
without rest;  
They also serve who only stand  
and wait."

Was the spirit of prophecy  
upon John Milton when, more  
than two hundred and fifty  
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words to his daughter?

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vision of the millions of tele-  
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Telephone is your servant even  
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to do and, because he does it  
faithfully, countless messages  
speed throughout the length  
and breadth of the land, at every  
minute of the day and night.



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Universal Service

## TOPEKA FAIR AWARDS

**RED POLLED.**  
Judge, Ray Davis, Marysville, Mo.  
Bull, Three Years or Over—1, J. W. Larabee, Earlville, Ill.; 2, Teddy's Charming; 3, Hausler Brothers, Hobbs, Neb.; 4, Royal Charming.  
Bull, Two Years and Under Three—1, Larabee, Prosper.  
Bull, One Year and Under Two—1, Larabee, Billy Charming; 2, Hausler Brothers, Captain Charming; 3, Larabee, Johnny Charming.  
Bull, Under One Year—1, Larabee, Homer; 2, Hausler Brothers, Roy Goods; 3 and 4, Larabee, Patsey Charming and Johnny Charming.  
Cow, Four Years or Over—1, Hausler Brothers, Tiptoe; 2, Larabee, Susie 2d.  
Cow, Three Years and Under Four—1, Larabee, Jello.  
Heifer, Two Years and Under Three—1, Hausler Brothers, Charming Lady; 2 and 3, Larabee, Ada and Effie Marie.  
Heifer, One Year and Under Two—1, 2, 3 and 4, Larabee, Lady Charming, Louise, Miss Charming and Marie Charming, respectively; 5 and 6, Hausler Brothers, U Topsy, U Ruby.  
Heifer, Under One Year—1 and 2, Larabee; 3, Hausler Brothers; 4, Larabee.  
Senior and Grand Champion Bull—Larabee, Teddy's Charming.  
Junior Champion Bull—Larabee, Billy Charming.  
Senior and Grand Champion Cow—Hausler Brothers, Tiptoe; reserve, J. W. Larabee, Jello.  
Junior Champion Heifer—J. W. Larabee, Bessie Charming.  
Aged Heifer—1, Larabee; 2, Hausler Brothers; 3, Larabee.  
Young Heifer—1 and 2, Larabee; 3, Hausler Brothers.  
Calf Heifer—1, Larabee; 2, Hausler Brothers; 3, Larabee.  
Get of Sire—1 and 2, Larabee; 3, Hausler Brothers.  
Produce of Cow—1, Hausler Brothers; 2 and 3, Larabee.

**FAT CATTLE.**  
Judges, T. G. Patterson, W. L. Carlyle and John R. Tomson.  
Two Years and Under Three—1, K. S. A. C., King Dale; 2, Herkelman, Elwood, Iowa, Robbin; 3, L. R. Kershaw, Muskogee, Okla., Proud Lad 2d; 4, K. S. A. C., Capper.  
One Year and Under Two—1, Kershaw, College Choice; 2, Herkelman, George; 3, K. S. A. C., Beau Hessler; 4, K. S. A. C., Barnum Dale.  
Under One Year—1, K. S. A. C., Rose Gay Lad; 2, Agricultural College, Barnum Prince; 3, Herkelman, Doc; 4, K. S. A. C., Don Hessler.  
Group—1, K. S. A. C.; 2, Herkelman; 3 and 4, K. S. A. C.  
Champion Steer—K. S. A. C., King Dale.

**JERSEYS.**  
Bull, Three Years or Over—1, H. C. Young, Lincoln, Neb.; 2, Stockwell's Champion.  
Bull, Two Years and Under Three—1, Fred G. Laptad, Lawrence, Kan.  
Bull, Senior Yearling—1, H. C. Young, Josephine Jausant of St. Louis.  
Bull, Junior Yearling—1, Fred G. Laptad, Blue Bell Noble Stockwell; 2, Fred G. Laptad.  
Bull, Senior Calf—1, H. C. Young, Jamar's Duke of St. Louis; 2, Fred G. Laptad; 3, H. C. Young, Emerita Duke's Raleigh.  
Bull, Junior Calf—1, H. C. Young, Commissar Prince of the World; 2, H. C. Young, Duke of William Gay Lad; 3, Fred G. Laptad.  
Cow, Three Years or Over—1, H. C. Young's Jamar's Beauty Girl; 2, H. C. Young's Forona's Iris; 3, Fred G. Laptad, Tucker's Lass 2d; 4, H. C. Young, Raleigh's Little Torment; 5, H. C. Young, Goldstein's Pet; 6, Fred G. Laptad, White Sox Queen.  
Cow, Two Years and Under Three—1, H. C. Young, Lad's Rosy Y.; 2, Fred G. Laptad, Dora Fontaine; 3, H. C. Young, Duke's Marie W.  
Heifer, Senior Yearling—1, H. C. Young, Raleigh's Betty Y of the W.; 2, H. C. Young, Duke's Beauty Girl of the W.  
Heifer, Junior Yearling—1, H. C. Young, Raleigh's Cream Pet Girl; 2, H. C. Young, Marie Sweet Lass of the W.; 3, Fred G. Laptad.  
Heifer, Senior Calf—1, H. C. Young, Raleigh's Ettie Pocus; 2, H. C. Young, Raleigh's Beauty; 3, Fred G. Laptad.  
Heifer, Junior Calf—1, H. C. Young, Rosetta Y Queen; 2, H. C. Young, Raleigh's Belle of the World; 3, Fred G. Laptad.  
Senior Champion Bull, Under Two Years—1, Fred G. Laptad, Blue Bell Noble Stockwell.  
Grand Champion Bull, Any Age—H. C. Young, Stockwell's Champion.  
Senior Champion Cow, Two Years or Over—H. C. Young, Jamar's Beauty Girl.  
Junior Champion Heifer, Under Two Years—H. C. Young, Raleigh's Beauty Y of the World.  
Grand Champion Cow or Heifer, Any Age—H. C. Young, Jamar's Beauty Girl.  
Aged Heifer—1, H. C. Young; 2, Fred G. Laptad.  
Young Heifer—1, H. C. Young; 2, Fred G. Laptad; 3, H. C. Young.  
Calf Heifer—1, H. C. Young.  
Get of Sire—1 and 2, H. C. Young; 3, Fred G. Laptad.  
Produce of Cow—1, H. C. Young, Champ's Lady's Beauty; 2, H. C. Young, Noble's Sweet Marie; 3, Fred G. Laptad, King Menlo.

**HOLSTEINS.**  
Judge, William Forbes, Waterloo, Iowa.  
Bull, Three Years or Over—1, Galloway-Messers Farm Company, Waterloo, Iowa, Hengeler King; 2, David Coleman & Sons, Dennison, Kan., Buffalo Aguinado Dode.  
Bull, Two Years and Under Three—1, Galloway, King Segis Johanna Ormsby; 2, J. W. Chestnut & Sons, Dennison, Kan., Johanna Bonheur Champion 2d.  
Bull, Senior Yearling—1, Genoa Indian School, Genoa, Neb., King Burk Pontiac Segis; 2, Galloway, Skylark Colantha; 3, Galloway, King Segis Pontiac Combination 5th.  
Bull, Senior Calf—1, David Coleman & Sons; 2, Genoa Indian School; 3, Galloway; 4, Chestnut & Sons.  
Bull, Junior Calf—1, Galloway.  
Cow, Three Years or Over—1, Chestnut & Sons, Beatitude Wayne De Kol; 2, Galloway, Jewell Walker of Cedarvale Gerben; 3, Genoa Indian School, Lasy Abuekirk Golden 2d; 4, Galloway, Marie Hengerveld De Kol.  
Cow, Two Years and Under Three—1, Genoa Indian School, Parthenia Lady Golden 4th; 2, Galloway-Messers Farm Company, Buffalo Portia Dode; 3, Chestnut & Sons, Beatitude Princess Colantha.  
Heifer, Senior Yearling—1, Galloway, Nellie Segis Pontiac; 2, Genoa Indian School, Grace De Kol Klondike 3d; 3, Galloway, Lady Winter Segis; 4, John S. Artman, Dennison, Kan., K. S. T. Pearl Pauline; 5, Chestnut & Sons, Buffalo Ella 2d.  
Heifer, Junior Yearling—Coleman & Sons, Miss Nicol De Kol.  
Heifer, Senior Calf—1, 2, 3, Galloway; 4, Coleman & Sons.  
Heifer, Junior Calf—Galloway.  
Senior and Grand Champion Bull—Galloway, King Segis Johanna Ormsby.  
Junior Champion Bull—Genoa Indian School, King Burk Pontiac Phoebe.  
Senior and Grand Champion Cow—Chestnut & Sons, Beatitude Wayne De Kol.  
Junior Champion Cow—Galloway, Nellie Segis Pontiac.  
Aged Heifer—1, Galloway; 2, Chestnut & Sons.  
Young Heifer—1, Galloway; 2, Genoa Indian School; 3, Coleman & Sons; 4, Chestnut & Sons.  
Calf Heifer—1, Galloway; 2, Chestnut & Sons; 3, Coleman & Sons.  
Get of Sire—1 and 2, Galloway; 3, Genoa Indian School; 4, Coleman & Sons.  
Produce of Cow—1, Galloway; 2, Chestnut & Sons; 3, Genoa Indian School; 4, Chestnut & Sons; 5, Coleman & Sons.

