

# KANSAS FARMER

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FRANK IAMS' PERCHERONS AT THE INTER STATE LIVE STOCK EXPOSITION, ST. JOSEPH, MO.

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# KANSAS FARMER.

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"Commercial airships in five years" is the prediction of Thomas A. Edison.

As an illustration of what can be done by suitable cultivation, pruning, and spraying, E. F. Stephens, of Crete, Neb., has just picked 310 bushels of Grimes' Golden apples from a little less than two-fifths of an acre, or at the rate of 775 bushels of apples per acre.

It is reported that W. A. Dawson, of Iola, Kans., is constructing a working model of an automobile plow of his invention, and expects to have it ready for use this fall, and that W. H. Leavitt, of Paris, Mo., has one already perfected which he claims is a success and will plow an acre of ground an hour with 14 cents' worth of gasoline.

The white frost of September 28 over a large portion of Kansas found more than the usual amount of immature crops. Conditions in the early part of the season made it difficult to plant corn at the usual dates. Some was planted in July. This has in many instances made a good growth and if cut immediately will be good feed. Tender garden truck, especially that on the river bottom lands so much liked by market gardeners, is badly killed.

Appreciation of favorable mention in print is a virtue possessed by all civilized human kind. Recognition of this fact is one of the first requisites to success of the reporter for the daily or the weekly newspaper. Readers are glad to see printed complimentary notices well deserved. The subjects of these notices sometimes develop a morbid appetite for this kind of notoriety. Such can endure an amount of fulsome eulogy that would produce mental nausea in the normal person. It is well to call attention to the meritorious in people; far better than to continually expose to view the follies and vices of the defective. There are, however, limitations suggested by good taste and right breeding.

## DO YOU GET YOUR PAPER?

On account of the large number of subscribers being sent in by our solicitors at the various fairs, it is possible that mistakes may occur resulting in

the subscriber not getting the paper promptly. We wish every subscriber to get his paper, and any error will be quickly corrected upon notification. If any of our subscribers know of friends or neighbors not receiving their paper, kindly notify us.

## WHAT BECOMES OF THE BALANCE OF TRADE?

The exhibits of the aggregate amounts of exports from the United States and of imports to the United States have for many years been pleasant to look upon. The fact that a very large part of the exports were contributed from the farms while the imports of agricultural products were comparatively light has been made the occasion for much laudatory congratulation of the American farmer. Indeed, the "balance of trade" in favor of this country would be nothing to brag of if the agricultural products were stricken from both sides of the account.

This balance of trade, that is the excess of the value of products exported over those imported, during the ten calendar years ending December 31, 1907, was over five billions of dollars as reported by the Secretary of the Treasury. The exact amount of this excess for the ten years plus the first seven months of 1908 was \$5,424,847,834.

It is a pertinent question what became of this money. At the beginning of the ten-year period the Treasury reported the amount of money in the United States to be \$2,582,492,010. Adding to this the excess of exports over imports, as above, should give a grand total of \$8,007,339,844, on August 1, 1908. The Treasury report for August 1, 1908, shows the total amount of money in the United States in the Treasury and in circulation on that date to have been \$3,376,125,391, leaving unaccounted for the vast sum of \$4,631,214,453.

Doubtless some of this money has gone to repay money borrowed in foreign countries in the financing of great enterprises. Some has gone to pay the traveling expenses of Americans in foreign lands. Some has been invested in dukes, princes, and trouble for the daughters of rich and foolish Americans, and in supporting in voluptuous idleness and wantonness these unwise purchases.

But ought not American statesmanship, in devising the greatest good for the greatest number, to find a way to have these billions worth of food and fiber enjoyed by the people whose labor brings forth the vast volumes of value?

## ALFALFA PRACTICALLY CONSIDERED.

The latest word on alfalfa is Bulletin 155 of the Kansas Experiment Station. It is doubtful if anywhere can be found crowded into 168 pages so complete practical information on this most profitable of Kansas plants.

Several members of the Experiment Station staff have contributed to the work, but none will be surprised and many will be pleased to know that the major portion came from A. M. Ten-Eyck. Other contributors are G. F. Freeman, H. F. Roberts, W. E. King, J. T. Willard, R. J. Kinzer, G. C. Wheeler, and T. J. Headlee.

In his introductory, Director Charles W. Burkett says in part:

"Alfalfa is the imperial forage crop of Kansas. While other field crops surpass in acreage and total yield, in net returns per acre alfalfa is clearly in the lead.

"The empire over which alfalfa rules, while not as large as that of corn or wheat, is yet the most remarkable because of the quality and riches that follow in its wake wherever this monarch goes. The time is not far distant when alfalfa will occupy every available acre in every congenial area in the State; when the demand for the crop and for its products for seed and hay at home and for meal abroad will be even greater than the supply.

"To-day interest in this crop is unprecedented. Scarcely a day passes that a score or more of inquiries are not made of the station in reference to

alfalfa alone. To supply the demand for definite information concerning this wonderful plant, the several members of the station staff have prepared this bulletin, presenting a brief but comprehensive resume of the latest knowledge of the crop."

It will pay every reader of THE KANSAS FARMER who is not on the Experiment Station mailing list to write immediately for a copy of Bulletin 155. Address, Director Experiment Station, Manhattan, Kans.

## ENFORCING THE PURE FOOD LAWS.

Persons who sell food stuffs have long been compelled to meet unfair competition from adulterations and substitutes, while persons who buy have been uncertain about obtaining what they pay for. The sudden change in the situation, brought about by the National and State pure food laws, has been a surprise to some of those who have been accustomed to "fake" the public.

A case is reported from the State Fair at Hutchinson wherein State Food Inspector Kleinhans caused the arrest of a man who displayed big piles of apples and cider mills as signs of pure cider and sold only a doctored-up substitute produced at a cost of about \$1.25 a barrel.

It is quietly announced by the Kansas State Board of Health, which has in charge the enforcement of the pure food laws, that time enough has been given for everybody to have ascertained the provisions of the law and to have arranged to comply therewith, and that speedy arrest and prosecution are in store for those who would get rich by defrauding the public "contrary to the statute in such cases made and provided," whereat honest people who sell and all who buy should rejoice.

## LABOR AND PRODUCTION.

There comes out of the East an occasional allusion to the fact that undesirable numbers of persons are out of employment.

There comes from the farms of the West the oft repeated statement that farmers are working 12 to 16 hours a day to keep up with their work.

There comes from the philanthropist the inquiry, why do not these farmers employ these unemployed and needy laborers?

It is probably true that there is scarcely a farm in all the rich and productive West but that would be improved in production and attractiveness if more labor were expended upon it. But the question which the farmer as well as every other employer must ask is, will the product of additional labor be worth the cost of the labor together with sufficient margin of profit to make the investment desirable?

In the case of some employers the doubt is resolved in the negative.

The old law of supply and demand may be suspended or modified as to the compensations received by some individuals, but its economic correctness in general application is reinforced by the recurrence of times of depression and idleness.

## THE TRANS-MISSISSIPPI COMMERCIAL CONGRESS.

This organization, which, during the twenty years of its existence, has successfully crystallized the commercial sentiments of the States west of the Mississippi River, has proven to be a great factor in influencing public opinion; and, to its efforts largely is attributed much of the legislation which the National Congress has passed for the benefit of the Trans-Mississippi country.

The Congress is peculiarly commercial organization, with delegations appointed by the Governors of the Western States, mayors of the various Western cities, and by commercial, industrial, manufacturing, maritime, and kindred associations.

These meetings have grown to such an extent that, each year, more than three thousand delegates are appointed, and there is an attendance of over

two thousand delegates, composed of the most representative men.

The sessions of the Congress, wherever held, excite great interest, because of the high character of the men who attend the meetings and the importance of the subjects discussed.

The next meeting in San Francisco, October 6-10, 1908, will be no exception to the rule, and the indications are that this will be the greatest meeting that it has yet been the province of the organization to inaugurate.

The topics for discussion are great public questions, and those which bear particularly on Trans-Pacific and Oriental problems will, of themselves, be sufficient to excite very general attention.

Exceptionally low rates from all points have been made.

For full information write to E. L. Lomax, General Passenger Agent Union Pacific, Omaha, Neb.

## ENCOURAGING PROGRESS IN COMBATING HOG CHOLERA.

The immense losses recently suffered by swine-growers on account of hog cholera gives great importance to the following summary of the results of the inoculation of several lots of hogs at the Missouri Experiment Station and reported in the current report of the Missouri State Board of Agriculture:

In lot 1 (pen 3) ten pigs weighing 40 to 60 pounds were placed. October 22 eight head were injected with 20 c.c. of serum B. A. I., from hyperimmunized swine. At the same time each hog was injected with 1 c.c. of fresh virulent hog cholera blood. Two pigs received no treatment, but were left to determine whether the disease would spread from inoculated hogs to those not inoculated. Another pig was inoculated with the infected blood used on the eight head mentioned, to determine whether it was virulent. This pig was put in a pen well isolated from the others, and died November 1 from symptoms of cholera, which was confirmed by the post mortem examination. November 27, one of the "check" pigs that had not been inoculated with serum or virulent blood appeared sick. Two days later, one of the vaccinated pigs of the lot was also sick. The check pig died after a very lingering illness. The vaccinated pig also died at a still later date from an abscess, and there may be doubts as to whether this pig was affected with cholera, although there can scarcely be any doubt in regard to the check pig. The infection probably did not come in this case from the inoculated pigs, but from lot 4, as shall be explained later. All the other pigs of this lot remained perfectly healthy including one of the check pigs which had not been inoculated. On December 10 all the pigs of this pen were exposed to the natural disease, by placing two sick pigs from a natural outbreak of the disease in the pen with these animals. One of these pigs died the 24th and the other on December 28. A post-mortem examination showed a mixed type of cholera and swine plague. These pigs were under daily observation, and up to January 24, no ill effects were seen from this exposure. On this date, two pigs of this lot were fed viscera obtained from hogs which had died from a natural infection of cholera, on a farm several miles from the station. The feeding of the disease organs had no bad effect on the vaccinated pigs mentioned, and none of the other vaccinated animals exposed to them have shown any signs of illness up to the time of issuing this report.

Lot 2 included ten pigs, weighing from 40 to 60 pounds, eight of these were injected with 20 c.c. of the protective serum (B. A. I.), and simultaneously with 2 c.c. of fresh virulent hog cholera blood. A larger quantity of diseased blood was used in this case to determine the protective power of the serum, with varying doses of the infection. This blood was shown to be virulent when used on pigs not protected with serum. These inoculations were made October 22. As in lot 1, two untreated check pigs were placed in the pen.

Up to November 16, twenty-five days

after inoculation, no disease was observed in any of the pigs. On this date one of the [check] pigs which had not been vaccinated became sick and died November 24, after an illness of eight days. The symptoms and post-mortem examination showed the presence of cholera. On November 22, the second check pig became sick and was killed December 2. Post-mortem examination showed hog cholera lesions. The check pigs, is certain, did not contract the disease from the pigs of the same pen that had been injected with both serum and diseased hog cholera blood, but probably got the infection from an adjoining pen. December 10, all the vaccinated pigs were doing well. None had shown any signs of illness. On this date two sick pigs from an infected herd were put in this pen. Two days later one of them died. The other, after several days' illness, recovered. This exposure caused no ill results to the vaccinated pigs. On January 24, two of the vaccinated hogs of this lot were fed diseased viscera from the same source as that mentioned under lot 1. No ill effects resulted to the animals fed, nor to the other pigs exposed to them. All of these vaccinated pigs are, at the present time, alive and in thrifty condition.

Lot 3 (pen 4) contained eight pigs, weight 40 to 60 pounds. October 22, each pig was injected with 20 c.c. serum from same source as that used in lots 1 and 2, but the infected hog cholera blood that was injected at the same time was not freshly collected, but had been preserved for some time in sealed glass tubes. This was sent to us by Doctor Niles of the Bureau; but I was advised later by Doctor Dorset of the Bureau not to use this on account of an unfavorable report that had been received. The unfavorable results were at this time thought to be due to changes that had taken place in this old infectious blood. I deemed it important, however, to test this preserved blood since in practical work in the field, it is often inconvenient to obtain fresh infected blood each time it is needed. Moreover the delay of a week or more in securing fresh infection may at times prove a serious delay. In this lot, three pigs were injected with 1 c.c. of the "preserved" infection and five pigs received 2 c.c. No ill effects were observed from the inoculation of the serum or from the preserved infectious blood, in the different quantities mentioned when the immunizing serum and the infected blood were used simultaneously. To test the virulence of the "diseased" blood, another pig was inoculated with 2 c.c. of the same preserved infectious blood (without the simultaneous injection of the "protective serum"). This pig died ten days later from an acute hemorrhagic type of cholera.

The vaccinated pigs which had also been injected with the same diseased blood showed no signs of illness. On December 2, our records show that all the vaccinated pigs of lot 3 have remained in good health from date of inoculation, fifty-one days before. December 12, all the pigs of lot 3 were exposed to natural hog cholera infection by putting in the same pen a pig that was suffering from the disease. December 28, the sick pig mentioned died. The autopsy showed the hemorrhagic type of hog cholera, complicated with broncho pneumonia (swine plague). December 29, two more sick pigs from an infected herd were placed in this pen. Both these recovered. Up to January 24 none of the vaccinated pigs had shown any sign of illness. On this date two of the vaccinated pigs of this lot were fed diseased viscera—spleen, liver, intestines—from pigs that had died from the natural attack of cholera. January 28, through a misunderstanding on the part of the assistant, this entire lot, including two that were fed the viscera, were inoculated two days later with 1 c.c. each of infected blood from a pig that had died from a natural attack of cholera, and in which the typical lesions of the disease were found; as ulceration of the bowels, enlarged spleen, swollen and hemorrhagic lymph glands, and hemorrhagic spots

on the surface of the kidneys. Notwithstanding this very severe exposure not one of these vaccinated pigs has shown the slightest symptoms of illness of any kind.

These experiments show encouraging progress in the scientific prevention of the dread diseases of the hog.

#### APPLE CIDER AND VINEGAR.

EDITOR KANSAS FARMER:—Will you please tell me how to make the best apple cider and how is the best way to keep it? How long will it keep? How do you make vinegar?

Lincoln County. OLE WILSON.

Where many apples have long been grown, there the cider mill becomes a necessary institution, doing custom work somewhat after the manner of the grist mills of our grandfathers' day. Persons who are very fastidious about having cider made from sound apples, only, with due regard for cleanliness, sometimes revolt at the practice, usual at the big mills, of grinding up rotten apples, wormy apples, worms, etc., and provide smaller appliances for their own use.

Cider in either case is made by crushing the apples and pressing the juice from the resulting mass. The process is not very complicated. Appliances for its execution are on the market and may be obtained through dealers in hardware and implements. The manufacturers will supply full directions for using.

In another place in this paper will be found a summary of results of experiments by the U. S. Department of Agriculture in keeping apple juice from fermentation.

If apple juice is allowed to ferment, very dilute alcohol is produced. On further oxydation this dilute alcohol becomes dilute acetic acid, or vinegar. These processes proceed by aid of the oxygen of the air. Ordinarily in warm weather the alcoholic fermentation begins soon after the apple juice is expressed from the fruit, resulting in "hard" cider. Hard cider from very sweet apples may contain enough alcohol to be intoxicating.

The transformation of hard cider into vinegar is ordinarily a slow process. It may be hastened by allowing the cider to trickle slowly through shavings made from some wood, such as maple, which does not impart an undesirable flavor. This gives an exposure to the air which greatly facilitates the formation of acetic acid, the sour constituent of vinegar.

#### HOW MAY ONE FISH IN KANSAS WATERS?

EDITOR KANSAS FARMER:—Will you please answer through the columns of the next issue of THE KANSAS FARMER the following questions:

Is it lawful to fish in Kansas with a trot line?

Where can I get a complete copy of the game law?

CHAS. H. OREHAUGH.

Crawford County.

Chapter 219, Laws of 1907, provides that it shall be unlawful for any person to catch, take, or attempt to catch or take, from any lake, pond, river, creek, stream, or other waters within or bordering on the State of Kansas, any fish, by any means or in any manner, except by rod and line and fish-hook, or hand line, or set line. There is a further provision which relaxes the law somewhat as to seining in the Missouri River or in the Kansas River below the dam at Lawrence.

The game laws are found in the Statutes, copy of which may be found in possession of any county officer.

Any questions as to administration of the law may be sent to Hon. D. W. Travis, State Fish and Game Warden, Pratt, Kans.

#### AT THE MISSOURI STATE FAIR.

Wednesday, October 7, will be Republican Day at the Missouri State Fair. Hon. Herbert S. Hailey, candidate for Governor, will speak at 11 a. m. and Governor A. B. Cummings, of Iowa, will speak in the evening.

Thursday, October 8, will be Democratic Day, and Hon. W. S. Cowherd, candidate for Governor, will speak at 11 a. m. and a National speaker will be secured for the evening.

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When we first notify you that your subscription has expired you should send your renewal at once. Should you receive a renewal blank after having sent your order for renewal, please disregard the notice. Owing to the fact that our circulation is growing so very rapidly we are obliged to make up our lists several days in advance of publication day, hence orders for change of address must reach us not later than Monday of any one week in order to become effective with that week's issue. New subscriptions which are received by us on or before Wednesday of any week will begin with that week's issue.

Address, THE KANSAS FARMER CO., Topeka, Kans.

#### CONCRETE FLOOR FOR GRANARY.

EDITOR KANSAS FARMER:—I am going to build a granary and I am thinking of putting in a concrete floor to keep out rats. Do you think this is a good idea or would the floor draw too much moisture and injure the grain?

J. P. KLAMM.

Leavenworth County.

Any reader of THE KANSAS FARMER who has had experience from which to answer this inquiry will confer a favor by answering through these columns.

Reports of disastrous drouths come from points of Illinois, Indiana, Ohio, West Virginia, Pennsylvania, New York, and New England. The drouth is accentuated by disastrous fires in many parts of the forest regions of the northern border. Serious damages to crops from the drouth and appalling losses of lives and property from the fires have occurred.

## Miscellany

#### Ice-House on the Farm.

EDITOR KANSAS FARMER:—I am contemplating building an ice-house. My plans are to build it out of stone with walls 18 inches thick, to be 12 by 14, 12 feet high with shingle roof, to be dug in hillside which will put most of building in the ground. I was thinking of lining the building with boards, with say 2 by 4 or 2 by 6 between lining and wall, or will a lining be necessary? Will ice keep as well in stone house as it would in frame house? As I am inexperienced, please inform me through the columns of your valuable paper, the best and safest house to build. C. E. W.

Atchison County.

An inquiry similar to the foregoing was answered quite fully in THE KANSAS FARMER of September 14, 1905, by Prof. O. Erf, then of the Kansas State Agricultural College, now of the Ohio State University. For the benefit of those who desire to erect ice-houses this fall, Professor Erf's discussion of the subject is here reproduced:

There are a number of very important points to be considered in building an ice-house. First is the location—whether it should be built above the ground or in the ground. Owing to the fact that the soil temperature is seldom higher than 52° F., while the air temperature varies from 32° to 110° F. during the ice-storage season, it is ordinarily supposed that an ice-house built in the ground would be more efficient than one built above ground. Experience has proven this not to be the case. While it is a fact that the average temperature above the ground during the ice-storage season is higher than the soil temperature, the soil on the other hand is a better conductor of heat. For instance, the heat units transmitted per square foot through one inch in thickness, per hour, with a difference of 100° in temperature, show that air transmits only 43 units, while ordinary soil transmits 335 heat units per hour through the same dimension and under the same conditions. This shows that air is eight times more efficient than soil for insulating purposes. It is, therefore, advisable in every case to build an ice-house above

ground, where economy is sought and the conditions are such as make it possible to build it above ground. These conditions nearly always exist on the farm. The ice-house should always be built in a dry place, so that none of the ground-water and ice-water remains in contact with the ice, for water is a good conductor of heat and melts ice very rapidly, the heat being conducted from the ground below the ice-house. To avoid this, one or two tile drains, depending on the size of the ice-house, should be laid below the ice. On top of this, place a layer of cinders; or if cinders are not available, a layer of coarse sand, at least one foot in thickness. On top of this sand place a foot of insulating material, such as is commonly used, either tan-bark, saw-dust, planer-shavings, or swamp or prairie hay. This will prevent the ingress of warm air, and will drain the water from the melting ice.

Efficient insulation is the next principal consideration. The house should be built as nearly square as possible. The roof should have a good pitch, and both gable ends as well as the top should be ventilated.

A plain house may be built of frame, with two-by-ten studding, lined inside with tar-paper and one-inch boards, the outside to be lined with one thickness of boards and two-ply paper, and the ten-inch space between should be filled with the insulating material that is available. Care should be taken that the insulation between these spaces is not packed too solidly, for the firmer the insulating material is packed, the better conductor of heat it becomes. To make it still more efficient, a four-inch air space on the outside of this is very useful, especially for small ice-houses, for the outside air space helps materially to insulate. This is then carried outside with tongue-and-groove weather boarding. The roof may be covered with paper or shingles or such material as can be conveniently obtained. However, it is very important that the roof should be water-tight to prevent the dripping from warm rains running in upon the ice.

A cheap and effective insulating material frequently becomes quite a problem in some farming localities. Anything that is very light and porous may be considered as a fairly good insulator, if not of a metallic nature. Sawdust, tan-bark, planer-shavings, or prairie hay can be had in many of the States, and are the best for the money that can be secured. However, if none of these are obtainable, cut rye or wheat-straw, or alfalfa-chaff may be used. If straw is used for insulating purposes, the insulated space in the walls should be at least, fourteen inches thick. Wherever coal sparks can be obtained it is advisable to use these, especially in preference to straw or corn-stover on and around the base of the ice-house. Coal sparks are very light, and are about as efficient as charcoal for building refrigerators, but owing to the scarcity of sparks they are seldom used. These sparks are located in the front end of the boiler of a locomotive, and they should never be mistaken for cinders. Sometimes prairie hay or swamp hay is used, and wherever such material as the wire swamp-grass can be obtained, it has proven to be excellent for packing ice.

The ice-house on the farm is becoming one of the necessary adjuncts in

agriculture, for there are hardly any of the perishable products the farmer raises which do not deteriorate more or less before they can be delivered to market, sometimes causing great loss to the individual. This loss could probably have been saved if ice had been available. This is especially true in dairying, fruit-growing, or truck farming and poultry work. Besides this, ice adds materially to the relish of food-products consumed at the table. There is no question but that much of the summer troubles and ill-health of the average farmer is due to the fermented food-products which he consumes, which would not be the case had the food been kept on ice and properly served.

#### Missouri State Fair Will Be the Largest Exhibition Ever Held in the State.

The entries for the 1908 Missouri State Fair closed Saturday night, September 26. The entries in each department are more than twice as many as they were last year, giving assurance that the Missouri Exhibition this year will be the best and greatest in the history of the Missouri State Fair. The entries of live stock are especially large, especially in sheep, horse, and cattle departments. There will not be sufficient space in the sheep and swine buildings to accommodate all of the pens which will be at the fair for exhibition, and room will have to be provided for them elsewhere. All of the best herds and pens of live stock which have been on exhibition at the State fairs in Ohio, Nebraska, Illinois, and Wisconsin will be at the Missouri Fair, and the wonderful stock shows of previous years will be entirely eclipsed at Sedalia during the first week of October, 3 to 9, inclusive.

There are two feature events which are attracting State-wide interest. The first is the Missouri futurity races, races between Missouri-bred 3-year-old colts which were nominated in 1905; the other is the challenge stallion race between four of the fastest trotting sires in the West. The horses are: Early Reaper, Falmont, Ashbrook, and Roll On, owned respectively by E. Knell, of Carthage; B. B. Johnson, of Joplin; Messrs. Todhunter & Catron, of Lexington; and L. S. Meyer, of Springfield. Each of the owners have put up \$250, and the State Fair added a like amount, making the purse \$1,250, all of which goes to the winner of the race.

The entries in the different races at the Missouri State Fair are larger than ever this year. The entries ranging from six to nineteen in each harness event. The stars of the 1908 racing season will be at the fair, among them Citation, who has just made a world's record at Columbus, Ohio. The running races will be better than in former years, a feature card being the Great Missouri Derby.

Cheap rates and excursion rates from everywhere.

The managers of the Crittendon Home, Topeka, ask us to say that they hope their farmer friends will remember them with donations of apples, potatoes, tomatoes, green or ripe, onions, turnips, and cabbage. Leave such at the Home, or Carrier's grocery, 2222 Lincoln St.; Mrs. Grigg's, 1927 Harrison St.; Mrs. Otis, 15th and Adams Sts.; E. W. Hughes' furniture store, 822 Kansas Ave.; Mrs. Van Cleave's, 206 Winfield Ave., Oakland; or Mrs. Wilkie's, 1261 Clay St.

#### Commercial Grading of Grain.

Several grain exchanges, including Chicago and Omaha board of trade, have joined to make the National Corn Exposition, which will be held in Omaha in December, a great educational event. Inspectors from the cash floor will aid in judging the different grain and will lecture before the students taking part in the judging contests. Representatives from the large milling interests will lecture upon the use of the surplus millions of bushels that annually leave the farm, and they will demonstrate the many uses made of the several grades of grain. The grain-grower, grain-dealer, and grain-

exchanges will all welcome this great educational opportunity to study the different branches of grain business. We need to find a type of oats and wheat that will give a larger yield and command the highest market price. It is time that oats and wheat be grown for special purposes that will satisfy the demand by the various milling interests. The \$800 thrashing outfit which will be offered as a special premium on oats, should bring out a great showing.

#### Advertising Pays Farmers.

Believing that what benefits merchants, manufacturers, and others will also be a help to the farmers, Otto Miller, a local farmer, will try advertising the products of his farm, and he has contracted for space for a year in the local paper.

"I don't see why a farmer can not get just as much benefit from advertising as anybody else," Mr. Miller says. "He always has something to sell and often wants to buy something, for which he does not know where to look. Oftentimes I have found after making a long trip to town to buy something that one of my neighbors had what I wanted and that it was for sale. Undoubtedly my neighbors have had the same experience. Now, I am going to try advertising and firmly believe it will prove a help and be a good investment. I am hoping that other farmers, and especially my neighbors, will take up with the idea and when they do I believe we will all save time, trouble, and money."

### Stock Interests

#### Changes in Live-Stock Quarantine Regulations.

The good headway being made by the Bureau of Animal Industry in cooperation with State authorities, in the eradication of scabies in sheep and cattle is shown by the proposed early release of considerable territory from quarantine.

Word comes from Washington that the Department of Agriculture will soon issue an order (B. A. I. Order 152) releasing portions of North Dakota, Oklahoma, and Colorado from quarantine on account of scabies in cattle. The territory released is as follows: The counties of William, Ward, McLean, Wells, Eddy, Foster, Stutsman, Kidder, Burleigh, Emmons, Logan, and McIntosh in the State of North Dakota, a portion of what was formerly Woodward County of the Territory of Oklahoma, and the counties of Boulder, Jefferson, Denver, Douglas, Teller, Custer, the remainder of Larimer and Fremont Counties, a small portion of Arapahoe County, and those portions of El Paso, Pueblo, Huerfano, and Las Animas Counties lying west of the Eighth Guide Meridian West, in the State of Colorado. There still remain in quarantine all or portions of Montana, North Dakota, South Dakota, Nebraska, Kansas, Wyoming, Colorado, Oklahoma, Texas, and New Mexico.

Amendment 2 to B. A. I. Order 146 will also soon be issued releasing from quarantine on account of sheep scab the States of Kansas and Nebraska, that portion of North Dakota lying north and east of the Missouri River, and that portion of South Dakota lying east of the Missouri River. The territory remaining in quarantine for sheep scab consists of the entire States of Washington, Oregon, Montana, California, Nevada, Utah, Colorado, and Texas, the Territories of Arizona and New Mexico, and parts of North Dakota and South Dakota.

Special orders will also be issued permitting, under certain conditions, the importation of Canadian cattle for exhibition and of Canadian sheep for exhibition at the International Live Stock Exposition, Chicago, November

28 to December 10, also for the shipment of cattle from above the Texas fever quarantine line for exhibition at the Georgia State Fair at Atlanta, October 8 to 24.

Copies of any of the regulations above referred to, giving particulars as to the matters covered, may be obtained on application to the Chief of the Bureau of Animal Industry, Washington, D. C.

#### Two Feeder Contingents.

The new range cattle and sheep departments of the American Royal seem to have filled a niche disappointingly vacant in the previous shows, and which the improvement of range stock has made more conspicuous. Hot competition is expected between two range districts, the Northwest and the Southwest, as to which produces the best cattle for feeding. The prizes in the various classes, all given by the Kansas City Stock Yards Company, are liberal, \$50 for firsts and \$25 for seconds, and the sweepstakes prize, \$100 first and \$50 second, for the best carloads from either of the two districts, will richly reward the careful breeder, besides the honor which he will win for his district. The division of the range department by districts was necessary because of the usually different character of the equal quality from the Northwest, Colorado, Wyoming, Utah, and Idaho, and the Southwest, Texas, Arizona, and New Mexico.

A gratifying phase of the addition of departments for range cattle and sheep in carlots is the interest taken by the feeders of the corn belt, who expect to pick out fine loads to feed this winter. The range owner who wins a prize will also probably get fair prices for his cattle or sheep, while the exhibitor who does not get a prize will, as well as the winner, have the opportunity to show the farmer from farther East the kind of feeding stock he raises. Perhaps in no other way could the two factors in the live stock movement be brought into such close relations, valuable for both of them.

#### How to Handle Sick Stock.

DR. DAVID ROBERTS, WISCONSIN STATE VETERINARIAN.

Place the sick animal in a well disinfected and dry box stall with plenty of bedding and sunlight (avoid drafts). In cold weather place a blanket on the animal, feed sparingly with digestible food, such as bran mashes made with linseed tea; keep manger sweet and clean. Water should be pure and clean, and warmed when necessary.

It is always necessary that new milch cows be given warm water. An injection of warm water (per rectum) should be given all sick animals, excepting those afflicted with looseness of the bowels.

### The Veterinarian

We cordially invite our readers to consult us when they desire information in regard to sick or lame animals, and thus assist us in making this Department one of the most interesting features of The Kansas Farmer. Kindly give the age, color, and sex of the animal, stating symptoms accurately, and how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply, all letters for this Department should give the inquirer's postoffice, should be signed with full name and should be addressed to the Veterinary Department, The Kansas Farmer, Topeka, Kansas.

**Ailing Cow.**—I have a red, 5-year-old shorthorn cow that has been ailing since she had a calf, July 6. She coughs quite often. She has been falling off in flesh and is now very thin. She has been on good prairie pasture and is now on meadow and I feed her corn chop and bran. She eats but very little. She lies down part of the time and never chews her cud. Her bowels have been rather loose but are all right now. Her hair is good and her eyes are a little morbid. She

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drinks all right. She seems to be full or bloated most of the time, being perfectly round on the left side and a little sunken on the right.

What is the trouble, and what can I do for her? Z.

Howard, Kans.

Ans.—Give two pounds of Epson salts in solution. The next day give one quart of raw linseed oil in which add two ounces of turpentine and one ounce of aqua ammonia.

In a paper presented before the American Veterinary Medical Association at Philadelphia on September 10, Dr. R. A. Ramsay, Associate Chief of the Inspection Division of the Bureau of Animal Industry, gave some interesting information concerning the Bureau's work for the control and eradication of scabies of sheep and cattle in the Western States. To show the magnitude of this work Doctor Ramsay stated that during the last fiscal year, ending June 30, 1908, Bureau employees supervised 17,589,578 dippings of sheep and 1,523,290 dippings of cattle.

#### Books You Need.

"A Handy Farm Library" is the appropriate title of a comprehensive work of ten neat volumes published by the Farm Journal and written by Jacob Biggie, an authority on everything pertaining to the farm. These attractive books are crammed, packed, and saturated with helpful, practical suggestions and valuable facts in every branch of farming. Any one book is worth more than the cost of the ten. Take the Poultry book for instance, the subjects of housing, feeding, treating the various diseases of poultry are taken up in detail and carefully covered. How to fatten young turkeys. What breeds of fowls pay best. How to get rid of weasels, minks, skunks, foxes, and hundreds of other matters are thoroughly discussed.

The Horse Book, Sheep book, Swine book, Cow book, all are equally interesting, equally rich in important information that only the old, experienced farmer could possibly know—and even he might never have learned. To the younger members of the family the Pet book will especially appeal, treating as it does on subjects dear to the heart of girls and boys the world over. One chapter tells about teaching dogs new tricks, another takes up the subject of rabbits—their hutchies and diseases. There is an intensely interesting chapter on canaries—also on pigeons—mating—feeding—raising for profit, etc.