**GUERNSEYS.**  
Judge, J. B. Fitch, K. S. A. C., Manhattan, Kan.  
Bull, Three Years or Over—1, W. W. Marsh, Waterloo, Iowa, Rochampton Croesus 3d; 2, Wilcox and Stubbs, Des Moines, Iowa, Imp Patrick's Son; 3, Wilcox and Stubbs, Penynap Rosedale.  
Bull, Two Years and Under Three—1 and 2, Marsh, Rochampton Croesus 5th, and Allysum Oliver.  
Bull, Senior Yearling—1, Marsh, Plato's Prince.  
Bull, Junior Yearling—1 and 2, Wilcox and Stubbs, France Holden, of Fairview, and Glencock Imento, respectively.  
Bull, Senior Calf—1, Wilcox and Stubbs; 2, Marsh; 3, Wilcox and Stubbs.  
Bull, Junior Calf—1, Wilcox and Stubbs; 2, Marsh; 3, Wilcox and Stubbs.

**Cow, Three Years and Over—1, Marsh, Flutie Du Tertre; 2, Wilcox and Stubbs, Francis Rose of Fairview; 4, Marsh, Daisy 3d of Vauxreiner.**  
Cow, Two Years and Under Three—1, Marsh, Polly of Waveland; 2, Wilcox and Stubbs, Bob Blum's Daisy Bell; 3, Marsh, Hatfield Rose of Couture 3d; 4, Wilcox and Stubbs, Pride of Village View Farm.  
Heifer, Senior Yearling—1, Marsh, Mar's Blossom; 2, Marsh, Figtree of the Prairie; 3, Marsh, Elizabeth of the Prairie.  
Heifer, Junior Yearling—1, Marsh, Mack's Fernleaf; 2, Marsh, Cherry of the Prairie; 3 and 4, Wilcox and Stubbs, Belle Black Spot and Daisy Arabelle, respectively.  
Heifer, Senior Calf—1 and 2, Marsh; 3 and 4, Wilcox and Stubbs.  
Heifer, Junior Calf—1 and 2, Wilcox and Stubbs; 3, Marsh; 4, Wilcox and Stubbs.  
Senior and Grand Champion Bull—Marsh, Allysum Oliver.  
Junior Champion Bull—Marsh, Plato's Prince.  
Senior Champion Cow—Marsh, Polly of the Waveland.  
Junior and Grand Champion Cow—Marsh, Mar's Blossom.  
Aged Heifer—1, Marsh; 2, Wilcox and Stubbs.  
Young Heifer—1, Marsh; 2, Wilcox and Stubbs.  
Calf Heifer—1, Wilcox and Stubbs.  
Get of Sire—1, Marsh.  
Produce of Cow—1, Marsh; 2, Wilcox and Stubbs; 3, Wilcox and Stubbs.

**AYRSHIRES.**  
Judge, William Forbes, Waterloo, Iowa.  
Bull, Three Years or Over—1, William Galloway, Waterloo, Iowa, Auchenbrain Goodgift; 2, Dr. F. S. Schoenleber, Manhattan, Kan., Queen's Last.  
Bull, Two Years and Under Three—Galloway, William Peter Pan 2d.  
Bull, Senior Yearling—1, Galloway, Cavalier's Mary Lad; 2, Schoenleber, Acton Craft.  
Bull, Junior Yearling—1, 2, and 3, Schoenleber, Linnwood Daley and Elizabeth of Linnwood.  
Bull, Senior Calf—1 and 2, Galloway; 3, Schoenleber; 4, Galloway; 5 and 6, Schoenleber.  
Heifer, Senior Yearling—1, Galloway.  
Heifer, Junior Yearling—1, Galloway; 2, 3 and 4, Schoenleber.  
Senior and Grand Champion Bull—Galloway, Achenbach Goodgift.  
Junior Champion Bull—Galloway, Dalpeidar's Goodgift.  
Senior Champion Cow—Galloway, Lady Taylor.  
Junior and Grand Champion Heifer—Galloway, Nona Spencer.  
Aged Heifer—1, Galloway; 2, Schoenleber.  
Young Heifer—1, Galloway; 2 and 3, Schoenleber.  
Calf Heifer—1, Galloway; 2, Schoenleber.  
Get of Sire—1, Galloway; 2 and 3, Schoenleber.  
Produce of Cow—1, Galloway; 2 and 3, Schoenleber.

**BROWN SWISS.**  
Dahlem and Schmidt, of El Dorado, Kan., only exhibitors, and awarded all prizes for which entries were made.

**SWINE AWARDS.**  
POLA AND CHINA.  
Judge, M. P. Hancher, Roife, Iowa.  
Boar, Two Years and Over—1, Oliver & Sons, Danville, Kan.; 2, Wonderful King; 3, W. E. Epy, Diller, Neb.; 4, Mammoth Hadley; 5, Oliver & Sons, Logan, Price.  
Boar, Eighteen Months and Under Two Years—1, Harvey Osborn, Cottonwood Falls, Kan., Cottonwood King; 2, Oliver & Sons, Smooth Pride; 3, Stryker Bros., Fredonia, Kan., Advance.  
Boar, One Year and Under Eighteen Months—1, Fred B. Caldwell, Howard, Kan., Caldwell's Big Bob; 2, Phil Dawson, Edgemoor, Neb., Bobbinhood; 3, Oliver & Sons, King After All; 4, A. J. Erhart & Sons, Ness City, Kan., Big Robidoux.  
Boar, Six Months and Under One Year—1, Phil Dawson, Radio; 2, A. J. Erhart & Sons, Big Hadley's Model; 3, T. J. Dawe & Sons, Troy, Kan., Sensation 4; 4, Phil Dawson, Radium.  
Boar, Under Six Months—1, A. J. Erhart & Sons, Big Hadley's Model; 2, A. J. Erhart & Sons, Robidoux; 3, Oliver & Sons, Big Chief; 4, Phil Dawson, Converter.  
Sow, Two Years and Over—1 and 2, Phil Dawson, Bell Wonder and Quality Girl; 3, A. J. Erhart & Sons, Miss Mayflower 3d.  
Sow, Eighteen Months and Under Two Years—1, Oliver & Sons, Fancy; 2, A. J. Erhart & Sons, Orphan Litter; 3, Oliver & Sons, Quality Archibald; 4, W. E. Epy, Pan Lulu.  
Sow, One Year and Under Eighteen Months—1, H. B. Walter, Edgemoor, Kan., Bob's Big Lady; 2, R. O. Deming, Oswego, Kan., Big Maid; 3, H. B. Walter, U. S. Wonder; 4, R. O. Deming, Big Wonder Maid.  
Sow, Six Months and Under One Year—1, H. B. Walter, U. S. Wonder 2d; 2, Phil Dawson, Daisy Ulian; 3, H. B. Walter, U. S. Wonder 3d; 4, H. B. Walter, U. S. Wonder 4th.  
Sow, Under Six Months—1, Phil Dawson, Pan Ulian; 2, Phil Dawson, Princess; 3, A. J. Erhart & Sons, Lady Hadley; 4, Phil Dawson, Princess 2d.  
Champion Boar, One Year and Over—Fred B. Caldwell, Howard, Kan., Big Bob.  
Champion Boar, Under One Year—A. J. Erhart & Sons, Big Hadley's Equal.  
Grand Champion Boar—Fred B. Caldwell, Big Bob.  
Champion Sow, One Year and Over—H. B. Walter, Big Bob Lady.  
Champion Sow, Under One Year—Phil Dawson, Pana Ulian.  
Grand Champion Sow—H. B. Walter, Big Bob Lady.  
Boar and Three Sows Over One Year—1, Oliver & Sons; 2, Phil Dawson; 3, R. O. Deming.  
Boar and Three Sows Over One Year, Bred by Exhibitor—1, Oliver & Sons; 2, R. O. Deming; 3, A. J. Erhart & Sons.  
Boar and Three Sows Under One Year—1, A. J. Erhart & Sons; 2, Phil Dawson; 3, H. B. Walter.  
Boar and Three Sows Under One Year, Bred by Exhibitor—1, A. J. Erhart & Sons; 2, Phil Dawson; 3, H. B. Walter.  
Four Animals, Any Age, Either Sex, Get of One Boar—1, H. B. Walter; 2, Phil Dawson; 3, A. J. Erhart & Sons.  
Four Animals, Any Age, Either Sex, Produce of Same Sow—1, H. B. Walter; 2, A. J. Erhart & Sons; 3, Phil Dawson.  
Four Pigs, Boars (Futurity Class)—1, A. J. Erhart & Sons, Big Hadley's Model; 2, H. B. Walter, Big Wonder; 3, Oliver & Sons, Jumbo; 4, Oliver & Sons, Great Wonder; 5, Stryker Bros., Fredonia, Kan., Stryker's Choice.  
Fall Pigs, Sows (Futurity Class)—1 and 2, H. B. Walter, U. S. Wonder 1st and U. S. Wonder 2d respectively; 3, A. J. Erhart & Sons, Model Hadley; 4 and 5, Oliver & Sons, Beauty and Beauty Queen respectively.  
Spring Pigs, Boars (Futurity Class)—1 and 2, A. J. Erhart & Sons; 3, H. B. Walter; 4, R. O. Deming; 5, James Arkell, Junction City, Kan., Arkell's Big Tim; 6, Fred B. Caldwell; 7, H. B. Walter.  
Spring Pigs, Sows (Futurity Class)—1 and 2, A. J. Erhart & Sons, Lady Hadley and Lady Hadley 2d, respectively; 3 and 4, Fred B. Caldwell; 5 and 6, A. J. Erhart & Sons; 7, Oliver & Sons; 8, R. O. Deming.  
Litter of Four Spring Pigs (Futurity Class)—1 and 2, A. J. Erhart & Sons; 3, Fred B. Caldwell; 4, R. O. Deming; 5, James Arkell; 6 and 7, Oliver & Sons; 8, Stryker Bros.