Then for mother and the older girls there is the Berry book—full of good things too numerous to mention. These books are destined to fill a long-felt want and all progressive farmers should avail themselves of the pithy experience and boiled-down common sense they contain. They are a vast storehouse of useful farm facts.

Any one of these books by a special offer may be had with a five years' subscription to the Farm Journal at \$1. Write to the Farm Journal, 1012 Race St., Philadelphia, for information as to how you can get the other nine volumes free, or see advertisement which appears elsewhere in the paper.

#### Railroads Want Ambitious Young Men.



Railroad business has shown a remarkable growth during the past ten years, and last year the railroads were not able to handle the traffic. During the past few weeks there has been a great revival following the general depression. The indications are for a very heavy fall business, and it is prophesied by some that the year 1909 will be the biggest in the history of the railroads. Railroads need hundreds of young men as firemen and brakemen but they expect applicants for these positions to have some knowledge of the work, before taking employment. The National Railway Training Association, N. 61, Omaha, Neb., supplies hundreds of young men for these positions, and we recommend that all who wish such employment, correspond with the Association in response to its advertisement on page 1021.

**DON'T BUY GASOLINE ENGINES UNTIL YOU INVESTIGATE "THE MASTER WORKMAN,"**

a two-cylinder gasoline, kerosene or alcohol engine, superior to any one-cylinder engine; revolutionizing power. Its weight and bulk are half that of single cylinder engines, with greater durability. Costs Less to Buy—Less to Run. Quickly, easily started. Vibration practically overcome. Cheaply mounted on any wagon. It is a combination portable, stationary or traction engine. SEND FOR CATALOGUE. THE TEMPLE PUMP CO., Mfrs. Meagher and 16th Sts., Chicago. THIS IS OUR FORTY-FIFTH YEAR.

St. Joseph's Great Live Stock Show

Another meeting of the Inter-State Live-Stock and Horse Show at St. Joseph, Mo., has gone into history.

The morning of September 21 dawned with flattering promise of excellent weather conditions and at eight o'clock the gates were thrown open to the waiting crowds and the great show was on.

St. Joseph has never witnessed such a demonstration in live stock affairs, and the motto "bigger, broader, and better" was realized in most gratifying measure.

It is not the largest live stock show in the country, nor has it been; but for completeness of arrangement, and painstaking care on the part of the management for the entertainment of visitors, few excel it, and much credit is due to the indefatigable efforts of General Superintendent Irwin for the very excellent manner in which the great crowds are handled.

The live stock exhibits were of a high character in all departments, it is impossible to individualize upon all animals shown, but suffice to say that many of them that were shown have a specially fitting place in the annals of any great show.

In the cattle section were to be seen some of the best individuals to be found in the four great beef breeds.

The horse exhibit was especially strong and by far the best that the Inter-State has ever had.

The hog show was quite up to the standard of previous years, and the sheep exhibit marked a vast improvement over any of former shows in this department.

Take it as a whole it was indeed a great show, and it is but reasonable to hope that this exposition will continue on its upward march and become "bigger, broader, and better" as the years go by.

Following are the awards:

SHORTHORNS. Bull, 3 years old or over—First, Choice Goods Model, E. M. Hall, of Carthage, Mo.; second, Bampton Favorite, C. E. Clarke, St. Cloud, Minn.; third, Nonpariel Marquis, W. H. Dunwoody, Minneapolis, Minn.

Bull, 2 years old and under 3—First, Snowflake, Everett Hayes, Hiawatha, Kans.; second, The Dreamer, G. H. White, Emerson, Iowa; third, Lord Norfolk, T. K. Tomson & Sons, Dover, Kans.; fourth, Quartermaster's Model, Arthur Rhys, Columbia, Mo.; fifth, Tillman, H. W. Goff & Son, Darlington, Mo.

Senior yearling bull—First, Clipper's Choice, W. H. Dunwoody, Minneapolis, Minn.; second, Gallant Knight's Heir, T. K. Tomson & Sons, Dover, Kans.

Junior yearling bull—First, King Cumberland, G. H. White, Emerson, Iowa; second, Searchlight, R. L. Harriman, Grove, Mo.; third, Woodhill Starlight, W. H. Dunwoody, Minneapolis, Minn.; fourth, Count Winnifred, C. E. Clarke, St. Cloud, Minn.; fifth, May King, T. J. Wornall & Sons, Liberty, Mo.

Senior bull calf—First, Golden Buttecup, R. L. Harriman, Pilot Grove, Mo.; second, Victor Model, E. M. Hall, Carthage, Mo.; third, Hallwood's Stamp, E. M. Hall, Carthage, Mo.; fourth, Knight Perfection, C. E. Clarke, St. Cloud, Minn.; fifth, Prospector, T. J. Wornall & Sons, Liberty, Mo.

Junior bull calf—First, Knight Templar, C. E. Clarke, St. Cloud, Minn.; second, Golden Archer, W. H. Dunwoody, Minneapolis, Minn.; third, May King, T. J. Wornall & Sons, Liberty, Mo.; fourth, Major Regent, Kansas Experiment Station, Manhattan, Kans.

HEREFORDS. Bull, 3 years old or over—First, Canard, O. Harris, Harris, Mo.; second, Weston Anxiety, Cornish & Patten, Osborn, Mo.

Bull, 2 years old and under 3—First, Beau Carlos, Cornish & Patten, Osborn, Mo.; second, Dislodger, O. Harris, Harris, Mo.; third, Alto Heisod, Mousel Brothers, Cambridge, Neb.

Senior yearling bull—First, Curtis, J. O. Bryant, Savannah, Mo.; second, Principal, Makin Brothers, Grand View, Mo.; third, Glead, Jas. R. Logan, Kansas City, Mo.; fourth, Gomez Perfection, Cornish & Patten, Osborn, Mo.

Junior yearling bull—First, Castor, Jas. E. Logan, Kansas City, Mo.; second, Harris' Prince, O. Harris, Harris, Mo.; third, General Worly, Cornish & Patten, Osborn, Mo.; fourth, Columbus B. J. O. Bryant, Savannah, Mo.; fifth, Paragon, Makin Bros., Grand View, Mo.

Senior bull calf—First, Princess, Mousel Brothers, Cambridge, Neb.; second, Harris' Prince, O. Harris, Harris, Mo.; third, Beau Weston, Cornish & Patten, Osborn, Mo.; fourth, Paragon, Makin Brothers, Grand View, Mo.

Junior bull calf—First, Harris' Prince, O. Harris, Harris, Mo.; second, Anxiety Stamp, Cornish & Patten, Osborn, Mo.; third, Gold Proof, Jas. E. Logan, Kansas City, Mo.; fourth, Gus, J. O. Bryant, Savannah, Mo.; fifth, Harold, Mousel Brothers, Cambridge, Neb.

Cow or heifer, 2 years old—First, Princess Lassie, Mousel Brothers, Cambridge, Neb.; second, Belle Donald, O. Harris, Harris, Mo.; third, Nettie, J. J. Early, Baring, Mo.

Senior sweepstakes bull, 2 years old or over—O. Harris, Harris, Mo.

Junior sweepstakes bull, under 2 years old—Jas. E. Logan, Kansas City, Mo.

Best bull any age—O. Harris, Harris, Mo.

ABERDEEN-ANGUS. Senior yearling bull—First, Oakville Quiet Lad, Otto V. Battles, Maquoketa, Iowa; second, Autocrat, H. H. Hess, Waterloo, Iowa; third, Autumn Star, C. D. Hooker & Son, Maryville, Mo.; fourth, Brookside, Erin, Rosengift Stock

Farms, Kelly, Iowa; fifth, Dutch Proteros, Wheatley & Ward, King City, Mo.

Senior bull calf—First, Quality Prince, Rosengift Stock Farms, Kelly, Iowa; second, Everblack, C. D. Hooker & Son, Maryville, Mo.; third, Questman, A. C. Binnie, Alta, Iowa; fourth, Gay Princess, W. J. Miller, Newton, Iowa.

Junior bull calf—First, Thickest Blackbird, Otto V. Battles, Maquoketa, Iowa; second, Ebony's Quality, H. J. Hess, Waterloo, Iowa; third, Snowflake's King, W. J. Miller, Newton, Iowa; fourth, Microbe, Rosengift Stock Farms, Kelly, Iowa.

GALLOWAYS. Bull, 2 years old and under 3—First, Captain, Straub Brothers, Avoca, Neb.; second, Speculation, C. E. Clarke, St. Cloud, Minn.; third, Tarbooch Edward, C. E. Clarke, St. Cloud, Minn.; fourth, Compact, Straub Brothers, Avoca, Neb.

Bull, 1 year old and under 2—First, Douglas of Meadow Lawn, J. E. Bales & Son, Stockport, Iowa; second, Utility of Otoe, Straub Bros., Avoca, Neb.; third, Noble Standard, Straub Bros., Avoca, Neb.; fourth, Meadow Lawn Victor, C. E. Clarke, St. Cloud, Minn.

RED POLLED. Bull, 3 years old or over—First, Cremo, Frank Davis & Sons, Holbrook, Neb.

Bull, 2 years old and under 3—First, Morning Star, Charles Graff, Bancroft, Neb.; second, Itoo, Chas. Graff, Bancroft, Neb.

Bull, 1 year old and under 2—First, Leon, Chas. Graff, Bancroft, Neb.

Bull calf, under 1 year—First, Favorite, Frank Davis & Sons, Holbrook, Neb.; second, Napoleon, Frank Davis & Sons, Holbrook, Neb.

Cow, 3 years old or over—First, Rupert, Chas. Graff, Bancroft, Neb.; second, Dewdrop, Frank Davis & Sons, Holbrook, Neb.; third, Princess, Frank Davis & Sons, Holbrook, Neb.; fourth, Luella, Frank Davis & Sons, Holbrook, Neb.

Cow, 3 years old or over and under 3—First, Frank Davis & Sons, Holbrook, Neb.

DUROC-JERSEYS. Boar, 2 years old or over—First, C. A. Wright, Rosendale, Mo.; second, H. E. Buchanan & Sons, Lamoni, Iowa; third, White & Dewey, Afton, Iowa.

Boar, 12 months and under 18 months—First, W. J. Constant, Grant City, Mo.; second, Roberts & Harter, Hebron, Neb.; third, White & Dewey, Afton, Iowa.

Boar, 6 months and under 12 months—First, R. A. Horton, Weston, Mo.; second, White & Dewey, Afton, Iowa.

Boar, under 6 months—First, second, and third, R. W. Murphy, Dearborn, Mo.

Sow, 2 years old or over—First and second, Roberts & Harter, Hebron, Neb.; third, White & Dewey, Afton, Iowa.

Sow, 18 months and under 24 months—First, Roberts & Harter, Hebron, Neb.; second, White & Dewey, Afton, Iowa; third, M. F. Buchanan & Sons, Lamoni, Iowa.

Sow, 12 months and under 18 months—First, George W. Manifold, Shannon City, Iowa; second, and third, C. A. Wright, Rosendale, Mo.

Sow, 6 months and under 12 months—First, second, and third, Wheeler & Sons, Cameron, Mo.

Sow, under 6 months—First, R. W. Murphy, Dearborn, Mo.; second, W. L. Wright, Jr., Rosendale, Mo.; third, R. W. Murphy, Dearborn, Mo.

Boar, 1 year old or over—W. J. Constant, Grant City, Mo.

Boar, under 12 months—R. W. Murphy, Dearborn, Mo.

Sow, 1 year old or over—George R. Manifold, Shannon City, Iowa.

Sow, under 12 months—R. W. Murphy, Dearborn, Mo.

Sow, any age—G. R. Manifold, Shannon City, Iowa.

Four animals of either sex, any age, get of one sire, owned by exhibitor—First, R. W. Murphy, Dearborn, Mo.; second, Roberts & Harter, Hebron, Neb.

Four animals of either sex, any age, produce of one sow, owned by exhibitor—First, R. W. Murphy, Dearborn, Mo.; second, Roberts & Harter, Hebron, Neb.

Boar and three sows over 1 year old—First, White & Dewey, Afton, Iowa; second, Roberts & Harter, Hebron, Neb.

Boar and three sows, under 1 year—First, R. W. Murphy, Dearborn, Mo.; second, Roberts & Harter, Hebron, Neb.

Boar and three sows, any age, bred by exhibitor—First, Roberts & Harter, Hebron, Neb.; second, R. W. Murphy, Dearborn, Mo.

CHESTER WHITES. Boars, 2 years or over—First, L. C. Reese, Prescott, Iowa; second, W. W. Waltmire, Raymore, Mo.; third, Sidney D. Frost & Co., Kingston, Mo.

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Waltmire, Raymore, Mo.; second, L. C. Reese, Prescott, Iowa; third, L. C. Reese, Prescott, Iowa. Sow, under 6 months—First, G. W. Sackman, Mirabile, Mo.; second, G. W. Sackman, Mirabile, Mo.; third, L. C. Reese, Prescott, Iowa. CHAMPION BOARS AND SOWS. Boar, 1 year old and over, L. C. Reese, Prescott, Iowa. Boar, under 12 months—L. C. Reese, Prescott, Iowa. GRAND CHAMPION. Competition limited to champion animals—L. C. Reese, Prescott, Iowa. BERKSHIRES. The Berkshire show consisted of the combined exhibits of Mr. and Mrs. W. R. Holt and was a credit to the breed. POLAND-CHINAS. Aged boar—First, Expander, Dawsons; second, Perfection's Choice, Carver. Senior yearling boar—First, Big Medium, Hamilton; second, Colossus, Dawsons. Junior yearling boar—First, Dawsons; second, Gates Bros.; third, Carver. Senior boar pig—First, Dawsons; second, Hamilton & Sons; third, Schmidt & Son. Junior boar pig—First, Dawsons; second, Wright, Jr.; third, same. Aged sow—First, Famo X. L., Dawsons; second, Miss Shattuck, Hamilton; third, Glantess 3d, Wright. Senior yearling sow—First, Dawsons; second, Schmidt; third, Schmidt. Junior yearling sow—First, Schmidt; second, Dawsons; third, Gates. Senior sow pig—First, Hamilton, second, Dawsons; third, Dawsons. Junior sow pig—First, Dawsons, second, Hamilton; third, Dawsons. Senior champion boar—Big Medium, Hamilton. Junior champion boar—Nebraska Mogue, Dawsons. Grand champion boar—Big Medium, Hamilton. Senior champion sow—Famo X. L., Dawsons. Junior champion sow—Colossa, Dawsons. Grand champion sow—Famo X. L., Dawsons. Get of sire—First, get of Grand Look, Dawsons; second, get of Dorsey's Perfection, Schmidt & Son; third, get of I Am Allerton, Hamilton & Sons. Produce of sow—First, produce of Perfection Queen, Hamilton; second, produce of Famo X. L., Dawsons; third, produce of Smlax 2d, Schmidt & Sons. Senior herd—First, Dawsons' Sons; second, Gates; third, Schmidt & Son. Junior herd—First, Dawsons; second, Hamilton & Son; third, Schmidt & Son. Herd any age, bred by exhibitor—First, Hamilton & Sons; second, Schmidt & Son; third, Dawsons' Sons. FERCHERONS. Stallion, 4 years old or over—First, McLaughlin; second, Modoc, Frank Iams, St. Paul, Neb.; third, Minet, Chas. Holland, Springfield, Mo. Stallion, 3 years old and under—First, McLaughlin Brothers, Kansas City, Mo.; second, Joulou, Frank Iams, St. Paul, Neb.; third, Gaspard, McLaughlin Brothers, Kansas City, Mo. Champion stallion, any age—First, McLaughlin, Kansas City, Mo. Mare, 3 years old or over—First, Ermantrude, Charles Holland, Springfield, Mo.; second, Aubepine, Frank Iams, St. Paul, Neb.; third, Marcelline, Chas. Holland, Springfield, Mo. JACKS AND MULES. Jack, 3 years old or over—First and second, Michael Wogan, Easton, Mo. Jack, under 3 years—First, Yates Bros., Faucett, Mo.; second, Ben Daley, South St. Joseph, Mo. Sweepstakes, best jack, any age—Michael Wogan, Easton, Mo. SHEEP—COTSWOLD. Ram, 2 years or over—First, second, and third, Lewis Brothers, Camp Point, Ill. Ram, 1 year and under 2—First, sec-

EARN \$80 TO \$150 A MONTH WANTED—Young Men for Firemen and Brakemen. We prepare you by mail in from four to six weeks for either of the above positions. We have had more calls for our competent men than could be supplied. Positions are secured. Promotion rapid. REMEMBER, this Association is directed by Railroad Officials of four of the largest roads in the United States. If you want to be a railroad man, cut out coupon and send to us at once for full particulars. Write name and address plainly. Many positions now open. Address NATIONAL RAILWAY TRAINING ASSOCIATION OMAHA, NEB. or KANSAS CITY, MO. Name P. O. State Age No.

ond, and third, Lewis Brothers, Camp Point, Ill.  
 Ram, lamb, under 1 year—First, second, and third, Lewis Brothers, Camp Point, Ill.  
 Ewe, 2 years old or over—First, second, and third, Lewis Brothers, Camp Point, Ill.  
 Ewe, 1 year and under 2—First, second, and third, Lewis Brothers, Camp Point, Ill.  
 Ewe lamb, under 1 year—First, second, and third, Lewis Brothers, Camp Point, Ill.  
 Flock, 1 ram any age, 2 yearling ewes and 2 ewe lambs; first and second, Lewis Brothers, Camp Point, Ill.  
 Four lambs of either sex, get of one sire—First and second, Lewis Brothers, Camp Point, Ill.  
 Champion ram, Lewis Bros., Camp Point, Ill.  
 Champion ewe—Lewis Bros., Camp Point, Ill.

**Field Notes**

**LIVE STOCK REPRESENTATIVES.**

L. K. Lewis.....Kansas and Oklahoma  
 A. L. Hutchings.....Kansas and Nebraska  
 Geo. E. Cole.....Missouri and Iowa

**Last Call for Axline's Sale.**

We want to again call the attention of the readers of THE KANSAS FARMER to Axline's Poland-China sale at Oak Grove, Mo., October 12.  
 As was indicated in the issue of last week the offering consists of sixty head of as royally bred Poland-Chinas as will be sold anywhere this fall, and of a distinctive individual merit.  
 It seems rather superfluous to indulge in eulogistic terms in a mention of this offering to the breeders who have long since become acquainted with this good breeder and the excellent character of the stuff that he introduces for their consideration in the sale ring, and Mr. Axline is not the man to retrograde, but each year registers a marked advancement along the lines of progressive and systematic breeding.

It is Mr. Axline's endeavor to keep abreast of the times with reference to popular families in the Poland-China world, and in his herd may be found some of the most popular blood lines to be found in any herd in the country, but this is not sought after in such measures as to lose sight of the real hog.

Those who have attended his sales in the past know that the quality of the offering is as good as the best and the breeding would be hard to improve upon.  
 Send for one of his catalogues and arrange to attend the sale and take in the Royal for the balance of the week.

**The Budwaiser-Brandywine Sale.**

On October 17, at Jamesport, Mo., Homer L. Faulkner, will sell at public auction from his famous Highview herd a draft of forty head of the big-boned, spotted Poland-Chinas, consisting of twenty-three spring boars that are ready for service, and eighteen gilts, some of them bred for February litters. This is one of the best known herds of hogs in the entire country, and the record that they have made in the past

few years is little less than marvelous. From a meager beginning they have developed into an influential potentiality in the breeding world, not from the standpoint of aristocratic lineage, but on the basis of profitability and productivity as relates to weight receipts at the market house.

It is the ambition of Mr. Faulkner to breed that kind of swine that will produce the most number of pounds in the shortest time at the least possible cost, and the fact that he enjoys one of the most lucrative trades of any man in the business is proof positive that this ambition is being satisfactorily gratified.

All ready numerous inquiries are being received for catalogues of his coming sale, and he would like to place your name on the list in order that you may get acquainted with the character of hogs that he is breeding, and are included in his sale.

If you are interested in the big-boned, spotted Poland-Chinas you can not afford to miss this sale, but if for any reason you are unable to attend a mail bid will receive careful and earnest attention.

The sale will be held in the park pavilion in town and every arrangement will be made for your comfort during your stay. Watch this paper for further mention next week.

**A Good Duroc Herd Boar for Sale.**

Coppin & Worley, of Potwin, Kans., who own one of the largest and best herd of Duroc-Jerseys in that part of the State, are offering for sale, at an attractive price, Coppin's Notch Higher who has headed Coppin's herd for several years. This boar, who is only 3 years old, is a grandson of the champion and prize-winner Kant Be Beat, and Coppin & Worley state that he is one of the best breeding animals ever used on the herd. A large number of his get is now owned by them and they are among the best the writer has seen. Their only reason for parting with him is that he is now too closely related to the herd. He is now just in his breeding prime, a massive fellow with strong masculine head, heavy bone, the best of feet, lots of finish, and splendid feeding qualities. He won first and sweepstakes at the Butler County Fair in 1906, and first at this fair in 1908. He is being priced at the remarkably low figure of \$50. Any one needing a good herd boar should not overlook this offer for he is a much more valuable animal to place at the head of a herd than some young untried boar. Write Coppin & Worley, Potwin, Kans., and mention THE KANSAS FARMER.

**Foster's Dispersion Sale of Shorthorns at Mitchell, Kansas.**

The best place that we know of to get good foundation stuff for a dual-purpose herd is at Frank Foster's dispersion sale, to be held at Mitchell, Kans., October 8, 1908. The blood lines of the cows of this herd trace back to the famous Booth sire, Buccaneer, and to that great Shorthorn milker, Zaufka.

At this sale one herd bull, five young bulls and forty cows and heifers will be offered. All the cows of breeding age have been bred since December 1 by the herd bull Rowdy Boy; six have calves by side, and others are dropping their calves.

Mr. Foster's ideal has been the dual-purpose cow. He has succeeded in the twenty-five years that he has been breeding Shorthorns, in producing some choice dual-purpose individuals. Know-

ing that Mr. Foster's ideal has been the dual-purpose animal, the writer was surprised to find among the herd many excellent individuals of the beef type.

The herd bull, Rowdy Boy 270445, is a red with very little white and in style, substance, and quality is fit to stand among the best. His brisket is deep and broad, which, with his full bulging neck, indicative of his feeding qualities, gives him an excellent front. He is very level on his top line and stands medium low to the ground. We think Mr. Foster is right in saying that in Rowdy Boy he has a bull that is right in every way. Among the herd are three yearling heifers which would be good show animals if in condition.

Mr. Foster is perfectly satisfied with his herd and is selling solely on account of ill health. He will not retain any of his herd. They must all go, regardless of price at his sale next Thursday. This herd will probably go at prices below the breeding value of the individuals. This will be an opportunity to get good, useful business stuff at reasonable prices. Remember the sale date, October 8. Write for catalogue.

**O. L. Jackson's Durocs.**

O. L. Jackson, of New Albany, Kans., who is a regular advertiser in THE KANSAS FARMER, is making a change of copy in this issue, and is offering for sale, at attractive prices, some extra good, well grown, spring boars, one very fancy double cross Ohio Chief fall yearling boar, and a few choice sows, bred to D. J.'s Improver 2d. The spring boars that he is offering for sale are the top of his entire crop of spring males, every one of them fit to do service in good herds.

Anticipating a light demand this fall Mr. Jackson culled out and sent to the fattening pen all but a few of the very best of his spring males, so in ordering from him you will get none but choice, well grown individuals. Their breeding is also of the very best. Two of them are grandsons of W. L. A.'s Choice Goods, out of an Orion dam. One is by Fancy Chief, by Ohio Chief out of a sow by W. L. A.'s Choice Goods. There are three by Fancy Chief and out of Bell's Red Bird, and one by Desoto Chip out of the dam Sensation Tip.

The fall yearling boar is a line bred Ohio Chief, a fancy, mellow individual strong in bone, feet, and back, with good head and ears, and extra fine in color.

Mr. Jackson is a discriminating breeder and a good developer. His young stuff that we saw are strong in quality and well grown. Besides these males he has as fine a line of gilts as we have seen. If conditions are favorable he is planning for a bred-sow sale in the spring, in which some of these young females will be included. If he decides to do this prospective buyers should not miss the opportunity to secure some of this fancy young stuff.

Mr. Jackson now has at the head of his herd one of the best boars in the State, both as to individuality and breeding. He sent to Iowa last spring and purchased, at a long price, from C. E. Kimin, of Blairstown, the outstanding young boar J. D.'s Improver 2d, one of the best sons of J. D.'s Improver and out of an Orion dam combining in this individual the blood lines and breeding qualities of these two noted families. J. D.'s Improver 2d is a show boar, with an exceptionally fine head and ears, strong bone, feet, and back, almost perfect in conformation, and showing great vigor and excellent

**Warranted to give satisfaction.**



**GOMBALT'S CAUSTIC BALSAM**

A safe, speedy and positive cure for

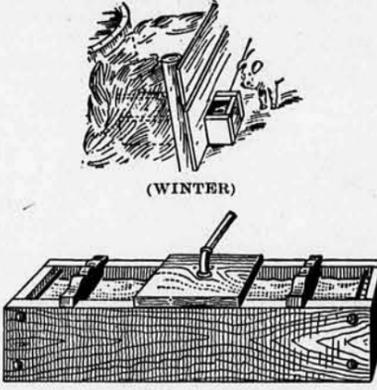
Curb, Splint, Sweeney, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rheumatism, Sprains, Sore Throat, etc., it is invaluable.

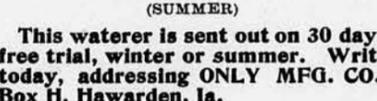
Every bottle of Caustic Balsam sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address:

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.

**The Only Hogwaterer**



(WINTER)



(SUMMER)

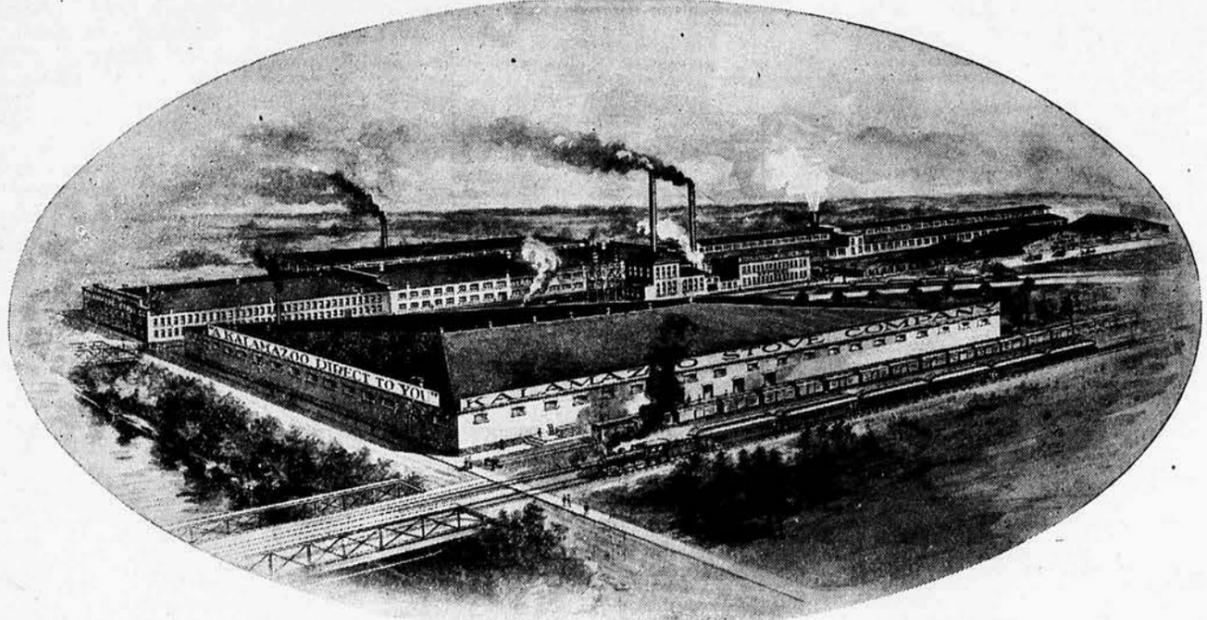
This waterer is sent out on 30 days free trial, winter or summer. Write today, addressing ONLY MFG. CO., Box 11, Hawarden, Ia.

ONSTAD'S "ONE APPLICATION CURES" **LUMPY-JAW CAPSULES**

GUARANTEED WRITE FOR PARTICULARS

THE ONSTAD CHEMICAL CO.  
 104 Key Street  
 Indianapolis, Ind.

**"A KALAMAZOO DIRECT-TO-YOU"—What That Means to Stove Buyers.**



Probably no phrase ever used in advertising is more widely known throughout the United States than the phrase, "A Kalamazoo Direct to You." You doubtless have seen it hundreds of times but unless you were contemplating buying a stove or range at the time, you may not have stopped to think what it really means to you.

A great number of our readers are certain to buy a stove or range of some kind this season. If you are among this number, we believe that you are enterprising enough and economical enough to want to get the best stove or range that you can buy for the least money. If you can save a few dollars by buying direct from the manufacturer and at the same time be sure of getting a stove or range of first class quality, we know you want to do it.

All that is what the phrase, "A Kalamazoo Direct-to-You" means to you. You know that the dealer and the wholesaler must necessarily have to have a profit when they sell a stove or range, and this profit must be added

to the factory price before the stove or range reaches you. If you could step into the factory and buy it at the manufacturer's price, you know that a great saving would be effected. You may not be able to get to Kalamazoo and buy a stove in person, but you can send your order there and buy at factory prices just as safely as though you visited the factory. More than 100,000 families scattered all over the United States have taken advantage of this offer and have saved all the way from \$5 to \$35 on every purchase which they made.

The Kalamazoo Stove Company lay great stress upon the fact that they are actual manufacturers. We print elsewhere on this page an illustration giving a bird's-eye view of their great plant in which every branch of stove making is carried on the year round. It has more than five acres of floor space well equipped with the most modern facilities for producing high grade stoves and ranges and filled with the most careful selected and most skilled stove makers in the country. Every Kalamazoo stove and range has back of it

thirty-five years' experience in stove making and is given the most strict inspection before it is crated for shipment. The company must do this not only because they want to maintain the reputation of the Kalamazoo stove but also because they sell on 360 days' approval.

We urge every one of our readers who is contemplating buying a stove or range to send for the Kalamazoo catalogue and prices. We are sure you can find what you want in it. We know the prices quoted will save you much money and you can depend upon it that you will get fair and square treatment from this standard company. No stove has a higher or better reputation for quality than the Kalamazoo, and no stove company has built up a better reputation for fair treatment and honesty than has the Kalamazoo Stove Company. Investigate their offer before you buy elsewhere. It will pay you. A postal card or letter addressed to the Kalamazoo Stove Company, Kalamazoo, Michigan, asking for catalogue No. 189 will bring you the book without charge.

**Neuralgia Pains**

Are the result of an abnormal condition of the more prominent nerve branches, caused by congestion, irritation, or disease. If you want to relieve the pain try Dr. Miles' Anti-Pain Pills. They often relieve when everything else fails. They leave no disagreeable after-effects. Just a pleasurable sense of relief. Try them.

"I have neuralgia headache right over my eyes, and I am really afraid that my eyes will burst. I also have neuralgia pain around my heart. I have been taking Dr. Miles' Anti-Pain Pills recently and find they relieve these troubles quickly. I seldom find it necessary to take more than two tablets for complete relief."

MRS. KATHERINE BARTON  
 1117 Valley St. Carthage, Mo.

"I have awful spells of neuralgia and have doctored a great deal without getting much benefit. For the last two years I have been taking Dr. Miles' Anti-Pain Pills and they always relieve me. I have been so bad with neuralgia that I sometimes thought I would go crazy. Sometimes it is necessary to take two of them, but never more and they are sure to relieve me."

MRS. FERRIER,  
 2434 Lynn St. Lincoln, Neb.

Your druggist sells Dr. Miles' Anti-Pain Pills, and we authorize him to return the price of first package (only) if it fails to benefit you.

Miles Medical Co., Elkhart, Ind

feeding qualities. He is only fourteen months old, but is well developed and will make a hog with lots of scale. The sows that Mr. Jackson is advertising are bred to this fellow, and the females in his spring sale will be safe in service to him. We know of no better place to secure choice stock with fashionable blood lines and good individuality than in Mr. Jackson's herd of Durocs.

Write him for description and prices, and if you order from him he will give you a square deal.

**A. K. Sell's Poland-China Sale.**

As advertised in THE KANSAS FARMER A. K. Sell, proprietor of the Fairview herd of Poland-Chinas, sold a consignment of forty choice sows and gilts and a few young males at his farm three and a half miles northwest of Fredonia, Kansas, Thursday, September 24.

Some of the best blood lines of the breed was represented in his offering which was presented in good, thrifty breeding condition, which was appreciated by the good crowd of local breeders and farmers that attended the sale.

On account of the unsettled condition of the breeding market stuff sold very low. Mr. Sell was entitled to much better prices, which he would have received under more favorable conditions. The top of the sale was \$49 for the show sow Sis Houston, who went to M. Wade, of Muscogee, Okla. The high price of corn had a depressing effect on prices, but everything offered was sold, and will surely prove money-makers for the buyers and will do much to improve the herds in that part of the State.

Mr. Sell's ambition is to build one of the best Poland herds, and he is confident of success, and has great faith in the future, knowing that present conditions can not last long, and that those who stay in the business will reap a liberal reward. Colonels Snyder and Sheets did the selling in their usual satisfactory manner. Following is a list of the principal sales:

1 Thimmel L. G. A. Linn, Neodesha, Kans.	\$24.00
2 Lady Radium, H. Mellon, Fredonia, Kans.	24.00
4 Correct Girl, Jno. Colaw, Buffalo, Kans.	20.00
7 Dolly, Jno. Colaw	19.50
8 Molley, E. H. Lock, Fredonia, Kans.	19.00
9 Peaches, W. J. Burtis, Fredonia, Kans.	18.00
11 Gilt, B. Stephens, Rest, Kans.	18.50
14 Sis Houston, Mings Wade, Muscogee, Okla.	49.00
15 Miss Radium, A. H. H. Ash, Fredonia, Kans.	16.00
19 Vinita, W. J. Burtis	20.50
23 Perfect Impuda, J. D. Snyder, Winfield, Kans.	26.00
26 Lady Mischief, G. W. Stewart, Rest, Kans.	17.00
33 Betty Blue, C. Stephens	17.00
34 Mildred, Geo. W. Stewart	16.00
35 Skylight Maid, W. A. Sturgis, Fredonia, Kans.	18.00
37 Skylight Bird, Haran & Farmer, Fredonia, Kans.	15.00
38 Gilt, D. B. Grant, Fredonia, Kans.	15.25
40 Oakwood Lady, Haran	15.00

**American Royal Aberdeen-Angus Sale.**

Do not forget the Angus sale which is to be held October 15 at Kansas City during the week of the American Royal show.

This is the strongest offering of Aberdeen-Angus that has been made since the inauguration of the show and sales. No further evidence is required to substantiate this statement than a glance at the names of the consignors.

The bull offering consists of very attractive individuals. W. A. McHenry has included several splendid bulls, two of which are highly bred Blackbirds. A. C. Binnie has contributed an extra fine youngster which has won first prize at all the leading shows this season. O. V. Battles has sent forward one of his good top notch show bulls. There has also been top notchers consigned by Catterson, Culver Kitchen, Rea, Robinson & Co., Withers, Holt, Huber & Gex.

These bulls all come from the prominent breeders of the breed in Iowa and Missouri. Any of them are fit to head a herd or do heavy service on the range, and several of them have show yard merits, while others have a long list of honors to their credit. This will be a unique opportunity for breeders to select something good at public values. Several of the bulls are just in their prime and ready to do heavy service on the range.

Never before has such an opportunity been presented to Western Angus breeders, rangemen, and farmers at the greatest breeding show of the West. With the expense of a single trip you can attend one of the greatest live stock shows of the country, and the greatest Aberdeen-Angus sale ever held in connection with it.

Any breeder, stockman, or farmer who expects to purchase a bull between now and spring, can not afford to miss this sale. Arrange to attend this great Angus event.

Mention will be made of the most attractive females in next issue.

For catalogues and further information relative to sale, address Chas. Gray, secretary, 17 Exchange Ave., Chicago.

**Good Results from His Kansas Farmer Advertisement.**

W. R. Crow, the well known breeder of Duroc-Jerseys, at Hutchinson, Kans., reports that through his advertisement in THE KANSAS FARMER he has just sold to Wells & Huston, of Florence, Kans., thirty-four head of choice spring pigs. He also states that he has plenty more that are just as good on which he is making attractive prices.

Good individuality and standard blood lines prevail in his herd which is headed by Climax Wonder by Missouri Wonder, dam Lady Climax, and Crow K, a grandson of Buddy K 4th. While such sires as Ohio Chief, Kant Be Beat, and Oom Paul are strongly represented by the herd sows.

Mr. Crow had a strong exhibit at many of the leading fairs this year and

captured more than his share of the awards. His yards are located at No. 200 East Osborne St., only two blocks from the street car line and prospective buyers will find it worth their while to visit his herd. Write Mr. Crow your wants and kindly mention THE KANSAS FARMER.

**F. M. Strube's Sale of Herefords.**

The dispersion sale of F. M. Strube's herd of Herefords held at Cedar Point, Kans., Thursday, September 24, was one of the most satisfactory sales held in that section of the State this season. The prices were not high but there was a healthy demand and the sale of the registered stuff brought the nice total of \$6,000. This included 120 head ranging in age from calves to 9-year-old cows.

The sale was topped by the 5-year-old cow Capitola 20th bought at \$150 by W. J. Sayre, of Cedar Point. The highest price paid for a bull was \$125 for the herd bull, which was bought by Claude Shaft, of Cedar Point. The sale had a strong local attendance. Prominent breeders from a radius of seventy-five miles attended the sale.

Colonel R. E. Edmonson handled the sale with his usual efficiency, assisted by John McLinden, of Cedar Point.

Following are the sales at \$40 or over:

1 Quick, Claude Shaft, Cedar Point, Kans.	\$125.00
2 Queen Ellnor, J. H. Howe, Emporia, Kans.	70.00
3 Miss Monarch, Dr. T. E. Welch, Cedar Point, Kans.	52.50
4 Queen Modest, W. J. Sayre, Cedar Point, Kans.	50.00
5 Florence, A. Lolouette, Cedar Point, Kans.	77.50
6 Nora, Mr. Sutton, Madison, Kans.	80.00
7 Lady Lucy, V. J. Bosh, Marion, Kans.	107.50
8 Nerva, J. H. Howe	70.00
9 Nova, Claude Shaft	75.00
10 Norma, J. H. Howe	70.00
11 W. J. Sayre	150.00
12 Honora 6th, Mr. Newman, Emporia, Kans.	135.00
13 Capitola 22d, A. Lolouette	100.00
14 Onella, Mr. Hughes, Cedar Point, Kans.	82.50
15 Ornament, Geo. Dawson, Kans.	62.50
16 Onelda, Dr. T. E. Welch	57.50
17 Octavia, Dr. T. E. Welch	65.00
18 Julia, Sherman Little, Cedar Point, Kans.	87.50
19 Primrose, Mr. Newman	82.50
20 Parnella, E. Sutton	77.50
21 Pansy, M. Siebert	70.00
22 Peach, J. H. Howe	72.50
23 Quittance, E. Sutton	65.00
24 Quality, M. Siebert	72.50
25 Quail, Chas. Pritz, Cedar Point, Kans.	57.50
26 Quilla, M. Siebert	52.50
27 Quiet, J. H. Howe	55.00
28 Quince, Mr. Patton, South Fork	60.00
29 Quota, J. H. Howe	55.00
30 Queta, Geo. Dawson	40.00
31 Belle President, Chas. Pritz	87.50
32 Belle Paladin, Mr. Newman	115.00
33 Regina, Dr. T. E. Welch	77.50
34 Rerhoda, V. J. Bosh	47.50
35 Rovilla, V. J. Bosh	47.50
36 Rebe Capitola, Geo. Dawson	52.50
38 Rudana, Mr. Patton	52.50
38 Rosana, Dr. T. E. Welch	50.00
39 Czarina, Mr. Hughes	60.00
40 Catherine, W. A. Woods, Elm-dale, Kans.	60.00
41 Cornelia, Mr. Hughes	60.00
42 Cherry, Mr. Hughes	60.00
43 Charlotte, Mr. Hughes	60.00
44 Synthia, Mr. Hughes	60.00
45 Cozey, W. A. Wood	60.00
46 Content, W. A. Wood	60.00
47 Constance, W. A. Wood	60.00
48 Comfort, W. A. Wood	60.00
49 Claudia, Mr. Hughes	60.00
50 Clarissa, W. A. Wood	60.00
51 Clara, Mr. Hughes	60.00
53 Calico, W. A. Wood	60.00
62 Sir Quick, Gale Ward	40.00
65 Success 2d, Gale Ward	40.00
66 Speculator, Henry Strauss, Cedar Point, Kans.	40.00
69 Star, Geo. Dawson	52.50
70 Lida, Geo. Dawson	52.50
72 Daisy, Chas. Pritz	80.00
73 Lady Golden, Chas. Pritz	80.00
75 Julia C, Geo. Dawson	52.50
76 Lawrence, Arthur Ice	52.50
77 Bright Girl, Claude Shaft	47.50
78 Miss Flora, Robt. Thomas	50.00
79 Laura, Geo. Dawson	52.50
80 Wilhelmina, Claude Shaft	52.50
82 Fannie, Claude Shaft	47.50
84 Violet, Chas. Pritz	52.50
86 Dorena 3th, Chas. Pritz	52.50
87 Genesta Columbus, Geo. Dawson	52.50
88 Brightspot, Robt. Thomas	50.00
89 Genesta Hayes, Claud Shaft	47.50
91 Bountiful, Claud Shaft	52.50
92 William, Jake Ludwig	40.00
93 Buttercup, Claude Shaft	52.50
04 Lilly Hayes, Robt. Thomas	50.00
Average, \$65.87.	

**Williamson's Durocs.**

W. H. Williamson, of Raymond, Kans., is starting a card in this issue of THE KANSAS FARMER to which we invite the attention of all who may be interested in Duroc-Jerseys.

Mr. Williamson is comparatively a new breeder, but has accomplished in a short time what has taken some others years to do.

In selecting foundation stock he went to the fountain head and secured from some of the best herds some of the strongest individuality and breeding, thus achieving at one step what it has taken others years to accomplish. His chief herd boar is Chief's Orion 76941 one of the best sons of the great Ohio Chief and out of an Orion dam, combining in this one individual two of the most noted families of the breed. Chief's Orion was bred by R. J. Harding and is an outstanding yearling with plenty of scale, lots of finish, fancy head and ears, strong in bone and feet, and with the mellow easy feeding qualities that characterize the descendants of Orion and Ohio Chief.

He is proving himself an excellent sire and all ready has some fine pigs to his credit.

The herd sows are equally well bred and are strong individually. Among them is Liberty Bell, an outstanding daughter of Proud Advance and out of

**For the Best Service**

and

**Square Deal**

Ship your Live Stock to

**Evans-Snyder-Buel Co.,**

Kansas City Stock Yards.

Also, Chicago, St. Louis, Ft. Worth.

Ask your Banker Concerning us.

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**Save Your Stock**

By Using

**Salt-Lode**



Ninety per cent of all live stock deaths and diseases originate with stomach disorder. Salt-Lode puts your stock in perfect condition and keeps it that way for less than one-sixth of a cent per day per head.

It will positively kill worms; remove ticks and lice; prevent scab and fleece falling; cure scabies or mange and all skin diseases; and is efficacious when used for tuberculosis. SALT-LODE ESTABLISHES PRACTICAL IMMUNITY FROM DISEASE in horses, cattle, sheep, goats, swine and poultry.

A sure cure for cholera and roup in chickens. Try it.

**WHAT THEY SAY**

"Your remedy, Salt-Lode, is far better than anything we have ever used for any kind of stock. We highly recommend it to anyone desiring the use of a good remedy."

"LEO DOHOGNE, Cashier Farmers & Merchants Bank, Kelso, Mo."

"Watch our order and don't let us run out. We consider Salt-Lode a great remedy for stock growers of all kinds."

"FERGUSON & DUGAN, Wellington, Kans."

"The Salt-Lode we purchased from you has given us results far above our expectations."

"GEO. LINSOTT, Pres. Nat'l Bank, Holton, Kans."

**SPECIAL OFFER:** 30c per pound, cash with order. On twenty-five pounds or over we pay the freight to all points between the Mississippi river and the Rocky mountains. Quantities from ten to twenty-five pounds, F. O. B. Baldwin, Kansas.

Agents wanted. Address SALT-LODE MFG. CO., Lock Box K Baldwin, Kans.

**Blacklegoids**

Simplest, Safest, Surest Vaccination for the prevention of

**BLACKLEG IN CATTLE**

NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

**PARKE, DAVIS & COMPANY**

HOME OFFICES AND LABORATORIES, DETROIT, MICH.

NOTICE—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.

Improver Bell by Improver 2d. She was bred by Manley & Company, and a half interest in her half brother recently sold for \$500.

One of the best litters of pigs on the place is by Chief's Orion, out of this sow. There are other sows that are good ones by Nebraska George, Dreadnaught, Max Pride 2d, and Perfection Wonder, a grandson of Missouri Wonder.

Mr. Williamson has for immediate sale six extra good, well grown, spring boars, three of these are by Dreadnaught and out of Liberty Bell, and three are by Perfection Wonder. There are also some choice spring gilts by Perfection Wonder.

Mr. Williamson's prices are reasonable and the quality of his stock of the best. Write him your wants or visit the herd, and he will give you a square deal.

**Chas. Morrison's Red Polled Cattle and Poland-China Sale.**

If every farmer and breeder who lives in Phillips County is doing as well as Chas. Morrison of Phillipsburg, Phillips County, Kansas, they will have banner records this year. Mr. Morrison breeds some of the best Red Polled cattle in this section and has a fine herd of Poland-China swine of the big-boned type. Mr. Morrison writes as follows: "We are putting up our fourth herp of alfalfa, which is a heavy one. The corn crop was light in this part of the county and a great deal of corn is cut up for feed. There will be plenty of feed for stock. Mr. C. L. Newton, of St. John, Kans., made us a visit this week and selected four fine

Red Polled heifers for foundation of a herd he is starting. Mr. Newton was well pleased with the cattle in our herd and was not long in making the selection. He has been using a Red Polled bull in his herd and thinks the Red Polls come nearer filling the wants of the general farmer than any other breed, as he wants milk and beef, and a Red Polled cow furnishes plenty of milk for her calf without the use of a nurse cow. Red Polled breeders when showing at fairs never take along a string of nurse cows to supply calves with milk. The Red Polls are growing in favor every day. We have some fine young bulls ready to ship and will spare a few heifers, some of them bred to our young bull Launfal, who weighs over a ton at 3 years old. Our Poland-Chinas are the lengthy, heavy-boned type. Will ship out gilts at farmers prices; and a few choice boars." Call and see them or write your wants. If you are in the market for Red Polled cattle or Poland-Chinas they can please you in quality and price. Mention THE KANSAS FARMER.

**W. H. Lynch's Sunnyside Herd of O. I. C's.**

W. H. Lynch, the well-known breeder of O. I. C's at Reading, Kans., is starting a card in this issue of THE KANSAS FARMER.

He is offering for sale at attractive prices some first class, well grown, young stock out of large, smooth, prolific dams and largely by his noted herd boar, Jackson Chief 2d.

Pomona Chief, an excellent breeding sire, and Kerr L. are also represented. Mr. Lynch has one of the best herds of this favorite breed of swine in the

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State. It is headed by Jackson Chief 2d, he was sired by Jackson Chief, the grand champion of the World's Fair in 1904.

Jackson Chief 2d won second at Sedalia, Mo., at the Missouri State Fair, 1906; first and champion at the American Royal, 1906, and has sired a large number of prize winners.

He is a massive fellow and will weigh 800 pounds in good breeding form and is as active as a pig. He is strong in bone and feet with strong, thick-fleshed back, great bulging hams, and one of the best heads that can be seen on a hog. As we have stated, he is the sire of a majority of the young stuff that Mr. Lynch is offering for sale. He is assisted by Pomona Chief and Kerr L., who have done excellent service in the Sunnyside Herd.

The herd matrons are as good a lot of sows as can be found in any herd. They are noted for their size and bone, smoothness and great prolific qualities, farrowing and raising large litters. Sunnyside Herd is composed of strictly Ohio Improved Chester White swine of the very best breeding. When Mr. Lynch buys foundation stock he always secures the very best that money will buy. He attends to his hogs himself and the greatest of care is exercised in regard to the mating and feeding. His stock is all grown out on plenty of range and an abundance of muscle and bone producing feed. They are a healthy, vigorous lot, just the kind to go out and do buyers good. When a buyer visits the herd he seldom goes away without buying more than he intended.

Mr. Lynch is breeding a number of families, so that he can furnish pairs or trios not akin. We know of no better place to secure first class young stock and would strongly recommend prospective buyers to write Mr. Lynch at once or visit the herd. His prices are right and all buying from him will get a square deal. Please look up his card and in writing mention THE KANSAS FARMER.

McPherson County Fair.

For several years the McPherson County Agricultural Fair Association has been doing business in a way exceedingly satisfactory to exhibitors. The result is that this year the best and largest County Fair in the State of Kansas is the McPherson Fair.

The fair this year was a bigger success than ever; the attendance reaching 5,000 on Thursday, the big day.

The agricultural display was very large and attractive, being equal to that of many State fairs. There were also fine exhibits of horticulture, apiary, poultry, fine arts, and flowers. Three special features were the educational, the women's, and the children's displays. The educational display consisted of drawings, penmanship, etc., done by school children. The women's display consisted of exhibits of women's fancy work. The children's department consisted of everything that a child can make.

The entries of live stock were very strong. Every barn of the fair grounds was full. Entries were made of cattle, hogs, sheep, horses, and asses. All premiums were paid in cash on the last day of the fair. Following are the awards on the cattle and hogs:

SHORTHORNS.

Bull 3 years or over—First, C. S. Nevius; second, Cottingham & Son.

Bull 1 year and under 2—First, C. S. Nevius; second, Cottingham & Son.

Bull under 1 year—First, C. S. Nevius; second, C. S. Nevius.

Cow 3 years old or over—First, C. S. Nevius; second, A. S. Neal.

Heifer 2 years and under 3—First, C. S. Nevius; second, C. S. Nevius.

Heifer under 1 year—First, C. S. Nevius; second, C. S. Nevius.

Breeders' young herd—to consist of bull under 2 years, 2 heifers 1 year and under 2, 2 heifers under 1 year, all except bull to be bred by exhibitor—First, C. S. Nevius.

HEREFORDS.

Bull 3 years old and over—Second, L. H. Anderson.

Bull 1 year and under 2—First, L. H. Anderson; second, L. H. Anderson.

Bull under 1 year—Second, L. H. Anderson.

Cow 3 years old and over—First, L. H. Anderson.

Heifer 2 years and under 3—First, L. H. Anderson; second, L. H. Anderson.

Heifer 1 year and under 2—Second, L. H. Anderson.

Heifer under 1 year—First, L. H. Anderson; second, L. H. Anderson.

Breeders' young herd, to consist of bull under 2 years; 2 heifers 1 year old and under 2; 2 heifers under 1 year, all except bull to be bred by exhibitor—Chas. E. Sutton.

ABERDEEN-ANGUS.

Bull 2 years and under 3—Second, Chas. E. Sutton.

Bull under 1 year—First, Chas. E. Sutton; second, Chas. E. Sutton.

Cow 3 years old and over—Second, Chas. E. Sutton.

Heifer 2 years and under 3—First, Chas. E. Sutton; second, Chas. E. Sutton.

Heifer 1 year and under 2—First, Chas. E. Sutton; second, Chas. E. Sutton.

Heifer under 1 year—First, Chas. E. Sutton; second, Chas. E. Sutton.

Breeders' young herd, to consist of bull under 2 years; 2 heifers 1 year old and under 2; 2 heifers under 1 year, all except bull to be bred by exhibitor—Chas. E. Sutton.

JERSEYS.

Heifer 2 years and over—First, Chas. E. Sutton; second, Chas. E. Sutton.

BERKSHIRES.

Boar 2 years and over—Second, McCurdy & Downs.

Boar 1 year and under 2—Second, McCurdy & Downs.

Boar over 6 months and under 12—Second, McCurdy & Downs.

Boar under 6 months—First, McCurdy & Downs; second, McCurdy & Downs.

Sow 2 years and over—First, McCurdy & Downs; second, McCurdy & Downs.

Sow 1 year and under 2—First, McCurdy & Downs; second, McCurdy & Downs.

Sow 6 months and under 12—First, McCurdy & Downs; second, McCurdy & Downs.

Sow under 6 months—First, McCurdy & Downs; second, McCurdy & Downs.

POLAND-CHINAS. Sow under 6 months—First, Lee Miller; second, Lee Miller.

DUROC-JERSEYS.

Boar 2 years and over—First, W. R. Crow; second, W. R. Crow.

Boar 1 year and under 2—First, E. Anderson; second, E. Anderson.

Boar 6 months and under 12—First, W. R. Crow; second, J. R. Blakeshire.

Boar under 6 months—First, J. H. Gayer; second, E. Anderson.

Sow 2 years and over—First, W. R. Crow; second, W. R. Crow.

Sow 1 year and under 2—First, J. R. Blakeshire; second, J. R. Blakeshire.

Sow 6 months and under 12—First, W. R. Crow; second, W. R. Crow.

Sow under 6 months—First, W. R. Crow; second, E. Anderson.

BREEDERS' RING.

Best swine under 1 year, get of same sire—First, W. R. Crow; ribbon, W. R. Crow.

Best four swine under 1 year, product of same dam—First, W. R. Crow; ribbon, W. R. Crow.

HERDS.

Best boar and 3 sows over 1 year—First, W. R. Crow; ribbon, W. R. Crow.

Best boar and 3 sows under 1 year—First, McCurdy & Downs; ribbon, McCurdy & Downs.

SWEETSTAKES.

Best boar, any age—First, McCurdy & Downs.

Best sow, any age—First, W. R. Crow.

Last Call for J. M. Baler's Poland-China Sale, October 6.

This is the last call for J. M. Baler's sale of high-class Poland-Chinas which will be held at his farm, eleven miles south of Abilene and six miles north of Elmo, Kans., Tuesday, October 6. Mr. Baler's offering will consist of fifty-five head, as follows: Thirty-five extra good, well grown spring pigs; fifteen choice fall gilts and mature sows; and a number of first class fall boars of the richest breeding and fit to head good herds. In the offering there will be litters by Iron Clad, a member of the \$13,160 litter by Corrector 2d and the \$1,000 Tom Lipton, who heads Mr. Baler's herd; also litters by Meddler 2d, S. P. Perfection, Masticator, Impudence, and other prize-winning boars. The dams of this young stuff are as richly bred as the sires and all are of the best individuality. The boar division is especially strong and there will be no better place to secure herd header material than at this sale. The animals offered are not only first class individuals, but represent the best families of the breed, and are the kind that breeders are glad to secure. Mr. Baler has held several successful sales in the past, but he intends that this offering shall excel all former ones. The young stuff that he will offer is well developed and has been grown out on alfalfa with plenty of free range. Everything will be well fitted and in the very pink of condition on sale day. Mr. Baler invites every one who may be interested in first class breeding stuff to be his guest on sale day. Arrangements will be made to convey prospective buyers from Abilene or Elmo to the farm. Look up Mr. Baler's advertisement in THE KANSAS FARMER and write him for a catalogue and arrange to attend his sale for it will pay you to do so.

Hague's Durocs and Shropshires.

Elsewhere in THE KANSAS FARMER H. H. Hague & Sons, of Newton, Kans., are starting their advertisement and are offering for sale at attractive prices some choice Durocs ranging in age from weaning pigs to mature bred sows. The prices that they are making on these range from \$6 to \$25 per head, and with the present prospect of high market prices an offer of this kind should certainly attract buyers. Hague & Son are proprietors of the Sunnyside Herd of Duroc-Jerseys and have established a reputation for high-class breeding stuff and the kind of hogs that weigh and win. They have been consistent winners at some of the best fairs and shows in the country for a great many years. Their herd is headed by Sunnyside Prince, a hog of great individual merit and who has won first and championship at many of the leading fairs. He is assisted by King Wonder Boy by King Wonder 5th, one of Marshall Bros' chief herd boars; also Duke of Woodford, he by Red Duke, who sired the first prize pigs under 6 months at the American Royal, 1907. These last named boars have been shown and won prizes at some of the best fairs in strong competition. They are good individuals and the chief characteristics of the herd are plenty of scale and bone and excellent feeding qualities. One of the noted herd sows is Wichita Pearl, who won the championship at Hutchinson, 1906, and also won two reserve championships at the same place, 1907. A number of the other herd sows are prize winners and they are all noted for their size, finish, and prolific qualities. The young stuff that Messrs. Hague are offering for sale are the right kind with plenty of vigor, are well grown and are bargains at the prices offered. Hague & Sons are also offering for sale twenty-five yearling and early spring Shropshire rams. These are all strong, vigorous fellows by an imported ram and out of high class ewes. They are well woolled and are large of their age. Hague & Sons are prepared to make attractive prices on these and any one interested should write them at once for they will not last long. Please look up their advertisement in this issue of THE KANSAS FARMER.

Last year the American Royal had a fine mule show, but this year at Kansas City the week of October 12 the mule department will put everything else that ever called itself a mule show far into the shade. There'll be enough mules, and sufficient variety, to supply a whole show in themselves, and all will be the best the West produces. W. A. Elgin, of Platte City, Mo., superintendent, reports that already more than a hundred entries have been received for the various classes, from a dozen breeders and including more than four score individual mules. There will



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probably be considerably over a hundred mules in the show, perhaps 150; last year's big display consisted of 87 mules. In the 1907 Royal were two mule colts; they were a new feature, and made a hit. This year 18 mule colts have already been entered, and more are expected. The mules will be shown singly, in pairs, and in harness. They will add a gleeful touch to the night programs, and will run the Shetland ponies close for the popular verdict in "cuteness."

Royal Galloway Show.

Stockmen who will visit the American Royal Live Stock Show next month will find a very attractive offering in the Galloway sale to be held Wednesday, October 14, under the auspices of the American Galloway Breeders' Association. The offering is not large, but comprises some of the best herd bulls and show animals to be found in America. G. W. Lindsey offers his great show and herd bull, Pat Ryan of Red Cloud, also some of the get of this famous bull; C. E. Clark contributes two imported bulls, Tarbreoch Edward 30934 (9703) and Sam of Thorniehill 30936 (90643), together with three other bulls and a heifer, the get of Gentleman Joe; J. H. Hoyt & Son are sending forward three young cows, one of them with calf at foot, and two bulls, one of which is Starlight 2d of Thorniehill, an imported bull that has done excellent service at the head of the Hoyt herd; J. P. Milliken, Seward Martin, C. S. Hechtner, J. E. Bales & Son, and W. M. Brown & Son are the other contributors. Nearly every animal in the sale is from an imported sire or dam. Write R. W. Brown, 17 Exchange Avenue, Chicago, Ill., for catalogue.

What Sutton Says Goes in Kansas.

SUTTON FARM.

CHARLES E. SUTTON.

Lawrence, Kans., Sept. 18, 1908. Dear Sir:—I lost something like 125 hogs of all ages. They were dying at the rate of 1 to 4 per day when I commenced to use Salt Lode a month ago. Three died the first three days, but since that time—twenty-five days—we have lost only one pig. A month ago, D. V. Flint, former herdsman for Hon. N. H. Gentry, Sedalia, Mo., took charge of my herd and brought with him a very fine gilt. She took the disease in about eight days and was very sick—also quite a bunch of young pigs were

sick—but all recovered and are making splendid gains. I don't say Salt Lode cured my herd and I don't say it did not. But I am firmly convinced that it did the hogs a lot of good and I don't intend to be caught without it, for I am satisfied that something worked a wonderful change in the condition of the herd while I was using Salt Lode.

This statement I might make very much stronger, but I don't like to urge any breeder or hogman into an investment in any "hog cholera cure" until I have tested it several times. I simply say Salt Lode did good work for me.

Yours truly, CHARLES E. SUTTON.

McLaughlin Bros., importers Percheron and French Coach horses, Columbus, Ohio; St. Paul, Minn.; and Kansas City, Mo., write as follows: "We are just in receipt of a telegram from Mr. William McLaughlin, who has charge of our exhibit at the Inter State Live Stock Show being held this week at St. Joseph, Mo., that our great Percheron stallion, Jolivet, won first prize in the 4-year-old class and also championship; that Buffon won first prize in the 3-year-old class; and Gall won first prize in the 2-year-old class; that a group of our Percherons won first prize as the best collection, and that not one of our horses at the show was defeated. Jolivet also won first prize at the Ohio State Fair and afterwards, in competition with all the first prize winners, won the championship. We never had better horses than we have this year."

Volume 26 of the Holstein-Friesian herd book has just been issued. It includes entries of 5684 bulls; numbers from 46627 to 52310 and 10850 cows; numbers from 94830 to 105679. It is the largest volume issued in the history of the breed. It also contains the charter and by-laws of the association; a list of life members, and a report of the last meeting; a total of 953 pages. It is substantially bound, uniform with previous issues.

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**Agriculture**

**Cow-Peas.**

In THE KANSAS FARMER for September 3, I read your article in answer to some questions concerning cow-peas. As this is my first experience with them, I would like to ask a few questions more concerning them. Perhaps you have literature covering most points of my inquiry which you can send me.

I have about six acres, half of which looks very nice and I think will make a large yield of seed. I listed them on June 3 and 16. The first planting has several ripe pods on each vine now, many not yet matured and some blossoms. When should they be cut? Would it be advisable to stack them and cover with hay or to let them remain in-shock until thrashing?

Is there an attachment for thrashing machines for hulling peas, and is their work satisfactory? What firm makes them? What is the best regular pea huller on the market? What is the best machine for harvesting the peas and where may it be secured? Some use a machine to cut just below the surface and some use a mower.

Are the peas liable to heat if put in a bin, or should they be sacked? Do the peas have any special value as a grain for feeding, and how best to feed?

The variety which I have is the Whippoorwill, and am growing them on sandy soil. Four acres were in cane and Kafir-corn last year and made a small yield. The peas look fine.

G. F. KINNAMON.

Reno County.

With favorable weather the cow-peas will continue to bloom, and there will always be some green pods on the plants. Better harvest when a large proportion of the peas have ripened and most of the pods are brown. I prefer to harvest before a hard frost. Cow-peas have this habit of continuous blooming, also the pods hold the peas well and it is not necessary to harvest at any particular stage of maturing in order to save the crop.

If the weather conditions are favorable the peas may be cured in the shock and thrashed from the field, however, a safer plan will be to cure the peas well then stack and cover the stacks as you have suggested.

Several thrashing machine companies have bean- or pea-huller attachments for their separators. We are using one on the Avery separator which does fairly satisfactory work, but is not equal to hand thrashing. We have been looking for a good pea huller. The huller most highly recommended is that manufactured by the Owens Manufacturing Co., Minneapolis, Minn. However, I have not been able to secure one of these machines, the company being unwilling to place one here for trial, and the price of the hullers is about the price of a thrashing machine. Up to this time we have found it more satisfactory to thrash the peas which we intend to use for seed by hand with a flail.

The peas may be harvested with a mower by using a vine lifter attachment and a windrower. It is also possible to harvest with the bean harvester, which is a machine with long knives which cut just below the surface. We have found it necessary to use rolling coulters outside of the knives in order to separate the vines. I do not consider the bean harvester a satisfactory implement for harvesting cow-peas.

If the peas are dry when thrashed they are not likely to heat in the bin. Cow-peas have a high feeding value, being very rich in protein. In composition the grain compares with other grains or feeds as follows:

Name of feed.	Water per cent.	Ash per cent.	Protein per cent.	Fiber per cent.	Carbohydrate per cent.	Fat per cent.
Cow-peas . . . . .	11.9	3.4	23.5	3.8	55.7	1.7
Corn . . . . .	10.9	1.5	10.5	2.1	69.6	5.4
Barley . . . . .	10.9	2.4	12.4	2.7	69.8	1.8
Oats . . . . .	11.0	3.0	11.8	9.5	59.7	5.0
Wheat bran . . . . .	11.0	5.8	15.4	9.0	53.9	4.0

These figures are taken from Bailey's Farmers' Cyclopedia of Agriculture, published by the Orange-Judd Publishing Co.

Our supply of Circular 8 on "Cow-peas" is exhausted. For further information refer you to Farmers' Bulletin 318, U. S. Department of Agriculture, Washington, D. C. Also bulletin 73, Missouri Experiment Station, Columbia, Mo., bulletins 77 and 80 Arkansas Experiment Station, Fayetteville, Arkansas; bulletins 113 and 120, Alabama Experiment Station, Auburn, Alabama.

A. M. TENEYCK.

**"Oregon Winter Vetch."**

Replying to an inquiry regarding the "Oregon winter vetch," Prof. A. M. TenEyck writes:

"We have made some experiments with the winter hairy vetch at this station, but have not grown the "Oregon winter vetch" referred to. I will write to Mr. John T. Prude and secure sample of seed for planting this fall.