**DUROC JERSEYS.**  
Judge, George M. Hammond, Manhattan, Kan.  
Boar, Two Years or Over—1, W. R. Crow & Sons, Hutchinson, Kan., Crow's Joy; 2, Searle & Galt, Berryton, Kan., A Critic; 3, Crow & Sons, Galt's Crow; 4, G. M. Shepherd, Lyons, Kan., G. M.'s Crimson Wonder.  
Boar, Eighteen Months and Under Two Years—1, Crow & Sons, Our Colonel; 2, J. D. Shepherd, Abilene, Kan., Good Enough; 3, Crow & Sons, Pathfinder; 4, Perfection Stock Farm, Union City, Okla., by George M. Classen, Defender's Joy.  
Boar, One Year and Under Eighteen Months—1, G. M. Shepherd, Crimson Wonder Again Jr.; 2, Perfection Stock Farm, Defender's Lad; 3, Crow & Sons, F. L.'s Gano; 4, Crow & Sons, Crow's Model.  
Boar, Six Months and Under One Year—1, Searle



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Boar, Under Six Months—1. Crow & Sons, Crow's Futurity Colonel 1st; 2. Crow & Sons, Crow's Futurity Colonel 2d; 3. Crow & Sons, Crow's Futurity Model 6th; 4. Crow & Sons, Crow's Model 3d.  
Sow, Two Years or Over—1. Crow & Sons, Catherine's Girl; 2. Searle & Cottle, Countess Maid; 3. Crow & Sons, Walla Belle; 4. Searle & Cottle, Countess Again.  
Sow, Eighteen Months and Under Two Years—1. Perfection Stock Farm, Graduate Mistress; 2. Crow & Sons, Lady Bell; 3. J. D. Shepherd, High Lot-He; 4. Crow & Sons, Colonel's Bell.  
Sow, One Year and Under Eighteen Months—1. Searle & Cottle, Walla Lady; 2. G. M. Shepherd, Illustrator's Second Model; 3. Crow & Sons, Bright Gano; 4. Searle & Cottle, Lady Laverne.  
Sow, Six Months and Under One Year—1. Searle & Cottle, Rosario; 2. Searle & Cottle, Beatrice; 3. Searle & Cottle, Katherine; 4. Crow & Sons.  
Sow, Under Six Months—1. Crow & Sons, Crow's Futurity Lady 1st; 2. Crow's Futurity Lady 2d; 3. Crow's Futurity Lady 3d; 4. Crow's Futurity Lady 4th.  
Champion Boar, One Year or Over—Crow & Sons, Crow's Joy.  
Champion Boar Under One Year—Searle & Cottle, Chief Criticizer.  
Grand Champion Boar—Crow & Sons, Crow's Joy.  
Champion Sow, One Year or Over—Crow & Sons, Katherine's Girl.  
Champion Sow Under One Year—Crow & Sons, Crow's Futurity Lady.  
Grand Champion Sow—Crow & Sons, Katherine's Girl.  
Boar and Three Sows, Under One Year—1. Crow & Sons; 2. Searle & Cottle; 3. Crow & Sons; 4. J. P. Shepherd.  
Boar and Three Sows, Over One Year, Bred by Exhibitor—1. Crow & Sons; 2. Searle & Cottle; 3. Crow & Sons; 4. J. D. Shepherd.  
Boar and Three Sows, Under One Year—1. Searle & Cottle; 2. Crow & Sons; 3. Crow & Sons; 4. Searle & Cottle.  
Boar and Three Sows, Under One Year, Bred by Exhibitor—1. Searle & Cottle; 2 and 3, Crow & Sons; 4, Searle & Cottle.  
Get of Sire, Four Animals—1. Crow & Sons; 2. Searle & Cottle; 3. Crow & Sons; 4. Searle & Cottle.  
Produce of One Sow—1. Crow & Sons; 2. Searle & Cottle; 3. Crow & Sons; 4. Searle & Cottle.  
DUROC JERSEY FUTURITY  
By the National Duroc Jersey Record Association.  
Boar, Spring Pigs—Crow & Sons took first, second, third, fourth, fifth, sixth and eighth with Crow's Futurity Col. 1st, 2d, 5th, 3d, Crow's Model 3d, Crow's Futurity Col. 6th and 8th respectively; 7, Searle & Cottle, Ideal Chief.  
Sows, Spring Pigs—1, 2, 3, 4, 5, 7 and 8, Crow & Sons, with Crow's Futurity Lady 1st, 2d, 3d, Crow's Queen, Crow's Futurity Lady 4th, Crow's Queen 8th and Crow's Futurity Lady 6th respectively; 6, G. M. Shepherd, Isabel.  
Litter of Four Spring Pigs—1, 2, 3, 4, 6, Crow & Sons; 5, 7, Searle & Cottle; 8, G. M. Shepherd.  
CHESTER WHITES.  
Judge, M. P. Hancher, Rolfe, Iowa.  
Boar, Two Years or Over—1. W. W. Walmire & Sons, Peculiar, Mo., Grand Look; 2. Coleman & Crum, Danville, Kan., Model Combination; 3. H. R. Ayers, Danville, Kan., White Cloud.  
Boar, Under Eighteen Months and Under Two Years—1. M. Armentrout, Botina, Iowa, Izzy O. K. Wonder; 2. W. W. Walmire & Sons, Competitor.  
Boar, One Year and Under Eighteen Months—1. Armentrout, Bob Roy; 2. Walmire & Sons, Long-tail.  
Boar, Six Months and Under One Year—1. H. R. Ayers, Veto; 2. Walmire & Sons, Champion W.; 3. Armentrout, Iowa Climax; 4. Walmire & Sons.  
Boar, Under Six Months—1. Coleman & Crum, St. Valentine; 2. Walmire & Sons; 3. Coleman & Crum; 4. Armentrout, Armentrout's Select.  
Sow, Two Years and Under Three—1. Coleman & Crum, Beauty S.; 2. Armentrout, Queen; 3. Coleman & Crum, Mabel; 4. Walmire & Sons, Lassie.  
Sow, Eighteen Months and Under Two Years—1. Walmire & Sons, Lassie; 2. Ayers, Lady Butch; 3. Walmire & Sons, Pearl W.; 4. E. McGlothlin, Topeka, Kan., Frost's Avondale.  
Sow, One Year and Under Eighteen Months—1. Coleman & Crum, Tip Top; 2. Walmire & Sons, Illawatha; 3. Armentrout, Kent's Ideal; 4. Armentrout, Kent's Ideal 2d.  
Sow, Six Months and Under One Year—1. Ayers, H. R.'s Best; 2. Ayers, H. R.'s Pride; 3. Armentrout, Kent's Select 1st; 4. Armentrout, Kent's Select 2d.  
Sow, Under Six Months—1. Armentrout, Armentrout's Kind; 2. Coleman & Crum, Ida Valentine; 3. Coleman & Crum, Lula Valentine; 4. Coleman & Crum, Eva Valentine.  
Champion Boar, One Year and Over—Armentrout, Izzy O. K. Wonder.  
Champion Boar, Under One Year—Ayers.  
Grand Champion Boar—Armentrout, Izzy O. K. Wonder.  
Champion Sow, One Year or Over—Coleman & Crum, Tip Top.  
Champion Sow Under One Year—Armentrout.  
Grand Champion Sow—Coleman & Crum, Tip Top.  
Boar and Three Sows Over One Year—1. Coleman & Crum; 2. Armentrout; 3. Walmire & Sons; 4. Armentrout.  
Boar and Three Sows Over One Year, Bred by Exhibitor—1 and 2, Walmire & Sons.  
Boar and Three Sows Under One Year—1. Coleman & Crum; 2. Ayers; 3. Armentrout; 4. Walmire & Sons.  
Boar and Three Sows Under One Year, Bred by Exhibitor—1. Coleman & Crum; 2. Walmire & Sons; 3. Walmire & Sons.  
Get of Sire, Four Animals—1. Ayers; 2. Coleman & Crum; 3 and 4, Walmire & Sons.  
Produce of Sow, Four Animals—1. Ayers; 2. Coleman & Crum; 3. Walmire & Sons; 4. Armentrout.  
CHESTER WHITE SPECIALS  
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BERKSHIRES.  
Judge, M. P. Hancher, Rolfe, Iowa.  
Boar, Two Years or Over—1. Sutton & Porteous, Lawrence, Kan., Duke's Bacon 8th.  
Boar, Eighteen Months and Under Two Years—1. C. G. Nash, Eskridge, Kan., Silver Tip Bacon; 2. Sutton & Porteous, Silver Tip Duke 7th.  
Boar, One Year and Under Eighteen Months—1. R. C. Obrecht, Topeka, Kan., Pathfinder 3d; 2. Sutton & Porteous, Sutton's Improver; 3. Nash, P. D.'s Progressive.  
Boar, Six Months and Under One Year—1. Nash, General Buster Black; 2. Sutton & Porteous, Stumpy's Classy Robinhood; 3 and 4, Nash, A Silver Top Boy 1st and 2d, respectively.  
Boar, Under Six Months—1. Sutton & Porteous; 2. Nash, Progressor's Second; 3. R. C. Obrecht; 4. Sutton & Porteous.  
Sow, Two Years or Over—1. Nash, Legal's Queen; 2. Nash, Zello.  
Sow, Eighteen Months and Under Two Years—1. Nash, Circus Girl; 2. Sutton & Porteous, Silver Tip 7th.  
Sow, One Year and Under Eighteen Months—1. Sutton & Porteous, Bacon's Duchess 4th; 2. Nash, Circus Girl 26th; 3. Sutton & Porteous, Classy Jewell.

(Continued on Page Thirteen)



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## FARM AND HERD.

A. S. Alexander of Burlington, Kansas, owner of one of the great herds of big-boned Spotted Polands, reports his herd doing well. He also reports a heavy demand for Spotted Poland breeding stock this year and has sold foundation stock for a number of new herds.

W. W. Oliver of Guilford, Missouri, is claiming October 17 as the date of his annual fall sale of big-type Polands. Mr. Oliver is one of Missouri's progressive breeders and has succeeded in developing a big high-quality Poland that is a profitable feeder. He will catalog forty head for this sale, sired by such boars as Big John B, Big Halston 2d, and A Wonder Prince, and out of dams sired by noted big-type sires. This sale will be one of the events of the fall sale season.

Fred B. Caldwell of Howard, Kansas, had the misfortune last year while at the Topeka Fair to lose his valuable herd boar, Elmore Jumbo. This year Mr. Caldwell

was awarded at the Topeka Fair first and grand champion on his great Poland China boar, Caldwell's Big Bob. This hog will be shown at the National Swine Show at Omaha, Nebraska, October 2 to 7, 1916.

Orrie Coburn of Whitewater, Wis., owner of Edgewood Farm herd of Holsteins, reports a good demand for high-class Holsteins. Edgewood Farm herd is drawn upon heavily for breeding stock and for the past few months their shipments to the Southwest have been heavy.

Allen Bros. of Russell, Iowa, are claiming October 31 as the date of their fall sale of O. I. C. hogs. This firm owns one of Iowa's noted O. I. C. herds and is among the most successful breeders of that popular breed of hogs. They have developed a big easy-feeding type that are profit-producers.

James L. Alvey of Billings, Missouri, is one of the live breeders of pure-bred stock in that state. His herd of O. I. C. hogs is one of the noted herds of that breed in the corn belt and many of the best O. I. C. herds now assembled were started with foundation stock from this herd.



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## THE STRAY LIST.

**TAKEN UP—BY FRANK FRENCH OF Manning in Keystone Township, in Scott County, Kansas, on the 17th day of August, 1916, one horse mule, age one year, color bay. No marks or brands. Appraised at \$25. John L. Whitson, County Clerk, Scott City, Kansas.**

**H. B. Walter of Effingham, Kansas,** was one of the busy men at the big free fair at Topeka. His fine herd won in the open class and third on junior boar, senior and grand champion on yearling sow, first on produce of sow and first on get of sire; third on young herd. Mr. Walter also bred the grand champion Poland China boar, Caldwell's Big Bob, that was the sensation of the swine show, and at present owns his sire, Big Bob Wonder.

**PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS**



## Little Talks to Housekeepers

Helpful Hints Here for the Women Folks of the Farm

High thoughts and noble in all lands,  
Help me; my soul is fed by such.  
But ah, the touch of lips and hands—  
The human touch!  
Warm, vital, close, life's symbols dear—  
These need I most, and now, and here.  
—Richard Burton.

Vanity in children should not be encouraged, but giving care to their personal appearance might well be made a point of training. If neglected during childhood, it is a lesson which too often goes unlearned.

Postage stamps that are stuck together or stuck to paper, can be quickly separated by running a medium hot flat iron over them. Another good way is to soak them in a saucer of water, but this takes longer.

A good way to keep the salt in shaking condition in damp weather, is to set the shakers near the cook stove when there is a fire. This keeps the salt dry.

Have you thought about planting some bulbs this fall? It will not require much work and the early spring flowers bring a very welcome cheer.

## Onion and Mango Relish

12 green mangoes  
6 white onions—medium size  
6 red mangoes

Clean well and use only the outside of the mangoes.

Cut in small pieces by putting through the food chopper. Cover with boiling water and let stand for just a minute. Pour this water off and cover again with boiling water, allowing it to stand two or three minutes. When this is poured off, add salt and sugar to taste, cover with vinegar and allow it to cook three or four minutes after becoming heated throughout.

Read about the women's exhibits at the Topeka Fair, on the editorial page.

## FASHION DEPARTMENT—ALL PATTERNS TEN CENTS

This department is prepared especially in New York City, for Kansas Farmer. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want, and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Special offer: To anyone ordering a pattern we will send the latest issue of our fashion book, "Every Woman Her Own Dressmaker," for only 2 cents; send 12 cents for pattern and book. Price of book if ordered without pattern, 5 cents. Address all orders for patterns or books to Kansas Farmer, Topeka, Kansas.