"I am hardly ready to recommend the general planting of this crop. Would like to see it tried in a small way, however, all over the State so as to get some data regarding its adaptation and value in different soils and climates.

"The winter hairy vetch (*vicia villosa*) has seemed to be hardy at this station and when sown in combination with winter rye, wheat or barley, it makes a good spring or early summer forage and may be used for late fall, winter and spring pasture. I hope also that the crop may become an available one for green manuring. We need some hardy legume for green manuring which may be sown in the fall and which will mature early enough the next spring so as to be plowed down in time to prepare a seed-bed for corn.

A. M. TENEYCK.

**Farm Work for October.**

EDITOR KANSAS FARMER:—I appreciate the compliment you pay me by inviting me to write to THE KANSAS FARMER for publication, but my work for next month will be out of the ordinary. I must have a new corn crib and implement shed and new barn roof. As the girls are in school and the baby is less than three months of age, the mother ought not to be worried with cooking for help, so I will hire the carpenters to board themselves about four miles away. I will do my work, catch as catch can. Last night I looked over my diary for the past eleven Octobers and I find I usually finish cutting corn fodder, thrash, sow wheat, cut the last alfalfa, pick apples, haul manure and bedding, fix sheds and fence, hull clover, dig potatoes, and get everything out of the way for corn husking during November and part of December.

CHARLES A. BABBIT.

Brown County.

Farm Lands in Riley County Compared with Pottawatomie and Jackson Counties.

We have gotten into an argument down here in Coffey County. One man claims that the State Agricultural College was located in Riley County solely because it is the poorest land which could be found in the State and they wanted to experiment with the soil.

Is such a statement true? How does Riley County compare with Pottawatomie and Jackson Counties for farming?

Do you ever have a failure of the corn crop on account of drought?

Coffey County. ALFRED WATTS.

There is some good land in Riley County, both bottom and upland, but

the land of the Experiment Station Farm is not the best farming land.



UNTIL Amatite was put on the market a few years ago, practically everybody who used ready roofings had to paint them regularly. Some of the roofings required a coat every year; others every two or three years.

In all cases a good deal of expense and trouble was involved. The popularity of Amatite is largely owing to the fact that its use does away with all such trouble and expense. This is due to its real mineral surface which is far more durable than any paint made. It is not affected by weather and will last indefinitely.

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Every practical man will doubly appreciate the "no-paint" idea when we add to that statement the fact that Amatite is lower in price than most of the "paint-mevery-two-years-or-leave-it" roofings.

In addition, Amatite with its smooth lap edge, is easy to lay, and the necessary nails and liquid cement for laps are supplied free, packed conveniently in each roll. Can any reasonable man ask more?

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Illustrations at top, from left to right, show: Chas. Johnson's Residence, Atlantic City, East Machias Lumber Co., East Machias, Me., A. J. Priebe's Barn, Petoskey, Mich. All covered with Amatite.

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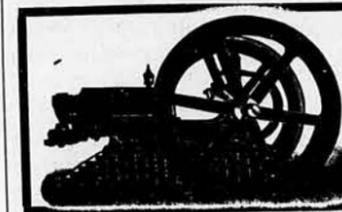
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WHEN WRITING OUR ADVERTISERS PLEASE MENTION THIS PAPER.

The Agricultural College is situated on the bluffs bordering the valleys of the Kansas and Blue Rivers, hence the land is rough and washy, also has outcroppings of stone. However, we have been able to make some good fields under these rather adverse conditions, and I have produced from these fields in recent years nearly 60 bushels of wheat per acre and over 80 bushels of corn per acre. If you will examine our report of crop yields for the last five years you will find that we have secured yields of all crops above the average for the county or the State. Bulletins Nos. 144 and 147 have been mailed to you.

Riley County may contain more rough land than Pottawatomie County or Jackson County, but the best farming land of Riley County, both upland and bottom land, is hard to beat. Crops seldom fall on account of drouth, but the bottom lands have suffered during the last few years from floods.

We are not finding fault regarding the location or the land which we have to farm at the State Agricultural College and Experiment Station. We are finding fault, however, with the fact that we have to rent-land for our use. At present more than one-half of the land used by the several experiment station departments of this college is rented from neighboring farmers. We require at least 200 acres more farming land, and land such as we desire to purchase will cost in the neighborhood of \$150 to \$200 per acre, which price indicates that the land is not especially poor in fertility. However, its location is in part the reason for the high price. We intend asking the next Legislature for an appropriation of \$40,000 to purchase more farm land for this college, and we want all the farmers of the State to support this proposition. Speak to your candidates for representative in the Legislature, and get them interested in this proposition.

A. M. TENEYCK.

**Thirty Years of Crop Rotations on the Common Prairie Soil of Illinois.**

Excerpts from Bulletin No. 125, Illinois Experiment Station. By Cyril G. Hopkins, chief in agronomy and chemistry, J. E. Readhimer, superintendent of soil experiment fields, and Wm. G. Eckhardt, assistant in soil fertility.

Near the end of thirty years an average yield of 96 bushels of corn per acre on one field, and an average yield of 27 bushels of corn per acre on another field, must be accepted as the results of different systems of farming on land that was similar and uniform at the beginning. These results have been obtained in the heart of the corn belt and on typical Illinois prairie land, representing the most extensive and the most important type of soil in the State,—land whose present market value ranges from \$150 to \$200 per acre,—a value that may change rapidly in Illinois, as it has already changed in the older States.

The 96 bushels is the average yield per acre for the years 1905, 1906, and 1907, in one system of farming; and the 27 bushels is the average yield for the same years in another system of farming on land originally the same. Between these extremes other results, have been obtained from several other systems of farming.

It is the purpose of this bulletin to report, especially to Illinois landowners and farmers, the valuable data that have been secured in these investigations. The results from these experiment fields are now beginning to influence the agricultural practise of the State, and they are destined to be of inestimable value to the commonwealth. Before discussing the details of the work, a comprehensive summary of the effects of the different systems of farming will be considered.

**SYSTEMS OF FARMING.**

In the table are given three year averages of the yields of corn secured in recent years, including 1907, which is the 29th year of the oldest experiments and the 13th year of a newer and more extensive series of experiments with crop rotations and soil treatment with special reference to two markedly different systems of

farming, of which one is termed grain farming and the other live stock farming. The crops in the 30th year of the older experiments may be seen by visiting these fields during the season of 1908.

Latest Corn Yields from the University of Illinois Experiment Field at Urbana: Typical Corn Belt Prairie Soil (Three-year averages: Bushels per acre).

Crop years.	Crop system.	13-year ex- periments.	29-year ex- periments.
1905-6-7....	Corn every year....	35	27
1903-5-7....	Corn and oats....	62	46
1901-4-7....	Corn, oats, clover....	66	58

Average of Three Corn Crops in Corn-Oats-Clover Rotation: 13-Year Experiments.

Crop years.	Special treatment.	Grain farming (with legumes)	Live stock farming (with manure)
1905-6-7....	None.....	69	81
1905-6-7....	Lime.....	72	85
1905-6-7....	Lime, phosphorus.....	90	93
1905-6-7....	Lime, phosphorus, potassium.....	94	96

\*Legume catch crops and crop residues.  
†Manure applied in proportion to previous crop yields.

As an average of the last three years where corn has been grown every year the yield has been 27 bushels in the 29-year experiments and 35 bushels in the 13-year experiments. The lesson of these experiments is that 13 years of cropping where corn follows corn every year reduces the yield from more than 70 bushels to 35 bushels per acre, after which the decrease is much less rapid, amounting to only 8 bushels reduction during the next 16 years. Undoubtedly the rapid reduction during the first 12 years of continuous corn growing is due in large part to the destruction of the more active decaying organic matter, resulting ultimately in insufficient liberation of plant food within the feeding range of the corn roots. In addition to this, the development of corn insects in soil on which their favorite crop is grown every year is sometimes an important factor in reducing the yield.

Where corn is followed by oats in a two-year rotation the average yield of the last three crops of corn is 46 bushels in the 29-year experiments, whereas in the 13-year experiments the average yield for the same three years is 62 bushels of corn per acre. In this case the destruction of humus is less rapid, and the development of the corn insects is discouraged by changing to oats every other year, so that the decrease in yield is less marked during the early years, although the reduction continues persistently with passing years. During the first 11 years the yield decreased from more than 70 bushels to 62 bushels, and during the next 16 years a further reduction of 16 bushels has occurred.

With the three-year rotation corn is grown for one year, followed by oats with clover seeding the second year, and clover alone the third year. During the first 10 years under this system the yield of corn has decreased from more than 70 bushels to 66, and during the next 16 years the yield has further decreased to 58 bushels, the average reduction being only one-half bushel a year. In this system the most marked reduction in crop yields has not yet appeared, although it must be expected in the future because the clover crop is already beginning to fail on the oldest field even in seasons when clover succeeds well on newer land under the same crop rotation. When clover fails we substitute cow-peas for that year on that field, which thus provides a legume crop and preserves the three-year rotation. Further time is required to determine how much the cow-peas will help to lessen the rate of decrease in yield of corn and oats.

**GRAIN FARMING.**

In the lower part of table 1 (third column) are recorded the average yields of corn for the last three years in a system of grain farming, in a three-year rotation of corn, oats, and clover. This system when fully under

way provides that the corn shall be husked and the stalks disked down in preparation for the seeding of oats and clover the second year. In harvesting the oats as much straw as possible is left in the stubble, which may be mowed to prevent the seeding of the clover or weeds. In the spring of the third year the clover is mowed once or twice before the usual haying time and left lying on the land. The seed crop, if successful, is harvested with a hay buncher attached to the mower or in any other way to avoid raking, and afterward the thrashed clover straw is returned to the land, all of this accumulated organic matter to be plowed under for the following corn crop, which begins the next rotation. In addition to this, catch crops of annual legumes, such as cow-peas, may be seeded in the corn at the time of the last cultivation and disked in the next spring with the corn stalks. If biennial or perennial legumes are used as catch crops, the corn ground may be plowed for oats.

The corn yields reported for this system in the table were secured where the system was not fully under way, the legume catch crops being the only organic matter returned to the soil, aside from the residues necessarily left from the corn-oats-clover rotation. By using three different fields for this rotation, every crop may be grown every year, and the yields of corn reported are true three-year averages.

With no special soil treatment aside from the use of legume catch crops, the yield of corn for 1905, 1906, and 1907 averaged 69 bushels. Where the equivalent of one-half ton per acre of ground limestone was applied five years ago the corn has yielded 72 bushels per acre; and, with phosphorus added for six years at the rate per annum of 25 pounds per acre of the element phosphorus (in 200 pounds of steamed bone meal) the average yield of corn has been 90 bushels per acre for the last three years. The yearly addition of 42 pounds of potassium in 100 pounds of potassium sulfate has further increased the yield to 94 bushels.

The cost per ton delivered is about \$2 for the limestone, \$25 for the steamed bone meal, and \$50 for the potassium sulfate.

**LIVE STOCK FARMING.**

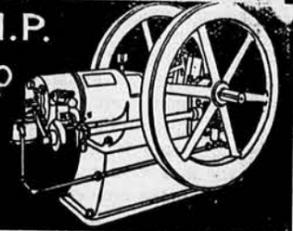
Under the heading "Live Stock Farming" in the table are recorded the average yields of corn secured during the last three years where farm manure has been applied to the clover ground to be plowed under for corn. The plan of this system is to remove all crops from the land as usually harvested, including the corn and stover, oats, and straw, and both first and second crops of clover. The amounts of manure applied to the different plots are determined by the crop yields secured during the previous rotation. While the system of cropping followed during the past 13 years on these spots, and on those just described under "grain farming," has been approximately equivalent to a three-year rotation of corn, oats, and clover, the applications of manure have been made only for the three years, 1905, 1906, and 1907. If the average yields are decreasing on plots that receive only the amounts of manure that can be produced in practise from the crops grown, then the applications of manure must also be reduced on such land; whereas if the crop yields are increasing where both manure and phosphorus are applied, then the applications of manure for such plots may be increased in direct proportion.

Where manure alone has been used in this rotation the corn has averaged 81 bushels per acre for the last three years; with lime added the average is 85 bushels; with lime and phosphorus the manured land has averaged 93 bushels of corn, and this was increased to 96 bushels by adding potassium.

While potassium has usually made some increase in crop yields on these fields it has not nearly paid its cost. The most profitable yields are the 90-bushel average in the grain farming or the 93-bushel average in the live stock system. The effect of limestone has

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not yet been sufficiently uniform to recommend its use on this soil, but marked profit has resulted from the addition of phosphorus, which is applied in sufficient amount actually to enrich the land and not as a stimulant.

**Horticulture**

**Unfermented Apple Juice.**

The chemical division of the U. S. Department of Agriculture has just issued a bulletin devoted to the preservation of unfermented apple juice.

It is well known that apple juice ordinarily ferments very quickly, transforming to hard cider and presently to vinegar. Fresh apple juice expressed from sound apples is a delightful beverage. Even a slight fermentation does not entirely destroy its pleasant flavor, but any considerable fermentation renders it undesirable.

The bulletin here referred to (Bureau of Chemistry—Bulletin No. 118) describes at length experiments which resulted in determining methods for preserving both in the small and large way, unfermented apple juice. Following is the summary of the bulletin:

1. The experiments described show conclusively that it is possible to sterilize apple juice in wooden containers, the product remaining sound for at least six months under the actual observation. The precautions which must be taken to insure this are as follows: First paraffin the containers on the outside, then sterilize, and fill with juices heated to between 149° and 158° F. (65° to 70° C.); seal, taking measures to relieve the vacuum produced by the contraction of the juice on cooling by filtering the air through cotton. Twenty-four 10-gallon kegs successfully stood a severe shipping test, showing no loss due to fermentation of the juice. The juice so prepared was found to be palatable, as a summer drink.

2. It is demonstrated that apple juice can be successfully sterilized in tin containers, using the type of tin can sealed by the mechanical process, excluding all metals from contact with the juice except the tin of the can. Where lacquered cans are used the contamination with tin was reduced about one-half. Apple juices were canned and sterilized by heating in a hot bath, up to the temperature of 149° F. (65° C.) for a half hour, and then were allowed to cool. These juices possessed only a slight cooked taste due to the heating and retained much of their distinctive apple flavor. It was found that from finely flavored apple juice a first-class sterile product could be made, while a poorly flavored apple juice yielded an inferior product. The process of the varieties mentioned were not quite thorough enough to sterilize all of the varieties canned. A slight increase in the temperature or time of processing, or both, should be made, the temperature not to exceed 70° C. (158° F.) in any case.

3. The best treatment for sterilizing in glass was found to consist of heating for one hour at 149° F. for one-half hour at 158° F. Heating for one hour at 158° did not produce marked deterioration in flavor, a half hour being allowed in all cases for the juice to obtain the temperature of the water bath.

4. It was shown that the great bulk of the insoluble material naturally contained in apple juice can be removed by means of a milk separator.

5. It is possible to carbonate the juice slightly before canning or bottling, thus adding a sparkle to the product. A flavor foreign to fresh apple juice is also added, however, and uncarbonated sterile juice will resemble fresh apple juice more closely. Carbonating by the addition of water charged with carbon dioxide was considered by some to injure the flavor, lessening the characteristic fruit flavor by dilution. In the opinion of others a heavy, rich juice was improved both by the charge of carbon dioxide and by the consequent dilution. Ex-

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A short distance North of our property a prominent

ore company has sunk a shaft and is now mining. In every direction drills have disclosed valuable finds of iron ore. Within 80 rods of our land drills have blocked out forty million tons of iron ore. The above ore company referred to has offered to supply us with money and take half the profits. We prefer, however, to develop it ourselves and divide the profits among those who invest with us and help develop this valuable land. Consequently, we believe this will be an excellent opportunity for you to receive good dividends on your investments.

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The tales of the wealth Minnesota Iron Mines are putting into the pockets of the people who have been far-sighted enough and invested in and helped

develop them, sound like fairy stories—but the facts are that the truth, if all told, would stagger belief. One dollar invested has jumped to \$140, and so on. True not every one is so lucky—while most of these who have not been so fortunate have been the ones who were too impatient to wait and sold out just before the fortune came. Good things are worth waiting for.

If you want to know more about our company and what it offers you in the way of a safe speculative investment, write today for our free illustrated prospectus, full of facts and figures that will open your eyes as to how some men got to be "Iron Kings." The same opportunities are open to you. Get the facts—it won't cost you anything to learn what the Iron Mines of Minnesota have done for the people who had the nerve to put their money into developing companies and help dig the ore out of the ground. Be sure to write today.

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periments indicated that the danger of contamination by mold growths was lessened by maintaining an atmosphere of carbon dioxide above the surface of the juice after opening.

6. It is demonstrated that benzoate of soda in quantities varying from 0.03 to 0.15 per cent (0.1 per cent being the maximum temporarily permitted by the food regulations), while it checks the alcoholic fermentation, allows other organisms to develop (notably the acetic acid ferment), whereby the palatability of the product as a beverage is destroyed.

**Suggestions to Fruit-Growers by J. H. Hale.**

Fruit-growers of Kansas are not strangers to J. H. Hale, of Georgia peach-growing fame. When Mr. Hale visited Kansas he impressed the State Horticultural Society as an embodiment of the energy of success. He is quoted in the Market Growers' Journal, and his suggestions will be appreciated by fruit-growers in Kansas, as follows:

"Many a day when New York has been overloaded with sixty to one

hundred cars, market towns of 20,000 or more population each to a total aggregate of over four million people, did not have a single car lot. Now, if these towns had been properly supplied from the surplus that went to New York, and that city had only from thirty to fifty cars a day, can any one doubt but that prices could have been maintained at a fair margin of profit to all?

"Dumping too many peaches in New York and a few other so-called large markets is the real cause of this year's low prices. Practically 5,000 carloads of Georgia peaches have now been marketed; seven sets of people have been interested in placing this enormous quantity of fine fruit in the hands of the consuming public, five of them have been paid in full, one of them a little over one-half paid and one practically nothing!"

Then Mr. Hale suggests as a solution, cooperation among the growers. "So-called distributing agents working for what there is in it for themselves will never do; it must be a full and free combination of growers," he says; "broadminded, capable, and honest

management, with no favorites of markets or growers, just equal distribution according to market's capacity of consumption and ability to pay, always protecting the f. o. b. buyer in his markets. This feature alone would bring the best buyers into Georgia and they would take the pick of the orchards at good prices if they could be sure their markets were not to be flooded with commission stock.

"It is up to the Georgia peach-growers to cooperate in the marketing of their crop. They will be able to find many splendid examples in various sections of the country. Cooperation in the marketing of crops is the secret of success in fruit and vegetable growing on a large scale."

**Animal Food.**

Howell—Poor Rowell's case was a said one.

Powell—Indeed? How?

Howell—He had been a vegetarian for years, and the other evening, when he opened his mouth to advise some friends to go and do likewise, he swallowed a bug.

## Home Departments

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### AMBITION.

What is Ambition?  
'Tis the spark that fires the soul;  
Pushing on with restless footsteps,  
Till we reach some longed-for goal;  
Pushing, pushing, ever pushing;  
Onward, upward, day by day,  
Till the spirit soars to heaven,  
And we quit this wornout clay.  
—Emily Bird McDuff, Atchison County.

### HAMLET'S SOLILOQUY.

To be, or not to be,—that is the question:  
Whether 'tis nobler in the mind to suffer  
The slings and arrows of outrageous  
fortune,  
Or to take arms against a sea of troubles,  
And, by opposing, end them?—To die,—  
to sleep,—  
No more,—and, by a sleep, to say we  
end  
The heartache and the thousand natural  
shocks  
That flesh is heir to,—'tis a consummation  
Devoutly to be wish'd. To die,—to  
sleep;  
To sleep! perchance to dream;—ay,  
there's the rub:  
For in that sleep of death what dreams  
may come,  
When we have shuffled off this mortal  
coil,  
Must give us pause; there's the respect  
That makes calamity of so long life;  
For who would bear the whips and  
scorns of time,  
The oppressor's wrong, the proud man's  
contumely,  
The pangs of disprized love, the law's  
delay,  
The insolence of office, and the spurns  
That patient merit of the unworthy  
takes,  
When he himself might his quietus  
make  
With a bare bodkin? who would fardels  
bear,  
To grunt and sweat under a weary life,  
But that the dread of something after  
death,—  
The undiscovered country from whose  
bourn  
No traveler returns—puzzles the will  
And makes us rather bear those ills we  
have  
Than fly to others that we know not of?  
Thus conscience does make cowards of  
us all;  
And thus the native hue of resolution  
Is sicklied o'er with the pale cast of  
thought;  
And enterprises of great pith and moment,  
With this regard, their currents turn  
awry,  
And lost the name of action.  
—Shakespeare.

### Kansas To-Day and Yesterday.

She was a most charming little woman with white wavy hair parted above a sweet face, with her New England accent and her Western kindness. She was telling an assembled group of horticulturists how this spot looked fifty-two years ago.

"When I first came here," she said, "this was all a prairie with now and then a tree to be seen along its wandering streams. There were few houses and no fences. We lived in a large house—it had one room, and was made of 'shakes.' But soon we made a double house of it by putting a partition through the room, and another family lived in one part while we continued to occupy the other. Travelers often came to us for lodging in this commodious place, and we did not turn them away. We had a convenience which you seldom see in these days. After the partition was put in there was still but one chimney and it was in the center of the roof, which was very convenient, for when the wind blew from the north, our neighbors kept the stove in their side, and when it turned, the stove was moved to suit it, and we all gathered into our room."

She looked so happy and so content while she lived over those old days of inconvenience and hardships that I thought to myself that hers was then, even as now, the spirit which finds joy in every circumstance of life. "Later," she went on, "we had an upstairs to our house, and my room was there. Often I have awakened to find my bed covered with snow and the room cold with it. It was beautiful—until we had to get up!"

"Oh, I have another story I want to tell you," and she laughed reminiscently. "It is about my first horseback ride in Kansas. But my horse was a mule, a stubborn old fellow. My sister and I wanted to pay a visit to a neighbor, a couple of miles away, and we were determined to go in

state, so my sister mounted the mule. He would not go for any amount of persuasion of the usual method. So I got an ear of corn and walked ahead of him all the way over there. 'Coming back I was bound to have a ride, so my sister walked ahead with the ear of corn.'

With our minds full of this bare Kansas of the older days we looked about us at the Kansas of the present. We were upon a hill covered with rare trees, and we looked out and away, across miles of fertile, cultivated valley to other long low hills, tree-covered. The contrast was sharp between what we had in our minds and what we saw. And so we wandered under the trees which let the flickering sunlight through upon the grass at our feet. We walked until we came to something that looked not at all like Kansas, something that made us think it was all a dream, this about Kansas having been a bare treeless plain. For we stood in a long passageway from a shady grove to sunny fields, and the passageway was a corridor of pines. They were huge evergreens seventy-five to eighty feet high, growing in two straight rows, between whose fragrant walls we walked on a springy turf of pine needles and cypress leaves. The walk was fully five hundred feet long and to stand at one end and look down its cool and shaded length gave one a feeling of strangeness as if we had been transplanted miraculously into some other part of the world.

We strolled back reluctantly, and when we came to where our host stood talking, we could think of no words to express to him our thankfulness and our wonder. For he is the veteran horticulturist of Kansas, and trees procured from him are growing all over the Kansas prairies. To such men as he and such women as his charming little story-telling friend of half a century's acquaintance, we Kansans of the present day owe thanks many more times than we can tell it. Such people as they get their reward from their own happy spirits, their own worthy accomplishments.

### More About "Little Rest Farm."

[Our readers will remember a letter which we published a year or so ago from "Little Rest Farm," in Massachusetts. It told the story of one day's work on that so suggestively-named place, "Little Rest Farm." Lately we have chanced to see a newspaper man's report of the same place which we give below. It may even prove suggestive to some enterprising young man or woman in our own State.—Ed.]

"On the farm of Norman H. Higgins may be seen three-quarters of an acre covered with beautiful asters, of all colors, white, pink, lavender, purple, and red, and the sight is well worth traveling miles to view. And the visit will be one long to be remembered. Mr. Higgins and his family do a large wholesale business in market-gardening and floriculture, making a specialty of sweet peas and asters.

"They have been raising sweet peas for about seven years, starting in a small way on a piece of land about thirty feet long, and the business has increased to such dimensions that this year they had about one and a half acres of the flowers. They started growing asters some five years ago, and the present summer they have cultivated three-quarters of an acre, having increased from one-third to one-half each season. The flowers are marketed mostly in Holyoke, Springfield, and Hartford, Connecticut, and some are sent to New Haven and as far as Bridgeport, Connecticut. In the asters this year there are three different classes, i. e., 'Queen of the Market,' 'Vick's Imperial' asters, and for the late flower, the branching asters. The sweet peas blossom from



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the latter part of June until the first of September, and the asters start blooming the last of July and continue into October, or until a hard frost comes.

"Mr. Higgins' son, Arthur W. Higgins, has charge of the flowers. The young man graduated from the Massachusetts Agricultural College in 1907, where he specialized in floriculture and horticulture, and is intensely interested in his work. He is putting to practical use, the knowledge he gained at the college, and the results are most gratifying. Mr. Higgins thinks that his success is largely due to fertilizing the soil thoroughly every year, and constantly tilling it, keeping it stirred to form a surface mulch. The earth in which the sweet peas are grown is a light, warm soil, and is better adapted for raising flowers than for vegetables. The peas are grown from seeds, and require careful planting. They are first put in a trench about a foot deep, which is filled in with the soil as they grow. The reason why so many people experience difficulty in raising sweet peas, is that they are put in the ground too late, and the plants go to vines, the last of March or the first of April being the proper time, or as soon as the ground gets warmed up. A heavy soil does not produce as large nor as good a flower as the light warm soil.

"The peas begin blossoming when the plants are about a foot high and will have flowers at every joint, and they never grow to be more than five or six feet high. At present Mr. Higgins depends entirely on the rain for keeping the plants moist, but he is contemplating a system of irrigation next spring, though the matter is not yet definitely settled. A new water system is to be installed in the spring, and a large reservoir put in on the hill above the greenhouse, the water to be pumped up from the brook below the Higgins' home. The asters are started in the greenhouse, and the plants set out later.

"Edward H. Higgins has charge of the general market gardening and aside from about three acres of tomatoes, he has raised corn, cabbage, etc., which are disposed of in Holyoke and Westfield markets. The present greenhouse is 18 feet wide, and 75 feet long, and is built in the best possible modern manner. A new Mercer hot-water boiler was installed in the dwelling house last fall, and the greenhouse is heated from this, the pipes having been placed under the road to reach the building. A new greenhouse is being built next to the present one, about twice its width, and it will be heated in the same manner, though probably not this winter. The first green house was built when Arthur Higgins was a sophomore in college, and it is 35 feet long. The method of heating was somewhat crude compared to the present system, a stove being placed in one end of the building, with the pipe running under the bench in the center of the house, and going out through a hole in the other end of the building.

"In the fall chrysanthemums are grown in the greenhouse, followed by carnations, and vegetable and bedding plants. The plants and seedlings are sold as well as the flowers, and the business is increasing all the time. This winter, as an experiment, Mr. Higgins will have a bench of sweet peas in the greenhouse, and thinks the sale will compare favorably with carnations. The way the plants are

grown, and the means used in cultivating them are most instructive, and anyone interested in gardening, can spend a few hours no more profitably than in a visit to 'Little Rest Farm.'

### Household Hints from Here and There

Do not attempt to clean suede gloves with gasoline. Draw them on the hands and scrub with a soft, old nail brush dipped in fuller's earth. Some cleaners combine equal parts of fuller's earth and powdered alum.

When ink is spilled on a carpet sop up as much as possible with blotting paper. Then wash the spot with a piece of rag dipped in milk, changing the milk when dirty. When the ink has disappeared wash the spot over with ammonia and water and no stain will be left.

Moth patches may be removed by a lotion of salicylic acid and rose water—two ounces of rose water to two half a dram of acid.

To make a damp cupboard dry stand in it a bowl of quicklime, which must be occasionally renewed, as it loses its power.

When celery is high and you can not often afford it and yet if you like it for flavoring soups, etc., try this plan: Wash well all leaves and parts too tough for table use. Put these in a pan and dry slowly in a cool oven. Roll into powder, strain through a fine sieve to remove any lumpy pieces and store in a dry can or jar that can be closed to all air. This is nice added to soups, stews, or salads. This is far cheaper than and just as good as celery flavoring sold in stores.

The care of lamps is an extremely important detail in the mechanism of the household. Unless it fulfills its duty of burning clearly and brightly, a lamp is of no use whatever. And it can not fulfil this duty unless all of its parts are kept free from dust and superfluous oil. If a lamp burns with a disagreeable oily odor, and there is no leak or other obvious defect, its parts need boiling. Take the lamp apart as much as possible, put the pieces in a kettle, cover them with cold water to which a handful of washing soda has been added, and bring to a boil. Remove the parts, and after drying thoroughly, adjust them. Very often this treatment is all that a "smelly" lamp requires. All lamps should be boiled in his way but once a month.

Salt fish are best freshened by soaking in sour milk.

A teaspoonful of ammonia in a tea cup of water, applied with a rag, will clean silver and gold perfectly.

Freshly powdered charcoal on tin plates should be placed in the milk-room. It absorbs noxious gases and kills the bad smells and odors. It should be changed frequently, especially during summer.

The most practical cover for a glass of water or medicine in the sick room is made from an ordinary envelope. The flap of the envelope is turned in, the envelope is then opened out like a bag, and the lower corners turned down against the sides, making an almost circular cap that fits over a glass or small pitcher, excluding dust or

germs, without noise or danger of slipping off. It will conveniently hold a spoon or dropper and can be marked with the hours for doses.

**The Young Folks**

**A COUNTRY PUPPY.**

His coat is rough and shaggy,  
But his tail is very waggy.  
For he wasn't educated with a whip,  
He never knew a tether,  
Or a muzzle made of leather;  
He's a free and independent little rip.

He thinks it mighty funny  
To pursue a frightened bunny  
Or to chase an angry squirrel up a  
trunk.

Though he's hardly finished growing,  
He has reached the point of knowing  
There's a difference 'twixt a wood-  
chuck and a skunk.

He will cock a saucy ear up  
At a whistle or a chirrup;  
You should hear the merry music of  
his bark

When he comes to me careering  
Through the meadow or the clearing  
Like an infantile tornado on a lark.

Such a friendly little fellow!  
Though he's pretty nearly yellow.  
But he's coming for a confidential  
talk.

And his pleading eyes are saying  
That to-day was meant for playing.  
So I'd rather guess we're going for a  
walk.

—New York Times.

**A Boy Who Recommended Himself.**

John Brent was trimming his hedge, and the snip, snip of his shears was a pleasing sound to his ears. In the rear of him stretched a wide, smoothly kept lawn, in the center of which stood his residence, a handsome, massive, modern structure which had cost him not less than \$90,000.

Just beyond the hedge was a public sidewalk, and two boys stopped opposite to where he was at work, he on the one side of the hedge and they on the other.

"Hello, Fred! That's a very handsome tennis racquet," one of them said. "You paid about seven dollars for it, didn't you?"

"Only six, Charlie," was the reply. "Your old one is in prime order yet. What will you take for it?"

"I sold it to Willie Robbins for one dollar and a half," replied Fred.

"Well, now, that was silly," declared Charlie. "I'd have given up three dollars for it."

"You are too late," replied Fred; "I have promised it to Willie."

"Oh, you only promised it to him, eh, and he's simply promised to pay for it, I suppose? I'll give you three dollars cash for it."

"I can't do it, Charlie."  
"You can if you want to. A dollar and a half more isn't to be sneezed at."

"Of course not," admitted Fred, "and I'd like to have it, only I promised the racquet to Willie."

"But you are not bound to keep your promise. You are at liberty to take more for it. Tell him that I offered you another time as much more, and that will settle it."

"No, Charlie," gravely replied the other boy; "that will not settle it, neither with Willie nor me. I can not disappoint him. A bargain is a bargain. The racquet is his even if it hasn't been delivered."

"Oh, let him have it," retorted Charlie, angrily. "Fred Fenton, I will not say that you are a chump, but I'll predict that you'll never make a successful business man. You are too punctilious."

John Brent overheard the conversation, and he stepped to a gap in the hedge in order to get a look at the boy who had such a high regard for his word.

"The lad has a good face, and is made of the right sort of stuff," was the millionaire's mental comment. "He places a proper value upon integ-

rity, and he will succeed in business because he is punctilious."

The next day, while he was again working on his hedge, John Brent overheard another conversation. Fred Fenton was again a participant in it.

"Fred, let us go over to the circus lot," the other boy said. "The men are putting up the tents for the afternoon performance."