**No. 7901—Girls' Dress:** Cut in sizes 6, 8, 10 and 12 years. Novelty in employing contrasting goods, gives emphasis to the good lines of this dress and makes it really fascinating. A vest-shaped yoke is joined to the fronts, in each of which two tucks have been made; likewise, in each half of the back two tucks are introduced.  
**No. 7896—Ladies' Shirt-Waist:** Cut in sizes 36 to 42 inches bust measure. Prominently favoring the popular frill, this waist has the shoulder fronts gathered. The "something odd" is given with trimming bands in contrasting note, on the collar, frill and down the center front where the closing is made. Long or short sleeves may be used.  
**No. 7866—Girls' Dress:** Cut in sizes 4 to 14 years. You may suit yourself about making this dress with or without a belt—when employed, it looks best at a lowered waistline; the closing of the frock is conveniently arranged a bit to the left front side and buttons have the honor.  
**No. 7870—Ladies' Apron:** Cut in sizes 36, 40 and 44 inches bust measure. Linen, gingham or calico can be used to make this serviceable apron that slips on over the head and covers the entire dress. The apron has a neck cut out in square outline and the sleeves are three-quarter length.  
**No. 7877—Ladies' Skirt:** Cut in sizes 24 to 32 inches waist measure. The yoke effect is conspicuous in this four-gored skirt, because of the buttoned tab decoration, front and back. An under box-plait at each side gives the style flare. Large, covered buttons ornamenting below knee depth, attract attention to the tailor stitched seam down the entire center front—the closing is made there.  
**No. 7870—Ladies' House Dress:** Cut in sizes 36 to 44 inches bust measure. The making of this dress is certainly not a problem of skill—nor of cost. It is in one piece from the shoulder to the lower edge; the style feature is the pocket stitched to each front, below a "piece-bit" which is tacked over fine plaits to confine the fullness at the waist.









## EVERMAN'S FAMOUS BIG Boned Spotted Polands

SALE OCTOBER 24.  
Sixty head of sows, the tops of 237 head. Orders taken NOW for spring boars at \$25, to be shipped at once. Write for catalog.  
EVERMAN POULTRY FARM, R. 5, GALLATIN, MO.

## ANDREWS' SPOTTED POLANDS

Big bone, big spots, skin white, big hams, big hogs, wide backs.

Annual Sale October 12, 1916

Forty head, about equally divided as to sex. The grandest lot of Spotted Polanders that will be sold this year. Write at once for catalog.

Andrews Stock Farm - Lawson, Mo.



## MODERN HEREFORDS

ROBERT H. HAZLETT

HAZFORD PLACE, EL DORADO, KANSAS

World's Largest Herd of Direct Descendants of Beau Brummel, Anxiety 4th and Don Carlos.

WILLIAM CONDELL, Herdsman.

## OHIO IMPROVED CHESTERS

### O. I. C. PIGS

For sale, 65 head March pigs, either sex. Two fall yearling boars, sired by Wilcox's White Giant. Prices reasonable. Write today.  
DAN WILCOX, CAMERON, MO.

CEDARVALE CHESTER WHITES  
Extra good fall yearlings by Milligan 24457, first prize big Missouri State Fair 1912. Choice spring pigs by Milligan, Wonder Chief and W. P. Sweepstakes. All immune.  
J. S. KENNEDY - BLOCKTON, IOWA

O. I. C. HOGS—Any kind, priced to sell. Barred Rocks or Black Minorcas, hens, pullets or cockerels.  
J. L. ALVEY - BILLINGS, MO.

### DUROC JERSEYS.

### W. R. CROW & SON'S

## DUROCS

We offer foundation material, herd boars and show stock of the large, smooth type. Our herd won more first premiums and grand championships than any Duroc herd shown in 1916.

W. R. CROW & SONS, HUTCHINSON, KAN.

## PATTERSON'S DUROCS

FOR SALE—Fifteen head of good spring boars, Col. and Crimson Wonder breeding. Priced to sell and satisfaction guaranteed.  
ARTHUR A. PATTERSON, Ellsworth, Kan.

## GUARANTEED DUROO BOARS

Duroc boars with size, bone and stretch. Immune and guaranteed breeders. Shipped to you before you pay.  
F. C. CROCKER - FILLEY, NEBRASKA

## BOARS! BOARS! BRED GILTS!

Eighteen big husky boars, thirty bred gilts, a few tried sows. Crimson Wonder, Illustration II, Colonel, Good Buff, Defender breeding. Either by or bred to sons of the greatest champions of the breed. Priced for quick sale. Immune.  
G. M. SHEPHERD - LYONS, KANSAS

## DUROC JERSEY HOGS

Ten choice spring boars, real herd heads, the tops from forty head. Thirty-five spring gilts. Priced to sell.  
W. A. WOOD & SON, ELMDALE, KANSAS

### AUCTIONEERS.



### P. M. GROSS

LIVE STOCK AUCTIONEER

"Twelve Years on the Block"

Pure Bred Sales a Specialty

Sales Made Anywhere  
MACON, MISSOURI

J. P. OLIVER Live Stock and Real Estate Auctioneer.  
Twenty years' experience. Newton, Kansas.

## Live Stock and Farm Auctioneer

Write or wire for date. I can please you.  
LAFE BURGER, WELLINGTON, KANSAS

## FRANK J. ZAUN Live Stock Auctioneer.

Write or wire for date.  
Independence, Missouri

### RED POLLED CATTLE.



## RED POLLED CATTLE

FOR SALE—Ten bred cows and ten bred heifers.

I. W. FOULTON, Medora, Kan.

## RED POLLED CATTLE

FOR SALE—1915 bull calves by Rose's Grand Champion 17998, a 2,400-pound bull; also a few good cows and heifers.  
AULD BROTHERS, FRANKFORT, KAN.

## SHORTHORN CATTLE.

### Sycamore Springs Shorthorns

Master of Dale by the great Avondale heads herd. A few young Scotch bulls and bred heifers for sale.

H. M. HILL - LAFONTAINE, KANSAS

### RIVERSIDE SHORTHORNS

Headed by Prince Valentine 4th 342179. Families represented, Orange Blossoms, Butterflies, Queen of Beauty and Violets.  
H. H. HOLMES, Route 1, Great Bend, Kan.

LOWMONT SHORTHORNS.  
Brawth Heir 351808 heads herd. Inspection invited. E. E. Heacock & Son, Hartford, Kan.

## Breeders' Directory

### ANGUS CATTLE.

Geo. A. Deitrich, Carbondale, Kan.  
D. J. White, Clements, Kan.

### SHORTHORNS.

C. H. White, Burlington, Kan.

### HOLSTEINS.

C. E. Bean, Garnett, Kansas.

### DORSET-HORN SHEEP.

H. C. LaTourrette, Route 2, Oberlin, Kan.

### JERSEY CATTLE.

J. B. Porter & Son, Mayetta, Kan.

## HORSES AND MULES.



## JACKS AND JENNETS

15 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned. Special prices for fall and winter sales. Fifteen good jennets for sale. Come and see me.  
PHIL WALKER, Moline, Elk County, Kansas

Home-Bred Draft Stallions, your choice \$500 with the exception of two. Also mares for sale. A. Latimer Wilson, Creston, Iowa.

Registered Percherons. 39 heavy 3 and 4 yr. stallions. 68 rugged 2 yr. olds. Can spare 25 registered mares. 24 registered Belgian stallions. Priced worth the money. Above Kansas City.  
OLD FRED CHANDLER RANCH  
Route 7 - - - - - Chariton, Iowa

PERCHERONS AND JACKS  
I have four young Percheron mares, all in foal by Sir Glenn Wood. Would sell two of them. Will also sell or change one or two stallions. Some fine young jacks, broken, will sell cheap.  
JOE FOX - - - - - GREELEY, KANSAS

## SHEEP.



T. M. Beverly of Texas writes: "Have 600 sheep. The ones I got from you are far ahead of others." Shropshire rams from my flock will suit you. Weight and wool always count. A tried herd ram also for sale. C. W. Chandler, Kellerton, Iowa

REGISTERED SHROPSHIRE RAMS  
Yearlings and two, square built, rugged, hardy bucks with weight, bone and heavy fleeces. Quick shipping facilities and priced cheap. 412 head. Above Kansas City.  
HOWARD CHANDLER, Chariton, Iowa

### RAMBOUILLETT SHEEP

A lifetime experience proves the Rambouillet is easily the best sheep for Kansas conditions. We offer choice individuals, either sex, with good bone size, form and fleeced. E. D. KING, Burlington, Kansas.

## GUERNSEY CATTLE.

Guernseys of the Best Breeding for Sale. A few pure-bred cows and heifers, and bulls any age, for foundation stock. Advanced register records and tuberculin tested.  
W. B. QUARTON - - - - - ALGONA, IOWA

The Duroc herd owned by W. R. Crow & Son of Hutchinson, Kansas, was one of the attractions at the Topeka State Fair. Their herd was well fitted and was a heavy winner. The cash prizes aggregated \$590 and in addition they won valuable trophies offered by the Duroc Association.

## HOLSTEIN CATTLE.

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank

## HOLSTEIN FRIESIAN FARM, Towanda, Kansas

Pure-Bred Holsteins, all ages, strong in the blood of the leading sires of today, headed by Oak De Kol Bessie Ormsby 156789. Special offering of choice young pure-bred bulls, ready for service, from tested dams. Let us furnish you a bull and improve your herd. TWENTY-FIVE pure-bred females, young useful Holsteins with A. R. O. records from 12 to 26 pounds butter in seven days.

### BEFORE YOU BUY, TALK WITH US

We have an especially large, choice selection of extra high grade young cows and heifers due to freshen this fall and early winter, all in calf to pure-bred bulls. These females are large, deep bodied, heavy producers, with large udders, all well marked individuals and the right dairy type. Our offerings are at prices that challenge comparison for Holsteins of their breeding and quality. High grade heifer calves, \$25. Send draft for number wanted. Let us know what you want in Holsteins, and we will be pleased to send you descriptions and prices. Keep us in mind before purchasing. Wire, write or phone us.

GIROD & ROBISON - - - - - TOWANDA, KANSAS

## CHOICE HOLSTEIN COWS

Two hundred registered and high grade Holstein cows, heifers and bulls for sale, singly or carload lots. Included are ten registered bulls, all out of A. R. O. dams; thirty-five registered females of all ages; several good A. R. O. cows; forty high grade cows; sixty two-year-olds, and seventy-five heifers, one to two years old. All tested by state or federal authorities and priced to sell. Write or come at once.  
HENRY GLISSMANN - - - - - STATION B - - - - - OMAHA, NEBRASKA

## TORREY'S HOLSTEINS

High grade cows and heifers and registered bulls. The best breeding. Call and see them.

O. E. Torrey - - - - - Towanda, Kansas



## IN MISSOURI

Price Segis Walker Pietertie 123955 heads herd. Dam 30.13 lbs. butter in 7 days, milk testing 5.07 per cent. A. R. O. of dam, granddam and ten nearest dams of sire, 29.75 lbs. Six of these are 30-lb. cows. His five nearest dams all test over 4 per cent. Bulls 2 to 8 months old, \$150 to \$350. Always have cows and bred heifers for sale. Everything registered Holsteins. Tuberculin tested.  
S. W. COOKE & SON, MAYSVILLE, MO.

## BONNIE BRAE HOTSTEINS

A fine bunch of high grade two-year-old heifers coming fresh. Also a few young cows and one well-bred registered bull old enough for light service.  
IRA ROMIG, Station B, TOPEKA, KANSAS

### FOR SALE—PURE-BRED HOLSTEIN HEIFERS

From extra good dams and sires. Pedigree of dams lost. Prices, \$40 to \$80. One heifer bred to fine Holstein bull.  
E. J. CASTILLO, INDEPENDENCE, KAN.

For Sale—35 head high grade and registered Holstein cows and four reg. Holstein bulls.  
COE'S DAIRY, Cottonwood Falls, Kansas.

## JERSEY CATTLE.

### JERSEY BULL

FOR SALE—Calf Tattoo 23, dropped March 1, 1916. Solid color, large and vigorous. Sire, Blue Belle's Owl 79641, grandson of Financial King. The Owl's Lily 24, Ch. Flying Fox and Blue Belle. Dam, Lady Pomfret 221497, granddaughter of Interested Prince with R. of M. record. Class A. A., 8,072.9 pounds milk, 528 pounds 15 ounces butter one year, average per cent of fat 5.57. A great calf from a great mother. Price registered and f. o. b. St. Joseph, \$80.00. Write.  
ROLLA OLIVER, Box 701, St. Joseph, Mo.

## Brookside Farm Jerseys

Registered Jersey bulls for sale. Flying Fox and Eminent breeding, good enough to head any herd. Also a few females.  
THOS. D. MARSHALL, SYLVIA, KANSAS

## LINSCOTT JERSEYS

Kansas First Register of Merit, Estab. 1878. If interested in getting the best blood of the Jersey breed, write me for descriptive list. Most attractive pedigree.  
R. J. LINSCOTT - - - - - HOLTON, KANSAS

## At Reduced Prices

On account of severe drought in this section I will sell sixty head (one-half of my herd) registered Jerseys at sacrifice prices. Best Island-American breeding. Any age; either sex. Send for circular.  
THE ENNIS STOCK AND DAIRY FARM, Holins, Mo. (Just South of St. Louis)

### JERSEY BULLS

For Sale—From six weeks to six months old, sired by Imported Sultan's Trinity King, son of Western King. Dams, Financial King, Loretta D. Eminent and Sparta Herotas breeding.  
Dr. J. H. Lomax, Station D, St. Joseph, Mo.

## Jersey Cows and Heifers

140 head to select from, pure-bred and grade. 20 heavy springers, bred on farm.  
J. W. BERRY & SON, Jewell City, Kansas

## SMITH'S JERSEYS

For Sale—Two extra good registered Jersey cows, due to freshen about August 25, fit to enter Kansas Farmer contest. One 2-year and three coming yearling bulls, good individuals. S. S. SMITH, Clay Center, Kan.

## REDHURST JERSEYS

Grandsons of Golden Jolly and Noble of Oaklands for sale. Also a few fancy cows and heifers of same breeding. Write.  
REDMAN & SON - - - - - TIPTON, MISSOURI

## HEREFORD CATTLE.

### Herefords and Percherons

Two choice Hereford bulls, 2 and 3 years old, well marked, both will make top bulls. The 3-year-old weighs 1,950. Also some choice yearling Percheron stud colts.  
M. E. GIDEON - - - - - EMMETT, KANSAS

## HOLSTEIN CATTLE.

### Golden Belt Holstein Herd

Canary Butter Boy King No. 70508 In Service.

Herd has won more prizes from Holstein-Friesian Association for yearly production than any herd in Kansas. Young bulls for sale from heavy producing cows.  
W. E. BENTLEY, MANHATTAN, KANSAS

## FOR SALE

Very High-Grade Holstein Calves, either sex, three to six weeks old, \$20. Express prepaid. If you are in the market for any of these choice calves, send order to  
Whitewater Stock Farm, Whitewater, Wis.

## SUNFLOWER HERD

REGISTERED HOLSTEINS  
Offers young cows due this summer and fall by 29 and 33-pound sires. Several EXTRA young bulls both in breeding and individuality. They are bound to please.  
F. J. SEARLE, Oskaloosa, Kan.

## 23—HOLSTEIN-FRIESIAN BULLS—23

Best of sires. A. R. C. dams, fourteen over 20 pounds. Seven of the others from heifers with records of 14.89 to 19.2 pounds. The kind you want. We have only two cows in the herd with mature records less than 20 pounds.

Breeders for Thirty Years.  
McKAY BROS., Waterloo, Iowa

## REGISTERED HOLSTEINS

We want to cut down our herd. Will sell ten or twelve choice cows, most of them young, also a few heifers.  
M. E. MOORE & CO. - - - - - CAMERON, MO.

## CHOICE HOLSTEIN BULLS

Registered bull calves out of A. R. O. cows. Also a few heifers. Best breeding. Choice individuals. Price reasonable.  
BEN SCHNEIDER, NORTONVILLE, KAN.