"No, Joe; I'd rather not," Fred said. "But why?"

"On account of the profanity. One never hears anything good on such occasions, and I would advise you not to go. My mother would not want me to go."

"Did she say you shouldn't?"  
"No, Joe."

"Then let us go. You will not be disobeying her orders."

"But I will be disobeying her wishes," insisted Fred. "No, I will not go."

"That is another good point in that boy," thought John Brent. "A boy who respects his mother's wishes very rarely goes wrong."

Two months later John Brent advertised for a clerk in his factory, and there were at least a dozen applicants.

"I can simply take your names and residences this morning," he replied. "I'll make inquiries about you, and notify the one whom I conclude to select."

Three of the boys gave their names and residences.

"What is your name?" he asked, as he glanced at the fourth boy.

"Fred Fenton, sir," was the reply.

John Brent remembered the name and the boy. He looked at him keenly, a pleased smile crossing his face.

"You can stay," he said. "I've been suited sooner than I expected to be," he added, looking at the other boys, and dismissing them with a wave of his hand.

"Why did you take me?" asked Fred in surprise. "Why were inquiries not necessary in my case? You do not know me."

"I know you better than you think I do," John Brent said, with a significant smile.

"But I offered you no recommendation," suggested Fred.

"My boy, it wasn't necessary," replied John Brent. "I overheard you recommend yourself," and as he felt disposed to enlighten Fred, he told him about the two conversations he had overheard.

This is a true story.—Philadelphia Ledger.

**What the Week's Course in Domestic Science Meant to Me.**

A PRIZE ESSAY IN DOMESTIC SCIENCE BY A HIGH SCHOOL GIRL.

Domestic science teaches the science of good housekeeping. Every woman, rich or poor, should be acquainted with this art, because every woman, if she is a true woman, wishes to be a good housekeeper.

I believe that a woman's place is at home, and her greatest pleasure should be in making life cheerful and bright for those whom she loves, and whose lives, in a great measure, depend upon her wise counsel and good advice.

A home should be kept fresh, clean, and cheerful, because it is an example which her children will never forget. After children grow up to be men and women, they always remember their home. This is why I believe the home should be pleasant.

Domestic science means all these things.

One thing I learned was this, that in order to have a well kept house, things must be arranged systematically. Each thing should have its place and it must be kept in its place. Each duty should be performed at a certain time. But a housewife's life should not be all work and no pleasure. Of course, if she is interested, her work is a pleasure; but she should not stay at home all the time. She should have her pleasures as well as her cares, and every member of the family should try as much as possible to lighten her work. There are so many things which a son or daughter can do to

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**OLIVER D. NOBLE,**  
PRESIDENT.

Miss Tate is bookkeeper for Green & Sons.  
Miss Woodruff has taken a position in the A. T. & S. F. general offices.  
Miss Mills is assisting Public Stenographer Ambrose in his work.  
Miss Rinker is doing stenographic work in the office of Mr. Frank Grimes.  
Miss Regar has taken a position as bookkeeper and stenographer with the Agricultural Remedy Company.  
Mr. O. Ritchie has returned from Tu-

cumcari, N. M., and taken a position with Ambrose, the court reporter. Orlo Peck was one of the stenographers who reported the proceedings of the meeting of the A. T. & S. F. mechanical and transportation officials.

Mrs. Dyer did the shorthand and type-writing work in the labor commissioner's office while Mr. Royce, the regular stenographer, was on his vacation.

Mr. Frank Wilson has severed his connection with the A. T. & S. F. general offices and has taken a position with the Southern Pacific Railroad at San Francisco, Cal.

The following students have taken positions the past week:

Miss Rodgers, cashier, Green & Sons. Mr. Crowe, stenographer, Democratic State Central Committee. Miss Belt, stenographer Mail and Breeze.

Mr. Gilleece, clerk and assistant bookkeeper, Topeka Edison Company. Mr. Breitenstein, stenographer, Crane & Co.

Miss Williams, bookkeeper and stenographer, county coroner. Miss Higgins, stenographer, Farmers' Union.

The teachers have been much pleased to greet among the many callers of the past few days, the following former students:

Judge James Finley, judge of district court, Chanute, Kans.

Bertha Schupp, court reporter, Guthrie, Okla.

A. F. Wallace, principal commercial department, Strayer's Business College, Philadelphia, Pa.

H. O. Wallace, district manager, Gulf Refinery Oil Co., San Antonio, Texas.

H. L. Wallace, manager, Cain, Wallace & Co. ranch and farm business, Adrian, N. D.

Laura Lusk, postoffice department, St. Louis, Mo.

Clair Pinkerton, manager Montgomery Mullett Lumber Co., Los Angeles, Cal.

E. J. Bartel, of Barton Bros. & Co., Alexandria, La.

Ed Alsdorff, stenographer, engineering department Santa Fe Railway, Newton, Kans.

Mrs. Buntin, stenographer, Frisco Railway, Birmingham, Ala.

Arthur Nixon, bookkeeper, Bell Telephone Co., Kansas City, Mo.

Archie Havekott, bookkeeper, Stevens & Co., Bancroft, Neb.

Roy Hotz, bookkeeper, general merchandise store, Richland, Kans.

**Occupation of Idleness.**

Wicked deeds are generally done, even with impunity, for the mere desire of occupation.—Ammianus Marcellinus.

**The Little Ones**

**MUD PIES.**

The Grown Ups are the queerest folks; they never seem to know That mud pies always have to be made just exactly so. You have to have a nice back-yard, a sunny, pleasant day, And then you ask some boys and girls to come around and play.

You mix some mud up in a pail, and stir it with a stick; It musn't be a bit too thin—and not a bit too thick. And then you make it into pies, and pat 'em with your hand, And bake 'em on a nice flat board, and my! but they are grand! —Carolyn Wells, in St. Nicholas.

**Told in the Dark.**

Leo was in bed. He had said, "Now I lay me;" then he had asked his mother to turn down the light.

Leo was a very lion to face all outside foes. He was not so brave when face to face with the little knight of right within him. That was what mother called his conscience—the little knight of right.

Mother knew what it meant when Leo asked to have the light turned out; she sat down on the bed, and took Leo's hand and said in a tender, encouraging way:

"Tell mother all about it."

Leo lay very still for some minutes, then he burst out in a boy's way right in the middle of the story:

"P'raps you'll think 'twasn't so—an' I don't know as I'd b'lieve it myself, only I saw them with my own eyes—I did mother! an' you'll say yes, won't you mother? I couldn't help it, really I couldn't—an' she's down in the kitchen!"

Mother smiled. She stroked the little brown fist. She spoke gently.

"What was the strange sight, and who is 'she'?"

"Well, it was this way. We boys were coming home from skating, just dark, an' a cat scatted across the road, an' all the fellows snowballed her—I did, too, mother—an' she tried to squirm through a picket fence an' got caught an' couldn't get through or



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They need no breaking in. Are easily slipped on or off. They are comfortable all the year 'round. The saving in medicine and doctor bills will pay for Steel Shoes many times over. Order a pair today!

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back, either, an' all the boys yelled—an' at that very minute the East Enders fired on us from over the wall, an' we had a regular fight, an' drove 'em all the way back, just like the minute men that time at Lexington.

"Then it was dark, an' I came home from the corner alone. An' along in the pine woods—this is true, mother, 'tis, I saw it with my own eyes—I saw kit's face in the dark, in the air—an' lots of other kittens' faces, the dark was full of them, an' all the eyes looked at me, so beggin' like I was so sorry—an' a little bit, afraid, too—an' I just started an' run."

"Did you leave the kitten faces behind when you ran home?" asked mother.

"I didn't run home—I—I run back the road where we snowballed the kit; an' there she was, stuck fast in the fence, an' mewin' just awful—an' I got her out an' brought her home, an'—an' she's down in the kitchen now!"

The little brown fingers squirmed around mother's as he went on doubtfully, "An' you will say yes, won't you, mother? I couldn't help it—I really couldn't, mother—an' we've only three other kits, you know—only three, mother!"

Mother lifted the little brown fist and kissed it. "We will take care of her some how," she said.

Leo was very still for the next minute or two, then he suddenly asked:

"But the faces, mother, the kittens' faces, in the dark—how came they there? Such a many kits' faces—and such eyes!"

Mother kissed Leo again, this time on his red lips, as she replied: "Perhaps it was the doing of the little knight of right!"—Little Men and Women.

**Club Department**

**Officers of the State Federation of Women's Clubs.**

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- Vice-President.....Mrs. C. H. Trotter, Junction City
- Rec. Secretary.....Mrs. F. B. Wheeler, Pittsburg
- Cor. Secretary.....Mrs. Charles C. Shoales, Olathe
- Treasurer.....Mrs. C. W. Landis, Osborne
- Auditor.....Mrs. M. S. Munson, Eldorado
- General Secretary.....Mrs. C. C. Goddard, Leavenworth
- General Director.....Mrs. W. A. Johnson, Topeka

**A New Idea for the Country Club Woman.**

The other day I was visiting with a certain country club woman of Kansas and she took me into her confidence so much as to show me a pet scheme of hers which seemed to me a wonderfully good idea. It was simply the scrap-book plan carried to a fine point. From papers and magazines for years back she had clipped and saved whatever was interesting or valuable, pictures, poems, stories, sketches, biography, history, and anecdote. But instead of mixing them in one heterogeneous mass as every one else does, she had classified every thing and put them into separate packages. She had saved great boxes of clippings—dozens of boxes—until she had a splendid reference library all her own. One box contained some

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twenty or twenty-five big envelopes each labeled with the name of a State, and each containing a great variety of information about that State. Another box had all sorts of references and sketches of great men, all systematically labeled. In another box my friend had saved pictures, magazine cover designs that were especially good, copies of famous pictures, portraits of famous people, etc. I can not begin to relate all the wealth of this library of clippings. But it can be plainly seen how extensive and how valuable it is.

Now for its practical usefulness. The lady is in touch with three different country clubs in her vicinity. When any member of one of these clubs has a paper to write she inquires of my friend what clippings she has upon the subject. She is handed an envelope marked "Domestic Science," "Abraham Lincoln," "Kansas," or whatever the subject may be, and there in compact form is a great variety of information ready to be digested and made into a paper.

Nor is this all. The clippings library has a further usefulness. When anyone of the three clubs comes to the making out of its yearly program, my friend's library of envelopes is looked over and it furnishes a great variety of suggestions, so that sometimes a whole year's work is planned simply from data furnished by the labels on the envelopes.

I have described this plan of my friend's not only because it is interesting and unique, but also because I am sure it will be suggestive to other club members. One such woman as this

in any neighborhood is as valuable as a permanent library.

Responses to Roll Call.

There are many different ways of making club meetings interesting. One of the most important parts of the program is the roll call with its responses, and here is a splendid opportunity for giving variety to the different meetings. Here are some suggestions, taken from programs sent us by our country clubs:

1. From the Clio Club.—Beautiful spots of the world, people who are passing, famous art galleries, arts and crafts, what the world is doing, Christ in art (illustrated), that reminds me, some magazine cover designs (illustrated), famous actors of the day, famous American songs.

2. From Domestic Science Club of Osage.—Poultry notes, tree descriptions, my childhood home, sayings of little ones, soldier sketches, or war incidents, favorite recipes, my father, Indian stories, dairy don'ts, picture and artist, sewing hints.

3. From Mutual Helpers Club.—Bible texts, favorite cake recipes, my favorite breed of hens, my favorite flower, a joke, original or otherwise, favorite names, my National hero, and why, the best book I read, my best pickles and preserves, a conundrum.

4. From Pleasant Hour Club.—Summer experiences, yesterdays, autumn, Halloween, Bible flowers, Thanksgiving, quotations from Stevenson, woman's work in music, valentines, Cuban characters, island incidents, American composers.

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6109 Fancy Blouse, Waist, 32 to 40 bust.

6117 Child's Caps, 2, 4 and 6 years.

6111 Child's Night Drawers with Feet, 2 to 8 years.

6112 Tucked or Gathered Sleeves, Small 32 or 34, Medium 36 or 38, Large 40 or 42 bust.

6118 Draped Sheath Skirt, 22 to 30 waist.

6110 Loose Fitting Coat, C4 to 44 bust.

6116 Child's Tucked Coat, 2, 4 and 6 years.

6113 Misses' Bath Robe, 12, 14 and 16 years.

6114 Girl's Tucked Dress, 8 to 14 years.

DIRECTIONS FOR ORDERING.

Send ten cents (stamps or coin) to the Fashion Department of this paper, stating number and size of pattern desired and same will be mailed at once. Patterns, 10 cents each.

# Do You Want a Watch?



Not a cheap "dollar watch," which is really a clock, but a real jeweled, guaranteed watch that is made by one of the best known watch factories in the United States.

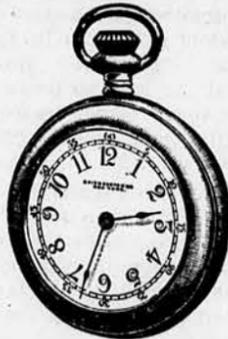
The Kansas Farmer now offers a number of styles of these famous Knickerbocker Watches, genuine jeweled movement, solid nickel silver cases, porcelain (not paper) dials, fully guaranteed, as premiums during the next 30 days only.

We have only a small number of these watches and "first come first served."

Remember that these are not cheap clocks in watch form but jeweled movement watches.

Which one do you want?

No. 49. Man's Watch. Sixteen size, open face, German silver watch with a genuine jeweled movement. "The Knickerbocker." Stem wind and set, porcelain dial, engraved case that is guaranteed to wear permanently. Guaranteed an excellent time-piece. Not a clock but a real watch. Given for three subscriptions at \$1.00 each.

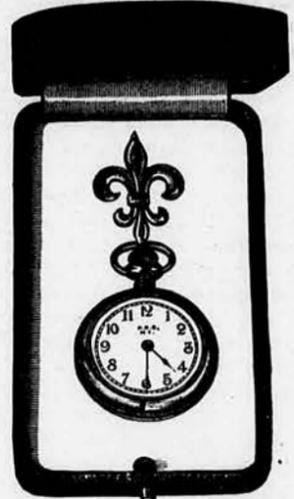


No. 458. Lady's Nickel Silver Watch. Popular 6 size, genuine American Watch movement, finest of material and adjustment, an excellent time-piece, enamel dial, nickel silver case will never change color, antique bow, fully guaranteed, furnished in satin lined box. Given for three subscriptions at \$1.00 each.

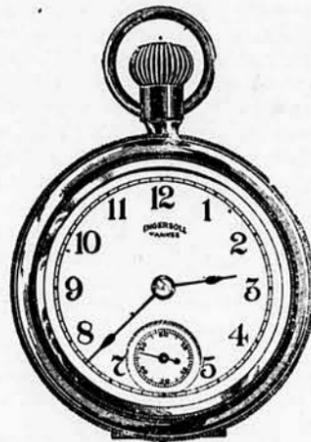
No. 478. Boy's or Outing Watch. Nickel silver, 8 size, will never change color, engraved back, full bezel, heavy Arabic dial, genuine watch movement, regulated and fully guaranteed, antique bow and crown, stem wind and set. Given for three subscriptions at \$1.00 each.



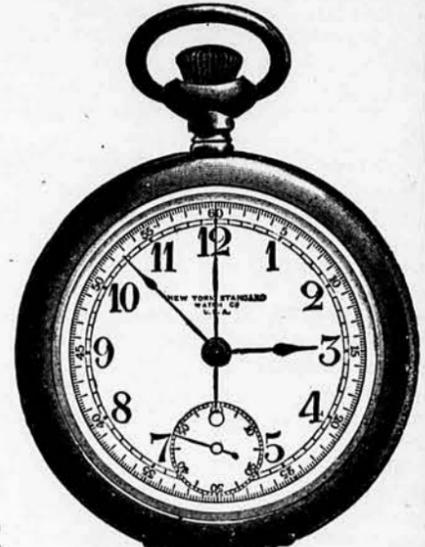
No. 981. The Skeleton Watch. The "Skeleton" is a most unique and novel watch; the front and back plates of the movement are cut so as to give an unobstructed view of its inner mechanism. You can see through it. An absolutely guaranteed time-keeper, strong and durable enough to last a lifetime; it is furnished in nickel and gun metal. Given for five subscriptions at \$1.00 each.



No. 136. Lady's 30-year Gold Filled Watch. An O.S. chatelaine watch with high grade American jeweled movement, the case is gold filled, pan polished, warranted to wear for 21 years, stem wind and stem set, porcelain dial and fully guaranteed. Given for twelve subscriptions at \$1.00 each.



The Alarm Watch. Novel and most useful in many ways an excellent watch with an alarm attachment will insure your keeping your engagements; the back, when opened serves as a desk stand which makes it not only valuable on account of the alarm but as a desk watch; gun metal case, making it an artistic, novel and guaranteed watch. Given for ten subscriptions at \$1.00 each.



Stop Watch. Nickel silver case, regular high grade 7 jewel New York Standard movement, with split second attachment. A perfect recorder for timing sports, races or mechanical movements; fully guaranteed. Given for ten subscriptions at \$1.00 each.

Address, KANSAS FARMER CO., Topeka, Kans.

## Try the "Feel" of the Handle of a SHARPLES TUBULAR SEPARATOR

Turn it a few minutes.  
Then try the handle of another  
separator.

Less weight,  
fewer parts,  
one bearing—  
a ball bearing  
—and suspended  
bowl in the  
Tubular.

More weight,  
more parts,  
more than one  
bearing, a top-  
heavy, supported bowl in other  
separators.

Of course the "feel" is different  
—as different as the separators.

And the grip of your hand on  
the handle is a good guide to a  
fair judgment of the difference  
between the Tubular and "bucket  
bowls."

Our Catalogue No. 165 tells the sci-  
entific and mechanical reasons how  
the Tubular is different and why it is  
better than other separators—better  
in clean skimming, easier running,  
less repair bills, more economical  
oilings. Free for the asking. Write  
today for it.

THE SHARPLES SEPARATOR CO.,  
West Chester, Penna.  
Toronto, Can. San Francisco, Calif. Chicago, Ill.



ish or refinement. Aside from this  
natural process, it is very doubtful  
whether any improvement can be  
made or should be attempted. The  
Holland type is the result of centuries  
of selection and environment, and it  
has distinguished these cattle in all  
parts of the world. With it has come  
the marvelous and profitable produc-  
tion or yield, the characteristic ten-  
dencies of powerful digestion and per-  
fect assimilation of food. These char-  
acteristics, derived from the Holstein,  
have been important factors in the  
foundation stock of the Shorthorn and  
Ayrshire breeds, and of many of the  
Continental offshoots.

### THE HOLLAND TYPE.

In America it was the Holland type  
by its productive power directed the  
attention of agriculturists towards this  
breed, and it is safe to assert that an  
examination of the great majority of  
remarkable yields will show, to those  
having means of access to photographs  
or descriptions, the close adherence to  
the Holland type in all these wonder-  
ful animals. Large size in the Hol-  
stein is the first thing to impress the  
casual observer, and its importance  
should never be disregarded.

### SIZE.

In refining pure-bred Holstein cattle,  
this fact was duly set forth by the  
founders of the Herd-Book Associa-  
tion, in these words, which should never  
be forgotten, no matter what may  
be the yield in milk or its fat percent-  
age, viz.: "Pure-bred Holstein-Frie-  
sian shall be held to mean and refer  
to only those large, improved black  
and white cattle, etc." (Art. 4, sec.  
5, by-laws of H.-F. A. of A.)

Scientific investigation in this coun-  
try, particularly in Wisconsin, has con-  
firmed the wisdom of the early breed-  
ers in thus defining the type of the  
breed as "large," for the large cow of  
any breed is uniformly the more pro-  
fitable.

An idea of the size of animals of  
this breed, at the time of Mr. Chon-  
ery's first importations, may be gain-  
ed from the following quotations (vol.  
2, Holstein H.-B., folio 19):

"The bull, Van Tromp, imported in  
the womb of Texelaar, is now 6 years  
old, and his girth is 8 feet 5 inches;  
length, 9 feet 2 inches; height, 5 feet  
2 inches; weight, 2,720 pounds; and  
the weight of the 2-year-old bull, Op-  
perdoes 7th, is 1,597 pounds. The  
weight of the imported cow, Texelaar  
is 1,560 pounds; Lady Midwoud 1,620  
pounds; the 4-year-old heifer, Opper-  
does 3d, 1,495 pounds; the 3-year-old  
heifer, Texelaar 5th, 1,500 pounds; the  
2-year-old heifer, Texelaar 8th, 1,290  
pounds; the yearling heifer, Zuider Zee 5th,  
900 pounds; the bull calf, Duke  
of Belmont, nine months old, 710  
pounds, and the heifer calf, Midwoud  
8th, nine months old 635 pounds; all  
raised in the ordinary way, without  
forcing, the young animals running in  
pasture from May until November."

Burton W. Potter, in 1906, published  
the results of his investigations as to  
the weight of sixty large record cows,  
tested under the present Advanced  
Registry system, 1894 to 1906.

Mr. Potter summarizes thus: "Of  
the sixty cows, only thirteen weigh  
more than 1,500 pounds each, and only  
twenty-seven surpass the 1,400 pound  
mark. Only nine weigh less than 1,200  
pounds, and the average weight of the  
whole number is 1,383 pounds," etc.  
"Of the twenty-five bulls, not one  
weighs less than 1,800 pounds, and  
only five less than 2,000 pounds. Only  
three weigh more than 2,400 pounds,  
and the average weight of the whole  
number is 2,164 pounds."

Mr. S. Hoxie, in the pamphlet, "Hol-  
stein-Friesian Cattle," (1905) writing  
upon the size of cows, states: "In or-  
dinary milking condition at full age,  
they range in weight from 1,000 to  
1,500 pounds."

### THE THREE FORMS.

With large sizes as the recognized  
predominant characteristic of the  
breed, aside from their beautiful black  
and white color markings in perfectly  
defined patches or spots, the next gen-  
eral definition relates to the general  
conformation of the animal. There



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First—Always Best—Cheapest

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Ten years ahead of all others in  
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BEAUTIFUL IN DESIGN  
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EVERLASTING IN DAILY USE

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the new and improved machines in detail, to be had for the  
asking.

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MONTREAL  
14 & 16 PRINCESS STREET  
WINNIPEG  
107 FIRST STREET  
PORTLAND, OREG.

are three definite types, described as  
the milk and beef form, the milk form,  
and beef form and milk form.

### THE MILK AND BEEF FORM.

The average form of this breed and  
that toward which conscientious  
breeders are directing their efforts to  
maintain and improve, is the milk and  
beef form.

Mr. S. Hoxie thus admirably refers  
to the milk and beef type of the  
breed: "It is especially strong in all  
vital particulars. The bones are fine  
compared with size, and the chine  
broad and strong compared with the  
high and sharp chine of the extreme  
milk form. The loin and hips are  
broad and smooth, and the rump high  
and level, compared with the angular-  
ity usually shown in the milk form.  
The twist is roomy and the thighs  
and hocks well apart. Passing for-  
ward the shoulders are smoother and  
more compact than in the milk form,  
but of lighter weight than in the beef  
form. The brisket is not so wide and  
low as in the beef form, and the chest  
is not so deep, but the width of the  
beef form through the heart is closely  
retained. In the milk form the abdo-  
men is usually swung low, and the ribs  
are steep, but in the milk and beef  
form the ribs are wider sprung and  
the abdomen more trimly held up  
though no less capacious. The general  
appearance of the bull is strongly  
masculine, but that of the cow is no  
less feminine than in the milk form."

It may be further emphasized, that  
the milk and beef form, describes a  
cow of the wedge form, with shoulders  
moderately thick, deep, and broad,  
crops well filled, barrel well rounded,  
loin and hips broad and full, and quar-  
ters straight, wide, and full.

To this form of these cattle is due  
their extraordinary constitutional vig-  
or or vital force, and it affects all their  
relations to their food, care, and pro-  
ductions.

The milk and beef form is not ac-  
companied with the angularity of ap-  
pearance, the light shoulders and  
chest, and the comparatively light  
quarters of cattle of the milk form.

The future of the breed will be  
greatly endangered by those, who,  
from one consideration or another, the  
combination of pedigrees to attain  
large average records or fat percent-  
ages, or by neglect of proper feed and

care in the early life of the animal, are  
led to the mating of animals of other  
than those of large size, and possess-  
ing the milk and beef form. Neither  
the breeds of the Channel Islands nor  
the Ayrshire breed possesses this form,  
even remotely. F. L. HOUGHTON.

Brattleboro, Vt.

### Hand Separators.

The farmer or dairyman who hand-  
les the milk from five or more cows  
for profit in butter making or cream  
selling should own a hand separator.

The hand separator, working under  
favorable conditions, leaves from 1-50  
to 1-20 of a pound of butter-fat in 100  
pounds of skim-milk. The gravity and  
the dilution (water separator) sys-  
tems of securing the butter-fat, will  
leave, under the most favorable condi-  
tions, from 1/2 to 3/4 of a pound of but-  
ter-fat to each 100 pounds of skim-  
milk.

The farmer who handles the milk  
from ten cows which produce 80,000  
pounds of milk per year, should not  
lose over 40 pounds of butter-fat in  
the separator skim-milk. By the wa-  
ter separator (dilution) or gravity  
methods there would be a loss of 275  
to 600 pounds of butter-fat per year.  
Figuring butter-fat at 20 cents a  
pound, there would be a loss between  
the hand separator and the other  
methods of from \$45 to \$110 a year.  
Thus the saving in one year would  
pay for the separator, and it would be  
good for many more years of service.

### ADVANTAGES OF THE HAND SEPARATOR.

1. The machine not only secures  
practically all the butter-fat, but it de-  
livers the skim-milk in a sweet, warm,  
and undiluted condition ready for the  
calves or pigs.

2. Less labor and dairy utensils are  
necessary than with the other sys-  
tems.

3. The cream is of uniform rich-  
ness. It has removed much of the  
fibrous and foreign matter.

4. The milk has had no chance to  
absorb bad flavors and odors from  
standing around and the cream is pro-  
duced in excellent condition.

5. There is a gain in the quality as  
well as the quantity of the butter ob-  
tained.

6. City dairies can improve the qual-  
ity of their milk very much by run-  
ning it through the separator and af-

## Dairy Interests

### Caked Udder.

EDITOR KANSAS FARMER:—In reply  
to an inquiry regarding caked udder  
would say that if the trouble has been  
of long standing, such as is intimated  
in the letter of inquiry, I would be in-  
clined to believe that very little can  
be done to relieve the trouble. The  
principal cause of caked udders is in-  
flammation, and frequently induced by  
chill and cold. Too much care can not  
be exercised, especially with the  
newly freshened cow, to protect her  
from draughts, sudden changes in tem-  
perature, and chilling rains.

This trouble is sometimes caused by  
voluntary secretion of milk before  
freshening. In this case no better  
treatment can be given than that of  
bathing the udder with the first milk  
drawn from the cow. The writer has  
known of some cases where the milk  
has been secured from newly freshen-  
ed cows to bathe the udders of others  
that were inflamed and in a caked con-  
dition. It is one of nature's balms, re-  
duces the temperature and makes the  
udder pliable.

To the inquirer I would suggest that  
he consult a good veterinary surgeon,  
as the case appears very much like  
that of garget. Injury may be caused  
to the udders of cows by using harsh  
medicines of home manufacture which  
are irritating to the glands and pro-  
duce conditions which can not be reme-  
died by the most skilled veterinarian.

D. M. WILSON,  
State Dairy commissioner.

### True Type of the Holstein.

EDITOR KANSAS FARMER:—Consider-  
able public comment appearing in the  
agricultural papers upon the type of  
Holstein-Friesian cattle is very prop-  
erly directing attention to the subject  
of the true type of the breed.

The breeder, who, for one moment  
in his pursuit of higher fat percent-  
age in the milk, forgets type, is doing  
incalculable damage to the future of  
the breed.

The true type of the breed is very  
accurately delineated in the scale of  
points. It is to be regretted that il-  
lustrations of typical specimens are  
not used to illustrate and emphasize  
this description.

Change of environment of this breed  
from the low lands of Holland is  
doubtless effecting a very slight  
change in the bony structure of the  
Holstein, tending toward a greater fin-

terwards mix the skim-milk and cream before bottling it. The milk is not only aerated, but many of the impurities are removed, thus making it sweeter and giving it better keeping qualities.

**SIZE OF SEPARATOR TO BUY.**

Hand separators may be procured in sizes varying in capacity from 150 pounds of milk (18 gallons) an hour to 1,200 pounds (144 gallons) an hour. The prices vary from about \$40 for the smaller size to \$175 for the larger size.

The capacity of the machine per hour should not be less than 50 pounds for each cow milked. A 10-cow herd would then require a 500-pound capacity separator, and an 18-cow herd, a 900-pound capacity.

**MAKE OF SEPARATORS TO BUY.**

There are many makes of good separators now found on the market which are sold as cheaply as many of the poorer ones:

1. Buy a standard machine—one that has a good recommendation and is known to be durable and reliable.

2. Don't buy the average "catalogue house" machines. They often do good work, but as a rule do not last long enough. Many of them are cheap in construction as well as in price.

3. Buy a well known machine—one that is guaranteed in construction, material, and clean skimming.

4. Secure the machine from a "near by" reliable agency.

H. M. BAINER,

Professor of Farm Mechanics, Colorado Agricultural College, Fort Collins.

**Experience in the Dairy Industry.**

A writer in the Prairie Farmer who should have signed his name gives the following interesting and valuable account of his experience in building up his dairy business:

"I have always been what is called a practical dairy farmer. As far back as forty years ago we used to milk cows and derive more or less benefit from them, usually less than more, for with butter at 6 to 10 cents it was not a very paying business, and at that time we did not care so much whether a cow gave a large amount of milk which was thin, or a similar amount containing more butter-fat; in the end it amounted to the same thing anyway.

"But very soon cheese factories sprang up about us, milk became of some value, it was something that was marketable, although far from the point that it is now, but when we commenced to realize \$250 to \$300 annually from our dairy, from which we derived hardly \$100 before. We thought we had struck a bonanza, and, as is generally the case, decided to make the most of it.

**DIFFERENCE IN COWS.**

"The question became a vital one. We commenced to figure that a cow yielding four to six gallons of milk a day was a more valuable animal than one that only yielded a gallon or two, and such were relegated to the rear and reserved for beef, and from the mother cow that was a good milk-er we would save all the calves we could, while the others died untried.

"More and more the dairy continued to give the farmer good returns. More cows were kept, larger compost heaps were accumulated to be hauled out and spread on the land, to return it to some of that which was taken from it, and very soon we began to realize that the dairy business not only gave us larger returns in dollars and cents every year, but our land became more productive and hence more valuable as the years rolled by, so that our hard, hilly farms became as valuable as our bottom lands.

**SUPPLEMENTING THE PASTURES.**

"Now, the question came very naturally, how to keep and increase this business, which we found to be so profitable. Sixty and sixty-five cents per 100 pounds of milk worked wonders with us, and we strove hard to increase the product of our cows, and also were able because of the better condition of our land, to increase the size of our herd.

"We commenced to study how best to keep our pastures in such shape that our cows could have fresh grass during the season as long as possible, and when the frost put an end to that we helped out nature with what she had generously provided us, and late planted corn fodder, either green or already in shocks, was fed to our cows to keep up the flow of milk.

**LENGTHENING THE SEASON.**

"In those days about six months was the cheese factory season, commencing with the first of May, seldom earlier, and lasting until November, and if the weather was favorable, we would continue for a while until the flow of milk was so much reduced that the delivery did not pay any more.

"Not so much attention was paid to hay and other feed, as we do now, for I deliver my milk to the condensing factory, and as the factory pays the highest prices in winter it is to our best interest to keep up the flow of milk during that time, as well as in summer, and as pasture is wanting, and the cows have to be stall and barn fed, other conditions have to be met, and we have to see to it that something else is added to the dry hay to increase the flow of milk.

"Of course, I am very careful in the selection of my hay for the milch cows, as I have a large amount of hay cut. The first cut is very young and tender, and when well dried and cured is an excellent feed for milch cows. Then, again, the second crop, if taken before the frost strikes it, is the finest thing that can be had in the shape of hay. And that is all set apart in the barn to feed my milch cows.

"If this does not suffice, or if we do not have enough of that kind of hay, we feed a little grain, oats, and corn, ground, or bran mash, and find that it pays very well. In the summer time we are as careful as ever to change our pastures as often as possible, never letting the grass grow too long and rank in any one, before we drive our herd into it, for when cattle have eaten over a pasture for a few days, as cattle will roam over the entire area at once, it is better to have smaller and more pastures, and the oftener it is changed the better it is for the flow of milk, for the pastures and the cattle.