## HOLSTEIN COWS

Holstein cows, springers or bred heifers. Very large, good markings, out of best milking strains, bred to pure-bred bulls of the very best blood. Special prices on carload lots.  
J. C. ROBISON, TOWANDA, KANSAS

### THE CEDAR LANE HOLSTEIN HERD

Headed by a 29.4-pound grandson of Pontiac Korndyke. Bull calves, nearly ready for service, sired by above bull, for sale at reasonable prices. Also a limited number of bred cows.  
T. M. EWING, INDEPENDENCE, KANSAS

## CORYDALE FARM HERD

Herd sire, Jewel Paul Butter Boy No. 94145, who's eight nearest dams average A. R. O. 25.95. Eight bull calves for sale from 2 to 9 months old.  
L. F. CORY & SON - - - - - Belleville, Kansas

## HOLSTEINS BACKED BY RECORDS

Registered bull calves, also a few choice heifers. All modern bred with good butter fat inheritance.  
GEORGE C. PRITCHARD  
Route 2 - - - - - Topeka, Kansas

## BUTTER BRED HOLSTEINS

Buy your next bull calf from a herd that won the butter test over all breeds.  
J. P. MAST - - - - - SCRANTON, KANSAS

IOWANA DE COLA WALKER heads herd, has nine half-sisters with yearly tests ranging from 407.53 pounds to 626.21 pounds of 80% butter, the latter a senior two-year record; in fact seven were senior two-year and two were senior three-year-olds.  
TREDICO FARM, Route 2, Kingman, Kan.

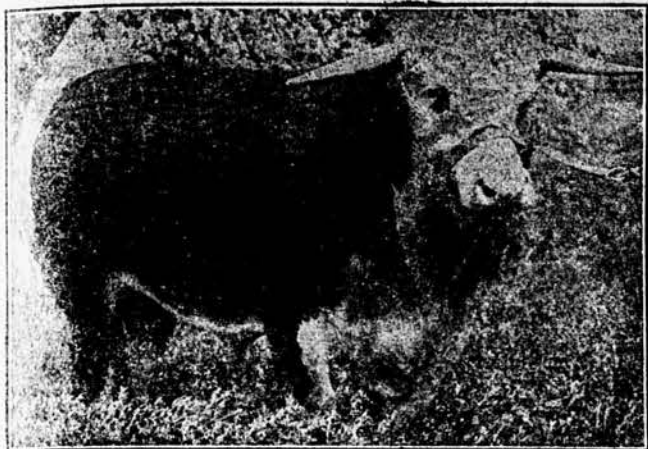
HOLSTEIN CALVES—Ten heifers and two bulls, 15-16ths pure, beautifully marked, 5 weeks old, from heavy milkers. \$20 each, crated for shipment anywhere. Write EDGEWOOD FARM, Whitewater, Wis.

HOLSTEIN BULLS, "REGISTERED"  
Two ready for service. Smith & Hughes, Breeders, Route 2, Topeka, Kansas.

BRAEBURN HOLSTEINS A. R. O. Bull  
H. B. Cowles, 608 Kansas Ave., Topeka, Kan.



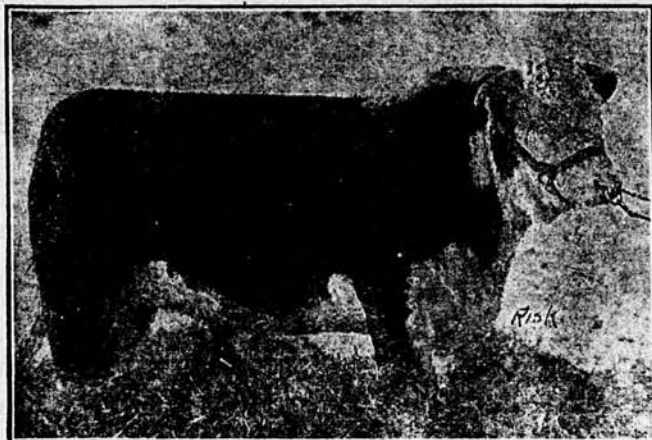
# GREAT HEREFORD OFFERING



Monarch 449994

## SOUTHARD MONARCH Hereford Sale

**COMISKEY**  
Morris County  
KANSAS



Repeater 66th

**Saturday, Oct. 7 125 HEAD Saturday, Oct. 7**

## 105 Cows and Heifers---20 Choice Bulls

Twenty cows, 2 to 4 years old bred and with calves; forty two-year-old bred heifers; twenty-five yearling heifers; twenty big growthy 2-year-old bulls. The offering is one that is sure to have the approval of everyone. It is the best lot of Herefords ever sold from this farm. They are the tops from the Southard herd, with eighteen lots of extra choice heifers and cows consigned by the Howards, neighbor breeders.

The date is Saturday of American Royal week. Special train service from Kansas City and intermediate points over the main line of the Missouri Pacific will be arranged. Send request for illustrated sale catalog today and arrange to attend this great sale.

**J. O. SOUTHARD, - - - - - COMISKEY, KANSAS**

Fred Reppert, V. E. Miller, L. R. Brady, Lester Lowe, Auctioneers

### HORSES AND MULES.



### DEIERLING STOCK FARMS

Have fifteen large, heavy boned, black, registered jacks, 15 to 16 hands high, good heads and ears, good style, good breeders. I have a number of jacks sired by the champion, Pride of Missouri, also several other good herd prospects. In my 1914 sale I sold the champion of Kansas State Fair, 1915, Eastern Lightning, also Demonstrator, first prize aged Jack Missouri State Fair. Reference, People's Bank. Written guarantee with each animal. Have a number of Percheron stallions for sale, also saddle stallions. Barn in town. Wabash Railroad. WM. DEIERLING, QUEEN CITY, MISSOURI.

### POLAND CHINAS

### HORSES AND MULES.

### DEIERLING STOCK FARMS

Have fifteen large, heavy boned, black, registered jacks, 15 to 16 hands high, good heads and ears, good style, good breeders. I have a number of jacks sired by the champion, Pride of Missouri, also several other good herd prospects. In my 1914 sale I sold the champion of Kansas State Fair, 1915, Eastern Lightning, also Demonstrator, first prize aged Jack Missouri State Fair. Reference, People's Bank. Written guarantee with each animal. Have a number of Percheron stallions for sale, also saddle stallions. Barn in town. Wabash Railroad. WM. DEIERLING, QUEEN CITY, MISSOURI.

### POLAND CHINAS.

## ELKMORE FARM POLANDS

Home of Caldwell's Big Bob 76436 by Big Bob Wonder, and Orphan Boy 76818 by The Big Orphan. Grand champion boar at the Kansas State Fair at Topeka, Kansas, 1916, and will be shown at the National Swine Show at Omaha October 2 to 7, 1916. My annual fall sale November 1. Send for catalog.

FRED B. CALDWELL - - - HOWARD, KANSAS

## OLIVER'S POLAND CHINA SALE

GUILFORD, MISSOURI, OCTOBER 19

Forty head choice big-type Polands, consisting of five big high-quality fall boars, seventeen choice spring boars, two yearling sows with litters by Big John B, also sixteen choice spring gilts. The offering is sired by such boars as Big John B, Big Halfton 2d and A Wonder Price and out of A Wonder Equal, Big Halfton 2d, Capital and Iowa King dams. Send for catalog at once.

W. W. OLIVER - - - - - GUILFORD, MISSOURI

## J. O. RILEY & SON'S SPOTTED POLANDS

Sale October 17, 1916. Will sell the tops of 100 head of choice spring boars and gilts. A few extra good fall gilts, also a few choice fall boars. The offering is one of the best we have ever had. Send for catalog now.

J. O. RILEY & SON - - - - - CAINSVILLE, MISSOURI



### Faulkner's Famous Spotted Polands

We are not the originator, but the preserver of the old original big-boned Spotted Polands. The oldest and largest herd on earth. Every hog recorded in the recognized records. Breeding stock for sale at all times.

H. L. FAULKNER, Box K - Jamesport, Missouri

### OLD ORIGINAL SPOTTED POLANDS

150 choice spring pigs left, sired by seven of the very best boars of the East and West. Priced right. Write your wants to the CEDAR ROW STOCK FARM, A. S. Alexander, Prop., Burlington, Kansas

WHEN WRITING TO ADVERTISERS PLEASE MENTION KANSAS FARMER

### DEMING RANCH POLANDS

Will be at Topeka, Hutchinson, Oklahoma City and Muskogee fairs. Over two hundred April and May pigs that will suit breeders wanting big high quality Polands.

THE DEMING RANCH, OSWEGO, KANSAS

H. O. Shelden, Herdsman

### Poland China Boars and Gilts

Twenty-five early spring boars and twenty-five gilts. Sired by I Am King of Wonder and Watt's King.

WM. WATT & SON - GREEN CITY, MO.