**WATER AND HEAT.**

"One great consideration is very often lost sight of by the farmers—cows should have free access to fresh, clean, pure water, neither too cold nor too warm. Stagnant pools, where the water in the hot sun gets warm and forms green scum and turns black from stagnation, are to be avoided. Not only does it injure the natural flow of milk, but it injures the milk and also the cow, and more milk and cows are spoiled and ruined through scanty or poor water than through poor feeding and lean pastures.

"Another great consideration is to keep the cows warm, but not too warm, with plenty of healthy, good air. A cow which is compelled to breathe the cold, chilly, untempered north wind, or the foul air of an unventilated warm barn, can not thrive, nor can she give her natural quota of pure, healthy milk.

**MATTER OF BREED.**

"As far as the kind of cow is concerned, some of our dairy farmers think that the Holstein-Friesian is the best, and others prefer the Jersey, the Ayrshire, and some the Brown Swiss.

"Now, my herd being so large, I can not give my especial attention to each cow, and have to depend a great deal on my employes, but still, from time to time, I make a personal inspection of each animal to see to it that they are properly cared for, and, above all properly milked, for this is a source of great evil. Hasty and not sufficiently thorough milking has spoiled many a good cow, and eventually many a batch of otherwise good milk, for if a cow is not milked clean, that is, the udder and teats are not entirely evacuated, the milk remaining can never be brought out again, and the



**FARMERS—READ THIS**

If there is any owner of cows who wants to make \$1.50 a month more on every cow, or who would like valuable information HOW TO GET A SEPARATOR, write and ask us for our Separator Offer No. 100. We have an offer on the Economy Chief, \$28.80 and up, the closest skimmer and best separator in the world, whereby any farmer can use one a long time on trial. The safest, surest, fairest, most liberal, positively the most remarkable separator offer ever made. Write now for Separator Offer No. 100. It's important; something you ought to know about! Address, SEARS, ROEBUCK & CO., CHICAGO, ILL.

flow will become less and less with the same process of milking.

**AN UNRECKONED LOSS.**

"There is no question about using care and judgment in the selection of a proper breeding animal. Where farmers are situated as I am, that is are patrons of the condensing plant, where milk is needed all the year through, and not only through the summer months, it becomes necessary that cows should come in all through the year, and great care has to be exercised in that particular.

"There are a number of dairy farmers, patrons of the condensing factory, who simply turn off a cow for which they have paid from \$50 to \$60, when she begins to run behind in her flow of milk, for \$30 or \$35, as the case may be, and buy another fresh cow at the former figures. It is easy to conceive that a loss occurs, and I believe this loss is not accounted for in the cow census when they show what their income is from twenty-five or thirty cows.

**RAISES HIS OWN COWS.**

"But every one to his own notion. I would rather raise my own cows, and then I know what I have, than go and buy at every farm and cow sale. Some may see profit in it. I do not. All I can say is that by proper care and judgment as I possess I have made a fair success of the dairy business, and although I bought my land at a high price at the time I bought it it was a paying investment, and I could double the price on it, but I do not care to do so at present. These conditions were all brought on by the dairy industry and due attention to the same."

**A Remarkable Shoe for Working Men.**

There has been recently invented an uncommon shoe which embodies the first and only device that has been successfully employed to add strength and durability to shoes and boots worn by workmen engaged in heavy and rough occupation. This is the Steel shoe, which is precisely what its name indicates and which is manufactured by the Steel Shoe Company, Racine, Wis. The cut herewith gives a very good illustration of the appearance of the shoe. The sole and an inch above the sole all around the shoe where all the heavy and rough wear comes is made of pressed steel, studded with steel rivets. The uppers are made of good, durable, and substantial leather. The inner sole is a fine horsehair cushion, af-

fording a comfortable resting place for the foot. The workmanship and the material throughout are the best that can be had and are a great deal better than those found in ordinary shoes sold at the same price. While the Steel shoe costs no more than the ordinary shoe it will outwear at least four times of them. It is guaranteed to stand one year's wear of the very hardest kind. This means that the workman can buy a pair of shoes for his rough work which are absolutely guaranteed to last one year for \$2.50 instead of spending ten to twelve dollars a year for ordinary shoes as heretofore. In addition to keeping the feet dry and comfortable the Steel shoe affords protection against accidents, as it can not be penetrated by protruding nails, sharp rocks, or sandburrs. This shoe does not warp or twist in shape in wet or snowy weather and is easily taken off or put on after a trip in the mud. It keeps the feet dry and warm through all circumstances and is a great boon to people with tender feet. The man who works in a damp factory or in wet fields will find it invaluable as a protection against rheumatism, neuralgia, sore throat, pneumonia, and other diseases which are likely to follow the exposure to wet and cold. Notice their advertisement on another page and write for full information if not satisfied.

**When the Horse Goes Lame.**

A lame horse is not necessarily cause for anxiety. More frequently than otherwise the cause is trivial. When you locate the ailment the chances are that with a first class liniment, such as Kendall's Spavin Cure, you will be able speedily to effect a cure. Usually prompt treatment is desirable.

The most ailments of horses are such as wire cuts, sprains, swellings, curbs, spavins, splints, ringbones. With all of these prompt application of the remedy named above is certain to prove efficacious. A ringbone or spavin if allowed to run too long is fast becoming hopeless. And if it can not be cured, the value of the horse is gone. He has almost no value on the market. But a ringbone or spavin at its first appearance or earlier stages will yield readily to the Kendall Spavin Cure. And so with practically all the other common ailments. Notwithstanding the severe and obstinate nature of bony enlargements, Kendall's Spavin Cure has been known to effect a complete cure in a great many cases of long standing.

The Kendall Spavin Cure is undoubtedly one of the most valuable, if not the most valuable, home remedy ever compounded. It is in use practically all over the world. It was first compounded and used something over thirty years ago by Dr. B. J. Kendall at Enosburg Falls, Vt. The remedy is still manufactured at that point by a company bearing Dr. Kendall's name, and from there it goes out to cure the ills of horses all over the world. It is to be found in practically all drug stores, but in cases where it is not, application should be made direct to the manufacturers. Being a standard remedy for so many ailments, it should be kept constantly on hand. That is the policy of all large stables and it is to be found in use by hundreds of thousands of small horsemen who all testify to its efficiency.



**Colonist Rates California, Arizona, etc.**

Daily to October 31, 1908

**\$30 from all points in Kansas**

Cheap enough, isn't it? And good enough, too. You go through the Southwest Land of Opportunity where newly developed farm lands and bustling cities offer unusual chances for success to the energetic business man—merchant, artisan or farmer.

Visit the San Joaquin Valley, in California, buy a farm, cultivate it, and get a competence. Others are doing it, why not you?

Personally conducted excursions tri-weekly—block signal, safeguards—no dust—Fred Harvey meals.

Ask for our land folders and free copy of "The Earth."

**J. M. Connell, General Passenger Agent**

Topeka, Kansas.

**HOW TO BUY A HOME KIT.**

**Home Tools Too Often Bought for Present Needs.**

Why are the tools in the home out-  
nit so often unsatisfactory? There are  
two reasons.

One reason is that the tools are  
bought one at a time—whenever cer-  
tain work requires them. They are  
purchased in a hurry without regard to  
quality or make—anything that will  
answer the purpose for that particular  
job. Another reason is that the ordi-  
nary home tools are not properly cared  
for. Nothing will spoil good tools  
more quickly than contact with each  
other. If they are thrown together in  
a box or drawer they will become  
nicked and battered and lose their ad-  
justments in a very short time.

To simplify the buying of tools—to  
make the purchase of satisfactory tools  
a certainty—and to provide a proper  
place to keep them, the Keen Kutter  
Tool Cabinets were designed in styles,  
sizes, and assortments of tools to suit  
all requirements. Every tool in these  
cabinets belongs to the famous Keen  
Kutter brand, known for nearly forty  
years as the standard tools of America.  
Tools that are backed by the guaran-  
tee of the makers.

Keen Kutter Tool Cabinets are the  
only ones made containing a complete  
set of guaranteed tools, all under the  
same name and trademark. You are  
sure that an expert tool buyer could  
not collect a better set piece by piece,  
and you run no risk, because if any  
tool should prove unsatisfactory, it will  
be replaced or your money refunded.

Keen Kutter Tool Cabinets are oak  
cases, nicely finished and polished.  
They are fitted with racks and hooks  
for the tools, so that each has a place  
of its own where it can not come in  
contact with the others. The drawers  
contain helps and necessities that are  
apt to be overlooked until the occasion  
for their use arises—sandpaper, glue,  
nails, screws, tacks, wire, clamps, oil  
and oil-can oilstone, etc.

Keen Kutter Tool Cabinets come in  
different sizes at prices from \$8.50 to  
\$85, according to the assortment of  
tools. The smallest contains just the  
tools that are absolutely indispensable  
and the largest a complete set, suf-  
ficient for any kind of work. If not at  
your dealer's, write to Simmons Hard-  
ware Company, Inc., St. Louis and New  
York, U. S. A.

**HOW THE FARMER CAN SAVE MONEY.**

**A Valuable Booklet Published in the  
Interest of Farmers and Sent Free  
to Those Who Write for a Copy.**

Every farmer is interested in this  
subject. And it is right that he should  
be. But, as in all walks of life, a good  
many of them lack initiative—are satis-  
fied to follow in the footsteps of their  
predecessors. Those who are up to



date, who are always on the lookout  
for opportunities to increase their prof-  
its, have realized for some time now  
that the old wooden-wheeled farm  
wagon is a thing of the past, and that  
the low-down steel-wheel wagon is the  
only kind that will save money and  
horse flesh.

So that every farmer who reads this  
paper will readily understand how  
much labor and money can be saved by  
the use of low-down wagons with wide  
steel tires, and how little these im-  
provements cost. The Empire Mfg.  
Company, Box 136 A. I., Quincy, Ill.,  
have issued a little book, giving some  
astonishing facts of the greatest value  
to every one who uses a wagon or  
needs a wagon.

This book shows conclusively that  
the Farmers' Handy Wagon, with low  
steel wheels and wide tires, is the best  
wagon built for every kind of heavy  
teaming, and that it will last a life-  
time without repairs.

For the benefit of farmers whose  
wagons are in good, serviceable condi-  
tion, with the exception of wooden  
wheels, this company make  
and supply a line of steel  
wheels differing in height,  
width of tire and size of  
axle. Thus any wagon  
whose wheels are worn can  
be made better than new at  
very little cost.

The Empire Mfg. Com-  
pany will gladly send you one of their  
books. Write to-day. It will be worth  
your while.

**Armour's Meat-Meal.**

One of the best illustrations of the  
value of feeding protein in some con-  
centrated form which is at the same  
time palatable is shown by the experi-  
ence of L. H. McEntire, of Centralia,  
Kans., who began using the Armour  
Meat-Meal with a bunch of thirty-one  
very unthrifty shoats. After he had fed  
87 bushels of corn and 500 pounds of  
meat-meal, he found that his corn had  
brought him 63 cents per bushel, which  
was about 33-1-3 per cent above the  
market price at that time. O. C. Gor-  
don, of Eudora, fed Armour Meat-Meal  
to his hogs and found that their gain  
in weight cost him 2.2 cents per pound,  
while W. H. Gill, of St. Marys, Kans.,  
made heavy gains at a cost of 2.1 cents  
per pound by the use of meat-meal.

The writer has had no personal ex-  
perience in feeding the meat-meal to  
swine although he comes in contact  
with swine breeders almost every day  
who have used it. He never has heard  
a word of adverse criticism but the  
breeders all give it praise in greater or  
less degree according to the man.

In feeding poultry, however, the writ-  
er has had abundant experience with  
the Armour Meat-Meal and would not  
be without it at any time of year. It  
is almost invaluable at molting time  
and during the winter season. It satis-  
fies the craving for animal food and its  
high percentage of protein results in a

plentiful supply of eggs at a time when  
hens are least likely to lay and when  
the eggs are worth most money. Mr.  
J. O. Benton manager of the Western  
Animal Food Company, Onaga, Kans.,  
will furnish you all the information  
about this remarkable hog and poultry  
food.

**Electric Railroads Need Men for Mo-  
tormen and Conductors.**

There is probably no line of industry  
which has developed to such a great  
extent in a few years as has that of the  
electric railroad. Interurbans are now  
being constructed out of all the prin-  
cipal cities of the country, branch lines  
of steam roads are being electrified,



and it is stated authoritatively that  
within the next ten or fifteen years all  
the steam railroads of the country will  
be operated by electricity.

Employees in the operating depart-  
ments of the electric roads have clean  
and pleasant work and excellent oppor-  
tunity is offered them for promotion.  
These companies are constantly in need  
of new men, some companies employ-  
ing as high as 30 to 50 men weekly and  
a great many employing as many as 15  
to 25 new men weekly.

This creates a great demand for the  
right kind of young men, especially for  
those from the farms and small towns  
this class of applicants being preferred  
by employing officers, because of their  
faithfulness and honesty.

Before applying for a position, how-  
ever, the applicant should be prepared  
to pass the required examination. This  
preparation can be made by corres-  
pondence instruction without any loss  
of time from present duties.

The National Railway Training As-  
sociation prepares applicants for mo-  
tormen and conductors and assists  
them in securing positions. We are  
personally acquainted with the officers  
of this Association and recommend  
them most heartily. You will find an  
advertisement on page 1024.

**PREPARE FOR BIG CROWDS.**

**American Royal Will Break All But  
Fine Weather Records.**

The American Royal Live Stock  
Show, it is already assured, will break  
its records in nearly all the depart-  
ments, by 10 to 15 per cent, and with  
the new departments will have prob-  
ably twice as many animals as have  
been on exhibition at any previous  
Royal. The management of the big  
show expects that another record will  
be broken, too, that of attendance, and  
is preparing for it. The seating ac-  
commodations of the big tent will be  
twice as great this year as last, and  
four times as comfortable. The Royal  
will be held at the Kansas City Stock  
Yards the week of October 12. This  
show has never had bad weather, and  
this is one record which it is hoped  
will not be broken. But even if it  
should rain, the visitors can wander  
through the big show barns without  
discomfort, and all, this year, can find  
seats in the great tent, where the judg-  
ing is done, and where the night shows  
are held.

The show tent of the Royal is 150  
feet wide and 450 feet long. Last year  
it was arranged to seat 3,300 persons;  
this year it will seat 6,600. Last year  
the visitors sat on planks; this year  
every person will have a seat with a  
back, and the person behind can not  
poke him with his foot. Last year  
there were no reserved seats; this year  
there will be 2,000 reserved seats and  
300 box seats, on each side of the arena  
opposite the judging stand, and 3,700  
free seats, all comfortable.

Last year the tent was crowded on  
every night for the parade of prize  
winners and the horse show. This year  
the horse show will be a big event in  
itself, and the attendance is expected  
to be correspondingly large on the four  
nights.

A few entries have been received in  
almost every class for the horse show  
already, and 20 are in for the obstacle  
race for stock yards horses, in which  
the really fine horses used at the yards  
will be put through their paces. Two  
high school horses are entered, and  
four more are in sight.

**The Royal Galloway Sale.**

One of the most attractive offerings  
of Galloways presented to the public in  
recent years will be in evidence at the  
sale to be held in the fine stock pavil-  
ion, Stock Yards, Kansas City, Mo., on  
October 17, during the week of the  
American Royal Live Stock Show. The  
sale is under the auspices of the Amer-  
ican Galloway Breeders' Association,  
and the following well known breeders  
have made liberal consignments from  
the tops of their herds: C. E. Clarke,  
St. Cloud, Minn.; G. W. Lindsey, Red  
Cloud, Neb.; Straub Bros., Avoca, Neb.;  
C. S. Hechtner and Seward Martin,  
Princeton, Ill.; J. H. Hoyt & Son, Dawn,  
Mo.; J. P. Milliken, Media, Ill.; Michi-  
gan Premium Stock Co., Davisburg,  
Mich.; W. M. Brown & Son, Carrollton,  
Mo.

The cattle listed for this sale are a  
choice lot and are the kind that every  
breeder should be glad to have in his  
herd. Scotch and American champions  
are included in the list, and nearly all  
are members of show herds that are on  
the circuit this season. This sale will  
furnish an opportunity to breeders,  
farmers, and ranchmen to obtain ani-  
mals of the choicest breeding and of

**AXLINE'S  
ANNUAL SALE**

**OF  
POLAND-CHINAS**

**AT  
Oak Grove, Mo., Monday, Oct. 12**

**60 head of as grandly bred, and meri-  
torious individuals as will be  
sold this year, 60.**

**"YOU KNOW THE KIND"**

**Consisting of**

**35 GILTS - - - 25 BOARS**

Sired by Meddler 2d 36902, Missouri's Keep On 37430, Stylish Perfection 29205, Imperial Chief 42295, Meddler 2d 11111, T. R.'s Perfection 42383, and Reputation, and out of dams sired by many of the history-making boars.

This is one of the most uniform lot of hogs that I have ever offered at auction. Their breeding is of the best and individuality good enough to elicit the interest of the most critical.

**REMEMBER THE DATE.**

For auctioneers see catalogue. George E. Cole will represent the Kansas Farmer at this sale.

For Catalogue address,

**E. E. AXLINE, Oak Grove, Mo.**

**BAIER'S SALE OF  
Poland=Chinas**

**A High Class Offering from the Well-  
known "Welcome" Herd, at Auction.**

**Elmo, Kans., Tuesday, October 6**

**55--CHOICE ONES--55**

consisting of 35 extra good well grown spring pigs, 15 fall yearling gilts and mature sows and 9 tippy fall boars fit to head good herds.

There will be 12 by Ironclad, 7 by Meddler 2d, 6 by S. P. Perfection, 3 by Masticator, 2 by Impudence, and 15 by Tom Lipton. In the boar division there will be 1 by Ironclad, 1 by Meddler 2d, 3 by Masticator, out of a Corrector 2d dam, 3 by Tom Lipton, out of a Mischief Maker dam, 1 by Tom Lipton out of a Chief Perfection 2d dam. These are herd header material.



Sale will be held at farm 11 miles south of Abilene and 5 miles north of Elmo. There will be teams to take buyers to the farm.

Offering will be well fitted and in the pink of condition. Don't miss this opportunity to buy choice breeding stuff at your own price.

Send bids to L. K. Lewis, of the Kansas Farmer in my care. For information and catalogues address

**JOS. M. BAIER, .: Elmo, Kans.**

**Auctioneers—Burger and Curphey.**

ages best suited to their individual needs. Write R. W. Brown, secretary, 17 Exchange Ave., Chicago, Ill., for catalogues.

**GUARANTEED TOOLS.**

**The Kind You Can Buy and Have Every Confidence In.**

It may sound rather odd to the average man who uses tools to tell him that it is just as easy to select a perfect tool as one of inferior grade. But such is the case if you ask for "Keen Kutter" tools, which have for nearly forty years been famous everywhere for their quality and durability. To purchase "Keen Kutter" goods is to be absolutely certain that you are getting the best that money can buy. Besides, you are getting tools that are guaranteed—every one of them—and if they are not all that they are represented to be you can have your money back or a new tool.

Such a guarantee as the makers, the Simmons Hardware Company, of St. Louis, put behind every "Keen Kutter" tool, has created a steadily increasing demand until at the present time this company turns out an enormous amount of tools every year for the farm, for the shop, for the home. In fact, the Simmons Hardware Company gives every tool manufactured the severest kind of test so that when it reaches the purchaser it is ready for service, whether it be a gimlet, a hammer, a razor, or a lawn mower.

Every edge tool with the "Keen Kutter" stamp has been finally sharpened and you do not have to work up the edge yourself. You will note that ordinary tools you buy have to be sharpened after they are bought. Many factories will not risk the final test, because under this strain hundreds of tools would be put out of business, flaws appearing in the most unexpected places or an edge failing to hold because of improperly tempered metal.

"Keen Kutter" tools are sharpened and tested so that for the final inspection they are perfect. Then they are hand-whetted, thus giving an edge that will stand for a long time against the severest work for which the tool is built. Because these tools are so good and because they are given so much more attention, the price is possibly slightly higher than some tools. But any man who has once used "Keen Kutter" tools will well appreciate that the extra cost is not only a saving, but that the service given is much superior and there is never any question of "dependability," no matter how fine or how trying the work.

All details of the making of "Keen Kutter" tools are quite as perfect as the sharpening process. Great attention is paid to the "hang" and balance. Quality is the watchword in every department of the great factories. No tool is too small or too unimportant to be slighted. To bear the famous "Keen Kutter" trade mark it must be of the very highest class, because if it is not right it will be returned. And the guarantee says that it will be exchanged for cash or for a new tool!

That guarantee tells a great, big story, doesn't it?

If your dealer does not have the tools you want, write to the Simmons Hardware Company (Inc.), either St. Louis or New York. They'll put you on the right track.

**Forty-Nine Head on Fifty-Six Acres.**

I now maintain a herd of forty-three pure-bred Holstein cattle and six horses on 56 acres, and purchase not one dollar's worth of feed except a small amount of balanced rations used to feed some of the cows while being officially tested for milk and butter-fat. Next

year I propose to increase my herd to 50, and expect to raise plenty to feed all. The only products sold from the farm are milk, stock, and potatoes; of the latter I have usually from 300 to 500 bushels to sell, and I have sold \$2,300 worth of pure-bred stock since October 1, 1907. My milk brings me about \$100 per month, besides feeding whole milk to every calf born for at least six months. Of course this system of farming eliminates all pasturage and requires two, and sometimes three crops from the same land each season. The alfalfa, of course, produces three crops, and we generally manage to get two and sometimes three crops for soiling purposes. All animals are fed in the stable every day, with outdoor exercise every day, and all manure is drawn and spread upon the land every day, and it may readily be imagined that the land is rapidly increasing in fertility.—John McLennan, in Rural New Yorker.

**Build a Business for Yourself.**



One of the most profitable and pleasant of modern businesses is the buying and selling of real estate. This business has grown to enormous proportions and to-day it offers the ambitious man, especially if he is without capital, splendid opportunities for money making. The man who desires to enter the business will be especially interested in the work of the Gray Realty Company, of Kansas City, Mo., a concern which offers cooperation and money-making propositions to every reputable man who desires it. The Gray Realty Company gives a special course of correspondence instruction in the real estate work to its representatives, enabling them to do successful work without previous experience. The company is handling a number of splendid real estate propositions, and if you want to go into the business for yourself, it will pay you to write them. Address, Gray Realty Company, 628 Century Building, Kansas City, Mo.

The Western Galloway Breeders' Association. G. E. Clark, owner of the Capital View Galloways, issues the following call: "Since the matter of organizing a Western Galloway Breeders' Association has been mentioned to the breeders of the West, I have received encouragement from large numbers in each State, and nearly all seem to think we should hold our first meeting at Kansas City, and as soon as possible, so it has been decided that we hold it in assembly room of Live Stock Exchange Building at Stock Yards, Kansas City, Mo., Tuesday, October 13, 1908, at 8 p. m.

**The Western Galloway Breeders' Association.**

You are earnestly requested to be present, as many interesting subjects will be brought up, and we want to get thoroughly organized that night. Every breeder of Galloway cattle west of the Mississippi River should be there."

As a countenance is made beautiful by the soul shining through it, so the world is beautiful by the shining through it of a God. When writing our advertisers please mention this paper.

# AMERICAN ROYAL LIVE STOCK SHOW

## Kansas City Stock Yards, Oct. 12-17, '08

Annual show of National pure-bred Beef Cattle, Draft and Coach Horse, Mule, Swine, Sheep, and Angora Goat Associations.

### America's Greatest Live Stock Exhibition

Departments for range-bred cattle and sheep, and for poultry, added this year. Light harness horse show, with 4 and 6 horse hitches, ponies and draft horses, fills four night programs. Music and many special features.

**Public Sales** of Beef Cattle, Swine, Sheep, Goats, Range Cattle and Sheep in car lots, are important features of the American Royal.

**Herefords-Oct. 13. Galloways-Oct. 14.**  
**Angus-Oct. 15. Shorthorns-Oct. 16.**

**A. M. THOMPSON, -- Secretary**  
Live Stock Exchange, Kansas City, Mo.

# GRAND PUBLIC SALE

—TO BE HELD AT—

## Tonganoxie, Kans., October 14, 1908

40 head Poland-China hogs of the most noted breeding. Spring boars and gilts. Send for catalogue.

**G. W. ALLEN, R. 4, Tonganoxie, Kansas**

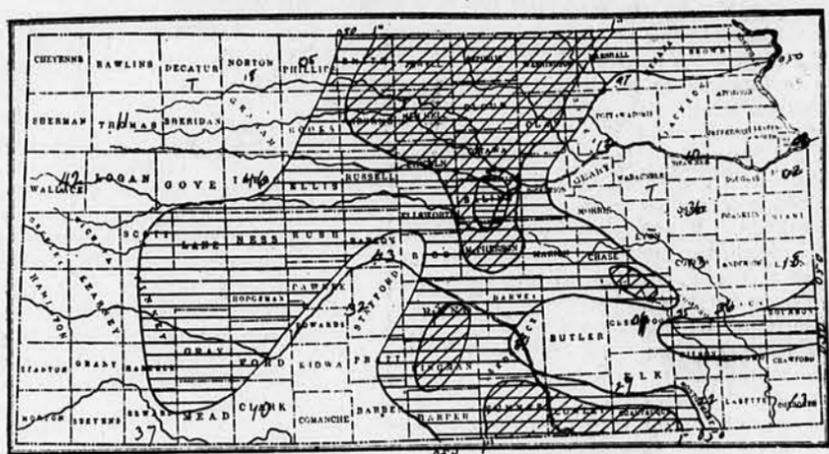
## Weather Bulletin

Following is the weekly weather bulletin of the Kansas Weather Service for the week ending Sep. 29, 1908, prepared by T. B. Jennings, Station Director.

DATA FOR THE WEEK.

	Temperature.			Precipitation.		Total since March 1.	Per cent of sunshine.
	Maximum.	Minimum.	Mean.	Departure from normal.	Total.		
<b>EASTERN DIVISION.</b>							
Baker.	91	55	74	0.70	34.86	..	..
Burlington.	92	53	71	0.13	28.94	64	..
Columbus.	89	60	74	0.13	..	36	..
Cottonwood Falls.	90	49	70	0.78	34.70	34	..
Emporia.	87	55	72	T	28.50	..	..
Eskridge.	87	58	72	T	31.83	57	..
Eureka.	..	..	..	0.06	30.56	..	..
Fall River.	87	54	70	0.52	29.59	64	..
Fort Scott.	92	57	73	0.97	30.58	81	..
Frankfort.	93	49	72	0.47	44.51	59	..
Fredonia.	86	60	72	0.52	..	50	..
Grenola.	86	50	70	0.29	34.93	36	..
Horton.	91	55	73	0.40	32.60	38	..
Independence.	90	62	74	0.22	33.51	38	..
Iola.	89	47	72	+5	0.36	28.19	42
Kansas City.	88	56	74	+9	1.20	25.00	72
Madison.	90	51	74	0.12	39.77	..	..
Manhattan.	91	56	74	0.02	29.97	50	..
Olathe.	88	53	72	0.36	37.11	..	..
Osage City.	90	50	72	T	..	64	..
Ottawa.	88	59	74	0.18	32.43	43	..
Pleasanton.	86	59	72	1.08	32.89	67	..
Sedan.	88	50	72	+6	0.10	33.52	75
Topeka.	92	55	74	0.35	28.08	76	..
Toronto.	87	57	74	0	35.84	82	..
Valley Falls.	87	57	74	0.36	37.42	59	..
Division.	93	47	72	..	..	..	..
<b>MIDDLE DIVISION.</b>							
Alton.	93	63	75	0.23	..	82	..
Anthony.	90	60	73	0.58	24.73	..	..
Chapman.	93	50	73	0.38	31.18	61	..
Clay Center.	94	47	72	1.26	32.13	..	..
Concordia.	89	47	70	+5	1.76	38.40	34
Ellinwood.	92	54	72	0.43	28.52	59	..
Ellsworth.	94	46	70	0.60	20.30	..	..
Hanover.	93	48	72	1.33	36.23	43	..
Harrison.	91	51	72	T	24.86	87	..
Hays.	90	40	70	0.54	20.85	71	..
Hutchinson.	91	56	72	0.97	26.70	57	..

RAINFALL FOR WEEK ENDING SEPTEMBER 26, 1908.



SCALE IN INCHES.

County	Max.	Min.	Mean.	Total	Per cent of sunshine		
<b>EASTERN DIVISION.</b>							
Jewell.	92	50	70	0	26.37	82	
Kingman.	86	49	71	1.73	23.94	60	
Lebanon.	86	44	73	1.29	23.83	71	
Macksville.	87	51	71	0.32	25.66	..	
McPherson.	90	57	74	1.13	28.78	29	
Marion.	83	48	..	0.66	25.63	42	
Minneapolis.	91	48	71	1.41	28.95	39	
Norwich.	89	50	72	0.68	23.47	40	
Phillipsburg.	97	53	75	0.05	19.40	83	
Rome.	90	59	..	1.30	30.10	..	
Salina.	96	49	70	2.11	25.86	..	
Wellington.	..	..	..	1.16	27.90	..	
Wichita.	87	49	70	+3	30.35	36	
Division.	97	40	72	0.86	26.61	59	
<b>WESTERN DIVISION.</b>							
Ashland.	95	50	73	0.10	12.76	83	
Colby.	91	42	70	0.11	11.48	71	
Coolidge.	93	41	71	0	7.51	100	
Dodge City.	89	44	69	+4	0.61	15.43	76
Dresden.	91	49	72	T	15.47	71	
Farnsworth.	92	45	71	0	16.14	82	
Hoxie.	92	45	70	0.37	9.77	78	
Liberal.	93	45	74	0.18	24.98	80	
Norton.	93	45	70	0.57	13.04	71	
Scott.	89	41	71	0.46	15.76	..	
Wakeeney.	92	41	71	0.42	10.86	64	
Wallace.	93	40	71	0.24	14.00	79	
Division.	95	40	71	0.24	14.00	79	
State.	97	40	72	0.53	26.01	64	

DATA FOR STATE BY WEEKS.

Week	Max.	Min.	Mean.	Total	Per cent of sunshine	
April 13.	89	19	55	0.91	..	54
April 20.	92	30	60	0.79	..	53
April 27.	92	37	65	0.46	..	60
May 2.	78	15	49	0.08	..	62
May 9.	88	29	52	1.32	..	47
May 16.	95	37	67	1.12	..	67
May 23.	102	33	68	1.74	..	66
May 30.	97	40	69	1.33	..	64
June 6.	100	41	71	2.83	..	49
June 13.	93	43	70	2.97	..	53
June 20.	100	44	70	1.04	..	59
June 27.	110	46	76	0.28	..	83
July 4.	101	44	70	2.67	..	58
July 11.	107	43	74	0.45	..	83
July 18.	102	52	78	0.78	..	75
July 25.	103	50	75	1.06	..	64
August 1.	98	48	79	0.45	..	75
August 8.	103	51	79	1.21	..	85
August 15.	108	45	77	0.56	..	75
August 22.	103	43	75	1.07	..	64
August 29.	101	51	74	1.08	..	69
September 5.	105	39	73	0.77	..	75
September 12.	110	43	76	T	..	98
September 19.	96	49	74	0.38	..	73
September 26.	97	40	72	0.53	..	64

†Week ends Friday.  
\*Received too late to use in means.

## The Poultry Yard

CONDUCTED BY THOMAS OWEN.

### Poultry Notes.

From the horse-racing end of the fair, we sometimes hear the following inquiry: "Of what benefit is the poultry department in the State Fair?" The object is twofold; first, to encourage the farmers to breed a better quality of poultry, in the shape of pure-breds, and secondly to increase the gate money. That it does this, there is no doubt, for it takes more than one thing to make a fair, and people come there on purpose to see the chickens. So do people come on purpose to see the agricultural and horticultural displays, and the swine display, and the cattle display; and after seeing their special attraction they then go around and look at the other exhibitions. Hence as we said before, it takes more than one thing to make the fair, and the success of it should be apportioned collectively to the different attractions and not be monopolized by one.

That the after effects of a fair are abiding, can be noticed at this time by the many calls the writer receives as to the best place to procure different breeds of fowls. We have answered these letters to the best of our ability, by giving the names and addresses of poultrymen who bred the variety called for and whom we considered to be reliable and honest breeders. In this connection we wish to say a word to the poultry breeder who may receive inquiries as to the quality and prices of his fowls, premising that we act on the same principle ourselves.