LANGFORD'S SPOTTED POLANDS. Last call for early spring pigs. Extra good young boars. T. T. Langford & Sons, Jamesport, Mo.

### I AM CLOSING OUT

My Big-Type Poland Chinas. Prices right. LOU LE FEVRE, COLLINS, MO.

## SIGEL BROWN'S FALL SALE ATTRACTIONS

FIFTY HEAD of the most popular bred boars and gilts that will be sold in the state this fall. Sale will be held on the farm near Carthage and

Reeds, Missouri, Tuesday, October 10, 1916

10 Fall Boars :: 10 Spring Boars :: 10 Fall Gilts  
15 Spring Gilts

Sired by A. Wonder Joe, Smooth Columbus, Master Orphan, Surprise Wonder.

Boars that have been in the limelight for several seasons and whose get are in demand from all sections. These pigs are out of sows by BIG TIMM, LONG WONDER, A WONDER, BIG JOE, SMOOTH COLUMBUS, LONG JUMBO JR., BIG BONE JUMBO, BIG WONDER, M'S PIONEER CHIEF PRICE, and other noted sires.

### THE ENTIRE OFFERING IS IMMUNE

and in this sale will be presented the best lot of values to be sold this fall. Be sure and get my catalogue and be sure and mention Kansas Farmer.

**SIGEL BROWN, Reeds, Mo.**

O. W. Devine, Fieldman Jas. E. Duncan, Auctioneer

Come to Carthage, where automobile transportation will be furnished to and from sale.

### POLLED DURHAM CATTLE.

### Polled Durham Cattle

HOME OF THE CHAMPION TRUE SULTAN. SEE MY SHOW HERD AT THE LEADING STATE FAIRS

Ed. Stegell  
STRAIGHT CREEK - KANSAS

### CHESTER WHITE HOGS



### CHESTER WHITE HOGS

For Sale—Spring boars and gilts from state fair winners. COLEMAN & CRUM, Danville - - Kansas

PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS



NOTE—This company is, always has been, and always will be **ABSOLUTELY INDEPENDENT**

# The National Refining Company wants to have a **Word with You** —and it will pay you to read this



**For you Men of Affairs, Farmers, Merchants, Manufacturers, Doctors, Bankers and General Business Executives—you men who are interested in Motor Cars and are certainly interested in what is the best oil to use for lubricating your Motor Cars and all Power Machinery.**

For 34 Years—Always  
the Sign of Independent,  
Unqualified Satisfaction

**YOU** are particularly interested right now because of widely published claims as to the superiority of this or that make of Oil or Gasoline, and because of almost universal advance in prices. So it is our desire, in this announcement, to make no claim whatsoever for En-ar-co National Carbonless Motor Oil and White Rose Gasoline that is not instantly and continuously provable. To establish in your mind, the exclusive, superior qualities of En-ar-co National Carbonless Motor Oil and White Rose Gasoline, we know of no stronger statements that can be made than these:

## —Most Perfect Lubrication —Greatest Power Per Gallon

We have continuously lubricated and supplied our products for every make of car, both American and European. We have lubricated every make of pleasure car built. We have lubricated every make of auto-truck built.

For this purpose we have furnished En-ar-co National Carbonless Motor Oil and White Rose Gasoline, and in every instance we are advised by the owners that White Rose Gasoline furnishes more power, gives quicker life to the motor, lubricates smoother, causes less wear and less repair bills than any other motor oil.

Back of this statement we claim that the proof is the fact that our sales on En-ar-co National Carbonless Motor Oil six months of the year 1916 have increased over one hundred per cent.

## —Tremendously Increased Sales —Twelve Million Gallons

Our sales have been 23,000 barrels of En-ar-co National Carbonless Motor Oil the past six months. Our sales of White Rose Gasoline have been twelve million gallons the first six months of this year. When we say this is one hundred per cent greater volume than last year, can we give you any more

positive proof that the people who use, and year after year insist on getting, White Rose Gasoline and En-ar-co National Carbonless Motor Oil want them and tell their friends about them because their *Quality* is proven in actual use?

## —Thirty Years of Service

The National Refining Company has maintained its own private laboratories for a period of thirty years. This Company has always made greater progress in producing Quality Oils than any other refinery in the United States. White Rose Gasoline has been the highest priced Gasoline on the market for thirty years because the quality has always been so much superior to any other manufactured. And, when a perfect Oil was demanded for automobile lubrication, our laboratory worked for a period of two years to produce such an oil, and the evidence that we produced superior quality is the fact that our En-ar-co National Carbonless Motor Oil is lubricating many thousands of all makes of cars and the owners re-order and say it is the Best Oil that they have ever been able to find, and regardless of price the most economical in every way.

*Frank V. B. Fetter*

Vice President.

## Here Are Six Highest Grade Refined Products Made



### National Carbonless Motor Oil

Proved highest quality by years of most practical tests and use. Guaranteed clear, clean, carbon-free. Lubricates perfectly without carbonizing. Guaranteed to eliminate costly repair bills, caused by friction, and to give perfect satisfaction in any make of automobile, motor boat or power engine. Try it.



### White Rose Gasoline

Thousands of car owners refuse any other. Pure, dry, carbon-free gasoline. Every drop is power. Always uniform in quality. Insures continuous power—even pull—quick get-away—a silent, flexible power that means far greater mileage per dollar. Prove these facts easily by trying it.



### National Light Oil

The bright-burning oil—the A1 oil for lamps—no odor—no black chimneys. Best also for oil heaters; for the hot-weather oil cook stove; for incubators and brooders. Insist on getting this oil for most perfect satisfaction.

**Remember:** Thousands of enthusiastic testimonial letters from owners of every make of car, in every State in the U. S., say that National Carbonless Motor Oil, which they have used for six months to many years, is the *most satisfactory*, cuts out *carbon trouble*, is most economical *per dollar cost*. Most of these also always use White Rose Gasoline and will accept no other. Copies of such letters from your locality gladly furnished on request.

## Always in Close Touch with Farmers' Needs

As you use En-ar-co Products, manufactured by The National Refining Company, you will realize quickly that we satisfy every need for their purposes on every farm. Our close touch with farm progress keeps us in a position where we are able to give you the right product for every farm machine.

You would not want to run the risk of ruining any machine by a harmful oil. This would be a great waste. It is absolutely unnecessary. We have spent thousands of dollars in experiments so that we can recommend each of our *En-ar-co Products* as the very highest quality. This, in the long run, means a great saving to you. It is insurance that costs you practically nothing.

We recommend to you for every farm purpose the exact kind of oil or oil product which you should use so as to get the greatest amount of work out of your machines and at the least cost per dollar.

Fill out this coupon and mail it to us with two 2c stamps to partially pay postage and packing of our Handy Oil Can shown here, and let us also send you more facts and literature free, about our En-ar-co Products. Write today. Sure.

**The National Refining Company**  
General Offices, 1124 Rose Building, Cleveland, Ohio



### Black Beauty Axle Grease

Absolutely superior to any other and goes twice as far as ordinary grease! Won't spoil. Packed in useful galvanized pails. Friction-free, wear-resisting. No compound to clog and gum. Wagons last twice as long and the load for the horse much lighter. Practical farmers everywhere refuse to use any other. Try it.



### En-ar-co Tractor Oil

You need this especially made oil for modern tractors. Has proper body to lubricate most efficiently. Hundreds of farmers tell us they have never been able to match its quality. Try it; prove these facts to your lasting profit.



### National Frictionless Compound

The leading grease for auto use in screw-compression cups, crankpins, cross heads, valve motions, eccentrics, slides, pillow blocks, main journals, and in all heavy open bearings. Matchless in quality. Try it.



Sent  
FREE

The National  
Refining Co.  
1124 Rose Bldg.  
Cleveland, Ohio.

I own  
(Give name above)  
automobile or tractor  
and inclose two 2-cent  
stamps. Send me Handy  
Oil Can FREE. Please give  
nearest shipping point in this  
state and quote prices on the  
items I have marked. I will be  
in the market about

(Date above)

I use.....gallons gasoline per year.  
I use.....gallons motor oil per year.  
I use.....pounds axle grease per year.  
I use.....frictionless compound per year.  
I use.....gallons kerosene per year.  
I use.....gallons tractor oil per year.

My Name is.....  
R. F. D. .... Postoffice..... State.....

Tear or Cut Out—Mail Today  
—Pencil Answers O. K.