When trying to sell fowls to a customer, be conservative in your description of the same. Give as good a description as you can, but be truthful about it and avoid exaggeration. State the case a little short of the full truth as to real quality and value of the birds rather than be found in the least degree over-estimating any of the details. This is particularly important when the purchaser, being at a long distance from his would-be-purchase, can not see the kind of investment he has made until the money has been paid and the birds have arrived. The buyer feels a great deal better to find the stock "better than he expected," rather than the reverse. Thousands upon thousands of disappointments have occurred in the sales of pure-bred poultry, simply because the seller has overdone the praising of his fowls, whereas if he had been conservative in his descriptions, there would have been no trouble, even with the same lot of birds. It would seem that the matter of policy alone ought to be enough to dissuade poultrymen from adopting or continuing to follow such unbusinesslike methods. A business, to make a steady growth, to make one sale of goods bring a second, to make an enterprise that pays better and better as years elapse, must be managed upon a basis of conservatism and truth.

In preparing for the comfort of your fowls in winter, don't forget to provide the means for their dust bath. In summer time the fowl can often provide its own bath by wallowing in the dust of the yard, but in winter time, when obliged to be in their houses, they are compelled to depend on their caretaker for the means wherewith to cleanse themselves. The natural way by which fowls cleanse their bodies and keep free from lice and mites is by means of dust baths. In providing these baths, it is well to bear in mind the specific points which prompt their use. While exercise is an important thing provided by the baths, the main good they do is to relieve the birds from lice, which would otherwise make their lives miserable. The birds roll and scratch their feathers until the fine dust is thoroughly worked through their plumage and down to the skin. The lice breathe through

the pores of their bodies and the fine particles of dust close these up and the vermin die. It will be seen, therefore, that the dust bath must be composed of very fine dust to be effective. The finer it is the better the fowls will like it and the more good it will do them. Some people mix fine screened coal or wood ashes with road dust and think that the combination is better than either one alone. Again, others object to the road dust, saying it is filthy. If you can get fresh earth and let it dry and sift it thoroughly, it will be found to be one of the best deodorizers and cleansers that can be found for the fowls. If a little tobacco dust is mixed with the wallowing material, it will be all the better. Provide plenty of dust-bath material before winter sets in, for when it is wet weather or there is snow on the ground it will be impossible to get it.

### Deformed Chickens.

Last winter I procured one dozen chickens, which were purported to be pure-bred Rhode Island Reds. We raised about 150 chickens from the above flock and eight or ten are deformed in some way, for instance, some have crooked backs, two have crooked beaks, that is, the upper part of the bill turns to the left or right so it is almost impossible for the chicken to pick up anything small; one can not easily control his motor power. They have plenty of range and good feed. I have pronounced them a flock of inbred chickens. Am I right? W. H. Fox, Clark County.

The descriptions which you give concerning the deformity of a few of your birds is in no way unusual. You will find that in breeding any live stock, a certain per cent are found to be culls; thus, you will see that 7 per cent of deformed chickens in a flock is sometimes to be expected.

I have found in my experience, that crooked backs and beaks come very frequently, and I do not consider them the result of inbreeding. It is believed that tendencies toward crooked backs may be inherited from the parents whose backs are ill-shaped.

Young chicks with these deformities should be killed when first noticed, or may be raised to be used for the market, but they do not make good breeders and should not be left upon the place.

If your stock was inbred, the results which you would get would probably be lack of vitality, leg weakness, spindly appearance, and sunken eyes. So I do not feel that you need necessarily think that your deformed chickens are the result of inbred parents.

A. G. PHILIPS,  
Assist. in Poultry Husbandry, Kansas State Agricultural College.

### Kansas and Her Poultry.

FROM THE INTRODUCTION TO "PROFITABLE POULTRY," BY SECRETARY F. D. COBURN.

From its nature the poultry industry will find its greatest scope in the areas presenting the most favorable conditions, and none has natural advantages superior to those of Kansas. Here the grains and other desirable foods, including alfalfa, are abundantly and economically raised; mild winters and early hatching seasons greatly lessen the cost of rearing and housing, and her excellent transportation facilities render the Sunflower State especially adapted for poultry's profitable production on an unlimited scale. That these advantages are coming to be appreciated and appropriated more and more is apparent, and her poultry is annually increasing its substantial contributions to the State's wealth. Aside from the producing stock kept over, and the poultry and eggs used in the homes, the value of the surplus of these commodities marketed in Kansas amounts to millions of dollars each year. In 1907 it was worth \$10,300,082. Omitting wheat, corn, and hay, no crop of the State would reach more than about half that figure.

As indicating the increased and increasing importance of the industry in Kansas the following table is suggestive, showing the value of the poultry

and eggs sold in the State for each of the five years ending with 1907:

Year.	Value.
1903.	\$6,498,856
1904.	7,551,871
1905.	8,541,153
1906.	9,085,896
1907.	10,300,082

Twenty years ago their value was \$1,757,508, or about 17 per cent of that of 1907, and ten years ago \$3,850,997, or 37 per cent of last year's return.

According to the latest federal census, it took the aggregated value of the poultry of Oregon, Vermont, North Dakota, New Hampshire, Florida, Colorado, Delaware, Rhode Island, and nine additional States and Territories to approximate the worth of the Kansas fowls. California and Wisconsin together failed to equal Kansas in this respect; and while, owing to lack of comparative statistics for recent years, it can not be said definitely that Kansas leads, yet if the value of any State's fowls surpasses that of Kansas to-day the fact remains that Providence endowed none with superior advantages for poultry-culture.

In 1889 the Washington authorities ranked Kansas fifth in the yield of eggs, with over seventy-three million dozens, worth \$7,237,111, and the value of poultry raised that year was placed at \$6,491,183. This does not include the stock held over from the preceding year, but the two items alone make a total of \$13,728,294. The records of the State Board of Agriculture disclose that the surplus poultry and eggs sold that year brought \$4,241,869, which suggests something of the value of these products consumed or used by the growers, amounting that year to \$9,486,425, or about 70 per cent of the total. On this basis the aggregate value of poultry and eggs produced in Kansas in 1907 would amount to over \$34,000,000. The annual value of these products marketed in Kansas has more than doubled in the past eight years. Even a better comprehension of their importance may be had from the statement that the income from these in 1906 was sufficient to have paid 93 per cent of the State, county, and city taxes for that year, while a trio of Kansas counties sold enough to more than wipe out the State debt.

### They Look Not to Fine Birds, But to Money-Makers.

You've heard of the signs of the times? Well, here's one of them, the inclusion of poultry in the American Royal Live Stock Show. Mr. Coburn of Kansas, Mr. Ellis of Missouri, Mr. Wilson of Washington, respectively secretaries of their departments of agriculture, are monthly growing more and more enthusiastic over the money the farmers' wives make out of the poultry. The farmers themselves have become aware of it. The women folks have of course recognized the value of highly bred poultry, whatever the kind they raise, and it is natural that the farmers interested in pure-bred live stock should acquiesce in the breeding up of the poultry yard. But the farmer looks at poultry from a slightly different viewpoint than the city man who takes pride in his fine birds. The farmer wants chickens which will lay plenty of eggs, or which will both lay eggs and dress out well. This distinction represents the difference between the poultry show at the American Royal and most other poultry shows. The usual poultry exhibition offers prizes for individual birds and for pens; the fowls are graded according to the standard, and the awards are made on the basis of the grades. At the Royal, however, the fowls will be shown as pens only, a male and four females constituting a pen, and awards will be made according to the general excellence of the pens, as compared with other pens of the same breeds shown. The points used in comparison of the pens by the judges will be according to the New Standard of Perfection. The result, therefore, will be the awarding of the prizes to the fowls which would make the best foundation stock for a profitable poultry yard, and that's the object which the farmer and his wife are after.

The poultry will be shown in pens furnished by the show association, free, and in conditions as closely ap-

## POULTRY BREEDERS

### Plymouth Rocks

FOR SALE—18 varieties thoroughbred poultry, geese, ducks—three kinds, Pearl and white guineas, bantams, all kinds fancy pigeons, and all kinds of dogs: Write for free circular. D. L. Bruen, Platte Center, Nebr.

WHITE PLYMOUTH ROCKS EXCLUSIVELY—Spring pullets now laying. Prize winning pairs and pens for sale. R. L. Taylor, R. 1, Iola, Kans.

Duff's Barred Rock Winners at half price during summer. Fine spring chicks and 1-year-old breeders. Send for circular and prices. A. H. Duff, Larned, Kans.

### BARRED AND BUFF ROCKS

Smith's laying strains of Barred and Gold "Nugget" strain of Buffs. Prices right on yearling hens. Young stock after Nov. 1st. Chas. E. Smith, Route 2, Mayetta, Kans.

### Bargains in Cockerels

Buff Rocks, White Wyandottes and R. I. Reds. These birds will be sold for a great deal more later in the season or next spring. They must be moved quickly so I offer them at a sacrifice. All first class, farm-raised birds. Write your wants to

E. D. MARTIN, Newton, Kans.

### White Plymouth Rocks

EXCLUSIVELY.

For 16 years I have bred W. P. Rocks exclusively, and have them as good as can be found anywhere. I sell eggs from first-class, high-scoring stock at live and let-live prices. \$2 per 15, \$5 per 45, and I pay the expressage to any express office in the United States.

Thomas Owen, Sta. B, Topeka, Kans.

### Rhode Island Reds.

NEOSHO POULTRY YARDS—Rose Comb R. I. Reds. Nice cockerels \$1. We hatched 200 chicks; only lost 10 of them by rain. Thirteen poultry receipts \$1. J. W. Swartz, Americus, Kans.

PURE Single Comb Rhode Island Red Cockerels, 50c to 75c each. J. N. Barntrager, Garnett, Kans.

### Brahmas.

Light Brahma Chickens. Choice pure-bred cockerels for sale. Write or call on

Chas. Foster & Son, Route 4, Eldorado, Ks.

### Leghorns.

SINGLE COMB Brown Leghorn Cockerels for sale. February hatch. Address F. E. Town, Haven, Kans.

FIFTY S. C. B. Leghorn cockerels, founded by stock of prize-winners, Chicago World's Fair; headed by cock from Washington, D. C., Experiment Station; \$1 and \$2 each. Head cock, \$5. Mrs. Pleasant G. Eads, Route 4, Clark, Mo.

### S. C. Brown Leghorns.

Early hatched cockerels, \$1.25 each. Lots of six, \$5. Per one dozen, \$10. A few yearling cocks for sale. Write for prices on pens, pairs or trios.

L. H. Hastings, Quincy, Kans.

### Buff Orpingtons.

BUFF ORPINGTONS—Cockerels, pullets, young mated breeding pens. Every prize State Wide Fair. Every first but one, State Fair. Egg Laying Record and catalogue free. W. H. Maxwell, 1906 MacVicar Road, Topeka, Kans.

CHOICE Buff Orpingtons and B. P. Rock cockerels. Collie pups and bred hitches. Send for circular. W. B. Williams, Stella, Neb.

### Scotch Collies.

SCOTCH COLLIES—From registered stock. Pedigree furnished. Write, G. B. Gresham, R. F. D. 1, Bucklin, Kans.

SCOTCH COLLIE PUPPIES—Natural born cattle drivers. Pedigreed stock. W. Hardman, Frankfort, Kans.

SCOTCH COLLIES—Pups and young dogs from the best blood in Scotland and America now for sale. All of my brood hitches and stud dogs are registered, well trained and natural workers. Emporia Kennels, Emporia, Kans. W. H. Richards.

### Scotch Collies.

Fifty-seven Collie puppies just old enough to ship. Place your orders early, so you can get one of the choice ones.

Walnut Grove Farm, Emporia, Kans.

 SCOTCH COLLIES of the very best breeding, have the intelligence of a human. For particulars address DEPT. 1000 PARK SEVERY KAN

## Incubators and Brooders

If you want a good Incubator in a hurry write to the undersigned. He keeps the Old Trusty Incubator (hot water) and the Compound (hot air), two of the best Incubators made. Also the Zero Brooder, no better made. It pays to buy a good brooder. No use hatching chicks without a good brooder to raise them. The Zero will raise every chick you put in it.

THOMAS OWEN, Sta. B, Topeka, Kans.

proximating natural as possible. Turkeys and geese, however, will be shown as pairs, male and female. P. H. De Pree, of Kansas City, is superintendent of the department.

PURE-BRED STOCK SALES.

Shorthorns.

Oct. 5.....A. O. Stanley, Sheridan, Mo.
Oct. 6.....M. Bressler, Grant City, Mo.
Oct. 8.....F. H. Foster, Lyons, Kans., at Mitchell, Kans.

Herefords.

Oct. 15.....R. N. Lewis estate, Bladen, Neb.
Oct. 26, 27.....Chas. Richie, W. B. Stine, Mgr., Surprise, Neb.
Mar. 2, 4.....Dispersion sale of Cornish & Patten Herefords at Osborn, Mo., to settle Patten's estate.

Red Polls.

Oct. 7.....J. B. Davis, Fairview, Kans.
Aberdeen-Angus.

Oct. 21.....J. Auracher, Shenandoah, Iowa
Oct. 22.....J. M. Hathaway, Turin, Mo.
Oct. 23.....Isenbarger Bros., Battle Creek, Mich.
Nov. 5.....Dispersion of Anderson & Findlay herd at Gas, Kans., W. C. McGavock, Mgr., Springfield, Ill.

Jerseys.

Oct. 12.....J. B. Givens, Watonga, Okla., at Oklahoma City.
Oct. 21.....Kinloch Farm, Kirksville, Mo.

Poland-Chinas.

Oct. 2.....J. M. Divinia, Cameron, Mo.
Oct. 3.....Lee Stanford, Lyons, Kans.
Oct. 3.....Andrews Stock Farm, Kearney, Mo.
Oct. 3.....D. C. Lonergan, Florence, Kans.
Oct. 5.....L. D. Arnold, Enterprise, Kans.
Oct. 5.....E. A. Vancosey, Mont. Ida, Kans.

Nov. 15.....Geo. F. Beasley, Girard, Kans.
Nov. 19.....Leyba & Puroell, Marshall, Mo.
Nov. 20.....Samsintaker Bros., Brookfield, Mo.
Nov. 21.....Edw. Goodspeed, Independence, Mo.
Nov. 22.....W. E. Gates, Sheridan, Mo.
Nov. 23.....Goodrich Stock Farms, Eldon, Mo.

Nov. 23.....J. J. Roy, Fevik, Kans.
Nov. 23.....F. A. Dawley, Waldo, Kans.
Nov. 24.....A. F. Wright, Valley Center, Kans.
Nov. 25.....F. P. Oerly, Oregon, Mo.
Nov. 25.....F. G. Niese & Son, Goddard, Kans.
Nov. 26.....D. E. Crutcher, Drexel, Mo.
Nov. 27.....J. H. Harvey & Son, Maryville, Mo.
Nov. 27.....T. P. Sheehy, Hume, Mo.
Nov. 28.....J. D. Willifong, Zeandale, Kans., at Manhattan, Kans.

Nov. 28.....C. T. Coates, Cleveland, Okla.
Dec. 5.....G. W. Roberts, Larned, Kans.
Dec. 7.....H. N. Holdeman, Meade, Kans.
Dec. 15.....Frank Eddest, Ada, Okla.
Jan. 19.....T. A. McCandless, Higelow, Kans.
Jan. 19.....A. W. Shriver, Cleveland, Kans.
Jan. 21.....J. H. Harshaw, Butler, Mo., at Sedalia, Mo.

Jan. 26.....Frank Michael, Erie, Kans.
Jan. 27.....Homer L. McKelvie, Fairfield, Neb.
Jan. 28.....W. H. Johnston, Frankfort, Kans.
Feb. 3.....F. G. Niese & Son, Goddard, Kans.
Feb. 4.....W. W. Martin, Anthony, Kans.
Feb. 4.....H. O. Sheldon, Wichita, Kans.
Feb. 9.....Kivett Bros., Burr Oak, Kans.
Feb. 10.....W. W. Wheeler, Harlan, Iowa.
Feb. 10.....Albert Smith & Son, Superior, Neb.
Feb. 10.....Lemon Ford, Minneapolis, Kans.
Feb. 11.....C. S. Nevius, Chiles, Kans.
Feb. 12.....Geo. Wedd & Son and C. S. Nevius, at Spring Hill, Kans.

Feb. 12.....D. A. Wolfersperger, Lindsey, Kans.
Feb. 13.....Thos. F. Walker, Alexander, Neb., at Fairbury, Neb.
Feb. 13.....Frank Georgia, Mankato, Kans.
Feb. 17.....John Book, Talmage, Kans.
Feb. 18.....J. C. Larrimer, Wichita, Kans.
Feb. 18.....J. E. Bower, Talmage, Kans.
Feb. 21.....J. W. Hoyle, Dwight, Kans.
Feb. 21.....W. C. Topliff, Esbon, Kans.
Feb. 24.....Logan & Gregory, Beloit, Kans.
Feb. 25.....H. H. Harshaw, Butler, Mo.
Feb. 25.....W. A. Prewett, Asherville, Kans.
Feb. 26.....C. H. Pilcher, Glasco, Kans.

Duroc-Jerseys.
Oct. 6.....Ford Skeen, Auburn, Neb.
Oct. 7.....J. B. Davis, Fairview, Kans.
Oct. 7.....W. H. Duffenderfer, Lost Springs, Kans.
Oct. 7.....W. M. Putman, Elk City, Kans.
Oct. 8.....W. M. Putman, Elk City, Kans.
Oct. 8.....F. J. Miller, Wakefield, Kans.
Oct. 10.....F. C. Crocker, Filley, Neb.
Oct. 14.....S. W. Hogate, Bladen, Neb.
Oct. 14.....W. G. Unitt, Seward, Neb.
Oct. 16.....Lynch & Addy, at Independence, Mo.
Oct. 16.....Forest Ray, Sheridan, Mo.
Oct. 17.....W. J. Constant, Grant City, Mo.
Oct. 19.....J. E. Ellsworth, Formosa, Kans.
Oct. 19.....John Morrison, College View, Neb.
Oct. 20.....Sweany Bros., Kidder, Mo.
Oct. 20.....G. Van Fatten, Sutton, Neb.
Oct. 21.....Geo. Briggs & Sons, Clay Center, Neb.
Oct. 21.....E. D. Ludwig, Sabetha, Kans.
Oct. 21.....T. S. Larowe, Miltonvale, Kans.
Oct. 21.....Pearl H. Pagett, Beloit, Kans.
Oct. 22.....Ola Nordstrom, Clay Center, Kans.
Oct. 22.....W. T. Hutchinson, Cleveland, Mo.
Oct. 22.....H. G. Warren, Inland, Neb.
Oct. 23.....Hopkins Bros. & Sanstead, Holdrege, Neb.

Oct. 23.....J. C. Monk, Ridgeway, Mo.
Oct. 24.....O. G. Smith & Son, Kearney, Neb., and Ross R. Steele, Wood River, Neb., at Wood River, Neb.
Oct. 24.....Watts & Dunlap, Martin City, Mo., at Independence, Mo.
Oct. 27.....E. S. Watson, Torney, Mo.
Oct. 27.....O. N. Wilson, Silver Lake, Kans.
Oct. 28.....Geo. Davis & Son, Mulford, Neb.
Oct. 28.....Geo. Davis & Son, Mulford, Neb.
Oct. 28.....Grant Chapin, Green, Kans., at Manhattan, Kans.

Oct. 28.....W. H. Wheeler & Sons, and W. H. Miller, Cameron, Mo.
Oct. 29.....Chas. Leibhart, Marquette, Neb.
Oct. 29.....G. W. Colwell, Summerfield, Kans.
Oct. 29.....Geo. M. Hammond & K. S. A. C., Manhattan, Kans.
Oct. 29.....Thompson Bros., Garrison, Kans.
Oct. 30.....Burton Hahn, Norton, Kans.
Oct. 30.....J. E. Rowe, Stockham, Neb.
Oct. 31.....E. C. Gwinner, Holdrege, Neb.
Oct. 31.....J. E. Joines, Clyde, Kans.
Oct. 31.....E. M. Meyers, Burr Oak, Kans.
Nov. 3.....E. M. Meyers, Burr Oak, Kans.
Nov. 4.....J. H. Gayer, Cottonwood Falls, Kans.
Nov. 4.....R. M. Wilson, Chester, Neb.
Nov. 4.....E. F. Porter, Mayfield, Kans., at Caldwell, Kans.

Nov. 4.....H. Metzinger, Caldwell, Kans.
Nov. 5.....J. F. Stodder and Marshall Bros., Burden, Kans.
Nov. 5.....B. F. Porter, Caldwell, Kans.
Nov. 6.....E. F. Roberts and Harter, Hebron, Neb.
Nov. 6.....Coppins & Worley, Potwin, Kans.
Nov. 9.....S. R. Murphy, Savannah, Mo.
Nov. 10.....W. L. Addey & Son, Parnell, Mo.
Nov. 10.....Rinehart & Slagle, Smith Center, Kans., and W. C. Whitney, Agra, Kans., combination sale at Smith Center.

Nov. 11.....Samuel Drybread, Elk City, Kans.
Nov. 11.....Chester Thomas, Waterville, Kans.
Nov. 11.....J. W. Beuchamp, Bethany, Mo.
Nov. 12.....At Corning, Kans., F. G. McDowell, Goff, Kans.
Nov. 12.....F. G. McDowell, Goff, Kans., at Corning, Kans.
Nov. 12.....Frank Drybread, Elk City, Kans.
Nov. 12.....Ellis F. Hopkins, Ridgeway, Mo.
Nov. 17.....L. D. Padgett & Segrist, Beloit, Kans.
Nov. 20.....A. S. Aikin, Parsons, Kans.
Nov. 21.....Lant Bros., Parsons, Kans.
Nov. 23.....J. Harvey & Son, Marysville, Kans.
Jan. 19.....Jas. L. Cook, Marysville, Kans.
Jan. 25.....W. C. Whitney, Agra, Kans.
Jan. 26.....Ward Bros., Republic, Kans.
Jan. 27.....C. Logan, Onaga, Kans., at Havensville, Kans.

Jan. 28.....Samuelson Bros., Manhattan, Kans.
Feb. 1.....W. T. Fitch, Minneapolis, Kans.
Feb. 2.....Pearl H. Pagett, Beloit, Kans.
Feb. 3.....Jno. W. Jones & Son, Concordia, Kans.
Feb. 3.....G. W. Colwell, Summerfield, Kans.
Feb. 4.....J. E. Joines, Clyde, Kans.
Feb. 5.....Grant Chapin, Green, Kans., at Manhattan, Kans.
Feb. 6.....G. M. Hammond and K. S. A. C., Manhattan, Kans.
Feb. 9.....B. F. Porter, Mayfield, Kans., at Caldwell, Kans.
Feb. 9.....Thompson Bros., Garrison, Kans.
Feb. 9.....H. Metzinger, Caldwell, Kans.
Feb. 10.....T. E. Goethe, Leonardville, Kans.
Feb. 11.....Ola Nordstrom, Clay Center, Kans.
Feb. 11.....J. F. Stodder and Marshall Bros., Burden, Kans.
Feb. 12.....L. E. Kretzmer, Clay Center, Kans., at Emporia, Kans.
Feb. 13.....Frank Georgia, Mankato, Kans.
Feb. 15.....J. A. Rathbun, Downs, Kans.
Feb. 16.....D. O. Bancroft, Downs, Kans.
Feb. 17.....R. G. Sollenburger, Woodston, Kans.
Feb. 18.....John W. Jones & Son, Concordia, Kans., at Emporia, Kans.
Feb. 18.....E. M. Meyers, Burr Oak, Kans.
Feb. 19.....H. B. Mimer and A. T. Cross, Guide Rock, Neb., at Superior, Neb.
Feb. 23.....A. B. Skadden & Son, Frankfort, Kans.
Feb. 24.....James M. Williams, Home, Kans.
Feb. 24.....R. B. Marshall, Willard, Kans.
Feb. 24.....James M. Williams, Home, Kans.

The Lincoln Top Sale Circuit.
Oct. 5.....A. Wilson, Bethany, Neb.
Oct. 6.....Ford Skeen, Auburn, Neb.
Oct. 7.....W. M. Putman, Tecumseh, Neb.
Oct. 7.....R. F. Miner, Tecumseh, Neb.
Oct. 9.....Elmer Lamb, Tecumseh, Neb.
Oct. 10.....F. C. Crocker, Filley, Neb.

Budweiser --- Brandywine
SALE OF
BIG BONED SPOTTED POLAND-CHINAS
40 Head of the Farmer's Kind - 40
JAMESPORT, MO., SATURDAY, OCTOBER 17
Twenty-two big boned spotted spring boars ready for service. Eighteen lengthy roomy gilts. A few will be bred for February litters.
If you are a lover of the Big Kind, the Prolific Kind, the Spotted Kind, you will find them at this sale.
Sale in town under cover. My catalog tells all about the Big Boned Spotted Polands. Write for one.
H. L. FAULKNER, Prop.
Highview Farm --- Jamesport, Mo.
Geo. E. Cole will represent The Kansas Farmer at this sale.

CLOSING OUT SALE OF
Registered Shorthorn Cattle
At the Prairie Lawn Farm 5 Miles South of Emporia, Kansas, Thursday, October 15, 1908
27 registered cows, mostly young, 11 registered 1- and 2-year-old heifers, 3 registered 2-year-old bulls, 3 registered 1-year-old bulls, 15 bull calves, 10 heifer calves.
On account of ill health I am compelled to close out my entire herd.
JOS. KREBECK,
Col. Tom Scofield, Auctioneer.

Southeastern Kansas Sale Circuit.
Nov. 11.....Samuel Drybread, Elk City, Kans.
Nov. 12.....Frank Drybread, Elk City, Kans.
Nov. 13.....J. Baker, Elk City, at Thayer, Kans.
Nov. 14.....O. W. Simerly, Parsons, Kans.
Chester Whites.
Oct. 13.....J. E. Simpson, Sheridan, Mo.
Berkshires.
Oct. 17.....A. C. Dugan, at Blackwell, Okla.
Oct. 27.....C. A. Robinson, Kirksville, Mo.
O. I. C.
Sept. 20.....Combination sale, Cameron, Mo., I. M. Fisher, Mgr., box K, Hastings, Neb.
Oct. 2.....J. M. Hull, mgr., Clinton, Mo.
Oct. 6.....Wm. Bartlett, Pierce, Neb.
Oct. 8.....Combination sale, Sedalia, Mo., I. M. Fisher, Mgr., box K, Hastings, Neb.
Oct. 10.....D. C. Stayton, Blue Springs, Mo.
Oct. 15.....Combination sale, Independence, Mo., I. M. Fisher, Mgr., box K, Hastings, Neb.
Oct. 22.....Combination sale, Hastings, Neb., I. M. Fisher, Mgr., box K, Hastings, Neb.
Oct. 27.....Combination sale, Holdrege, Neb., I. M. Fisher, Mgr., box K, Hastings, Neb.
Oct. 30.....Combination Sale, Concordia, Kans., I. M. Fisher, Mgr., box K, Hastings, Neb.
Nov. 4.....Combination sale, Sioux City, Iowa, I. M. Fisher, Mgr., box K, Hastings, Neb.
Nov. 5.....D. C. Stayton, Blue Springs, Mo.
Nov. 10.....A. T. Garth, Larned, Kans.
Dec. 10.....S. W. Artz, Larned, Kans.
Jan. 15.....E. Forward & Son, Bayneville, Kans.
Feb. 19.....Isaac Briggs, Minneapolis, Kans.
Horses.
Feb. 16.....J. C. Robison, Mgr., Wichita, Kans.
Nov. 23, 24, 25.....Draft breeds registered horses at Springfield, Ill., W. C. McGavock & Co., Mgrs.
Combination Sales.
Feb. 16, 17, 18.....J. C. Robison, Mgr., Towanda, Kans., at Wichita, Kans.

American Royal Sales.
Oct. 13.....Herefords..Secretary C. R. Thomas, manager, 221 West 12th St., Kansas City, Mo.
Oct. 14.....Galloways..Secretary R. W. Brown, manager, 17 Exchange Ave., Chicago.
Oct. 15.....Aberdeen-Angus..Secretary Charles Gray, manager, 17 Exchange Ave., Chicago.
Oct. 16.....Berkshires..Charles E. Sutton, manager, Lawrence, Kans.
Oct. 16.....Shorthorns..Secretary R. O. Cowan, manager, 17 Exchange Ave., Chicago.
International Sales.
Dec. 1.....Aberdeen-Angus..Secretary Charles Gray, manager, 17 Exchange Ave., Chicago.
Dec. 2.....Galloways..Secretary R. W. Brown, manager, 17 Exchange Ave., Chicago.
Dec. 3.....Herefords..Secretary C. R. Thomas, manager, 221 West 12th St., Kansas City, Mo.
Dec. 4.....Shorthorns..Secretary B. O. Cowan, manager, 17 Exchange Ave., Chicago.

OUT OF DOOR WORKERS
Men who cannot stop for a rainy day - will find the greatest comfort and freedom of bodily movement in
TOWER'S FISH BRAND
WATERPROOF OILED CLOTHING
SLICKERS \$3.00 SUITS \$3.00
Every garment bearing the sign of the fish guaranteed waterproof
Catalog free
A. J. TOWER CO. BOSTON U.S.A.
TOWER CANADIAN CO. LIMITED TORONTO CAN.

Nov. 5.....John Book, Talmage, Kans.
Nov. 6.....C. S. Nevius, Chiles, Kans.
Nov. 6.....J. E. Bower, Abilene, Kans.
Nov. 6.....J. E. Summers, Clifton Hill, Mo.
Nov. 6.....Kivett Bros., Burr Oak, Kans.
Nov. 7.....W. B. Hayden, Campbell, Neb.
Nov. 7.....Shipley Bros., Grant City, Mo.
Nov. 7.....D. C. Stayton, Blue Springs, Mo.
Nov. 7.....Stryker Bros., Fredonia, Kans.
Nov. 9.....Herbert Griffith, Clay Center, Kans.
Nov. 10.....Anton Roessler, Wilcox, Neb.
Nov. 10.....N. E. Copeland, Waterville, Kans.
Nov. 10.....Ayteal L. Perrin, Buckner, Mo.
Nov. 10.....R. M. Buck, Eskridge, Kans.
Nov. 10.....H. H. Harshaw, Butler, Mo.
Nov. 10.....H. F. Peiphrey & Sons and Jewell Bros., at Humboldt, Kans.
Nov. 11.....Albert Smith & Son, Superior, Neb.
Nov. 12.....L. N. Goudy, Hastings, Neb.
Nov. 12.....Schneider & Moyer, Nortonville, Kan.
Nov. 12.....J. R. Sparks, Hunter, Okla.
Nov. 13.....Frank Zimmerman, Centerville, Kan.
Nov. 13.....Francisco Bros., Hastings, Neb.
Nov. 14.....J. E. Bundy & S. N. Hodgson, Parkersburg, Kans.
Nov. 14.....Geo. B. Rankin, Marion, Kans.
Nov. 16.....Wm. Wingate, Trenton, Mo.
Nov. 17.....C. G. Mills, Pleasant Hill, Mo.
Nov. 17.....W. R. Crowther, Golden City, Mo.

Farmers Exchange Column

"Wanted," "For Sale," "For Exchange," and small want or special advertisements for short time will be inserted in this column without display for 10 cents per line, of seven words or less, per week. Initials or a number counted as one word.

Cattle.

JERSEYS—Choice heifers and young cows of fine breeding for sale. R. L. Taylor, R. 1, Iola, Kans.

ALYSDALE SHORTHORNS—2 yearling bulls by Prince Consort, Lord Mayor dams. 10 cows and heifers, well bred, good condition, some bred, others open, singly or in lots. Priced right. Come and see them. C. W. Merrim, Columbian Bldg., Topeka, Kans.

FOR SALE—Aberdeen-Angus bull. Gentle, registered, 7 years old. Can't use him any longer. \$75 takes him. Frank Slater, R. 4, Pleasanton, Kans.

Horses and Mules.

FOR SALE—One black jack, 5 years old. Can show 11 of his colts on farm. W. B. Ross, Delphos, Kans.

SHEPHERD PONIES for sale. Write for price list. C. R. Clemens, Waldo, Kans.

FOR SALE—Montclair II 42462 extra fine black 4-year-old Percheron stallion. Brilliant breeding, low down, wide out, sound and all right. Weight 1980. Reason for selling, related to my mares. No trades considered. David Shaffer, Monmouth, Kans.

FOR SALE—Three jacks, age 3 to 10 years, registered; Mammoth, 15 to 16 hands high; black; 12 jennets; 2 colts; 2 jacks, age 1 1/2 to 2 years; 1 Percheron stallion, black, 1700 pounds. Write for particulars. Henry D. C. Poo, Blackburn, Okla.

Sheep.

WANTED—About 300 or 400 head of sheep to winter. J. R. Aldridge, Arkaon, Kans.

SHROPSHIRE rams for sale. A few choice ones, also ewes. All registered. Geo. F. Kellerman, Vinewood Stock Farm, Mound City, Kans.

FOR SALE OR EXCHANGE—One thoroughbred Shropshire ram, weight 225, or would exchange for one as good. Earl Johnson, Barnard, Kans.

FOR SALE—400 breeding ewes with 400 lambs, in bunches to suit, on farm of W. R. Lott, Highland Park. Address, Route 1, Topeka, Kans. Ind. Phone 2674.

Seeds and Plants.

WANTED, SEED SWEET CORN—If any nice sweet corn, suitable for seed, to offer, please correspond with us. The Barteldes Seed Co., Lawrence, Kans.

FOR SALE—200 tons alfalfa, to be fed on farm. Will furnish good feed lots. Plenty of water. C. M. Dyche, Ogden, Kans.

KHARKOV SEED WHEAT—Have some fine seed for sale. All seed cleaned and graded. For particulars write, Fred G. Caris, Clay Center, Kans.

KHARKOV WHEAT—Seed from Hays Experiment Station, 1906. \$1.25 per bushel, sacks included. W. W. Cook, Russell, Kans.

COLLEGE BRED SEED WHEAT—Kharkov and Malakoff. Ten Eyck Company, Concordia, Kans.

SEED WHEAT—We have the seed that made Kansas rich and famous. The Hard Turkey. The hardest, and best milling wheat grown. Will grow on any good land. Prices reasonable. Write for free sample. W. J. Madden, Hays, Kans.

THE BEST ALFALFA SEED GROWS "OUT THERE IN KANSAS" We sell it. Ask us for samples and prices. The Barteldes Seed Co., Lawrence, Kans.

WANTED TO BUY—New crop Meadow Fescue or English Blue Grass seed. If you have any to offer, please correspond with us. The Barteldes Seed Co., Lawrence, Kans.

Swine

A CAR of well bred alfalfa hogs, just right for corn. J. W. Longstreth, Lakin, Kearny Co., Kans.

Real Estate.

CASH for your property wherever located. If you want to sell, send description and price. If you want to buy, state your wants. Northwestern Business Agency, R 312 Bank of Commerce Bldg., Minneapolis, Minn.

BARGAINS—Improved 240 acres, some bottom, 115 acres cultivated, 25 alfalfa, 10 fenced hog light, well located. Price \$7,500; easy terms. All kinds and sizes. Write for lists. Garrison & Studebaker, Salina, Kans.

FOR SALE CHEAP or exchange for farm in Eastern Kansas, an improved ranch of 560 acres in Sherman Co., one mile to station; write give description in first letter. Joe S. Williams, Edson, Kans.

BARGAIN—Improved 160, smooth, fenced, 25 acres alfalfa land, 60 acres cultivated, orchard, 200 forest trees, well ft., windmill, 7 miles town, mail, phone, good locality, 1-2 mile to school. For particulars, terms and price, write owner, J. H. Brown, Norcatur, Kans.

I HAVE SOME GOOD BARGAINS in Gove County lands. Write and get my prices. We have lots of good water and a fine climate. M. V. Springer, Quinter, Kans.

LAND FOR SALE—Three upland farms in Jefferson County. One highly improved. Also wheat land in Gove County. J. F. True, Perry, Kans.

FINE alfalfa, wheat and stock farms for sale. Circulars free. Warren Davis, Logan, Kans.

FARMS for sale in Catholic community; \$25 per acre and up. Ed George, St. Paul, Kans.

QUARTER SECTION of fine land in Sherman County, close to Goodland, to trade for part horses, cattle or mules. T. J. Kennedy, Osawkie, Kans.

APPLES, PEACHES, and CHERRIES

Wild and partly improved fruit lands, from one to four miles from railroad and steamboat transportation. For full particulars write, D. A. TUFTS 308-1/2 Washington St., Portland, Oregon.

SELL YOUR REAL ESTATE

quickly for cash; the only system of its kind in the world. You get results, not promises; no retaining fees; booklets free. Address, Real Estate Salesman Co., 488 Brace Block, Lincoln, Neb.

MISOURI FARMS for SALE.

Everman has a farm for every man. Write for description and price list.

John W. Everman, -:- Gallatin, Mo.

LAND BARGAINS IN TEXAS AND ELSEWHERE

25,000 acres in Pan Handle country at \$2.00 to \$3.00 per acre. 22,000 acres in South Texas consisting of rice, cotton, sugar-cane, and all kinds of fruit lands at \$15.00 to \$25.00 per acre. Also choice fertile lands in the Artesian Belt of Texas. We also have a splendid list of Kansas ranches and farms for sale, and 10,000 acres in Colorado. For detailed information,

Address, H. P. RICHARDS, 205-4-7, Bank of Topeka Bldg., Topeka

Real Estate.

"Do You Want to Own Your Own Home?" If so, write for catalogue to Hurley & Jennings, Emporia, Kans.

\$500 Down, \$1500 Mar. 1

and the balance time and terms to suit, secures you one of the best specially equipped dairy, alfalfa and hog farms in the banner corn and alfalfa county of Kansas. Buy of owner and save agent's commission.

A. CORNELL, .. Burr Oak, Kans.

FOR SALE—GOOD CORN, WHEAT AND ALFALEA FARM.

324 acres in Harper County, Kans. This is located one-half mile from loading station on the Orient railroad and 7 miles from another town with two railroads. Has 114 acres in cultivation; nearly all can be cultivated; 210 acres of grass. This is good wheat, corn and alfalfa land; is all fenced and cross-fenced; watered by never-failing creek and well; 6-room residence; barn for 10 head of horses, with hay-mow; cow barn 2x50; granary; other outbuildings. Price for a short time, \$6,500.

The Nelson Real Estate & Imp. Co., 137 N. Main, Wichita, Kans.

FOR SALE AT BARGAIN COUNTER PRICE.

A fine ranch of 1,055 acres in one body in Eastern Kansas; 90 miles from Kansas City; in rich farming locality, 1 mile from railroad town, good shipping facilities, good market, church and school. First class improvements. Two dwellings, in first class condition, one with 9 large rooms, 2 stairways, pantry, closets, cellar, cistern and modern conveniences. Also one with 5 large rooms, cellar, cistern, summer kitchen, interior and exterior of both in good condition. Two large barns, cattle sheds, hog sheds and houses, granaries and wagon scales. Hog tight lots and pastures, wind mill and pump. Land is well watered by springs, ponds, wells and creek. All fenced and cross fenced. Wheat and corn lands, timothy and clover meadows, prairie meadows, blue grass and prairie pastures. Land could be divided into five farms of 160 acres or more each and each a good one. A snap. Get busy and write for fuller description to

J. L. SENIOR, :: Waverly, Kansas

SHEEP

Shropshire Rams

12 YEARLINGS, big strong fellows, by an imported ram, and out of show ewes. These are well woolled, and in excellent breeding condition and are priced at \$25.

COL. ED GREEN,

Florence, - - - Kansas

40 SHROPSHIRE RAMS 40

25 yearlings and 15 spring rams, extra good ones out of good dams and by an Imp. sire. These are thrifty vigorous fellows, not to fat, but just right for service. Prices reasonable, order quick.

JOHN D. MARSHALL, Walton, Ks.

Miscellaneous.

IF GOING TO CALIFORNIA THIS FALL, write to the Sun, Exeter, Tulare County, Calif., for descriptive literature about the profits of orange and fruit growing in that section.

WANTED TO BUY—A good second-hand hay press. Self feed. Sandurich preferred. Must be in good running order and price right. Grant Ewing, Blue Rapids, Kans.

WRITE J. D. S. HANSON, HART, MICH., for best list of fruit, grain and stock farms.

NEW HONEY—Alfalfa, \$8.40 per case of two 60 pound cans. A. S. Parson, Rocky Ford, Colo

AUCTION SCHOOLS—Learn auctioneering. Illustrated catalogue free. Carpenter's Auction School, Trenton, Mo.

TEN DOLLARS for names of two friends. Capital Watch Co., Box 147, Topeka, Kans.

FOR SALE—Pure alfalfa honey in 60-pound cans. In case lot of two cans, \$6.50; single cans, \$4.50. Prompt shipments. W. P. Moore, Los Animas, Col.

WANTED—Local agents to take orders for a complete line of high grade western grown nursery stock. Permanent position. Experience unnecessary. Outfit free. Cash weekly. National Nurseries, Lawrence, Kans.

JOB PRINTING Write us for prices on anything in the job printing line. Address B. A. Wagner, Mgr., 625 Jackson Street, Topeka, Kans.

The Stray List

September 17.

Stafford County, J. B. Kay, Clerk. CALVES—Taken up August 24, 1908 by G. E. McCandless in Rose Valley tp., three calves about 4 months old; one black bull, one red and white bull, one red and white heifer.

September 24.

Douglas County—A. Frank Kerns, Clerk. STEER—Taken up, November 7, 1907, by E. W. Armstrong in Lawrence, one brindle steer, right ear roped, brand on left hip and shoulder; value \$30.

October 1.

Jackson County—J. W. Martin, Clerk. HEIFERS—Taken up, September 7, 1908, by L. Latimer, in Liberty tp., two yearling red heifers, valued at \$16 each.

TAMWORTHS

Greenwood Stock Farm TAMWORTHS Fall sows and spring pigs, both sexes, for season's trade. Write for prices. J. W. Justice & Son, Kalona, Iowa.

Profit Farm Herd Tamworths

Choice Spring Pigs, both sexes, for season's trade, in pairs or trios not related. Special prices on boar pigs. Write your wants. Jas. P. McCollom, Route 1, Ferris, Ill.

ROUP'S TAMWORTHS

Fall boars and spring pigs, both sexes for season's trade. Write for prices, and come and see my stock. C. C. ROUP, KALONA, IOWA. Express Office, Iowa City.

Headquarters for Tamworths

On account of the failure of my health, I will have a closing out sale of my herd of Tamworth on October 27.

70--Head--70

Registered boars and gilts. Breeding two families. Can furnish pairs unrelated. Choice breeding. Geo. W. Freelee, Carbondale, Kans. Col. M. C. Pollard, Auctioneer.

DISPERSION SALE OF

Registered Shorthorns

Mitchell, Kans., Thursday, Oct. 8.

BREEDERS, FARMERS AND STOCKMEN:-

Conditions of my health has made it necessary that I sell my herd of Shorthorns, consisting of 6 bulls and 40 cows and I cordially invite you to attend this sale. The cattle are a good, useful, well bred lot and in the best possible condition to prove profitable for their future owners. I wish to call especial attention to the herd bull Rowdy Boy 270445, who is absolutely right in every way. The cows are choice individuals, sired by Buccaneer, Mark Hanna, and Rowdy Boy. They have all been bred since December 1, and some are now dropping their calves. Terms—12 months on good notes if paid when due, if not 10 per cent from date. Eight per cent off for cash. Sale will be held at the farm one mile from Mitchell, eight miles from Lyons, and twelve miles from Geneseo, Kans. Catalogues are now printed and will be mailed to those interested. Write for one. Address,

F. H. FOSTER, - - - Lyons, Kansas

Auctioneers, Col. W. H. Hopkins, and E. E. Potter.

DUROC-JERSEYS

Jackson's Durocs.

Some extra good, well grown spring boars, Ohio Chief, Orion, W. L. A.'s Choice Goods blood lines. 1 fancy double cross Ohio Chief fall boar, and a few bred sows at right prices. O. L. JACKSON, New Albany, Kans.

Williamson's Durocs.

Herd headed by Chief Orion 76941 by Ohio Chief. Choice spring boars and gilts at right prices. Some choice fall litters for sale later. W. H. Williamson, Raymond, Kans.

CROW'S DUROCS—140 large early spring pigs. Ohio Chief, Buddy K., Gorn Paul, Mo. Wonder and Kant Be Beat blood lines. Extra quality, reasonable prices. Electric cars run within 2 blocks of yards. W. E. Crow, 200 E. Osborn St., Hutchinson, Kans.

CEDAR LAWN DUROCS

70 choice well grown spring pigs, and a few extra fall yearling gilts and boars at farmers' prices. F. M. BUCHHEIM, R. 3, Lecompton, Kans.

STROH'S HERD OF DUROC-JERSEYS.

70 spring pigs for sale, mostly sired by Hogate's Model, the sweepstakes boar at Nebraska State Fair, 1906, and out of popular breeding dams. Correspondence solicited. J. STROH, Route 4, DeWitt, Neb.

HIGHLAND DUROCS.

100 Choice spring pigs of the best strains and a few fancy gilts bred for fall farrow, at reasonable prices. Farm adjoins town. L. A. KEELER, Toronto, Kans.

DUROC SPRING PIGS FOR SALE

of both sexes from the Orion, Kant Be Beat and Ohio Chief families. Correspondence solicited. Write for prices. O. A. Peacock, - - - Burchard, Neb.

200 SPRING PIGS.

HEADQUARTERS FOR DUROCS; any age, either sex, females sold open or bred. Largest herd in the S. W. Send in your order, we can fill it. COPPINS & WORLEY, Potwin, Kans.

GAYER'S DUROCS

36 choice fall gilts and 14 toppy fall boars by Golden Chief, a good son of Ohio Chief. These will be sold cheap to make room for my spring crop. Also 1 good yearling boar, \$25. J. H. GAYER, R. R. 1, Cottonwood Falls, Kans.

PEERLESS STOCK FARM

DUROC-JERSEY HOGS FOR SALE. R. G. SOLLENBERGER, Woodston, Kans.

GEO. KERR'S DUROCS.

Pigs for sale sired by such boars as Lincoln Chief, Leader, Lincoln Top. Out of dams from the Improver 24, Proud Advance, Top Notcher, Wonder and Ohio Chief families. R. R. 3, Box 90, Sabetha, Kans.

Humphrey's DUROCS.

Choice spring pigs, both kinds of early farrow; Ohio Chief and Improver 24 blood lines. Also Scotch Collies of the best breeding and quality. Prices reasonable. Call or write. J. S. Humphrey, R. 1, Pratt, Kans.

Walnut Creek Durocs

150 spring pigs by the herd boars, attractive Chief 61097 and Big Crimson 69418, and other good sires. Choice boars for sale now. T. E. Goethe, Leonardville, Riley Co., Kans.

Uneda Herd Duroc-Jerseys.

Choice spring pigs sired by Kerr's Model, one of the best sons of W. L. A. Choice Goods. Dams from the Improver, Ohio Chief and Tip Top Notcher families. Correspondence solicited. TYSON BROS., Tiroleville, Kans.

Howe's DUROCS.

100 early spring pigs, the best I ever raised. Improver, Top Notcher, Sensation and Gold Finch blood lines. Call or write. J. U. HOWE, Route 8, Wichita, Kans.

Fairview Herds--Durocs, Red Polls

Will offer at public sale on October 7, at 1 p. m., at farm, about 25 high grade Red Polled cows and heifers and 3 registered young bulls. Also 15 Duroc males, immune from cholera. J. B. DAVIS, Fairview, Brown Co., Kans.

Durocs and Shropshires.

Choice Durocs from weaning pigs to mature bred sows \$6 to \$25. Also 25 yearling and early spring Shropshire rams at right prices. H. H. HAGUE & SON, Newton, Kans.

Route 6, - - -

DEEP CREEK DUROCS

(Spring pigs, either sex, for sale, from the most noted families of the breed. Up-to-date Durocs at prices to move them. C. O. Anderson, Manhattan, Kas.

Marshall's Durocs

60 fall and winter, and 80 spring pigs, the best I ever raised, Ohio Chief, Goldfinch, Hunt's Model and Parver Mc blood lines Farmers' prices. Call or write

R. B. MARSHALL, Willard, Kans.

The Blossom House

Kansas City, Mo.

Opposite Union Depot. Everything first-class. Cafe in connection. Cars for the Stock Yards the up-town business and residence parts of the city and for Kansas City, Kansas, pass the door. Solid comfort at moderate prices.

THE ROYAL HOTEL, Lincoln, Neb

Moderate, royal proof, only American. Fine Hotel in the city. Centrally located, 15th and O Sts.

**POLAND-CHINAS**

**SUNFLOWER HERD PUBLIC SALE.**  
G. W. Allen, Route 4, Tonganoxie, Kans., will hold a public sale of 40 spring boars and gilts of Meddler and Corrector blood at Tonganoxie, Kans., on October 14. Note the advertising card and reading notice, and be present.

**Spring Boars For Sale.**

Big stretchy fellows, sired by 900-pound O. K. Prince 42071, out of big dams.  
G. M. HULL, Burchard, Neb.

**BROWN'S POLAND-CHINAS.**

Choice fall boars and spring pigs for season's trade from the richest breeding and individual merit.  
C. P. BROWN, Whiting, Kansas.

**Pickerell Herd—Large Poland-Chinas.**

Choice pigs, both sexes for season's trade. The big boned, large litter kind that make the money for the feeder. Write your wants.  
B. E. RIDGELY, Pickerell, Neb.  
Route 2.

**Higgins' Big Boned Poland-Chinas**

Blue Valley Exception 41625 at head of herd. Choice pigs, both sexes, for season's trade. Come and see us. Correspondence solicited.  
J. R. HIGGINS & SON, DeWit, Neb.

**Miesner's Poland-Chinas.**

Choice pigs for sale sired by Miesner's Hadley, a son of Big Hadley and grandson of Logan's Chief; out of large well bred sows. Write for prices.  
T. J. MIESNER, Sabetha, Kans.

**Becker's POLAND-CHINA**

For immediate sale a few bred sows, some choice fall litters and some good well grown spring boars at farmers' prices.  
E. J. H. BECKER, Newton, Kans.  
Route 7.

**WELCOME HERD POLANDS**

Choice richly bred spring pigs either sex. Several extra fall boars, fit to head good litters, also a half interest in the \$1000 Tom Litter. Fall sale Oct. 6.  
J. M. BAUER, ELMO, KANS.

**Big Boned, Smooth Poland-Chinas**

70 pigs for season's trade sired by a son of Guy's Hadley and grandson of Guy's Price out of Expansion bred sows. Correspondence solicited.  
LUTHER C. DAVIS, R. 4, Fairbury, Neb.

**CENTER GROVE POLANDS**

Choice well grown fall yearling gilts, sold bred or open. Also early springs, both sexes. Stock guaranteed and richly bred. Prices reasonable.  
J. W. Pelphrey & Son, Humboldt, Kans.

**FAIRVIEW STOCK FARM.**

Special bargains in choice Poland China gilts sold bred or open and a few extra fall boars by prize winning sires. Fall sale September 24.  
A. K. Sell, Fredonia, Kans.

**Pitcher's Poland-Chinas**

80 Good ones, consisting of 65 growthy spring pigs and a few choice gilts, out of richly bred prolific dams, and by Great Excitement, a son of Meddler 4. Our fall sale is called off and these will be sold at private treaty, at moderate prices. Stock registered and guaranteed.  
T. B. PITCHER & SON, Topeka, Kans.  
Sta. A, Route 4.

**Wayside Polands**

The Big Kind that Weigh and Win.  
125 early springs, both sexes, with size bone and stretch; 60 fall and winter pigs that are extra good ones, including a number of fancy females, out of prolific big boned sows and by Columbia Chief, by Chief Tecumseh 2d, and other noted sires. My prices are right.  
H. O. Sheldon, R. 8, Wichita, Kans.

**JONES' COLLEGE VIEW POLANDS.**

Several first class boars that are herd-headers; from 6 to 12 months old. Prices reasonable.  
W. A. JONES & SON, Ottawa, Ks.  
Formerly of VAN METER, IA., and breeders of CHIEF TECUMSEH 2d.

**JOHN BOLLIN,**

Route 5, Leavenworth, Kans.  
**BREEDS AND SELLS POPULAR Poland-Chinas**  
The State and World's Fair winning boars. Nemo L's Dude and The Moquet, in service. Bred sows and serviceable boars for sale.

**Chester Thomas' Poland-Chinas**

Boars by Nebraska Wonder, the great producer. Also 4 by King of Colonels II, 2 of these are out of Crimson Queen, dam of Vall's Special. Others are by Crittle's Redeemer, son of Crimson Crittle. These are high class at right prices.  
Chester Thomas, Prop.  
B. R. Thompson, Mgr. Waterville, Kans.

**When writing our advertisers please mention this paper.**

**BERKSHIRES**

**ROSEDALE FARM BERKSHIRES**

Herd by Premier Bells Duke. Choice pigs of both sex for season's trade. Prices reasonable.  
J. W. OGLE, AMES, IOWA.

**BAYER'S BERKSHIRES.**

110 Choice spring pigs to select from. Some extra good boars of serviceable age. Also sows bred to Field Marshall and Lee's Masterpiece, at farmer's prices.  
J. T. BAYER, Route 5, Yates Center, Ks.

**Guthrie Ranche Berkshires**

The Guthrie Ranche Berkshire herd, headed by Barryton Duke, assisted by Revelation, General Premier and Sir Ivanhoe (all three winners). Berkshires with size, bone and quality. Individuals of style and finish. You will find our satisfied customers in nearly every state in the Union.  
T. F. GUTHRIE, Strong City, Kans.

**Ridgeview Berkshires**

—FOR SALE—  
One aged and one yearling boar, and spring pigs of both sexes  
MANWARING BROS., Lawrence, Kansas  
Route 1.

**CHESTER-WHITES**

**CLOVER RIDGE CHESTER WHITES**

Choice pigs from the Garnett and Captain families. The large smooth strong boned, easy feeding kind. Correspondence solicited.  
E. S. CANADY, R. R. 2, PERU, NEB.

**O. I. C. SWINE**

**Snnnyside O. I. C.'s**

BARGAIN PRICES on choice well grown young stock both sexes, by the champion Jackson Chief 2d, and out of smooth prolific dams. Call or write.  
W. H. LYNCH, Reading, Kans.

**Closing Out Herd O. I. C.**

Including two champion herd boars. Tried blood sows. Choice spring pigs in pairs or trios. Correspondence solicited.  
John Cramer, Beatrice, Neb.

**GUSTAFSON'S O. I. C.'s**

Fancy fall and spring pigs both sexes, registered and richly bred, at rock bottom prices. Call on or write.  
F. O. GUSTAFSON, Lawrence Rock, Kans.  
Route 1.

**OHIO IMPROVED CHESTERS**

Ninety pigs of February and March farrow, and sixteen all boars and litters. The large deep smooth bodied strong boned easy feeding kind. I pay express, and ship on approval.  
N. H. ROGERS, PERU, NEB.

**O. I. C. SWINE**

Fall boars and gilts, also spring pigs. They are bred right and will be priced right. Let me know your wants  
S. W. ARTZ, Larned, Kans.

**O. I. C. BARGAINS**

Bred sows and gilts all sold. Have a fine bunch of spring pigs for which I am booking orders. Write your wants and get prices  
W. S. GODLOVE, Oanga, Kans.  
Prop. Andrew Carnegie herd O. I. C. swine.

**Garth's O. I. C.'s**

125 choice spring pigs, also some extra good fall boars, out of good dams and by the prize winners, Kerr Dick, Kerr Nat and Big Jim, at right prices. Call on or write  
A. T. GARTH, - Larned, Kans.

**HOLSTEIN-FRIESIANS**

**East Side Dairy Farm Holsteins**

Has extra well bred bull calves from 4 to 7 months old. They are mostly from dams with good A. R. O. records, and sired by bulls whose dams made 20 to 25 lbs. butter in 7 days. Choice lot and prices reasonable. Correspondence and inspection solicited. F. J. Searle, Prop., Oskaloosa, Kans.

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Choice young stock, heavy milking strains. Some extra good bull calves, either breed.  
HUGHES & JONES, Topeka, Kans.

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A few bargains in bull calves. Some choice bred spring pigs and boars ready for service. H. B. Cowles, Topeka, Kans. Ind. Telephone, 1036.

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Herd headed by Sir Johanna Aaggle Lad 24984. His four nearest dams averaged 85.9 lbs. milk one day, 23.6 lbs. butter seven days, 17.824 lbs. milk one year, 727 lbs. butter one year. He is assisted by Calantha Karndike 47877, dam Colantha 4th's Sarcistic, A. R. O., 21.13 lbs. butter in seven days as senior 2-year-old, by Sarcistic Lad, out of Colantha 4th, dam one of the world's record cows—27,432.5 lbs. milk one year, 1,247.82 lbs. butter one year. Correspondence solicited. B. L. Bean, Cameron, Mo.

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Herd headed by the Dutchess of Gloster bull, Gladiator 261085 and Baine 27673, a Cruickshank Buttery. Cows of Scotch and Scotch topped Bates breeding. 1 yearling Bampton bull (a good one) for sale. Will make tempting prices on a few females.  
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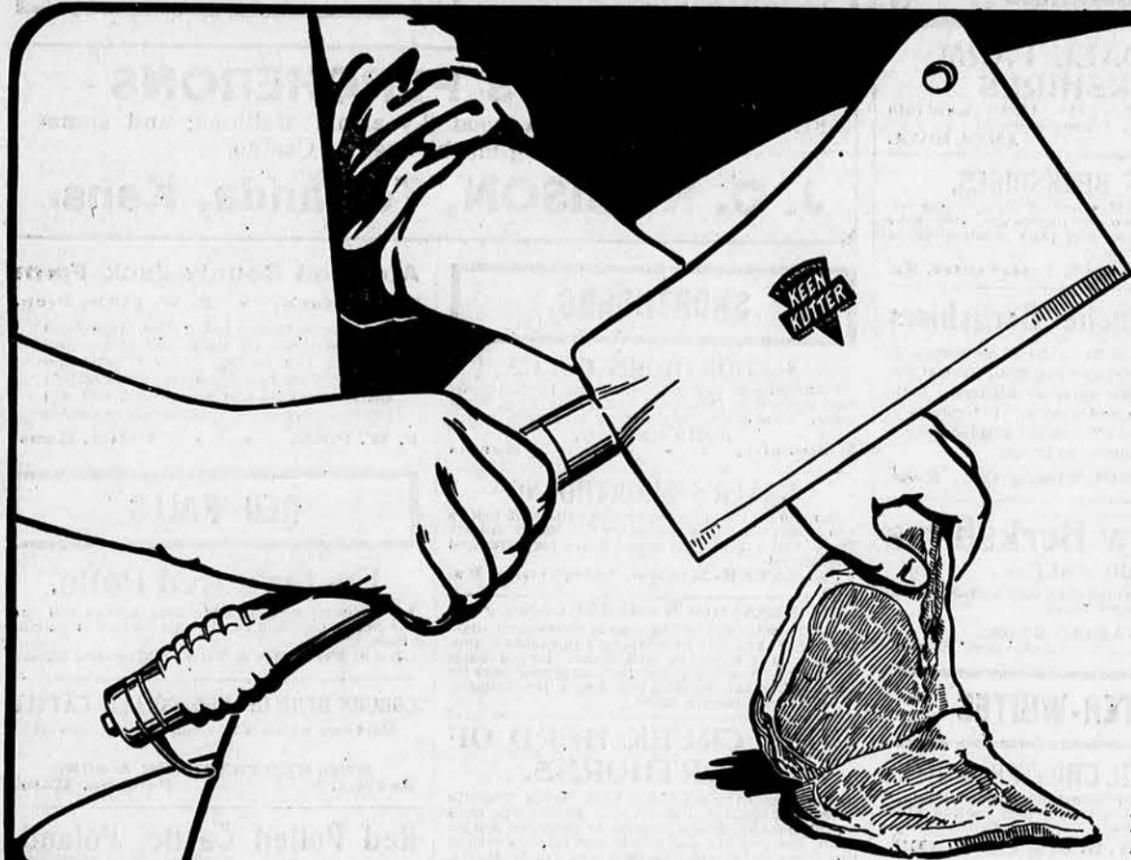
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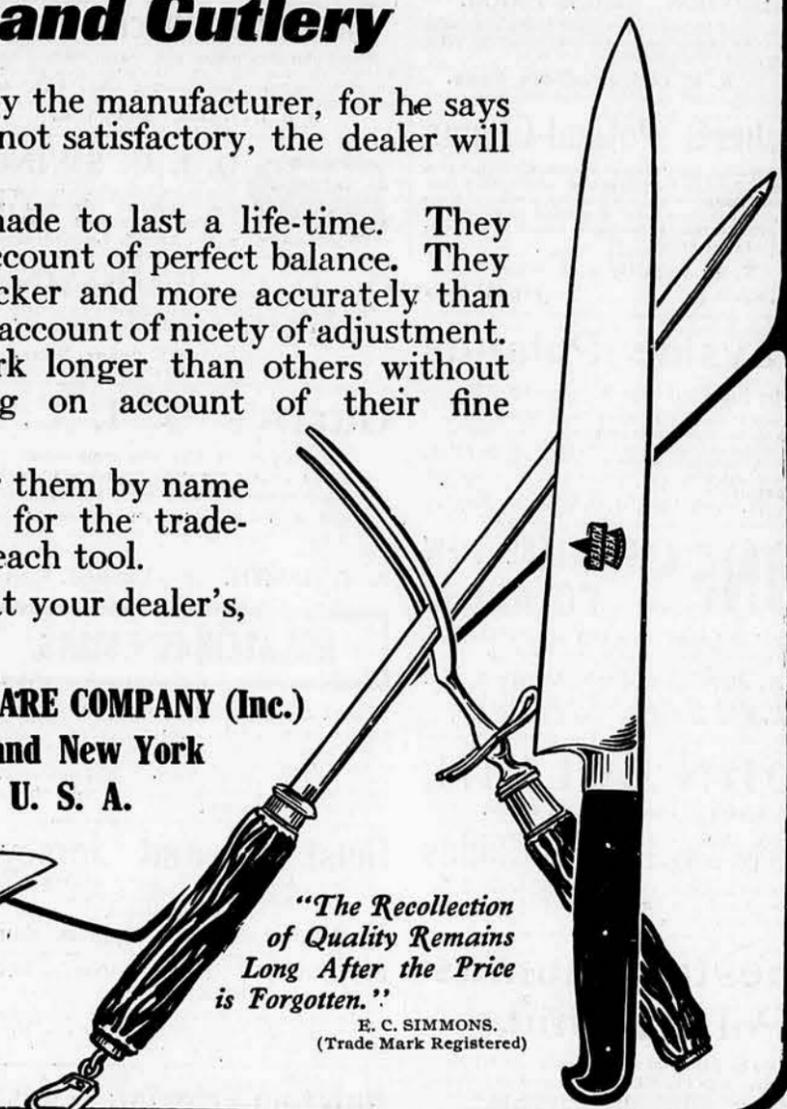
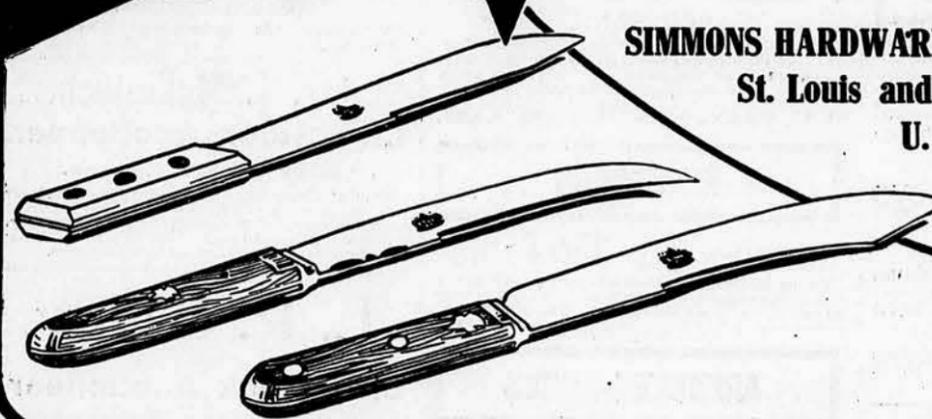
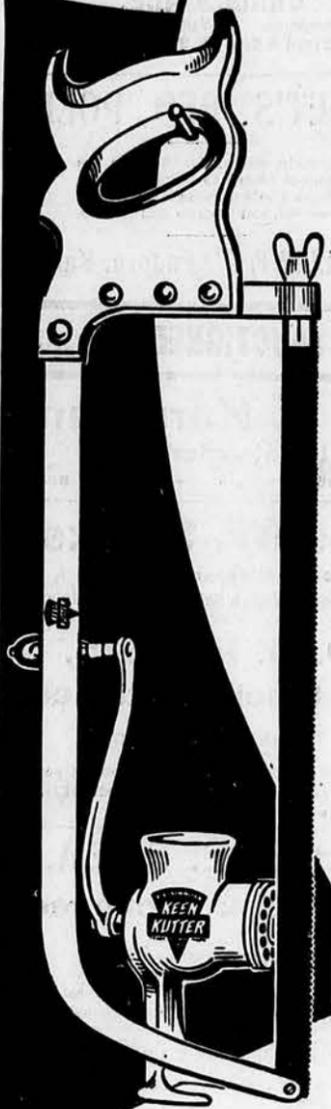
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